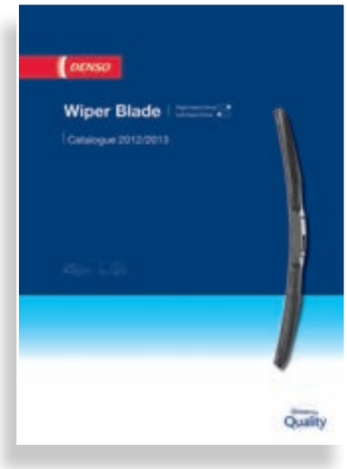
DENSO

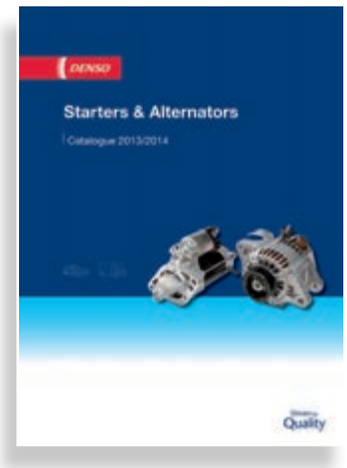
Lambda Sensors

Catalogue 2014/2015

Driven by Quality

Catalogue | Overview





Lambda Sensors | Table of Contents

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The DENSO difference

Designed with precision. Manufactured to the strictest OEM Standards. Subjected to rigourous safety and peformance tests. These are the exceptional standards behind DENSO's Lambda Sensors - an outstanding aftermarket programme of heated and unheated configurations guaranteed to match each vehicle perfectly every time.

Why choose DENSO? As one of the world's foremost developers and manufacturers of original vehicle parts and systems, DENSO understands Lambda Sensor technology better than anyone else. But that's not just our opinion - leading vehicle manufacturers agree! You'll find DENSO Lambda Sensors fitted as original equipment in Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall and many other vehicles. In fact since we first produced them in 1977, several hundred million DENSO Lambda Sensors have been doing their job measuring the oxygen in vehicle emissions worldwide; making us one of the leading Lambda Sensor manufacturers in the world.

That advanced engineering, OE quality and superior performance is now available to aftermarket customers in our DENSO Lambda Sensors programme. We use our unrivalled knowhow in each and every Lambda Sensor we make.

Which is why, when you need a replacement Lambda Sensor, there's only one name to choose: DENSO.

Every DENSO Lambda Sensor is checked for 100% quality, including high temperature signal output, air tightness, continuity and heater resistance.

The technologies you need

Sensor types

As you'd expect, DENSO Lambda Sensors are available in a broad range of applications. But they also offer all the advanced technologies you'll need to find exactly the right OEM quality replacements for your customers:

> Zirconia Sensors Both Thimble and Planar types
> A/F Sensors Both Thimble and Planar types
> Titania Sensors

**For more details about the functionality and comparison of Zirconia and A/F Sensors, see the Lambda Sensors Q&A section of this catalogue.*

Sensor housing

DENSO Lambda Sensors are available in two choices of OE quality housing. And with DENSO Sensors, the housing is complete. There's no need for add-on parts such as flange adaptors!

> Screw type housing
> Flange type housing - including OE quality flange gasket

Sensor fitting

Whatever your installation need, DENSO's two fitting options will help you make the right connection every time:

> 'Direct Fit' Sensor - with OEM connector fitted, ready for installation
> 'Universal Fit' Sensor - without a connector, enabling you to re-use (and recycle!) the old part's connector

Sensor inspection and replacement

> **How often should Lambda Sensors be replaced?**
DENSO recommends changing them as often as specified by the vehicle manufacturer. But Lambda Sensors should also be checked for functioning and efficiency at every vehicle check-up - an engine that's old or showing signs of excessive oil consumption will need the Sensors changed at shorter intervals than specified.

> **Why replace?**
Lambda Sensor failure - whether through normal ageing, the use of leaded fuels or contamination - can lead to damage of the Catalytic Converter and cause expensive repairs. Failed Lambda Sensors can also cause higher emissions, increased fuel consumption and reduced engine performance including poor acceleration, stalling and idling.

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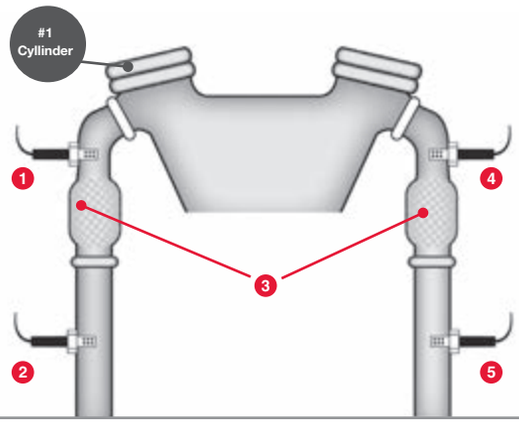
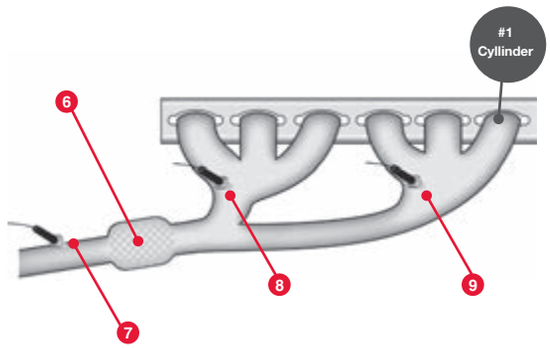
Identifying the position of the Lambda Sensors in the exhaust system

Vtype Engine

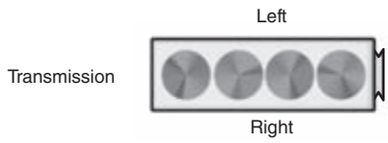


1. Pre Catalyser Lambda Sensor
2. Post Catalyser Lambda Sensor
3. Catalyser
4. Pre Catalyser Lambda Sensor
5. Post Catalyser Lambda Sensor

Inline Engine



6. Catalyser
7. Post Catalyser Lambda Sensor
8. Pre Catalyser Lambda Sensor
9. Pre Catalyser Lambda Sensor



DENSO categorises left and right sides of the engine block from the viewpoint of the transmission to the crank pulley.

Warning

The illustrations above represent typical engine mounting configurations. There are many variations depending on make and model. Please refer to the complete application list in this catalogue to choose the correct DENSO Lambda Sensor for a specific application location.

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Direct Fit Lambda Sensors

Parts supplied

Lambda Sensor, copper grease.

Required Tooling

1. Thread cleaning tap
   (size M18x1,5 for most Sensors).
2. Torque wrench with suitable Lambda Sensor socket.
   (size 22 for most Sensors).

Installation Steps

1. If needed, clean the thread in the exhaust pipe with a cleaning tap.
2. Apply some of the supplied 'Copper + Plus' grease on the Sensor thread.

   DO NOT GREASE THE SENSOR NOSE.
   Only apply grease to the Sensor thread.

3. Tighten the Sensor to the prescribed torque, using a torque wrench with a suitable Lambda Sensor socket.
   Take care not to damage the wires!

Universal Fit (connector re-fit) Lambda Sensors

Parts supplied

Lambda Sensor, copper grease, connectors, heat-shrinkable butt splices.

Required Tooling

1. Wire cutting pliers.
2. Wire stripping tool.
3. Ratchet crimping tool with red die for insulated terminals.
4. Hot air gun.
5. Thread cleaning tap *(size M18x1,5 for most Sensors)*.
6. Torque wrench with suitable Lambda Sensor driver *(size 22 for most Sensors)*.

Installation Steps

1. Cut the new Sensor wires to length.
   IMPORTANT: The new Sensor with the old connector must be the same length as the old Sensor and connector originally.
2. Cut the old Sensor wires to length.
3. Strip the wire ends to a length of 7mm.
4. Crimp the butt-splices with a ratchet crimping tool with red die *(size 22 - 16)*.
5. Shrink the insulation of the butt-splices with hot air, until they are sealed.
6. If needed, clean the thread in the exhaust pipe with a cleaning tap.
7. Apply some of the supplied Copper + Plus grease on the Sensor thread.

   DO NOT GREASE THE SENSOR NOSE.
   Only apply grease to the Sensor thread.

8. Tighten the Sensor to the prescribed torque, using a torque wrench with a suitable Lambda Sensor driver.
   Take care not to damage the wires!

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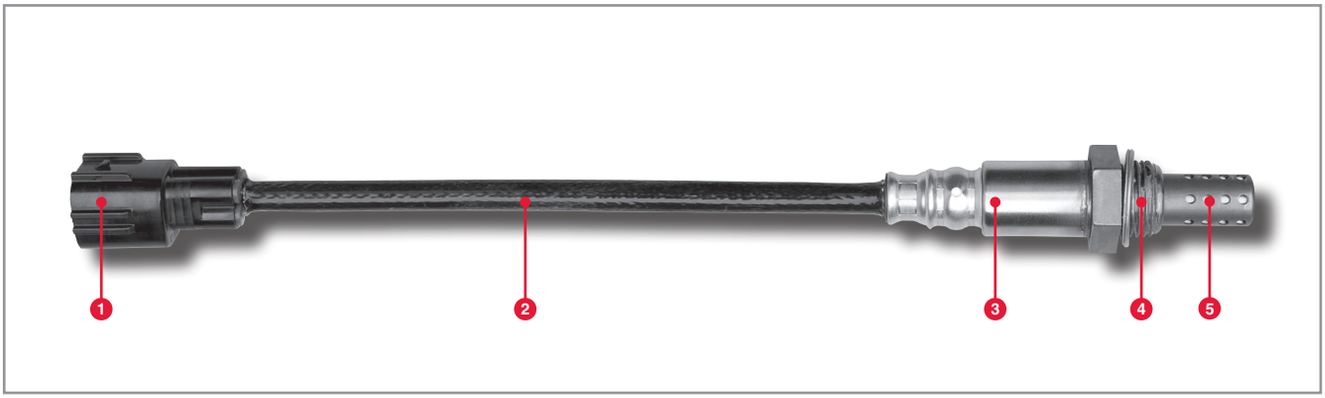
Correct Lambda Sensor handling and usage



1. Connector

Keep clean and dry:

> Do not use grease or contact spray of any kind.
> Moisture and other foreign substances will easily influence the Sensor.

2. Cable

Avoid heat:

> Keep free from the exhaust-pipe or other hot vehicle parts.

Avoid stress:

> Keep free from moving parts.
> Avoid cable tension.
> Avoid long, free-hanging cabling: it could start to swing or even get caught by other parts or objects.

3. Sensor body

Keep clean:

> The back end of the Sensor contains holes, through which it breathes to sample the outside air. These holes need to stay open to enable the Sensor to function.
> Keep the Sensor body protected from dirt and sudden cold water splashes.
> Do not spray the Sensor with high-pressure water.
> Keep the Sensor free from all types of coatings.

4. Sensor body thread

Grease the thread:

> Grease the thread with the supplied copper grease before installation.

5. Sensor nose

Avoid sudden impact:

> Avoid any sudden knocks to prevent damage to the sensitive ceramic element inside.

Avoid contamination:

> Avoid all possible contamination, by keeping the Sensor nose free from foreign substances.
> Do not spray anything on the Sensor nose.
> Do not put grease on the Sensor nose.
> Avoid the use of leaded fuel.
> Avoid the use of fuel additives

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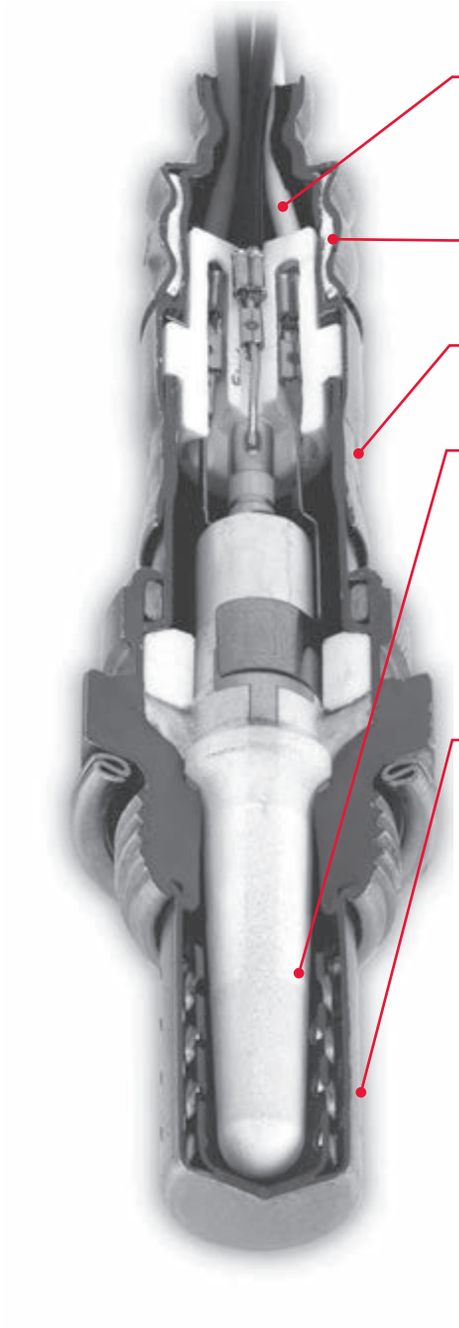
The blueprint for superior Lambda Sensor technology



The superior design of DENSO Lambda Sensors maximises engine performance and fuel efficiency while reducing harmful emissions.

> **Steel core in wires:** DENSO Sensors feature special wires, adapted for the harsh conditions of heat and vibration. The Teflon isolated wires have a core of stainless steel strands for extra strength, surrounded by nickel coated copper wires for good conductivity and low resistance.

> **Porous PTFE filter:** Allows atmospheric oxygen to enter the Sensor without permitting water or engine contaminants to seep into the casing.

> **Stainless steel housing:** Resists corrosion and contamination with a rugged, watertight body.

> **Aluminium-oxide double trap layer:** DENSO Lambda Sensors feature a unique, protective coating of aluminium oxide on the ceramic element to help ensure the Sensor takes accurate measurements and has a long lifetime. The coating helps to filter contamination out of the exhaust gases, keeping unwanted pollution away from the ceramic element and preventing an early clogging of the Sensor element and/or damage to the platinum electrode (of particular value for cars running with low quality fuel). The aluminium oxide trap layer therefore plays an active role in delivering optimal emissions, fuel economy, engine performance and prevention of engine damage.

> **Double protection cover (on all Sensors):** Maintains proper unit temperature for quicker response times and protects the ceramic element against silicone and lead poisoning.

Solving the fuel quality dilemma

Poor quality or polluted fuel can have an adverse effect on Lambda Sensor lifespan and performance - but DENSO Sensors provide the solution.

What causes the problem? Fuel can be contaminated by engine oil additives such as detergent dispersant or lubricant; petrol additives; sealing compound on engine parts; and crude oil deposits after desulphurisation. Contaminated fuel can emit a poisonous vapour if heated over 700 degrees Celcius, which affects the Lambda Sensor by clogging or poisoning the electrodes. This is a common cause of early Lambda Sensor failure.

The advanced design of DENSO Lambda Sensors eliminates this danger. The unique aluminium oxide double trap layer we apply surrounding the Sensor's ceramic element protects it from problem fuel; maintaining its lifespan and efficient performance.

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How to recognise Lambda Sensor types by wiring colour

Checking the colour of Lambda Sensor wires of any brand is an easy way to recognise their type. Use the tables below to easily identify the correct DENSO replacement.

ZIRCONIA LAMBDA SENSORS

Wire colour table:

	OE Lambda sensor 1	OE Lambda sensor 2	OE Lambda sensor 3	OE Lambda sensor 4	OE Lambda sensor 5
Heater +	Black	Purple	White	Brown	Black
Heater -	Black	White	White	Brown	Black
Sensor +	Blue	Black	Black	Purple	Green
Sensor -	White	Grey	Grey	Beige	White

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
Heater +	Black	Purple
Heater -	Black	White
Sensor +	Blue	Black
Sensor -	White	Grey

Wire function table:

	Heater +	Heater Ground	Sensor +	Sensor Ground
1 Wire	-	-	Y	Sensor casing
2 Wire	-	-	Y	Y
3 Wire	Y	Y	Y	Sensor casing
4 Wire	Y	Y	Y	Y

Titania 3- and 4-wire Lambda Sensors, every wire has in general a different colour. An exception is DENSO's Titania Sensors, which have two black wires and two grey wires.

TITANIA LAMBDA SENSORS

Wire colour table:

	Heater +	Heater Ground	Sensor +	Sensor Ground
DENSO	Black	Black	Gray	Gray
Brand 1	Red	White	Yellow	Black

Lambda Sensors | Fault analysis

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Your guide to common Lambda Sensor faults, their causes and solutions

To assess whether a Lambda Sensor is performing correctly, it is essential to conduct a full visual inspection as well as performance tests.

1. Check the connector and lead wire to ensure no damage has occurred. Damage of any kind will affect the Sensor signal.

2. Check the Sensor's protection sleeve for signs of damage that could indicate a dent or crack inside. It is important that the Sensor element is intact in order to work correctly.

3. Check that the connector is clean, intact and water-tight; and that there are no signs of grease, lubricants or chemicals on it. These can affect the Sensor's delicate output signals which are highly sensitive to contamination.

Normal

Appearance:
> Sensor is free of any residue, and is dull in colour.

Cause:
> Clean engine burning as a result of proper preventative engine maintenance.

Antifreeze contamination

Appearance:
> Excessive grainy white-grey colour, sometimes greenish deposits.

Cause:
> Contamination due to the presence of coolant fluid in the engine cylinders.

Solution:
> Check the engine coolant system, especially the head gasket, for leakage and repair if required.
> Replace the Sensor.

Oil contamination

Appearance:
> Excessive dark grey / black deposits.

Cause:
> Contamination due to excessive oil consumption.

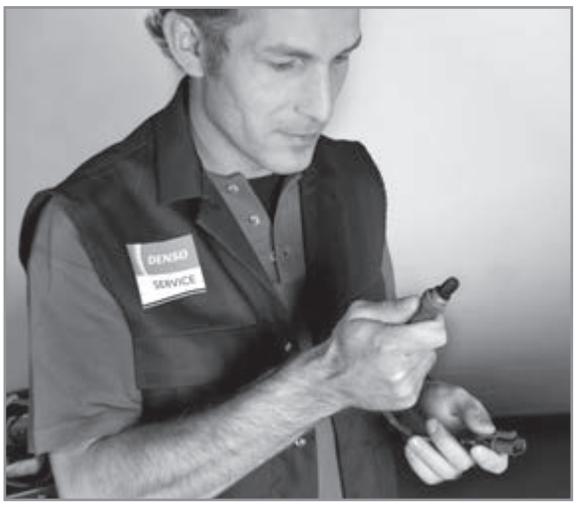
Solution:
> Check the engine for oil leakage or wear, and repair if required.
> Replace the Sensor.

Rich fuel contamination

Appearance:
> Excessive dark brown or black soot.

Cause:
> Contamination due to incorrect, rich, Air/fuel mixture. This can be caused by a damaged Sensor heater or a faulty fuel system.

Solution:
> Check the fuel system and measure exhaust gas.
> Check the Lambda Sensor heater control, and the Sensor heater, in case of a heated Sensor (3 or more wires).
> Repair the defect.
> Replace the Sensor.



Additive contamination

Appearance:
> Excessive red or white deposits.

Cause:
> Contamination due to use of excessive or harmful additives. Certain ingredients of fuel additives can contaminate the Sensor element. When burned in the engine, they cause fumes that will contaminate and/or clog the Sensor element.

Solution:
> Clean the engine and/or fuel system to remove the additives.
> Replace the Sensor.

Lead contamination

Appearance:
> Shiny, dark grey deposits.

Cause:
> Contamination due to use of leaded fuel.
> Lead attacks the Platinum which is present both on the Sensor element and in the catalyst.

Solution:
> Remove the leaded fuel from the vehicle, and refill with lead-free fuel.
> Replace the Sensor.

IMPORTANT: Follow-up check
In all cases, a contaminated Lambda Sensor must be replaced. After replacing the Sensor, however, it is also important to check the function of the Catalytic Converter. Contamination can also damage the Converter by reducing its capacity.

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Frequently Asked Questions answered by the DENSO technical team

Q1: What role do Lambda Sensors play?

A: In order to reduce emissions, modern cars have been designed to carefully control the amount of fuel they burn. The Lambda (or Oxygen) Sensor is a critical component in this process, Its goal is to work together with the car's fuel injection system, catalytic convertor and electronic control unit (ECU) (Fig. 1) to achieve the lowest possible output of environmentally harmful engine emissions.
The Lambda Sensor does this by monitoring the percentage of unburned oxygen present in the car's exhaust gases. This data is fed to the car's ECU, which adjusts the A/F (air/fuel) mixture. The correct air/fuel mixture enables the Catalytic Converter to run efficiently.
This 'exhaust gas cleaning system' removes as many of the harmful emissions as possible from the exhaust before it leaves the car.

Q2: Where are the Lambda Sensors positioned?

A: Every new car, and most cars manufactured since 1980, has a Lambda Sensor. It is positioned in the vehicle's exhaust pipe before the Catalytic Converter, where it measures the oxygen present in the exhaust gases and informs the ECU, enabling the ECU to calculate what adjustments are needed to the air/fuel mixture. The exact location of the Lambda Sensor varies according to whether the vehicle has a V-type or In-line type exhaust system, and depending on make and model. Some typical engine mounting configurations are shown in the LOCATION section of this catalogue.

Q3: How exactly do Lambda Sensors work?

A: Lambda Sensors work together with the vehicle's fuel injection system, Catalytic Converter and engine management system or electronic control unit (ECU) (Fig. 1) to help achieve the lowest possible output of environmentally harmful engine emissions:

> The Lambda Sensor monitors the percentage of unburned oxygen present in the car's exhaust gases.

> According to whether the oxygen content in the exhaust gas is too high (a lean mixture) or too low (a rich mixture) the Lambda Sensor transmits a fast-changing, fluctuating voltage signal to the ECU.

> The ECU responds to this information by adjusting the air/fuel mixture entering the Catalytic Converter. The goal is to keep the air/fuel ratio very close to the 'stoichiometric' point, which is the calculated ideal ratio of air to fuel entering the Catalytic Converter. Theoretically, at this ratio, all of the fuel will be burned using almost all of the oxygen in the air. The remaining oxygen must be exactly the right quantity for the Catalytic Converter to function efficiently.

> The Catalytic Converter then treats the exhaust emissions before they leave the car. Most modern cars are equipped with a three-way Catalytic Converter. 'Three-way' refers to the three regulated (harmful) emissions it helps to reduce - Carbon Monoxide (CO), unburnt Hydrocarbons (HC), and Nitrogen Oxide (Nox) molecules. The exact amount of oxygen in the exhaust gasses is important to the Catalytic Converter because it affects how well it is able to remove these harmful emissions from the exhaust gases. The right amount of oxygen enables a chemical reaction to take place between the harmful gases and the oxygen, resulting in harmless gases leaving the Catalytic Converter.
If the converter is working correctly, all the oxygen in the exhaust gases will be consumed by this chemical reaction.

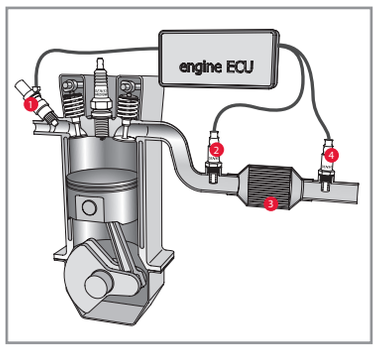

Fig. 1: Engine with Sensors and Catalytic Converter.

1. Fuel Injector
2. Pre Cat Lambda Sensor
3. Catalytic Converter
4. Post Cat Lambda Sensor

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Q4: How is the air/fuel mixture adjusted?

A: When the Lambda Sensor detects the level of oxygen contained in the exhaust gas, the ECU receives the Sensor's output signal and decides whether the mixture has an appropriate air/fuel ratio. The amount of fuel injected is adjusted by means of 'injection time feedback compensation control'. When the mixture is found to be too rich, fuel injection is decreased. When the mixture is found to be too lean, fuel injection volume is increased (Fig. 2). The objective is to achieve the ideal air/fuel ratio going into the engine (the 'stoichiometric' point).

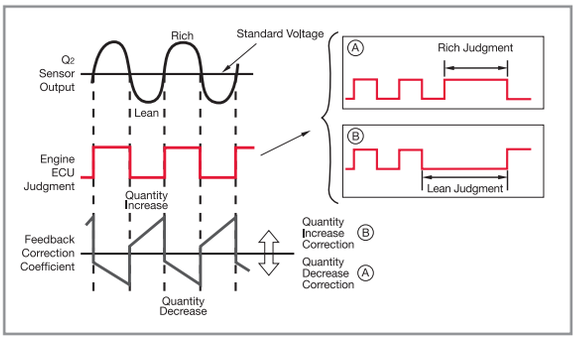


Fig. 2: The Lambda Sensor output signal monitors the air/fuel ratio, instructing the ECU how to adjust the fuel injection rate.

Q5: What is the ideal 'stoichiometric ratio'?

A: For petrol, the stoichiometric, or 'purification' ratio is about 14.7 to 1 (this is equal to Lambda 1.00), meaning that for each pound of fuel, 14.7 pounds of air will be burned (Fig. 3). The fuel mixture varies from the ideal ratio quite a bit during driving, which is the reason why it must be monitored and adjusted. Sometimes the mixture can be 'lean' (an air-to-fuel ratio higher than 14.7); and other times the mixture can be 'rich'.

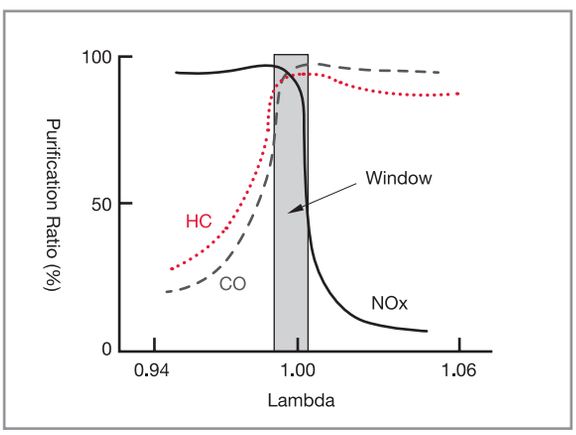


Fig. 3: Purification ratio of Catalytic Converter.

Q6: Why do some vehicles feature more than one Lambda Sensor?

A: Many recently produced vehicles feature a second Lambda Sensor mounted after the Catalytic Converter (post-cat Lambda Sensor), as well as a Lambda Sensor placed before it (pre-cat Lambda Sensor). The pre-cat Lambda Sensor is the control Sensor, assisting the engine ECU to control the air/fuel ratio. The 'rear', post-cat Lambda Sensor is the monitor Sensor, monitoring the function of the Catalytic Converter.

Q7: How does the second Lambda Sensor analyse the efficiency of the Catalytic Converter?

A: The post-cat Lambda Sensor monitors the function of the Catalytic Converter by measuring the oxygen level in the exhaust gas that leaves the Catalytic Converter. If the Sensor gives a high voltage reading (Fig. 4), the Catalytic Converter is working effectively. This is because if the converter is working correctly, all the oxygen in the exhaust gases will be consumed by the chemical reaction taking place inside between the oxygen and the harmful emissions. As the Catalytic Converter wears down, however, some of the harmful gases and oxygen will not be included in the chemical reaction and will exit the Converter unchanged. The oxygen readings shown by the post-cat Sensor will therefore increasingly mirror the signal of the pre-cat Sensor, until both show the same signal (Fig. 5). This indicates failure of the Catalytic Converter.

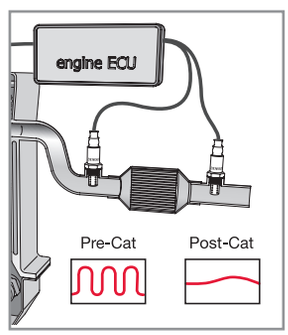


Fig. 4: Output from fully functional Catalytic Converter.

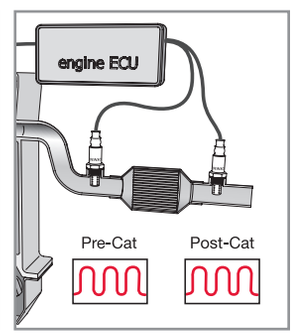


Fig. 5: Output from a failing Catalytic Converter.

Q8: Why have A/F (air/fuel) Sensors been developed?

A: A/F Sensor technology was a world-first innovation that was developed by DENSO, offering a sensor with a linear output that helps vehicles to meet the tightening emission regulations from EURO 3 onwards. This new system uses the air/fuel ratio sensor (A/F Sensor), replacing the conventional Lambda Sensor.

GB

Q9: What is the difference between Zirconia Lambda Sensors and A/F Sensors?

A: In general A/F Sensors are more sensitive and efficient than conventional Zirconia Lambda Sensors. This is because of the way each type of Sensor measures the air/fuel ratio, and the different output signals they produce to indicate the result:

Air/fuel ratio

> A **Zirconia Sensor** indicates whether the air/fuel ratio is either above or below Lambda 1.00. The engine ECU alters the fuel quantity step by step until the Sensor indicates that the mixture is wrong again. At this point the ECU starts correcting again, step by step in the other direction. This method results in a relatively slow and constant ongoing correction around Lambda 1.00, never able to exactly maintain Lambda 1.00.

> An **A/F Sensor** indicates the exact air/fuel ratio value. This means that the engine ECU knows how far off the air/fuel ratio is from Lambda 1.00, and therefore also knows how much it needs to correct the fuel injection. This allows the engine ECU to correct the injected fuel quantity to achieve, and maintain Lambda 1.00 almost immediately.

Output Signal

> A **Zirconia Sensor** outputs a small voltage between 0V and approx 0,8V, switching from low to high at around Lambda 1.00 (Fig. 6).

> An **A/F Sensor** outputs a small current between -10mA and +10mA, where the output is a stable value, proportional to the air/fuel ratio (Fig. 7).

Overall, especially in changing conditions (sudden accelerations or decelerations) systems with a Zirconia Sensor will have an under- or overshoot in fuel, resulting in a less efficient Catalytic Converter.

With an A/F Sensor, the engine ECU will notice fractional changes in air/fuel ratio even in changing conditions. The ECU is therefore able to make precise adjustments, considerably reducing any under- or overshoot in fuel. This results in optimal gas conversion inside the Catalytic Converter, resulting in cleaner air, lower fuel consumption and better driveability.

Q10: What happens if the Lambda Sensor fails?

A: If the Lambda Sensor fails, the ECU can no longer sense the air/fuel ratio, so has to 'guess' the amount of fuel to inject. This will cause a less efficient use of fuel, and therefore a higher fuel consumption. It can also cause the Catalytic Converter to function less efficiently, potentially emitting higher levels of harmful emissions.

Q11: How often should Lambda Sensors be replaced?

A: DENSO recommends changing them as often as specified by the vehicle manufacturer. But Lambda Sensors should also be checked for functioning and efficiency at every vehicle check-up - an engine that's old or showing signs of excessive oil consumption will need the Sensors changed at shorter intervals than specified.

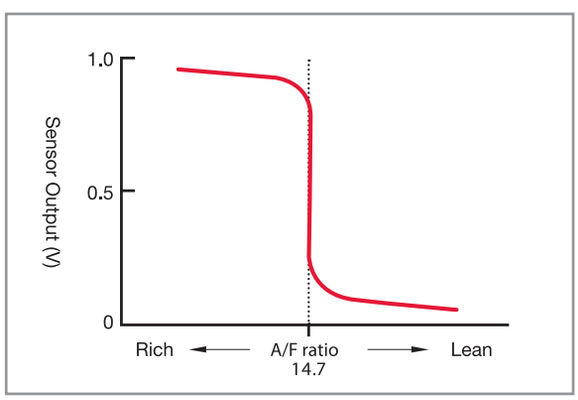


Fig. 6: Zirconia Sensor Output.

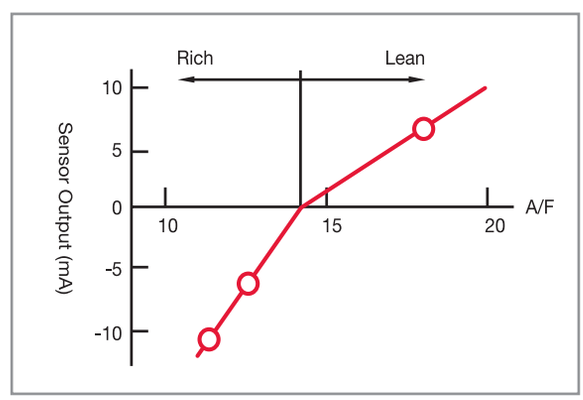


Fig. 7: A/F Sensor Output.

D

Der DENSO-Unterschied

Mit Präzision entwickelt. Nach striktesten OEM-Normen hergestellt. Durch strengste Sicherheits- und Leistungstests geprüft. Das sind die außergewöhnlichen Standards hinter den Lambdasonden von DENSO – ein herausragendes Aftermarket-Sortiment beheizter und unbeheizter Sondenkonfigurationen, die jeweils garantiert und ohne Ausnahme perfekt auf das Fahrzeug abgestimmt sind.

Warum DENSO? Als einer der führenden Entwickler und Hersteller von Fahrzeugsystemen und -teilen für Erstausrüster versteht DENSO die Lambdasondentechnik besser als alle anderen. Und das ist nicht nur unsere eigene Meinung – führende Fahrzeughersteller stimmen uns zu! DENSO-Lambdasonden werden als Teil der Erstausrüstung in Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall und viele andere Fahrzeuge eingebaut.
Seit wir die Lambdasonden 1977 in unser Produktionsprogramm aufnahmen, haben schon Hunderte von Millionen von DENSO-Lambdasonden weltweit gute Arbeit geleistet bei der Messung des Sauerstoffgehalts von Fahrzeugemissionen. Das macht uns zu einem der führenden Lambdasondenhersteller der Welt.

Diese hochmoderne Technik, Erstausrüsterqualität und überragende Leistung ist jetzt in unserem DENSO-Lambdasondensortiment auch für Aftermarket-Kunden erhältlich. Unser unübertroffenes Know- how kommt in jeder von uns hergestellten Lambdasonde zur Geltung.

Wenn Sie eine Ersatz-Lambdasonde brauchen, dann steht deshalb eigentlich nur ein Name zur Wahl: DENSO.

Jede DENSO-Lambdasonde wird auf 100-prozentige Qualität geprüft, einschl. Hochtemperatursignalausgabe, Luftdichtheit, Durchgang und Heizungswiderstand.

Die Technologien, die Sie brauchen

Lambdasondenarten

Wie man erwarten würde, sind DENSO-Lambdasonden in einer breit gefächerten Palette von Anwendungen erhältlich. Sie alle bieten die fortschrittlichen Technologien, die Sie brauchen, um genau die richtige Ersatzsonde in Erstausrüsterqualität für Ihre Kunden zu finden:

> Zirkonium-Lambdasonden — Finger- und Planarsonden
> A/F-Lambdasonden — Finger- und Planarsonden
> Titanium-Lambdasonden

**Nähere Angaben über die Funktionsweise und einen Vergleich von Zirkonium- und A/F-Lambdasonden finden Sie im Kapitel Lambdasonden – Fragen & Antworten dieses Katalogs*

Sondengehäuse

DENSO-Lambdasonden sind in zwei Gehäuseversionen in Erstausrüsterqualität erhältlich. Und bei Lambdasonden von DENSO ist das ein komplettes Gehäuse. Es werden keine Zusatzteile wie Flanschanschlüsse benötigt!

> Einschraubgehäuse
> Flanschgehäuse – einschließlich Flanschdichtung in Erstausrüsterqualität

Sondeneinbau

DENSO bietet seine Lambdasonden in zwei Einbauversionen an, damit Sie jedesmal den richtigen Anschluss herstellen können:

> Direkteinbau-Lambdasonden – einbaufertig, mit angebrachtem OEM-Stecker
> Universaleinbau-Lambdasonden – ohne Stecker, damit Sie den Stecker der alten Sonde wiederverwenden (und wiederverwerten!) können.

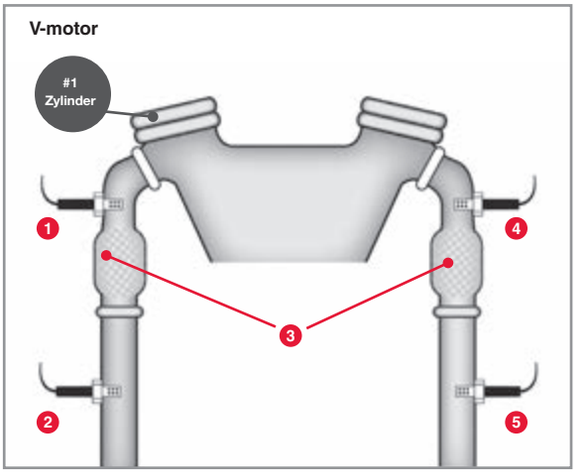
Kontrolle und Wechseln von Lambdasonden

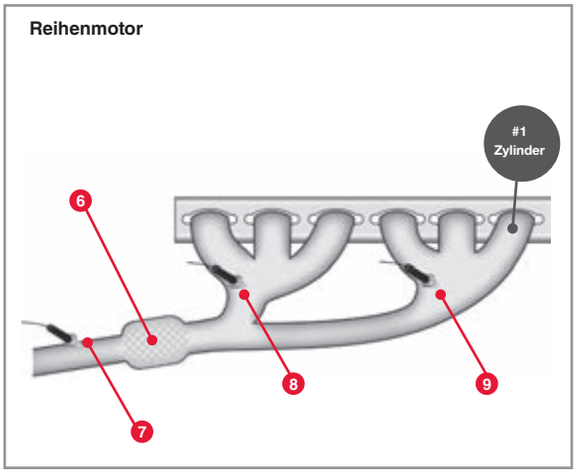
> **Wie oft sollten Lambdasonden ersetzt werden?**
DENSO empfiehlt, dass Lambdasonden in den vom Fahrzeughersteller empfohlenen Intervallen ausgetauscht werden. Lambdasonden müssen aber auch bei jeder Fahrzeuginspektion bzw. AU auf einwandfreien und effizienten Betrieb überpüft werden. Bei alten Motoren oder Motoren, die mehr Öl verbrauchen, muss die Sonde häufiger gewechselt werden als vorgeschrieben.

> **Warum müssen Lambdasonden ersetzt werden?**
Der Ausfall einer Lambdasonde, sei es auf Grund normaler Alterung, der Verwendung von verbleitem Kraftstoff oder von Verunreinigung, kann zu einer Beschädigung des Katalysators führen und kostspielige Reparaturen erforderlich machen. Ausgefallene Lambdasonden verursachen höhere Emissionen einen höheren Kraftstoffverbrauch und eine herabgesetzte Fahrzeugleistung, z.B. schlechte Beschleunigung, Abwürgen und Leerlaufprobleme.

D

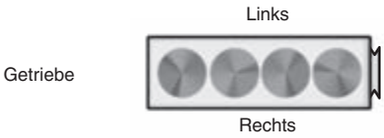
Einbauort von Lambdasonden in der Abgasanlage





1. Regelsonde
2. Monitorsonde
3. Katalysator
4. Regelsonde
5. Monitorsonde

6. Katalysator
7. Monitorsonde
8. Regelsonde
9. Regelsonde



Die linke und rechte Seite des Motorblocks wird bei DENSO vom Getriebe zur Kurbelwellenscheibe blickend bestimmt.

Achtung!
Die obigen Abbildungen stellen typische Motor-einbaukonfi gurationen dar. Die Einbaulage kann je nach Marke und Modell verschieden sein. Beziehen Sie sich für die Wahl der richtigen DENSO-Lambda-sonde für einen bestimmten Einbauort bitte auf die umfassende Anwendungsliste in diesem Katalog.

D

Direkteinbau-Lambdasonden

Mitgelieferte Teile

Lambdasonde, Heißschrauben-Compound (Kupferpaste).

Benötigte Werkzeuge

1. Gewindeschneider zur Gewindereinigung *(Größe M18x1,5, für die meisten Sonden).*
2. Drehmomentschlüssel mit geeignetem Lambdasonden-Steckeinsatz *(Größe 22, für die meisten Sonden).*

Vorgehensweise für den Sondeneinbau

1. Das Gewinde im Auspuffrohr, falls erforderlich mit einem Gewindeschneider reinigen.
2. Ein wenig von dem mitgelieferten Heißschrauben-Compound 'Copper + Plus' auf das Sondengewinde auftragen

SONDENNASE NICHT FETTEN! Heißschrauben-Compound nur auf das Sondengewinde auftragen.

3. Die Sonde mit einem Drehmomentschlüssel mit einem geeigneten Lambdasonden-Steckeinsatz auf den vorgeschriebenen Wert festziehen. Darauf achten, dass die Kabel nicht beschädigt werden!

Universaleinbau-Lambdasonden (Stecker-Wiederverwendung)

Mitgelieferte Teile

Lambdasonde, Heißschrauben-Compound (Kupferfett), Stecker, Stoßverbinder mit Schrumpfisolierung.

Benötigte Werkzeuge

1. Drahtzange.
2. Abisolierzange.
3. Crimpzange mit Ratschenfunktion, mit roter Backentasche, für isolierte Anschlüsse.
4. Heißluftpistole.
5. Gewindenachschneider zur Gewindereinigung (Größe M18x1,5, für die meisten Sonden).
6. Drehmomentschlüssel mit geeignetem Lambdasonden-Steckeinsatz (Größe 22, für die meisten Sonden).

Vorgehensweise für den Sondeneinbau

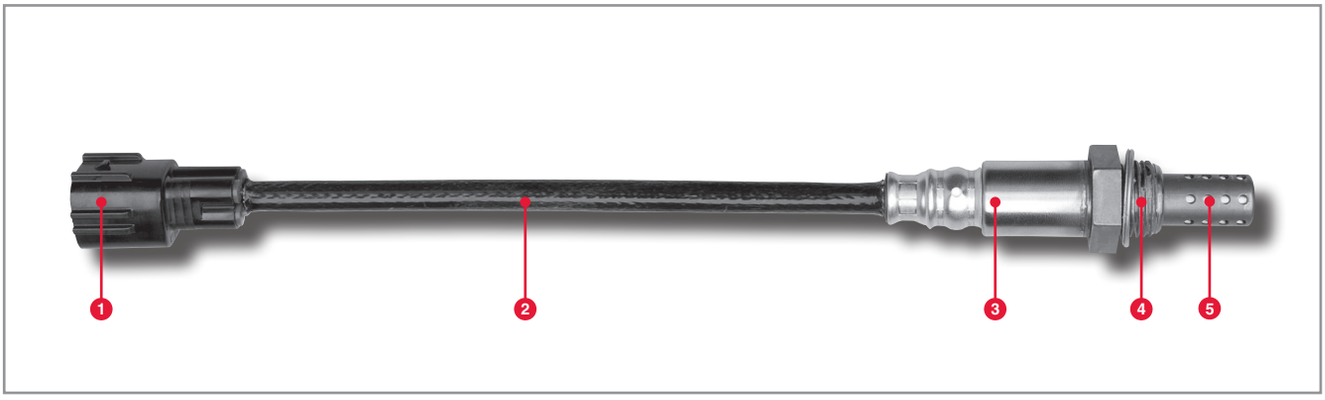
1. Die Kabel der neuen Sonde auf die richtige Länge zuschneiden. WICHTIG: Die neue Sonde mit dem alten Stecker muss genauso lang sein wie ursprünglich die alte Sonde mit dem Stecker.
2. Die alten Sondenkabel auf die richtige Länge zuschneiden.
3. Die Kabelenden 7 mm weit abisolieren.
4. Die Stoßverbinder mit einer Crimpzange mit Ratschenfunktion und roter Crimpbackentasche (Größe 22 – 16) crimpen.
5. Die Isolierung der Stoßverbindungen mit Heißluft aufschrumpfen, bis die Verbindungen versiegelt sind.
6. Gegebenenfalls das Gewinde im Auspuffrohr mit einem Nachschneider zur Gewindereinigung reinigen.
7. Ein wenig von dem mitgelieferten Heißschrauben- Compound 'Copper + Plus' auf das Sondengewinde auftragen.

SONDENNASE NICHT FETTEN! Heißschrauben-Compound nur auf das Sondengewinde auftragen.

8. Die Sonde mit einem Drehmomentschlüssel mit einem geeigneten Lambdasonden-Steckeinsatz auf den vorgeschriebenen Wert festziehen. Darauf achten, dass die Kabel nicht beschädigt werden!

D

Richtige Handhabung und Verwendung von Lambdasonden



1. Stecker

Trocken und sauber halten:

> Kein Schmierfett oder Kontaktspray irgendeiner Art verwenden.
> Feuchtigkeit und sonstige Fremdstoffe beeinflussen die Lambdasonde.

2. Kabel

Hitze vermeiden:

> Vom Auspuffrohr und anderen heißen Fahrzeugteilen fernhalten.

Belastungen vermeiden:

> Von bewegten Teilen fernhalten.
> Kabelzugspannung vermeiden.
> Lange frei hängende Kabel vermeiden, sie könnten zu schwingen beginnen oder sich sogar an anderen Teilen oder Gegenständen verfangen.

3. Sondenkörper

Sauber halten:

> Das hintere Ende der Lambdasonde enthält Löcher, die in Verbindung mit der Umgebungsluft einen Referenzwert bilden. Diese Löcher müssen offen bleiben, damit die Sonde funktionieren kann.
> Der Sondenkörper ist vor Schmutz und plötzlichem Bespritzen mit kaltem Wasser zu schützen.
> Die Sonde nicht mit Hochdruck-Wasserstrahl besprühen.
> Die Sonde von allen Beschichtungen jeder Art freihalten.

4. Sondengewinde

Gewinde schmieren:

> Das Gewinde vor dem Einschrauben der Sonde mit dem mitgelieferten Heißschrauben-Compound (Kupferfett) schmieren.

5. Sondennase

Stöße vermeiden:

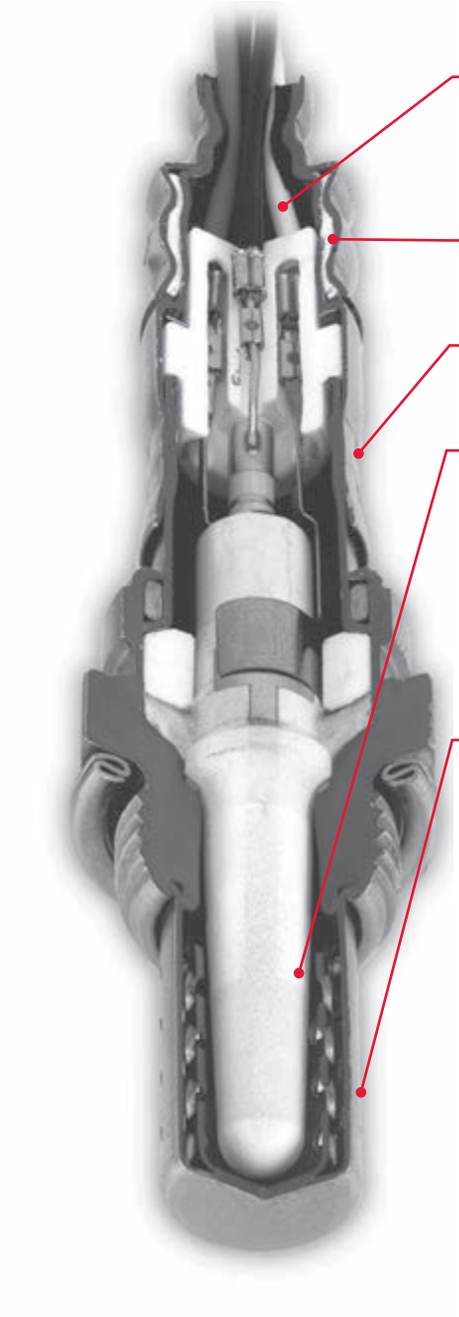
> Scharfe Stöße gegen die Sondennase vermeiden, um eine Beschädigung des empfindlichen Keramikelements in ihr zu verhindern.

Verunreinigung vermeiden:

> Verunreinigungen jeder Art vermeiden. Die Sondennase deshalb von Fremdstoffen freihalten.
> Nichts auf die Sondennase sprühen.
> Kein Schmierfett auf die Sondennase bringen.
> Keinen bleihaltigen Kraftstoff verwenden.
> Verwendung von Kraftstoffzusätzen vermeiden.

D

Das Konzept für überlegene Lambdasondentechnik



Die überlegene Konstruktion der Lambdasonden von DENSO optimiert Motorleistung und Kraftstoffverbrauch und reduziert gleichzeitig die Schadstoffemissionen.

> **Adern mit Stahlkern:** DENSO-Lambdasonden sind mit Spezialadern bestückt, die für die ungünstigen Hitze- und Schwingungsverhältnisse ausgelegt sind. Die Teflon-isolierten Kabel haben für zusätzliche Festigkeit einen Kern aus Edelstahllitzen, der zwecks guter Leitfähigkeit und geringen Widerstands mit nickelbeschichteten Kupferkabeln umgeben ist.

> **Poröses PTFE-Filter:** Lässt Luftsauerstoff in die Sonde einströmen, verhindert aber, dass Wasser oder Schmutzstoffe aus dem Motor in das Sondengehäuse eindringen können.

> **Edelstahlgehäuse:** Robuster, wasserdichter Körper, beständig gegenüber Korrosion und Verunreinigung.

> **Doppelte Aluminiumoxid-Schutzschicht:** DENSO-Lambdasonden weisen eine einzigartige Schutzbeschichtung aus Aluminiumoxid auf dem Keramikelement auf. Mithilfe dieser Schutzschicht wird gewährleistet, dass die Sonde präzise Messungen durchführt und eine lange Standzeit hat. Die Beschichtung trägt dazu bei, Verunreinigungen aus den Abgasen herauszufiltern, so dass unerwünschte Schmutzstoffe vom Keramikelement ferngehalten werden und eine verfrühte Verstopfung des Sondenelements und/oder eine Beschädigung der Platinelektrode verhindert wird (was besonders mit minderwertigem Kraftstoff betriebenen Fahrzeugen zugute kommt). Die Aluminiumoxid-Schutzschicht trägt somit aktiv zu optimalen Emissionswerten, optimalem Kraftstoffverbrauch, optimaler Motorleistung und maximalem Schutz vor Motorschäden bei.

> **Doppelwandiges Schutzrohr** (an allen Lambdasonden): Sorgt für Erhaltung der richtigen Sondentemperatur für schnelleres Ansprechen und schützt das Keramikelement vor Silikon- und Bleivergiftung.

Die Lösung für das Problem einer minderwertigen Kraftstoffqualität

Minderwertiger oder verschmutzter Kraftstoff kann die Standzeit und Leistung einer Lambdasonde beeinträchtigen – DENSO-Sonden bieten aber eine Lösung für dieses Problem.

Wodurch wird das Problem verursacht? Kraftstoff kann durch Motorölzusätze wie Detergens-Dispersant-Zusätze oder Schmierstoffe, Benzinzusätze, Dichtungsmasse an Motorteilen und Rohölablagerungen nach der Entschwefelung verunreinigt werden. Verunreinigter Kraftstoff kann bei Erhitzung über 700 Grad Celsius giftige Dämpfe freisetzen, die wiederum die Elektroden der Lambdasonde verstopfen oder vergiften. Derartige Schäden sind eine häufige Ursache für den vorzeitigen Ausfall von Lambdasonden.

Die hochentwickelte Konstruktion von DENSO-Lambdasonden schließt dieses Risiko aus. Die einzigartige doppelte Aluminiumoxid-Schutzschicht, die das Keramikelement der Sonde umgibt, schützt sie vor problematischem Kraftstoff. Die erwartete Nutzlebensdauer und effiziente Leistung der Sonde bleiben dadurch erhalten.

D

Identifizierung der Lambdasonden-Typen anhand der Kabelfarben

Lambdasonden jeder Marke sind anhand ihrer Kabelfarben leicht erkennbar. Die einfache Tabelle unten hilft Ihnen, die richtige DENSO-Ersatzsonde zu finden.

In 3- and 4-adrigen Titanium-Lambdasonden hat jedes Kabel generell eine andere Farbe. Eine Ausnahme bilden die Titanium-Lambdasonden von DENSO, die zwei schwarze und zwei graue Kabel haben.

ZIRKONIUM-LAMBDASONDEN

Kabelfarbentabelle:

	OE Lambda-sonde Nr. 1	OE Lambda-sonde Nr. 2	OE Lambda-sonde Nr. 3	OE Lambda-sonde Nr. 4	OE Lambda-sonde Nr. 5
Heizung +	schwarz	violett	weiß	braun	schwarz
Masse Heizung	schwarz	weiß	weiß	braun	schwarz
Sonde +	blau	schwarz	schwarz	violett	grün
Masse sonde	weiß	grau	grau	beige	weiß

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
Heizung +	schwarz	violett
Masse Heizung	schwarz	weiß
Sonde +	blau	schwarz
Masse sonde	weiß	grau

Kabelbelegungstabelle:

	Heizung +	Masse Heizung	Sonde +	Masse Sonde
1 Kabel	-	-	Y	Sondengehäuse
2 Kabel	-	-	Y	Y
3 Kabel	Y	Y	Y	Sondengehäuse
4 Kabel	Y	Y	Y	Y

TITANIU M-LAMBDASONDEN

Kabelfarbentabelle:

	Heizung +	Masse Heizung	Sonde +	Masse Sonde
DENSO	Schwarz	Schwarz	Grau	Grau
Marke 1	Rot	Weiß	Gelb	Schwarz

D

Ihr Leitfaden zu Lambdasonden-Fehlern, ihren Ursachen und Lösungen

Zur Beurteilung, ob eine Lambdasonde einwandfrei funktioniert, sind im Wesentlichen eine umfassende Sichtkontrolle sowie Leistungsprüfungen erforderlich.

1. Sicherstellen, dass Stecker und Anschlusskabel nicht beschädigt sind. Eine Beschädigung jeder Art beeinträchtigt das Sondensignal.

2. Das Schutzrohr der Sonde auf Anzeichen von Beschädigung untersuchen, die auf eine Einbeulung oder einen Riss im Inneren schließen lassen. Das Sondenelement muss unversehrt sein, um einwandfrei zu funktionieren.

3. Sicherstellen, dass der Stecker sauber, unversehrt und wasserdicht ist und keine Fett-, Schmierstoff- oder Chemikalienrückstände aufweist, die die gegenüber derartigen Verunreinigungen äußerst empfindlichen Ausgangssignale der Sonde beeinträchtigen können.

Normal

Aussehen:
> Sonde weist keine Verunreinigungen auf und hat eine matte Farbe.

Ursache:
> Saubere Verbrennung infolge der richtigen vorbeugenden Motorwartung.

Verunreinigung durch Frostschutzmittel

Aussehen:
> Starke körnige weißgraue Farbe, manchmal grünliche Ablagerungen.

Ursache:
> Verunreinigung auf Grund von Kühlmittel in den Motorzylindern.

Lösung:
> Die Motorkühlanlage auf Dichtheit prüfen, besonders die Zylinderkopfdichtung. Falls erforderlich diese erneuern.
> Lambdasonde austauschen.

Verunreinigung durch Öl

Aussehen:
> Starke dunkelgraue/schwarze Ablagerungen.

Ursache:
> Verunreinigung auf Grund von übermäßigem Ölverbrauch.

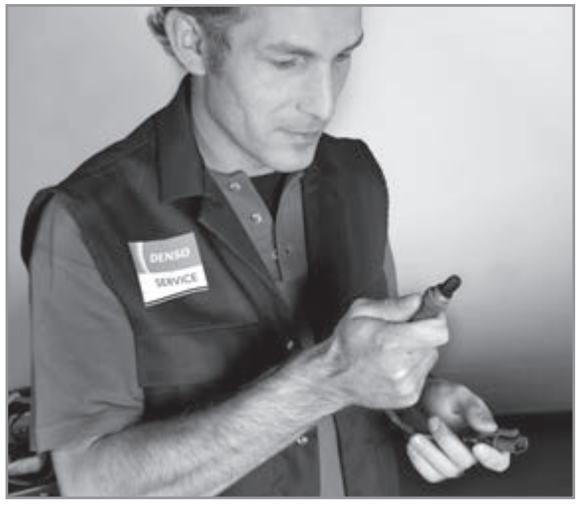
Lösung:
> Motor auf Ölleck oder Verschleiß untersuchen und bei Bedarf instand setzen.
> Lambdasonde austauschen.

Verunreinigung durch fettes Gemisch

Aussehen:
> Starke dunkelbraune oder schwarze Verrußung.

Ursache:
> Verunreinigungen auf Grund eines falschen oder zu fetten Kraftstoff- Luft -Gemisches kann zu einer Beschädigung der Sondenheizung führen.

Lösung:
> Kraftstoffanlage überprüfen und durchfuhren.
> Bei beheizter Lambdasonde (3 oder mehr Adern) die Regelung der Lambdasondenheizung und diese selbst kontrollieren.
> Defekt reparieren.
> Lambdasonde austauschen.



Verunreinigung durch Zusatzstoffe

Aussehen:
> Starke rote oder weiße Verunreinigungen.

Ursache:
> Verunreinigung auf Grund überhöhter oder schädlicher Zusätze. Gewisse Bestandteile von Kraftstoffzusätzen können das Sondenelement verunreinigen. Bei der Verbrennung im Motor verursachen sie Dämpfe, die das Sondenelement verunreinigen und/oder verstopfen.

Lösung:
> Motor und/oder Kraftstoffanlage reinigen, um die Zusatzstoffe zu entfernen.
> Lambdasonde austauschen.

Verunreinigung mit Blei

Aussehen:
> Glänzende dunkelgraue Ablagerungen.

Ursache:
> Verunreinigung auf Grund der Verwendung von bleihaltigem Kraftstoff.
> Blei greift das Platin an, das sowohl am Sondenelement als auch im Katalysator zu finden ist.

Lösung:
> Bleihaltigen Kraftstoff aus dem Fahrzeug entfernen und alle Komponenten.
> Spülen oder erneuern.
> Lambdasonde austauschen.

WICHTIG: Nachkontrolle

Eine verunreinigte Lambdasonde muss in jedem Fall ausgetauscht werden. Nach einem Sondenwechsel muss aber auch die Funktion des Katalysators überprüft werden, da Verunreinigungen auch den Katalysator beschädigen können, indem sie seine Kapazität reduzieren.

D

Das technische Team von DENSO beantwortet häufig gestellte Fragen

F1: Welche Aufgabe haben Lambdasonden?

A: Die modernen Fahrzeuge sind zur Verringerung der Schadstoffemissionen so ausgelegt, dass die von ihnen verbrannte Kraftstoffmenge sorgfältig geregelt wird. Die Lambdasonde (auch Sauerstoffsensor genannt) ist eine wesentliche Komponente dieses Prozesses. Sie soll mit der Einspritzanlage des Fahrzeugs, dem Katalysator und dem elektronischen Steuergerät (ECU) zusammenarbeiten, damit ein Mindestmaß an umweltbelastenden Emissionen des Motors erreicht wird. Die Lambdasonde überwacht zu diesem Zweck den Anteil von unverbranntem Sauerstoff im Abgas. Diese Werte werden in das ECU des Fahrzeugs eingespeist, das das Kraftstoff- Luft-Gemisch entsprechend anpasst. Das richtige Kraftstoff- Luft-Gemisch ermöglicht den effizienten Betrieb des Katalysators. Dieses Abgasreinigungssystem entfernt möglichst viele der Schadstoffe aus dem Abgas, bevor es das Fahrzeug verlässt.

F2: An welchen Stellen sind die Lambdasonden eingebaut?

A: Jeder Neuwagen und die meisten Autos seit Baujahr 1980 haben eine Lambdasonde. Sie befindet sich im Auspuffrohr vor dem Katalysator, wo sie den Sauerstoffgehalt der Abgase misst und das ECU entsprechend informiert. Das ECU berechnet dann die erforderliche Anpassung des Kraftstoff- Luft-Gemisches. Die genaue Einbauposition der Lambdasonde ist verschieden, je nachdem, ob das betreffende Fahrzeug eine Abgasanlage in V- oder Reihenmotorausführung hat, und je nach Marke und Modell. Einige typischen Motorkonfigurationen sind im Kapitel EINBAUORT dieses Katalogs zu finden.

F3: Wie funktioniert eine Lambdasonde?

A: Lambdasonden arbeiten mit der Einspritzanlage, dem Katalysator und dem Motormanagementsystem bzw. dem elektronischen Steuergerät (ECU) (Abb. 1) des Fahrzeugs zusammen, um dazu beizutragen, möglichst geringe Mengen an umweltbelastenden Motoremissionen zu erreichen:

> Die Lambdasonde überwacht den Restsauerstoffgehalt der Abgase des Autos

> Je nachdem, ob der Sauerstoffgehalt des Abgases zu hoch (mageres Gemisch) oder zu niedrig (fettes Gemisch) ist, sendet die Lambdasonde ein sprunghaft wechselndes, schwankendes Spannungssignal an das ECU.

> Das ECU spricht auf diese Daten an, indem es das in den Katalysator einströmende Kraftstoff- Luft-Gemisch entsprechend anpasst. Das Ziel dieser Regelung ist es, das Kraftstoff- Luft-Verhältnis sehr nahe am stöchiometrischen Verhältnis zu halten, dem berechneten optimalen Verhältnis von angesaugter Luftmenge/masse und exakt bemessener Kraftstoffzuteilung. Theoretisch wird bei diesem Gemischverhältnis sämtlicher Kraftstoff unter Verwendung fast des gesamten Sauerstoffs der Luft verbrannt. Der Restsauerstoff muss genau in der richtigen Menge vorliegen, wenn der Katalysator effizient funktionieren soll.

> Der Katalysator reinigt Abgasemissionen, bevor sie das Fahrzeug verlassen. Die meisten modernen Autos sind mit einem Drei-Wege-Katalysator ausgerüstet. Drei-Wege bezieht sich auf die drei regulierten (schädlichen) Emissionen, zu deren Reduktion er beiträgt – Kohlenmonoxid- (CO), unverbrannte Kohlenwasserstoff- (HC) und Stickstoffoxid- (NOx) Moleküle. Die genaue Restsauerstoffmenge in den Abgasen ist für den Katalysator deshalb von Bedeutung, weil sie beeinflusst, wie gut der Katalysator diese Schadstoffemissionen aus den Abgasen entfernen kann. Die richtige Sauerstoffmenge ermöglicht eine chemische Reaktion zwischen den schädlichen Gasen und dem Sauerstoff, was dazu führt, dass die Abgase, die den Katalysator verlassen, unschädlich sind. Wenn der Katalysator ordnungsgemäß funktioniert, verbraucht diese chemische Reaktion sämtlichen Sauerstoff in den Abgasen.

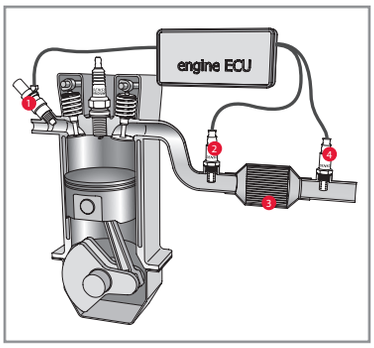


Abb. 1: Motor mit Lambdasonden und Katalysator.

1. Einspritzdüse
2. Regelsonde
3. Katalysator
4. Monitorsonde

D

F4: Wie wird das Luft-Kraftstoff-Gemisch angepasst?

A: Wenn die Lambdasonde den Sauerstoffgehalt im Abgas bemisst, wird das Ausgangssignal der Sonde an das ECU übermittelt, das ECU errechnet dann, ob das Gemisch ein angemessenes Kraftstoff- Luft-Verhältnis hat. Die Kraftstoffmenge wird durch Einspritzzeitpunkt-Rückkopplungsausgleichregelung angepasst. Wird festgestellt, dass das Gemisch zu fett ist, wird die eingespritzte Kraftstoffmenge verringert. Bei einem zu mageren Gemisch wird das Einspritzvolumen vergrößert (Abb. 2). Ziel ist es, das optimale Kraftstoff- Luft-Gemisch zur Einspeisung in den Motor zu erreichen (das stöchiometrische Verhältnis).

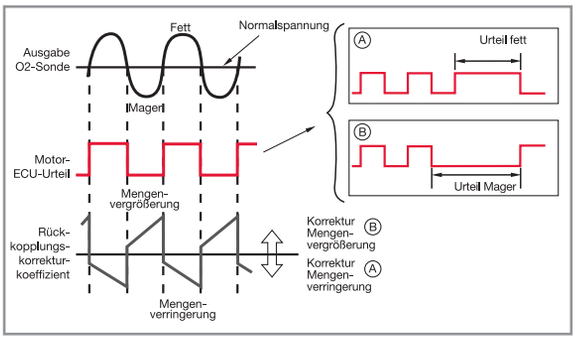


Abb. 2: Das Ausgangssignal der Lambdasonde übermittelt den Istzustand des Gemischverhältnisses, das ECU passt dementsprechend Einspritzmenge und Zündzeitpunkt dem Gemischverhältniss an um den Fixpunkt Lambda 1 zu ereichen.

F5: Was ist das optimale stöchiometrische Verhältnis?

A: Bei Benzinmotoren beträgt das stöchiometrische Verhältnis oder Verbrennungsluftverhältnis (Massenverhältnis) etwa 14,7 zu 1 (entspricht Lambda = 1,00), d.h. zur vollständigen Verbrennung von einem Kilogramm Kraftstoff werden 14,7 kg Luft benötigt (Abb. 3). Während der Fahrt weicht das Kraftstoffgemisch oft vom idealen Verhältnis ab, weshalb es überwacht und angepasst werden muss. Das Gemisch kann manchmal mager (Verbrennungsluftverhältnis höher als 14,7) und dann wieder fett sein.

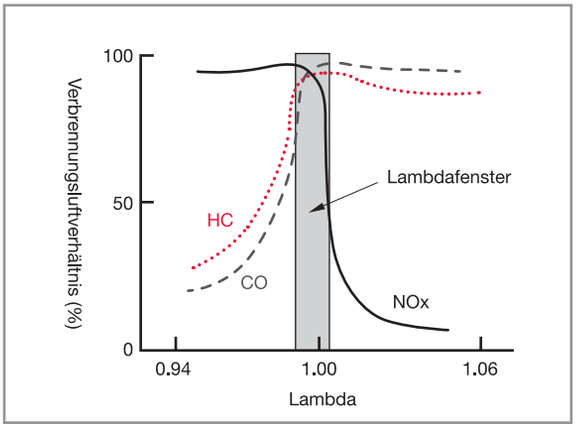


Abb. 3: Verbrennungsluftverhältnis des Katalysators.

F6: Warum haben manche Fahrzeuge mehr als eine Lambdasonde?

A: Viele neuere Fahrzeugen haben eine zweite Lambdasonde, die hinter dem Katalysator eingebaut ist, sowie eine vor dem Katalysator eingebaute Lambdasonde. Die Lambdasonde vor dem Katalysator ist die Regelsonde, die das Motor-ECU bei der Regelung des Kraftstoff- Luft-Verhältnisses unterstützt. Die nach dem Katalysator eingebaute hintere Lambdasonde ist die Monitorsonde. Sie überwacht die Funktionsweise des Katalysators.

F7: Wie analysiert die zweite Lambdasonde die Effizienz des Katalysators?

A: Die Monitorsonde überwacht die Funktion des Katalysators, indem sie den Sauerstoffgehalt im den Katalysator verlassenden Abgas misst. Wenn die Sonde einen hohen Spannungswert (Abb. 4) abgibt, funktioniert der Katalysator effizient. Weil der Katalysator richtig funktioniert, wird sämtlicher Sauerstoff in den Abgasen durch die chemische Reaktion, die im Inneren des Katalysators zwischen Sauerstoff und schädlichen Emissionen stattfindet, verbraucht. Mit zunehmender Abnutzung des Katalysators werden aber einige der schädlichen Gase und ein Teil des Sauerstoffs nicht an der chemischen Reaktion beteiligt und verlassen den Katalysator ohne Konvertierung. Die von der Monitorsonde angezeigten Sauerstoffmesswerte werden daher zunehmend das Signal der Regelsonde wiederspiegeln, bis beide das gleiche Signal (Abb. 5) ausgeben. Dieser Zustand bedeutet den Ausfall des Katalysators.

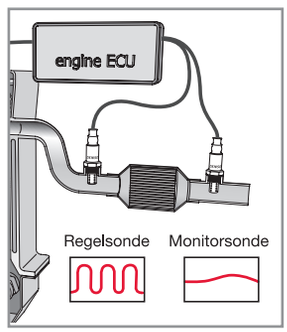


Abb. 4: Signal eines voll funktionsfähigen Katalysators.

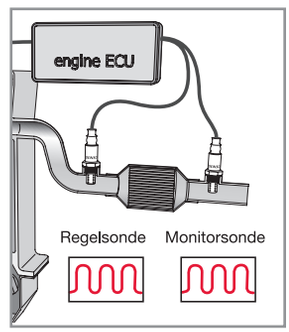


Abb. 5: Signal eines versagenden Katalysators.

F8: Warum wurden Kraftstoff- Luft-Sensoren entwickelt?

A: Die Kraftstoff- Luft- (A/F-)Sensorik war eine von DENSO entwickelte welterste Innovation. Sie bietet einen Sensor mit linearem Ausgangssignal, der dazu beiträgt, dass Fahrzeuge die zunehmend strengeren Emissionsvorschriften ab EURO 3 erfüllen können. Dieses neue System verwendet anstelle der herkömmlichen Lambdasonde den Kraftstoff- Luft-Verhältnis-Sensor (A/F-Sensor).

D

F9: Was ist der Unterschied zwischen Zirkonium-Lambdasonden und A/F-Sensoren?

A: Allgemein sind A/F-Sensoren empfindlicher und effizienter als herkömmliche Zirkonium-Lambdasonden. Dies beruht darauf, wie jeder Sondentyp das Luft-Kraftstoff-Verhältnis misst, und auf den verschiedenen Ausgangssignalen, die sie zum Anzeigen des Ergebnisses erzeugen:

Kraftstoff- Luft-Verhältnis

> Eine **Zirkonium-Lambdasonde** zeigt an, ob das Luft-Kraftstoff-Verhältnis über oder unter Lambda = 1,00 liegt. Das Motor-ECU ändert die Kraftstoffmenge Schritt für Schritt, bis die Sonde anzeigt, dass das Gemisch wieder falsch ist. An diesem Punkt beginnt das ECU wieder mit der schrittweisen Korrektur in die andere Richtung. Dieses Verfahren führt zu einer relativ langsamen und konstanten fortlaufenden Korrektur um Lambda = 1,00, wobei ein Lambda-Wert von 1,00 aber nie genau beibehalten werden kann.

> Ein **A/F Sensor** zeigt den genauen Wert des Luft-Kraftstoff-Verhältnisses an. Das bedeutet, dass das Motor-ECU weiß, wie weit das Luft-Kraftstoff-Verhältnis von Lambda = 1,00 entfernt ist, und daher auch den erforderlichen Korrekturwert für die Kraftstoffeinspritzung kennt. Das Motor-ECU kann somit die eingespritzte Kraftstoffmenge korrigieren, um fast sofort das stöchiometrische Verhältnis von Lambda = 1,00 zu erzielen und beizubehalten.

Ausgangssignal

> **Zirkonium-Sonden** geben eine kleine Spannung zwischen 0 V und ca. 0,8 V aus. Der Übergang von niedriger auf hohe Spannung erfolgt um Lambda = 1,00 (Abb. 6).

> **A/F-Sensoren** geben einen kleinen Strom zwischen -10mA und +10mA aus, die Ausgabe ist ein stabiler Wert, der proportional zum Verbrennungsluftverhältnis ist (Abb. 7).

Systeme mit einer Zirkonium-Sonde haben, speziell bei sich ändernden Bedingungen (plötzliche Beschleunigung oder Verlangsamung), stets entweder ein zu fettes oder ein zu mageres Gemisch, was zu einem weniger effizienten Katalysator führt.

Bei A/F-Sensoren nimmt das Motor-ECU selbst bei sich ändernden Bedingungen partielle Änderungen des Kraftstoff- Luft-Verhältnisses wahr. Es kann daher das Kraftstoff- Luft-Verhältnis präzise anpassen und ein Überschreiten des optimalen Verhältnisses in Richtung mager oder fett beträchtlich reduzieren. Dies führt zu einer optimalen Gaskonvertierung im Katalysator, was weniger Luftverschmutzung, einen geringeren Kraftstoffverbrauch und ein besseres Fahrverhalten bewirkt.

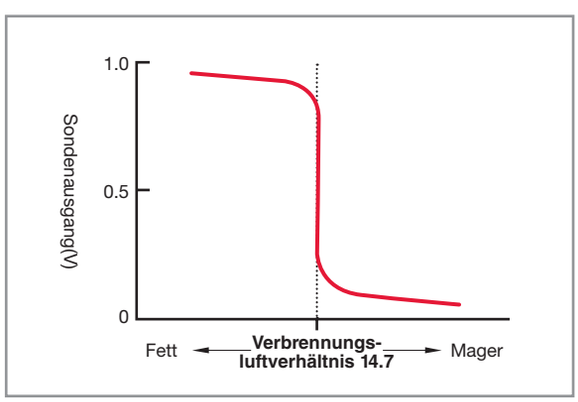


Abb. 6: Ausgabe Zirkonium-Sonde.

F10: Welche Folgen hat der Ausfall einer Lambdasonde?

A: Beim Ausfall der Lambdasonde kann das ECU das Verbrennungsluftverhältnis nicht mehr erfassen und muss daher die benötigte Kraftstoffeinspritzmenge abschätzen. Dies hat einen weniger effizienten Kraftstoffverbrauch zur Folge. Außerdem kann es dazu führen, dass der Katalysator weniger effizient funktioniert und eventuell mehr Schadstoffe ausstößt.

F11: Wie oft müssen Lambdasonden ausgetauscht werden?

A: DENSO empfiehlt, dass Lambdasonden in den vom Fahrzeughersteller empfohlenen Intervallen ausgetauscht werden Lambdasonden müssen aber auch bei jeder Fahrzeuginspektion bzw. AU auf einwandfreien und effizienten Betrieb überpüft werden. Bei alten Motoren, die mehr Öl verbrauchen, muss die Sonde häufiger gewechselt werden als vorgeschrieben.

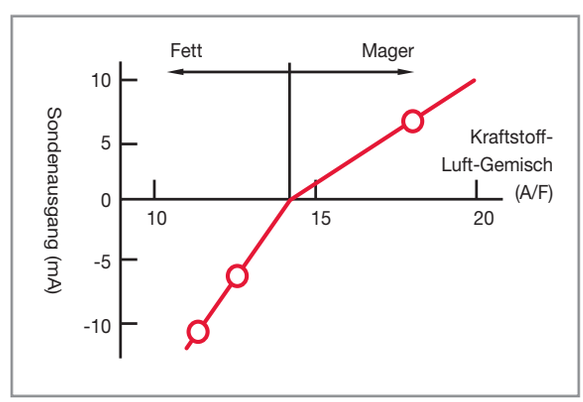


Abb. 7: Ausgabe A/F-Sensor.

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La différence DENSO

Conçues avec précision. Fabriquées selon les exigences OEM les plus strictes. Soumises à des essais rigoureux de sécurité et de performance. Ce sont là les normes exceptionnelles des sondes Lambda DENSO - un programme hors du commun pour le marché de la rechange de configurations chauffées et non-chauffées parfaitement adaptées à chaque fois à chaque véhicule.

Pourquoi choisir DENSO ? DENSO est l'un des principaux développeurs et fabricants au monde de systèmes et de pièces automobiles d'origine, et à ce titre, comprend la technologie des sondes Lambda mieux que quiconque. Nous ne sommes pas les seuls à le penser - les constructeurs automobiles leaders sont d'accord ! Vous trouverez des sondes Lambda DENSO montées en équipement d'origine sur des Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall et nombreux autres véhicules. En fait, depuis que nous avons commencé à les produire, en 1977, plusieurs centaines de millions de sondes Lambda DENSO mesurent sans faute l'oxygène dans les émissions de véhicules du globe, faisant de notre société l'un des plus grands fabricants de sondes Lambda au monde.

Cette conception de pointe, cette qualité d'équipement d'origine (OE) et cette performance supérieure sont désormais à la portée des clients du marché de la rechange grâce à notre programme de sondes Lambda DENSO. Notre savoir-faire inégalé entre dans chaque sonde Lambda que nous fabriquons.

C'est pourquoi, lorsqu'il vous faut une sonde Lambda de rechange, un seul nom s'impose : DENSO.

Chaque sonde Lambda DENSO subit un contrôle qualité à 100%, y compris la sortie de signal haute température, l'étanchéité à l'air, la continuité et la résistance chauffante.

Les technologies dont vous avez besoin

Types de sondes

Les sondes Lambda DENSO sont disponibles bien sûr dans une gamme étendue d'applications et offrent toutes les technologies évoluées dont vous avez besoin pour trouver exactement les pièces de rechange exactes de qualité OEM pour vos clients :

> Sondes au Zirconium du type tige et planaire
> Sondes Air/Carburant du type tige et planaire
> Sondes au Titanium

**Pour plus de détails concernant la fonctionnalité et la comparaison entre les sondes au Zirconium et Air/Carburant, voir la section Q&R sur les sondes Lambda de ce catalogue.*

Tube de protection de la sonde

Les sondes Lambda DENSO existent dans deux choix de tube de protection de qualité OE. Avec les sondes DENSO, le tube de protection est complet et il n'est pas nécessaire d'ajouter de pièces supplémentaires telles que des adaptateurs de brides !

> Tube de protection du type à vis
> Tube de protection du type à bride - y compris joint d'étanchéité de qualité OE

Montage de la sonde

Quel que soit le besoin de votre installation, les deux options de montage de DENSO vous aideront à faire la bonne connexion à chaque fois :

> Sonde à 'Montage direct' - dotée d'un connecteur OEM, prête à l'installation
> Sonde à 'Montage universel' - sans connecteur, vous permettant de réutiliser (et de recycler !) les anciennes pièces

Contrôle et remplacement des sondes

> **À quelle fréquence doit-on remplacer les sondes Lambda?**
DENSO recommande de les changer ausi souvent que le stipule le constructeur du véhicule. Cependant, le fonctionnement et l'efficacité des sondes Lambda devraient également être contrôlés à chaque révision du véhicule - les sondes devront être remplacées à intervalles plus rapprochés que spécifié sur les vieux moteurs ou les moteurs présentant des signes de consommation excessive d'huile.

> **Pourquoi les remplacer ?**
Une défaillance de sonde Lambda - en raison du vieillissement normal, de l'utilisation de carburants au plomb ou de contamination - peut entraîner des dommages au pot catalytique et causer des réparations coûteuses. Des défaillances de sondes Lambda peuvent également générer des émissions plus élevées, une augmentation de la consommation de carburant et une réduction de la performance du moteur, notamment de mauvaises accélérations, des calage et un ralenti instable.

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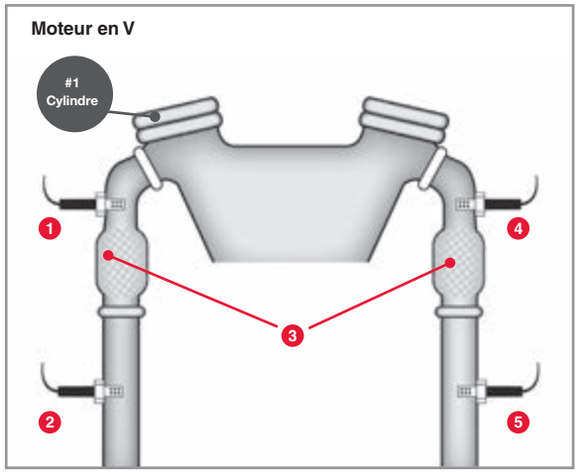
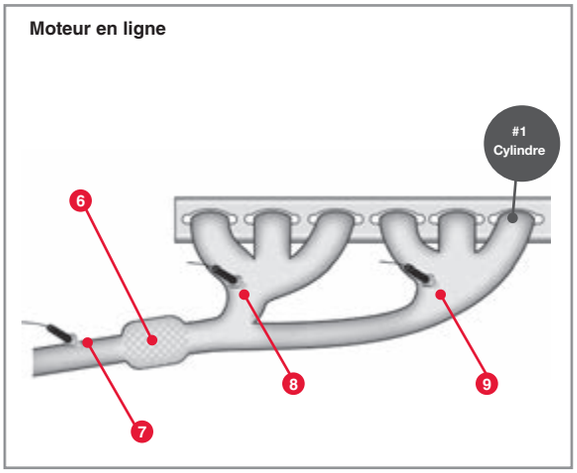
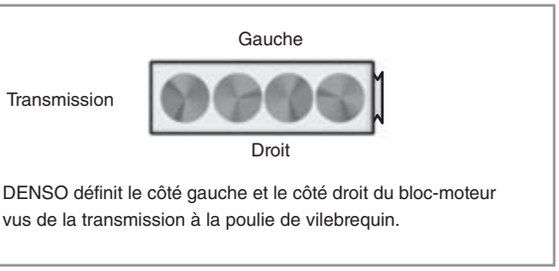
Identifier l'emplacement des sondes Lambda dans le système d'échappement



1. Sonde Lambda avant catalyseur (en amont)
2. Sonde Lambda après catalyseur (en aval)
5. Catalyseur
4. Sonde Lambda avant catalyseur (en amont)
5. Sonde Lambda après catalyseur (en aval)



6. Catalyseur
7. Sonde Lambda après catalyseur (en aval)
8. Sonde Lambda avant catalyseur (en amont)
9. Sonde Lambda avant catalyseur (en amont)



DENSO définit le côté gauche et le côté droit du bloc-moteur vus de la transmission à la poulie de vilebrequin.

Avertissement

Les illustrations ci-dessus représentent des confi gurations types de montage sur le moteur. Il existe de nombreuses variations selon la marque et le modèle. Veuillez vous référer à la liste complète d'applications de ce catalogue pour choisir la sonde Lambda DENSO convenant à un emplacement spécifique d'application.

F

Sondes Lambda à montage direct

Pièces fournies
Sonde Lambda, graisse au cuivre.

Outillage nécessaire

1. Taraud de nettoyage de filetage *(taille M18x1,5 pour la plupart des sondes).*
2. Clé dynamométrique avec douille adaptée à la sonde Lambda *(taille 22 pour la plupart des sondes).*

Étapes de l'installation

1. Au besoin, nettoyer le filetage dans le tuyau d'échappement avec un taraud de nettoyage.
2. Appliquer un peu de graisse 'Cuivre + Plus' fournie sur le filetage de la sonde.

> *NE PAS GRAISSER LE NEZ DE LA SONDE. Appliquer de la graisse uniquement sur le filetage de la sonde*

3. Serrer la sonde au couple prescrit, en utilisant une clé dynamométrique munie d'une douille pour sonde Lambda appropriée.
   Attention de ne pas abîmer les câbles!

Sondes Lambda à montage universel (réutilisation du connecteur)

Pièces fournies
Sonde Lambda, graisse au cuivre, connecteurs, raccords bout à bout emmanchés à chaud.

Outillage nécessaire

1. Pince coupante.
2. Outil à dénuder les fils.
3. Pince à sertir à cliquet avec matrice rouge pour cosses isolées.
4. Pistolet à air chaud.
5. Taraud de nettoyage de filetage *(taille M18x1,5 pour la plupart des sondes).*
6. Clé dynamométrique avec douille pour sonde Lambda appropriée *(taille 22 pour la plupart des sondes)*.

Étapes de l'installation

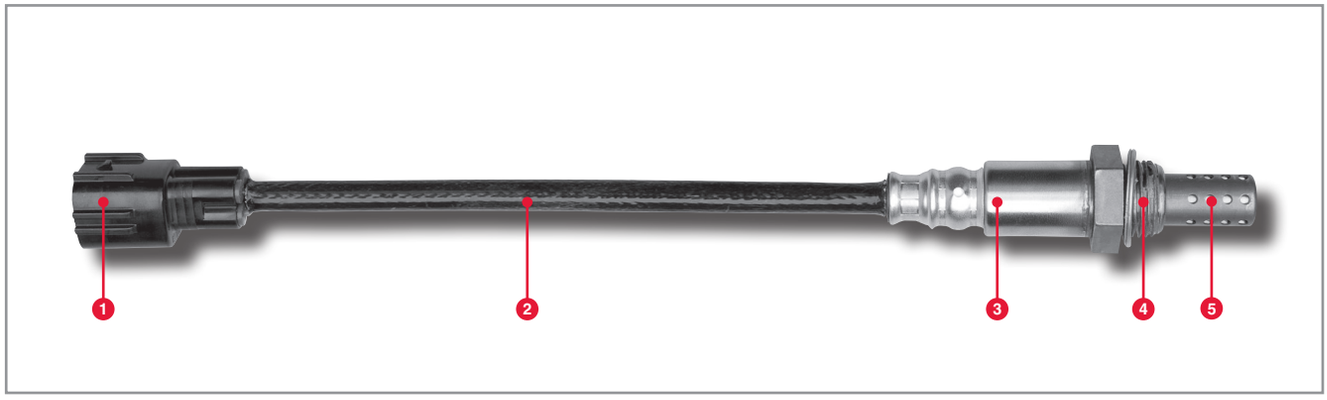
1. Couper les fils de la sonde neuve à la longueur. IMPORTANT : La sonde neuve avec l'ancien connecteur doit avoir la même longueur que l'ancienne sonde et l'ancien connecteur.
2. Couper les fils de l'ancienne sonde à la longueur.
3. Dénuder les extrémités des fils sur une longueur de 7 mm.
4. Sertir les raccords bout à bout avec une pince à sertir à cliquet avec matrice rouge *(taille 22 - 16).*
5. Contracter l'isolation des raccords bout à bout à l'air chaud jusqu'à ce qu'ils soient scellés.
6. Au besoin, nettoyer le filetage dans le tuyau d'échappement avec un taraud de nettoyage.
7. Appliquer un peu de graisse 'Cuivre + Plus' fournie sur le filetage de la sonde.

> *NE PAS GRAISSER LE NEZ DE LA SONDE. Appliquer de la graisse uniquement sur le filetage de la sonde.*

8. Serrer la sonde au couple prescrit, en utilisant une clé dynamométrique munie d'une douille pour sonde Lambda appropriée. Attention de ne pas abîmer les câbles !

F

Manipulation et utilisation correctes des sondes Lambda



1. Connecteur

À conserver propre et sec:

> Ne pas utiliser de graisse ni de vaporisateur quelconque pour contacts.

> L'humidité et autres substances étrangères affecteront facilement la sonde.

2. Câble

Éviter la chaleur:

> Garder à l'écart du tuyau d'échappement ou des autres pièces chaudes du véhicule.

Éviter les interférences et les contraintes:

> Garder à l'écart des pièces en mouvement

> Éviter la tension des câbles.

> Éviter le câblage long et lâche : il pourrait commencer à balancer ou même se prendre dans d'autres pièces ou objets.

3. Corps de la sonde

À conserver propre:

> L'arrière de la sonde contient des trous, à travers lesquels elle respire pour échantillonner l'air extérieur. Ces trous doivent rester ouverts pour permettre à la sonde de fonctionner.

> Garder le corps de la sonde protégé de la saleté et des éclaboussures d'eau froide soudaines.

> Ne pas pulvériser la sonde avec de l'eau à haute pression.

> N'appliquer aucun type de revêtement sur la sonde.

4. Filetage du corps de la sonde

Grease the thread:

> Avant l'installation, graisser le filetage avec la graisse au cuivre fournie.

5. Nez de la sonde

Éviter les chocs :

> Éviter tous chocs afin de ne pas endommager l'élément céramique sensible à l'intérieur.

Éviter la contamination :

> Éviter toute contamination possible, en protégeant le nez de la sonde contre les substances étrangères.

> Ne rien pulvériser sur le nez de la sonde.

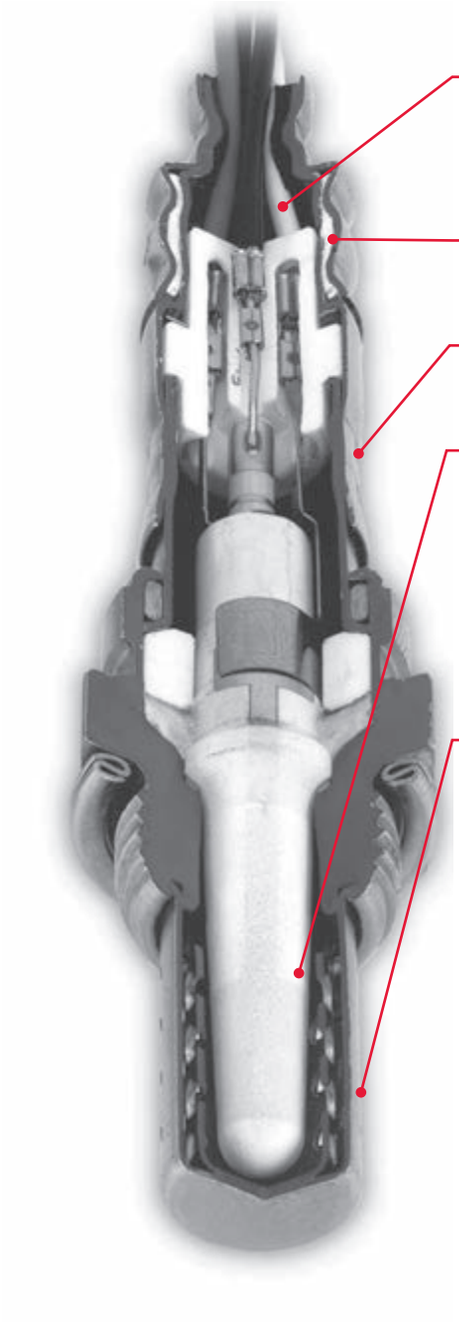
> Ne pas mettre de graisse sur le nez de la sonde.

> Éviter l'utilisation de carburant au plomb.

> Éviter l'utilisation d'additifs pour carburant.

F

La référence pour une technologie supérieure de sondes Lambda



La conception supérieure des sondes Lambda DENSO maximise le rendement moteur et l'efficacité en carburant tout en réduisant les émissions nocives.

> **Conducteur en acier dans les câbles:** les sondes DENSO sont dotées de câbles spéciaux, adaptés aux conditions sévères de chaleur et de vibration. Les câbles isolés Téflon possèdent un conducteur composé de fils en acier inoxydable pour une robustesse supplémentaire, entouré de fils de cuivre à revêtement nickel pour une bonne conductivité et une résistance faible.

> **Filtre PTFE poreux:** permet à l'oxygène contenu dans l'air d'entrer dans la sonde sans laisser l'humidité et les contaminants moteur s'infiltrer dans l'enveloppe.

> **Tube de protection en acier inoxydable:** résiste à la corrosion et à la contamination grâce à un corps robuste et étanche à l'eau.

> **Double couche de protection en oxyde d'aluminium:** les sondes Lambda DENSO possèdent un revêtement de protection unique en oxyde d'aluminium sur l'élément céramique. Il garantit la précision des mesures de la sonde et prolonge sa durée de vie. Le revêtement aide à filtrer la contamination hors des gaz d'échappement, maintenant la pollution indésirable à l'écart de l'élément céramique et empêchant un colmatage prématuré de l'élément de la sonde et/ou des dommages à l'électrode de platine (particulièrement important pour les véhicules fonctionnant avec un carburant de qualité médiocre). Par conséquent, cette couche de protection en oxyde d'aluminium contribue activement à assurer des émissions optimales, des économies de carburant, un bon rendement moteur et la prévention des dommages au moteur.

> **Double enveloppe de protection** (sur toutes les sondes) : maintient une température appropriée de l'unité pour des temps de réponse plus rapides et protège l'élément céramique de la contamination par du plomb ou du silicone.

Solution au dilemme de la qualité du carburant

Un carburant de qualité médiocre ou pollué peut avoir un effet adverse sur la durée de vie et la performance d'une sonde Lambda - mais les sondes DENSO offrent la solution.

Quelle est la cause du problème ? Le carburant peut être contaminé par des additifs pour huile moteur tels que du détergent-dispersant ou du lubrifiant, des additifs pour essence, du matériau d'étanchéité pour les pièces moteur et des dépôts de pétrole brut après désulfurisation. Le carburant contaminé peut émettre une vapeur nocive s'il est chauffé à plus de 700°C, ce qui affecte la sonde Lambda en colmatant ou polluant les électrodes. Ce phénomène constitue une cause de défaillance prématurée des sondes Lambda.

La conception évoluée des sondes Lambda DENSO élimine ce risque. La double couche de protection contre l'oxyde d'aluminium est une conception unique Nous l'appliquons autour de l'élément céramique de la sonde dans le but de la protéger des carburants problématiques, préservant sa longévité et l'efficacité de sa performance.

F

Reconnaître les types de sondes Lambda par couleur de câble

Vérifier la couleur des câbles des sondes Lambda de n'importe quelle marque constitue un moyen facile de reconnaître leur type. Utilisez les tableaux ci-dessous pour identifier aisément la bonne sonde de rechange DENSO.

SONDES LAMBDA AU ZIRCONIUM

Tableau des couleurs de câbles:

	OE Lambda capteur 1	OE Lambda sensor 2	OE Lambda sensor 3	OE Lambda sensor 4	OE Lambda sensor 5
Chauffage +	Noir	Violet	Blanc	Marron	Noir
Chauffage -	Noir	Blanc	Blanc	Marron	Noir
Sensor +	Bleu	Noir	Noir	Violet	Vert
Sensor -	Blanc	Gris	Gris	Beige	Blanc

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
Chauffage +	Noir	Violet
Chauffage -	Noir	Blanc
Sensor +	Bleu	Noir
Sensor -	Blanc	Gris

Tableau des fonctions des câbles:

	+ Elément chauffant	Masse Élément chauffant	+ Sonde	Masse Sonde
Fil 1	-	-	Y	Enveloppe sonde
Fil 2	-	-	Y	Y
Fil 3	Y	Y	Y	Enveloppe sonde
Fil 4	Y	Y	Y	Y

Sur les sondes Lambda au Titanium à 3 et 4 câbles, chaque câble est généralement d'une couleur différente. Les sondes au Titanium DENSO font exception, avec deux noirs et deux gris.

SONDES LAMBDA AU TITANIUM

Tableau des couleurs de câbles:

	+ Elément chauffant	Masse Élément chauffant	+ Sonde	Masse Sonde
DENSO	Noir	Noir	Gris	Gris
Marque 1	Rouge	Blanc	Jaune	Noir

F

Guide des défauts courants de sondes Lambda, leurs causes et de leurs solutions

Pour déterminer si une sonde Lambda fonctionne correctement, il est essentiel d'effectuer un contrôle visuel complet ainsi que des essais de performance.

1. Contrôler le connecteur et le câble principal pour s'assurer qu'aucun dommage ne s'est produit. Tout type de dommages affectera le signal de la sonde.

2. Examiner si le manchon de protection de la sonde présente des signes de dommages qui pourraient indiquer un coup ou une fissure à l'intérieur. Il est important que l'élément de la sonde soit intact pour fonctionner correctement.

3. Vérifier que le connecteur est bien propre, intact et étanche à l'eau et qu'il ne présente aucun signe de graisse, de lubrifiant ni de produit chimique. Ces substances peuvent affecter les signaux de sortie délicats qui sont extrêmement sensibles à la contamination.

Normal

Aspect:
> La sonde ne présente aucun résidu et est de couleur terne.

Cause:
> Combustion propre du moteur grâce à une bonne maintenance préventive.

Contamination par anti-gel

Aspect:
> Couleur blanche-grise granuleuse excessive, parfois dépôts verdâtres.

Cause:
> Contamination due à la présence de liquide de refroidissement dans les cylindres du moteur.

Solution:
> Rechercher la présence de fuites du système de liquide de refroidissement du moteur, en particulier au niveau du joint de culasse et faire la réparation nécessaire.
> Remplacer la sonde.

Contamination par carburant riche

Aspect:
> Excès de dépôts gris foncés / noirs.

Cause:
> Contamination due à une consommation d'huile excessive.

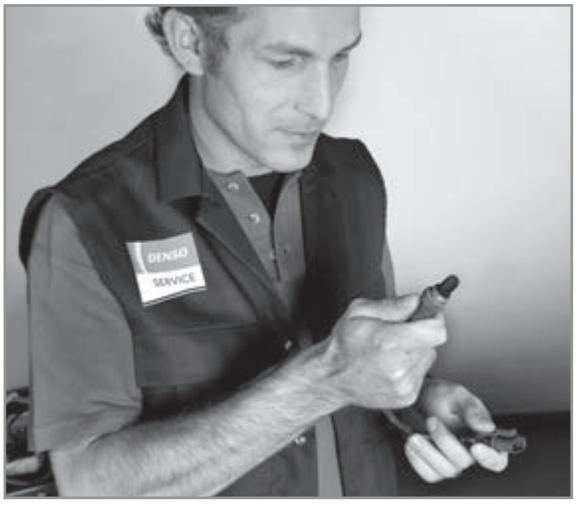
Solution:
> Rechercher la présence de fuites d'huile ou d'usure du moteur et faire la réparation nécessaire.
> Remplacer la sonde.

Contamination par carburant riche

Aspect:
> Excès de suie marron foncé ou noire.

Cause:
> Contamination due à un mélange riche. Ceci peut être causé par un élément chauffant de sonde endommagé ou un système de carburant défectueux.

Solution:
> Contrôler le système de carburant et mesurer les gaz d'échappement
> Contrôler la commande de l'élément chauffant de la sonde Lambda et l'élément chauffant dans le cas d'une sonde chauffée (3 câbles ou plus).



> Réparer le défaut.
> Remplacer la sonde.

Contamination par additifs

Aspect:
> Excès de dépôts rouges ou blancs.

Cause:
> Contamination due à l'utilisation d'additifs excessifs ou nocifs. Certains ingrédients des additifs pour carburant peuvent contaminer l'élément de la sonde. Lorsqu'ils sont brûlés dans le moteur, ils peuvent générer des fumées qui vont contaminer et/ou colmater l'élément de la sonde.

Solution:
> Nettoyer le moteur et/ou le système de carburant afin d'élimine les additifs.
> Remplacer la sonde.

Contamination par le plomb

Aspect:
> Dépôts brillants, gris foncés.

Cause:
> Contamination due à l'utilisation d'un carburant au plomb.
> Le plomb attaque le platine qui se trouve à la fois sur l'élément chauffant et dans le catalyseur.

Solution:
> Éliminer le carburant au plomb du véhicule et refaire le plein avec du carburant sans plomb.
> Remplacer la sonde.

IMPORTANT : Contrôle de suivi
Dans tous les cas, une sonde Lambda contaminée doit être remplacée. Toutefois, après avoir remplacé la sonde, il importe également de vérifier le fonctionnement du pot catalytique. La contamination peut aussi l'endommager en réduisant sa capacité.

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Réponses de l'équipe technique DENSO aux questions posées fréquemment

Q1 : Quel rôle jouent les sondes Lambda?

R : Afin de réduire les émissions, les voitures modernes ont été conçues pour contrôler de près la quantité de carburant qu'elles brûlent. La sonde Lambda (ou à oxygène) constitue un composant critique de ce processus. Son but est de fonctionner avec le système d'injection de carburant du véhicule, le pot catalytique et l'unité de contrôle électronique (ECU) pour produire la quantité la plus faible possible d'émissions de gaz nocifs pour l'environnement. La sonde Lambda y parvient en contrôlant le pourcentage d'oxygène imbrûlé dans les gaz d'échappement. Ces données sont envoyées à l'ECU de la voiture qui ajuste le mélange air/carburant. Le mélange air/carburant exact permet au pot catalytique de fonctionner efficacement. Ce système de nettoyage des gaz d'échappement élimine le plus possible d'émissions nocives de l'échappement avant sa sortie du véhicule.

Q2 : Où se trouvent les sondes Lambda?

R : Toutes les voitures neuves, et la plupart des voitures fabriquées depuis 1980, sont équipées d'une sonde Lambda. Elle se trouve dans le tuyau d'échappement du véhicule avant le pot catalytique, où elle mesure l'oxygène présent dans les gaz d'échappement et informe l'ECU, permettant à celle-ci de calculer les ajustements nécessaires au mélange air/carburant. L'emplacement exact de la sonde Lambda varie selon le type d'échappement du véhicule : en V ou en ligne, et la marque et le modèle. Certaines configurations types de montage sur le moteur figurent dans la section LOCALISATION de ce catalogue.

Q3 : Comment les sondes Lambda fonctionnent-elles exactement?

R : Les sondes Lambda fonctionnent avec le système d'injection de carburant du véhicule, le pot catalytique et le système de gestion du moteur ou l'unité de contrôle électronique (ECU) (Fig 1) pour produire la quantité la plus faible possible d'émissions de gaz nocifs pour l'environnement:

> La sonde Lambda contrôle le pourcentage d'oxygène imbrûlé dans les gaz d'échappement de la voiture.

> Selon la teneur en oxygène du gaz d'échappement, trop élevée (mélange pauvre) ou trop basse (mélange riche), la sonde Lambda transmet un signal de tension fluctuante, à changement rapide, à l'ECU.

> L'ECU réagit à cette information en ajustant le mélange air/carburant entrant dans le moteur. Le but est de maintenir le rapport air/carburant très proche du point stoechiométrique , qui est le rapport calculé idéal air/carburant entrant dans le moteur. En théorie, à ce rapport, tout le carburant sera brûlé en utilisant presque tout l'oxygène dans l'air. La quantité oxygène restante doit correspondre à la quantité exacte nécessaire au bon fonctionnement efficace du pot catalytique.

> Le pot catalytique traite ensuite les émissions d'échappement avant qu'elles ne sortent de la voiture. La plupart des voitures modernes sont équipées d'un pot catalytique trois voies. Trois voies fait référence aux trois émissions régulées (nocives) qu'il aide à réduire : molécules de monoxyde de carbone (CO), hydrocarbures imbrûlés (HC) et oxyde d'azote (NOx). La quantité exacte d'oxygène dans les gaz d'échappement est importante pour le pot catalytique car elle affecte sa capacité à éliminer ces émissions nocives. La quantité correcte d'oxygène permet à une réaction chimique de se produire entre les gaz nocifs et l'oxygène. Il en résulte l'émission de gaz non dangereux à la sortie du pot catalytique. Si celui-ci fonctionne correctement, tout l'oxygène dans les gaz d'échappement est consumé par cette réaction chimique.

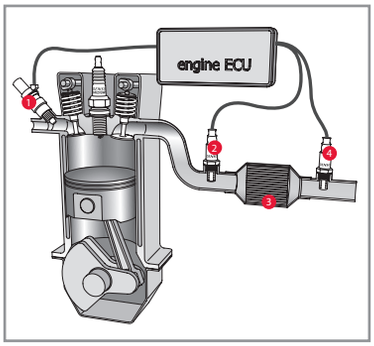

Fig1 : Moteur avec sondes et pot catalytique.

1. Injecteur de carburant
2. Sonde Lambda avant catalyseur
3. Pot catalytique
4. Sonde Lambda après catalyseur

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Q4 : Comment le mélange air/carburant est-il ajusté?

R : Lorsque la sonde Lambda détecte le niveau d'oxygène présent dans le gaz d'échappement, l'ECU reçoit le signal de sortie de la sonde et décide si le mélange est d'un rapport air/carburant approprié. La quantité de carburant injectée est ajustée au moyen du contrôle de compensation de réaction du temps d'injection .
Si le mélange s'avère trop riche, l'injection est diminuée. Si le mélange s'avère trop pauvre, le volume d'injection est augmenté (Fig 2). L'objectif est d'atteindre l'entrée d'un rapport air/carburant idéal dans le moteur (le point stoechiométrique).

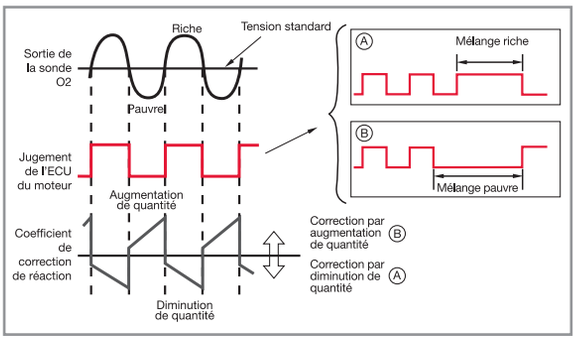

Fig 2 : Le signal de sortie de la sonde Lambda contrôle le rapport air/carburant, indiquant à l'ECU comment ajuster le taux d'injection.

Q5 : Quel est le rapport stoechiométrique idéal?

R : Pour l'essence, le rapport stoechiométrique ou d'épuration est d'environ 14,7 : 1 (égal à Lambda 1), ce qui signifie que pour chaque unité de carburant, 14,7 unités d'air seront brûlées (Fig 3). Le mélange de carburant dérive sensiblement du rapport idéal lors de la conduite, c'est pourquoi il doit être contrôlé et ajusté. Parfois le mélange peut être pauvre (rapport air/carburant supérieur à 14,7) parfois il peut être riche .

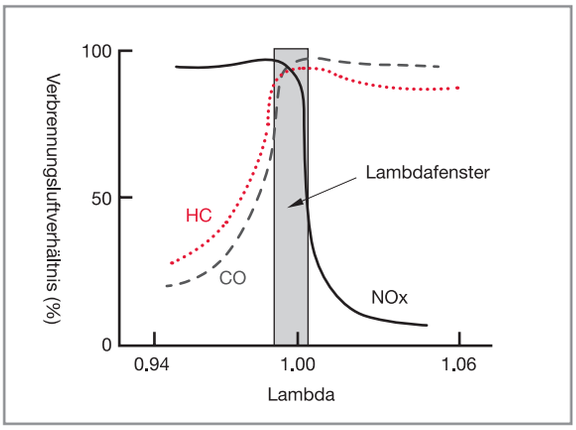

Fig. 3: Rapport d'épuration du pot catalytique.

Q6 : Pourquoi certains véhicules sont-ils équipés de plus d'une sonde Lambda?

R : De nombreux véhicules construits récemment sont dotés d'une seconde sonde Lambda montée après le pot catalytique, ainsi que d'une sonde Lambda placée avant le pot catalytique. La sonde Lambda avant le pot catalytique est la sonde de contrôle, qui aide l'ECU du moteur à contrôler le rapport air/carburant. La sonde Lambda arrière , montée après le pot catalytique, est la sonde de surveillance, chargée de surveiller le pot catalytique.

Q7 : Comment la seconde sonde Lambda analyse-t-elle l'efficacité du pot catalytique?

R : La sonde Lambda montée après le pot catalytique surveille le fonctionnement du pot catalytique en mesurant le niveau d'oxygène dans les gaz d'échappement qui sortent du pot catalytique. Si la sonde indique une tension élevée (Fig 4), le pot catalytique fonctionne efficacement. La raison en est que si le pot fonctionne correctement, tout l'oxygène dans les gaz d'échappement sera consumé par la réaction chimique qui se produit à l'intérieur entre l'oxygène et les émissions nocives. Toutefois, à mesure que le pot catalytique s'use, certains des gaz nocifs et une partie de l'oxygène ne seront pas inclus dans la réaction chimique et sortiront inchangés du pot catalytique. Les lectures d'oxygène indiquées par la sonde placée après le pot catalytique reflèteront de plus en plus le signal de la sonde placée avant le pot catalytique, jusqu'à ce que les deux sondes génèrent le même signal (Fig 5), indiquant la défaillance du pot catalytique

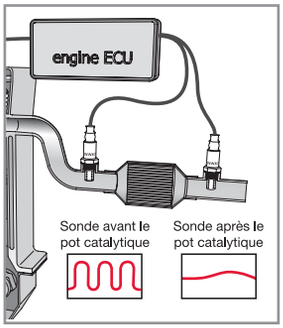

Fig 4 : Sortie d'un pot catalytique totalement performant.

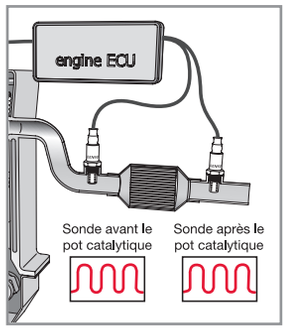

Fig 5 : Sortie d'un pot catalytique défaillant.

Q8 : Pourquoi les sondes air/carburant ont-elles été développées?

R : La technologie des sondes air/carburant a constitué une innovation en première mondiale à être développée par DENSO, offrant une sonde à sortie linéaire qui aide les véhicules à respecter les réglementations de plus en plus rigoureuses sur les émissions, à savoir EURO 3 et plus. Ce nouveau système utilise la sonde de rapport air/carburant qui remplace la sonde Lambda classique.

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Q9 : Quelle est la différence entre les sondes Lambda au Zirconium et les sondes air/carburant ?

R : De manière générale, les sondes air/carburant sont plus sensibles et plus efficaces que les sondes Lambda au Zirconium classiques. Ceci s'explique par la façon dont chaque type de sonde air/carburant mesure le rapport air/carburant et les différents signaux de sortie qu'elles produisent pour indiquer le résultat :

Rapport air/carburant

> Une **Sonde au Zirconium** indique si le rapport air/carburant est supérieur ou inférieur à Lambda 1. L'ECU du moteur modifie la quantité de carburant au fur et à mesure jusqu'à ce que la sonde indique que le mélange est à nouveau incorrect. À ce moment-là, l'ECU commence à corriger à nouveau, au fur et à mesure, dans l'autre sens. Cette méthode conduit à une correction continue relativement lente et constante autour de Lambda 1, sans jamais réussir à maintenir exactement Lambda 1.

> Une **Sonde air/carburant** indique la valeur exacte du rapport air/carburant. Cela signifie que l'ECU du moteur connaît l'écart du rapport air/carburant comparé à Lambda 1, et par conséquent connaît aussi le degré de correction nécessaire à l'injection de carburant. Cette fonction permet à l'ECU du moteur de corriger la quantité de carburant injectée pour atteindre, et maintenir le rapport Lambda 1 presque immédiatement.

Signal de sortie

> Une **Sonde au Zirconium** envoie une faible tension comprise entre 0 V et environ 0,8 V, commutant de basse à haute à environ Lambda 1 (Fig 6).

> Une **Sonde air/carburant** envoie un faible courant compris entre -10 mA et +10 mA, où la sortie est une valeur stable, proportionnelle au rapport air/carburant (Fig 7).

De manière générale, spécialement dans des conditions changeantes (accélérations ou décélération soudaines), les systèmes équipés d'une sonde au Zirconium subissent un manque ou un dépassement de carburant, avec pour résultat un pot catalytique moins efficace.

Avec une sonde air/carburant, l'ECU du moteur remarque les changements fractionnés dans le rapport air/carburant même dans des conditions changeantes. L'ECU est par conséquent capable d'effectuer des ajustements précis, réduisant ainsi de manière considérable l'insuffisance ou l'excès de carburant. Cette fonction a pour résultat une conversion optimale du gaz à l'intérieur du pot catalytique, produisant un air plus propre, une réduction de la consommation de carburant et un meilleur confort de conduite.

Q10 : Que se passe-t-il en cas de défaillance de sonde Lambda ?

R : Si une défaillance de sonde Lambda se produit, l'ECU ne peut plus détecter le rapport air/carburant et doit donc deviner la quantité de carburant à injecter. Ceci provoque une utilisation moins efficace du carburant et, par conséquent, une consommation supérieure et peut également entraîner un fonctionnement moins efficace du pot catalytique qui risque d'émettre des niveaux plus élevés d'émissions nocives.

Q11 : À quelle fréquence devrait-on remplacer les sondes Lambda ?

R : DENSO recommande de remplacer les sondes Lambda aussi souvent que spécifié par le constructeur du véhicule. Cependant leur fonctionnement et leur efficacité devraient toujours être contrôlés à chaque révision du véhicule - elles doivent être changées à intervalles plus courts que ceux spécifiés sur les vieux moteurs ou les moteurs présentant des signes de consommation excessive d'huile.

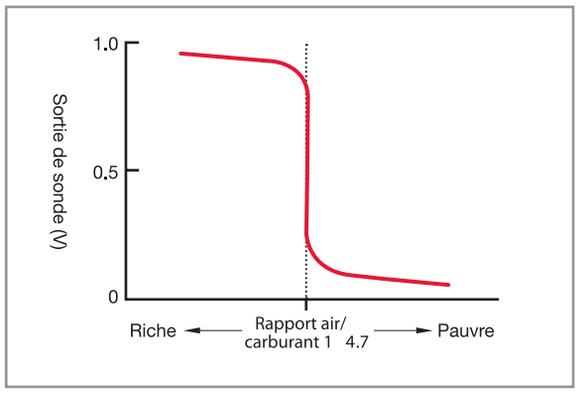

Fig. 6: Zirconia Sensor Output.

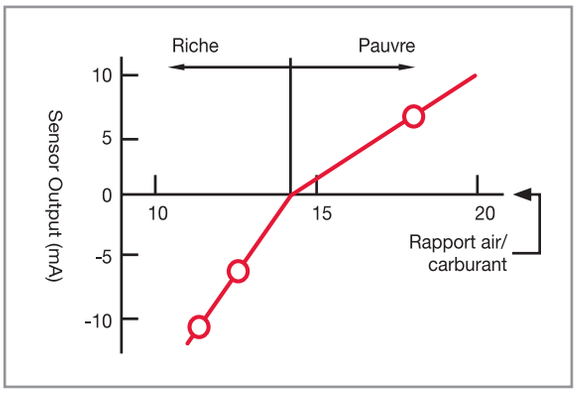

Fig. 7: A/F Sensor Output.

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DENSO: La diferencia

Diseñadas con precisión. Fabricadas conforme a las normas de Fabricante de Primer Equipo más estrictas. Sujetas a pruebas rigurosas de seguridad y rendimiento. Estas son las normas excepcionales en las que se basan las Sondas Lambda de DENSO: un programa extraordinario de configuraciones calefactadas y no calefactadas para el mercado postventa, garantizadas para adaptarse perfectamente a las exigencias de cada vehículo en todo momento.

¿Por qué elegir DENSO? Como uno de los principales proveedores y fabricantes del mundo de elementos y sistemas originales para vehículos, DENSO conoce la tecnología de las sondas Lambda mejor que nadie. Pero esto no sólo es nuestra opinión; los principales fabricantes de vehículos piensan igual. Las Sondas Lambda de DENSO están montadas como equipo original en los vehículos Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall y muchos más. De hecho, desde que se fabricaron por primera vez en 1977, varios centenares de millones de Sondas Lambda de DENSO han desempeñado su función midiendo la cantidad de oxígeno presente en los gases de escape de los vehículos en todo el mundo, lo cual nos convierte en uno de los líderes mundiales en la fabricación de sondas Lambda.

Esta ingeniería avanzada, calidad de Equipamiento Original y rendimiento superior están ahora disponibles para los clientes del mercado del recambio en nuestro programa DENSO de sondas Lambda. Aplicamos nuestros conocimientos incomparables en todas y cada una de las sondas Lambda que fabricamos.

Y esta es la razón por la que, cuando necesite una sonda Lambda de repuesto, sólo hay una marca que elegir: DENSO.

Cada Sonda Lambda de DENSO es comprobada para asegurar un 100% de calidad comprobando la señal de salida a alta temperatura, hermeticidad, continuidad y resistencia de calefacción.

Las tecnologías que usted necesita

Tipos de sondas

Como cabe esperar, las Sondas Lambda de DENSO están disponibles en una amplia gama de aplicaciones. Pero ofrecen también todas las tecnologías avanzadas que usted necesita para hallar exactamente los repuestos adecuados de calidad de Equipamiento Original para sus clientes:

> Sondas de zirconio — Tipos dedaliforme y planar
> Sensores Aire / Combustible — Tipos dedaliforme y planar
> Sondas de titanio

**Para obtener más detalles acerca de la funcionalidad y comparación entre las sondas de zirconio y los sensores de relación airecombustible, véase la sección Sondas Lambda – Preguntas más frecuentes de este catálogo.*

Carcasa de la sonda

Las Sondas Lambda de DENSO se encuentran disponibles en dos tipos de carcasa de calidad de Equipamiento Original. Y con las sondas DENSO, la carcasa viene completa. No se necesitan piezas adicionales, como los adaptadores de brida.

> Carcasa tipo tornillo.
> Carcasa tipo brida – incluido el empaque de la brida de calidad EO.

Fijación de la sonda

Sea cual sea la instalación, DENSO ofrece dos opciones de fijación que le ayudarán a realizar la conexión correcta en todo momento:

> Sonda 'Direct Fit' (Ajuste directo) – con conector original instalado, listo para su montaje.
> Sonda 'Universal Fit' (Ajuste universal) – sin conector, lo cual le permite utilizar el conector antiguo.

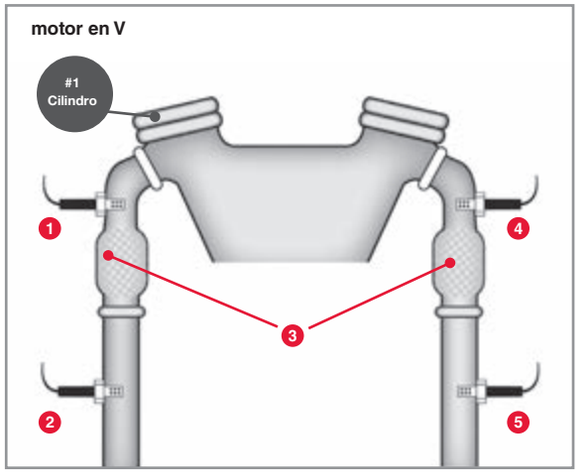
Inspección y sustitución de las sondas

> **¿Con cuánta frecuencia se deben sustituir las sondas Lambda?**
DENSO recomienda cambiarlas a los intervalos especificados por el fabricante del vehículo. Pero también se debe comprobar el funcionamiento y la eficacia de las sondas Lambda en cada revisión del vehículo, ya que si el motor es viejo o consume una cantidad excesiva de aceite, será necesario cambiar las sondas a intervalos más cortos que los especificados.

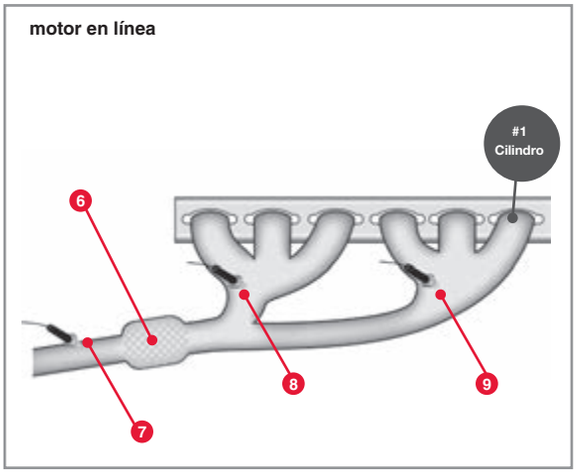
> **¿Por qué sustituirlas?**
El fallo de una sonda Lambda – ya sea debido al desgaste normal, al uso de combustibles con plomo o a la contaminación – puede producir daño en el catalizador y dar lugar a reparaciones costosas. Además, las sondas Lambda defectuosas pueden causar emisiones nocivas más altas, un aumento del consumo de combustible y un rendimiento inferior del motor, incluida una pérdida de aceleración, variación del punto de encendido y mal funcionamiento en ralentí.

E

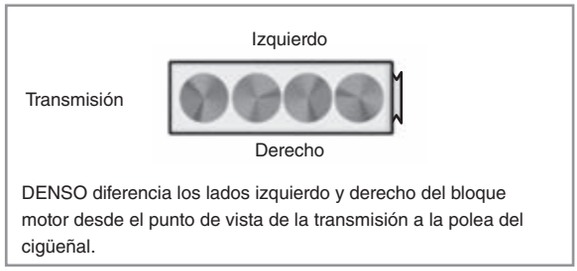
Ubicación de las sondas Lambda en el sistema de escape



1. Sonda Lambda pre-catalizador
2. Sonda Lambda post-catalizador
3. Catalizador
4. Sonda Lambda pre-catalizador
5. Sonda Lambda post-catalizador



6. Catalizador
7. Sonda Lambda post-catalizador
8. Sonda Lambda pre-catalizador
9. Sonda Lambda pre-catalizador



DENSO diferencia los lados izquierdo y derecho del bloque motor desde el punto de vista de la transmisión a la polea del cigüeñal.

Aviso

Las ilustraciones que aparecen más arriba representan confi guraciones típicas de montaje del motor. Existen numerosas variaciones en función de la marca y el modelo. Para elegir la sonda Lambda DENSO correcta, comprobar la lista completa de aplicaciones en este catálogo.

E

Sondas Lambda Direct Fit (Ajuste directo)

Piezas provistas

Sonda Lambda, grasa a base de cobre.

Herramental necesario

1. Macho de limpiar roscas *(tamaño M18x1,5 para la mayoría de las sondas)*.
2. Llave dinamométrica con cubo adecuado para sondas Lambda *(22 para la mayoría de las sondas)*.

Pasos para la instalación

1. Si fuese necesario, limpiar la rosca en el tubo de escape con un macho de roscar.
2. Aplique un poco de la grasa 'Copper + Plus' provista sobre la rosca de la sonda.

NO ENGRASE LA PUNTA DE LA SONDA. Sólo aplique grasa a la rosca de la sonda.

3. Apriete la sonda al par de apriete prescrito, utilizando una llave dinamométrica con un cubo adecuado para sonda Lambda. ¡Tenga cuidado de no dañar los cables!

Sondas Lambda Universal Fit (Reutilización del conector)

Piezas provistas

Sonda Lambda, grasa a base de cobre, conectores, empalmes a tope termorretráctiles.

Herramental necesario

1. Alicates para cortar cables.
2. Herramienta para pelar cables.
3. Alicates de terminales con colorante rojo para terminales aislados.
4. Pistola de aire caliente.
5. Macho de limpiar roscas *(tamaño M18x1,5 para la mayoría de las sondas)*.
6. Llave dinamométrica con el vaso correspondiente al sensor lambda *(del 22 en la mayoría de los casos)*.

Pasos para la instalación

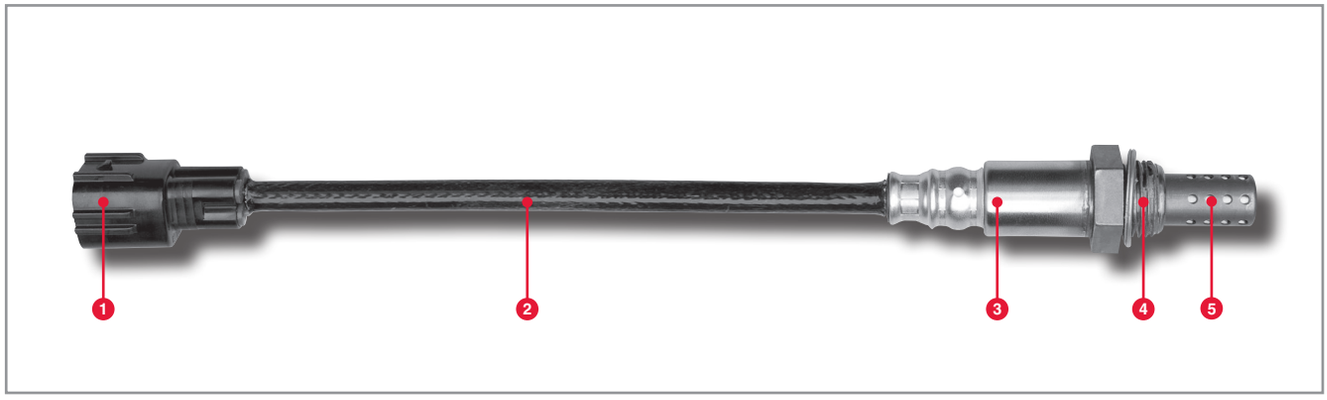
1. Corte los cables de la sonda nueva según el tamaño correcto. IMPORTANTE: La sonda nueva con el conector antiguo debe ser de la misma longitud que la sonda y conector antiguos originales.
2. Corte los cables de la sonda vieja según el tamaño correcto.
3. Pele un trozo de 7 mm de largo de los extremos de los cables.
4. Una los empalmes a tope con unos alicates de terminales con colorante rojo *(tamaño 22 – 16)*.
5. Contraiga el aislamiento de los empalmes a tope con aire caliente hasta que estén sellados.
6. Si fuese necesario, limpie la rosca en el tubo de escape con un macho de roscar.
7. Aplique un poco de la grasa Copper + Plus provista sobre la rosca de la sonda.

NO ENGRASE LA PUNTA DE LA SONDA. Sólo aplique grasa a la rosca de la sonda.

8. Apriete la sonda conforme al par de apriete prescrito, utilizando una llave dinamométrica con un cubo adecuado para sonda Lambda. ¡Tenga cuidado de no dañar los cables!

E

Manejo y uso correctos de las sondas Lambda



1. Conector

M anténgase limpio y seco:

> No utilice grasa o spray de contacto de ningún tipo.
> La humedad y otras sustancias extrañas pueden afectar a la sonda.

2. Cable

Evítese el calor:

> Mantenga alejado del tubo de escape y de otras partes calientes del vehículo.

Evítense los esfuerzos:

> Mantenga alejado de las piezas móviles.
> Evite la tensión de los cables.
> Evite los tramos largos de cables colgantes ya que podrían moverse o incluso quedar atrapados por otras piezas u objetos.

3. Cuerpo de la sonda

M anténgase limpio:

> El extremo posterior de la sonda contiene orificios, a través de los cuales respira para medir el aire exterior. Estos agujeros deben permanecer abiertos para permitir el funcionamiento de la sonda.
> Mantenga protegido el cuerpo de la sonda contra la suciedad y las salpicaduras repentinas de agua fría.
> No pulverice la sonda con agua a alta presión.
> Mantenga libre la sonda de todo tipo de recubrimientos.

4. Rosca del cuerpo de la sonda

Engrase la rosca:

> Engrase la rosca con la grasa suministrada antes de la instalación.

5. Punta de la sonda

Evítense los impactos repentinos:

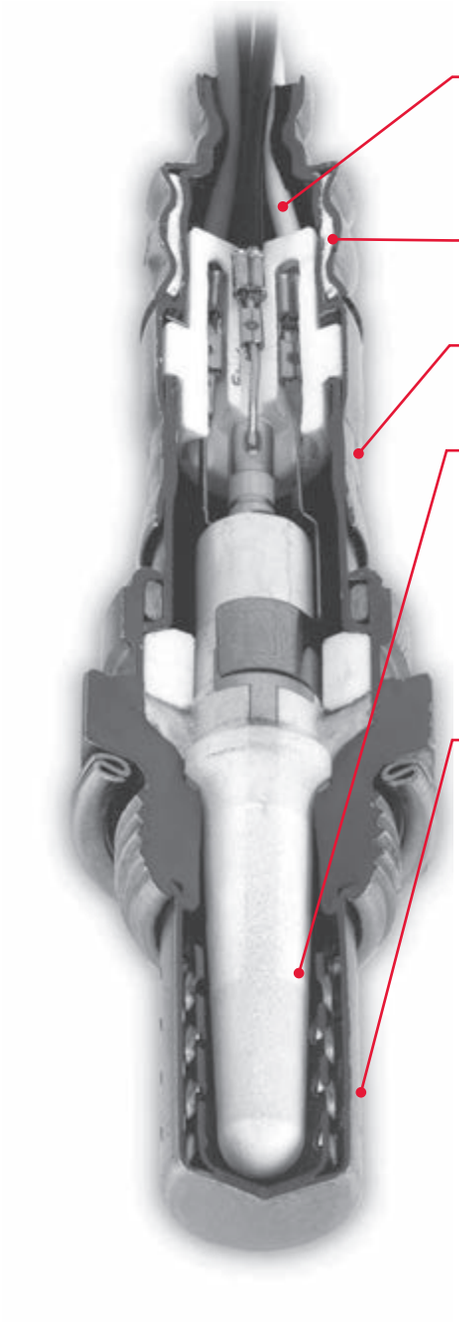
> Evite los golpes repentinos que puedan dañar el elemento sensible de cerámica interior.

Evítese la contaminación:

> Evite cualquier contaminación posible, manteniendo la punta de la sonda libre de toda sustancia extraña.
> No pulverice ninguna sustancia sobre la punta de la sonda.
> No aplique grasa sobre la punta de la sonda.
> Evite el uso de combustible con plomo.
> Evite el uso de aditivos para combustible.

E

La referencia en tecnología superior de sondas Lambda



El diseño superior de las Sondas Lambda de DENSO maximiza el rendimiento del motor y la eficacia en consumo de combustible, reduciendo al mismo tiempo las emisiones nocivas.

> **Alma de acero en los cables:** Las sondas DENSO incorporan cables especiales, adaptados para soportar las condiciones difíciles de calor y vibración. Los cables con aislamiento de Teflón tienen un alma compuesta de hilos de acero inoxidable para mayor resistencia, rodeados por cables de cobre recubiertos con níquel para mayor conductividad y baja resistencia.

> **Filtro PTFE poroso:** Deja que el oxígeno atmosférico entre en la sonda sin permitir que el agua o los contaminantes del motor se filtren en la carcasa.

> **Carcasa de acero inoxidable:** Resistente a la corrosión y la contaminación con un cuerpo hermético resistente.

> **Capa de retención doble de óxido de aluminio:** Las Sondas Lamba de DENSO incorporan un recubrimiento protector singular de óxido de aluminio sobre el elemento de cerámica para asegurar unas mediciones correctas y una larga vida útil de la sonda. El recubrimiento ayuda a filtrar la contaminación de los gases de escape, manteniendo la polución nociva alejada del elemento de cerámica y evitando la obturación precoz del elemento sensor y/o el daño al electrodo de platino (es especialmente beneficioso para los automóviles que utilizan combustible de baja calidad). Por lo tanto, la capa de retención de óxido de aluminio juega un papel activo en la optimización de las emisiones, la economía de combustible, el rendimiento del motor y la prevención de daño al motor.

> **Cubierta de protección doble** (en todas las sondas): Mantiene una temperatura adecuada de la unidad para asegurar tiempos de respuesta más rápidos y protege el elemento de cerámica contra la contaminación por silicio y plomo.

Solución al dilema de la calidad de combustible

Un combustible de mala calidad o contaminado puede tener un efecto adverso sobre la longevidad y el rendimiento de la sonda Lambda, pero las sondas DENSO ofrecen la solución.

¿Qué causa el problema? El combustible puede estar contaminado por aditivos de los aceites de motores, como los detergentes-dispersantes o lubricantes; los aditivos de la gasolina; los compuestos de estanqueidad para piezas de motor; y los depósitos de crudo después de la desulfuración. El combustible contaminado puede emitir un vapor venenoso si se calienta por encima de 700 °C, lo cual afecta a la sonda lambda obturando o contaminando los electrodos. Esta es una causa común del fallo prematuro de las sondas Lambda.

El diseño avanzado de las Sondas Lambda de DENSO elimina este riesgo. La capa de retención doble, única en su género, a base de óxido de aluminio que aplicamos alrededor del elemento de cerámica de la sonda, la protege contra el combustible que causa el problema, manteniendo su longevidad y rendimiento eficaz.

E

Cómo reconocer los tipos de sondas Lambda por el color de los cables

Al comprobar el color de los cables de las sondas Lambda de cualquier marca, se puede reconocer fácilmente su tipo. Utilice las tablas siguientes para identificar fácilmente el repuesto DENSO correcto.

Por lo general, en las sondas Lambda de titanio de 3 y 4 cables, cada cable es de un color diferente, con la excepción de las sondas de titanio de DENSO que tienen dos cables negros y dos grises.

SONDAS LAMBDA DE ZIRCONIO

Tabla de colores de los cables:

	OE Lambda sensor 1	OE Lambda sensor 2	OE Lambda sensor 3	OE Lambda sensor 4	OE Lambda sensor 5
Calentador +	Negro	Morado	Blanco	Marron	Negro
Calentador -	Negro	Blanco	Blanco	Marron	Negro
Sensor +	Azul	Negro	Negro	Morado	Verde
Sensor -	Blanco	Gris	Gris	Beige	Blanco

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
Calentador +	Negro	Morado
Calentador -	Negro	Blanco
Sensor +	Azul	Negro
Sensor -	Blanco	Gris

Tabla de funciones de los cables:

	+ calefactor	Masa calefactor	+ sonda	Masa sonda
1 Hilo	-	-	Y	Carcasa sonda
2 Hilo	-	-	Y	Y
3 Hilo	Y	Y	Y	Carcasa sonda
4 Hilo	Y	Y	Y	Y

SONDAS LAMBDA DE TITANIO

Tabla de colores de los cables:

	+ calefactor	Masa calefactor	+ sonda	Masa sonda
DENSO	Negro	Negro	Gris	Gris
Marca 1	Rojo	Blanco	Amarillo	Negro

E

Guía para localizar averías corrientes de las sondas Lambda, sus causas y soluciones

Para determinar si una sonda Lamba funciona correctamente, es esencial llevar a cabo una inspección visual completa, así como pruebas de rendimiento.

1. Compruebe que el conector y el hilo conductor no están dañados. Cualquier tipo de daño afectará la señal de la sonda.

2. Compruebe si la funda de protección de la sonda presenta señales de daño que podrían indicar una rotura o agrietamiento en el interior. Es importante que el elemento de la sonda esté intacto para que funcione correctamente.

3. Compruebe que el conector está limpio, intacto y hermético; y que no hay restos de grasa, lubricantes o productos químicos sobre él. Estos residuos pueden afectar las delicadas señales de salida de la sonda que son muy sensibles a la contaminación.

Normal

Aspecto:
> La sonda está libre de residuos y tiene un color mate.

Causa:
> Combustión limpia a consecuencia de un mantenimiento preventivo correcto del motor.

Contaminación por anticongelante

Aspecto:
> Color blanquecino excesivamente granulado, a veces con depósitos verdosos.

Causa:
> Contaminación debido a la presencia de refrigerante en los cilindros.

Solución:
> Compruebe el sistema refrigerante del motor, especialmente la junta de culata, para ver si tiene fugas, y repare si fuese requerido.
> Sustituya la sonda.

Contaminación por aceite

Aspecto:
> Depósitos excesivos color negro o gris oscuro.

Causa:
> Contaminación debida a un consumo excesivo de aceite.

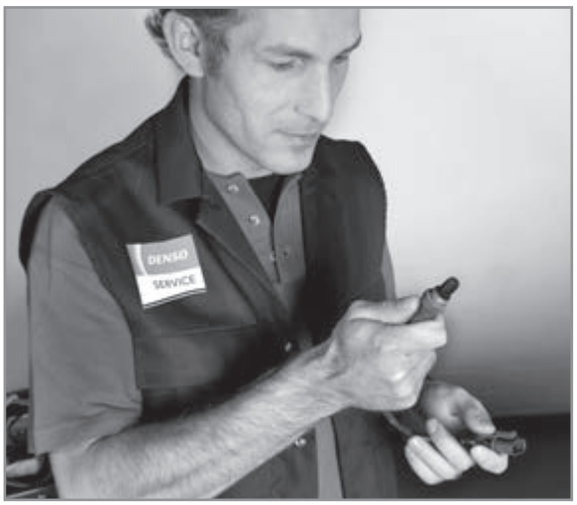
Solución:
> Compruebe si el motor presenta fugas de aceite o desgaste, y repare si fuese requerido.
> Sustituya la sonda.

Contaminación por mezcla rica de combustible

Aspecto:
> Hollín excesivo color negro o marrón oscuro.

Causa:
> Contaminación debido a una mezcla rica de aire/combustible incorrecta. Esto puede deberse a un calefactor de sonda dañado o a un sistema de combustible defectuoso.

Solución:
> Compruebe el sistema de combustible y mida los gases de escape.
> Compruebe la regulación del calefactor de la sonda Lambda, y el calefactor de la sonda, en el caso de una sonda calentada (3 o más cables).
> Repare los defectos.
> Sustituya la sonda.



Contaminación por aditivos

Aspecto:
> Depósitos rojos o blancos excesivos.

Causa:
> Contaminación debida al uso de aditivos excesivos o nocivos. Ciertos ingredientes de los aditivos para combustibles pueden contaminar el elemento de la sonda. Cuando se queman en el motor, causan humos que contaminarán y/o bloquearán el elemento de la sonda.

Solución:
> Limpie el motor y/o el sistema de combustible para eliminar los aditivos.
> Sustituya la sonda.

Contaminación por plomo

Aspecto:
> Depósitos brillantes, color gris oscuro.

Causa:
> Contaminación debida al uso de combustible con plomo.
> El plomo ataca el platino que está presente tanto en el elemento de la sonda como en el catalizador.

Solución:
> Vacíe el combustible con plomo del vehículo y rellene de combustible sin plomo.
> Sustituya la sonda.

IMPORTANTE: Control de seguimiento
En todos los casos, es esencial sustituir una sonda Lambda contaminada. Sin embargo, después de renovar la sonda, es importante también comprobar el funcionamiento del catalizador. La contaminación también puede dañar el catalizador reduciendo su capacidad.

E

Preguntas más frecuentes contestadas por el equipo técnico de DENSO

P1: ¿Qué papel desempeñan las sondas Lambda ?

R: Con la finalidad de reducir las emisiones, los coches modernos se han diseñado para regular rigurosamente la cantidad de combustible que queman. La sonda Lambda (o de oxígeno) es un componente crítico en este proceso. Su finalidad es funcionar junto con el sistema de inyección de combustible del vehículo, el catalizador y la unidad de control electrónico (ECU) para obtener la salida más baja posible de emisiones del motor perjudiciales para el medio ambiente. La sonda Lamba desempeña esta función vigilando el porcentaje de oxígeno no quemado presente en los gases de escape del vehículo. Estos datos son enviados a la ECU del vehículo, la cual ajusta la mezcla de aire/combustible (A/F, en sus siglas inglesas). La mezcla correcta de aire/combustible permite al catalizador funcionar eficazmente. Este sistema de medición de los gases de escape elimina la mayor cantidad posible de emisiones nocivas de los gases de escape antes de que salgan del vehículo.

P2: ¿Dónde están colocadas las sondas Lambda?

R: Todos los automóviles nuevos, y la mayoría de los vehículos fabricados desde 1990, llevan instalada una sonda Lambda. Esta sonda está instalada en el tubo de escape del vehículo antes del catalizador, donde mide la cantidad de oxígeno presente en los gases de escape e informa a la ECU, permitiendo a ésta calcular los ajustes necesarios en la mezcla de aire/combustible. La ubicación exacta de la sonda Lambda varía según el vehículo tenga un sistema de escape tipo V o en línea, y en función de la marca y el modelo. Algunas configuraciones típicas de montaje de motor se muestran en la sección UBICACIÓN de este catálogo.

P3: ¿Cómo funcionan exactamente las sondas Lambda?

R: Las sondas Lambda funcionan junto con el sistema de inyección de combustible del vehículo, el catalizador y el sistema de gestión del motor o la unidad de control electrónico (ECU) (Fig 1) para ayudar a obtener la salida más baja posible de emisiones del motor perjudiciales para el medio ambiente:

> La sonda Lambda vigila el porcentaje de oxígeno no quemado presente en los gases de escape del vehículo

> Según sea el contenido de oxígeno presente en los gases de escape demasiado alto (mezcla pobre) o demasiado bajo (mezcla rica), la sonda Lambda transmite a la ECU una señal de tensión fluctuante variable según sea la medición.

> La ECU responde a esta información ajustando la mezcla de aire/combustible que entra en el motor. La finalidad es mantener la relación de aire/combustible muy próxima al punto estequiométrico, que es la relación de aire/combustible ideal calculada que entra en el motor. Teóricamente, a esta relación, todo el combustible se quemará utilizando casi la totalidad del oxígeno en el aire. El oxígeno restante debe ser exactamente la cantidad correcta para que el catalizador funcione eficazmente.

> A continuación, el catalizador trata las emisiones de escape antes de que salgan del vehículo. La mayoría de los automóviles modernos están equipados de un catalizador de tres vías. Tres vías se refiere a las tres emisiones (nocivas) reguladas que ayuda a reducir: moléculas de monóxido de carbono (CO), hidrocarburos no quemados (HC) y óxidos de nitrógeno (NOx). La cantidad exacta de oxígeno presente en los gases de escape es importante para el catalizador porque afecta su capacidad para eliminar estas emisiones nocivas de los gases de escape. La cantidad correcta de oxígeno permite que tenga lugar una reacción química entre los gases nocivos y el oxígeno, resultando en la salida de gases inocuos del catalizador. Si el catalizador funciona correctamente, todo el oxígeno presente en los gases de escape será consumido por esta reacción química.

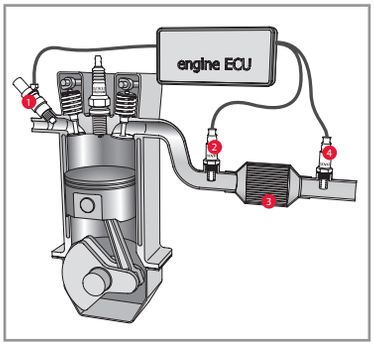


Fig. 1: Motor con sondas y catalizador.

1. Inyector de combustible
2. Sonda Lamba pre-catalizador
3. Catalizador
4. Sonda Lamba post-catalizador

E

P4: ¿Cómo se ajusta la mezcla de aire/combustible?

R: Cuando la sonda Lambda detecta el nivel de oxígeno contenido en los gases de escape, la ECU recibe la señal de salida de la sonda y decide si la mezcla tiene una relación de aire/combustible apropiada. La cantidad de combustible inyectado se ajusta por medio de un control de compensación del tiempo de inyección. Cuando la mezcla es demasiado rica, la inyección de combustible disminuye. Cuando la mezcla es demasiado pobre, el volumen de inyección de combustible aumenta (Fig 2). El objetivo consiste en obtener la relación de aire/combustible ideal que entra en el motor (el punto estequiométrico).

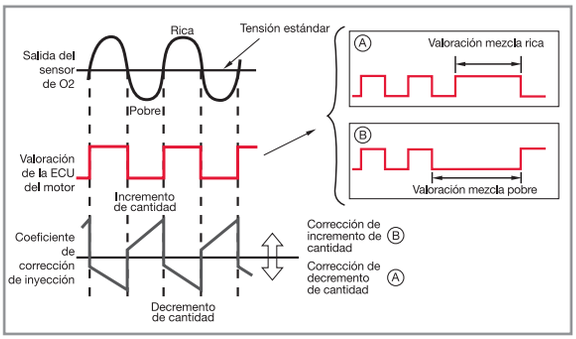


Fig 2: La señal de salida de la sonda Lambda vigila la relación de aire/combustible, indicando a la ECU cómo ajustar la tasa de inyección de combustible.

P5: ¿Cuál es la relación estequiométrica ideal?

R: Para la gasolina, la relación estequiométrica, es aproximadamente 14,7 : 1 (esto equivale a un valor Lambda de 1.00), lo cual significa que por cada litro de combustible, 14,7 litros de aire arderán (Fig 3). La mezcla de combustible dista bastante de la relación ideal mientras se conduce, razón por la cual debe ser monitorizada y ajustada. A veces, la mezcla puede ser pobre (una relación de aire/combustible por encima de 14,7); mientras que otras veces la mezcla puede ser rica.

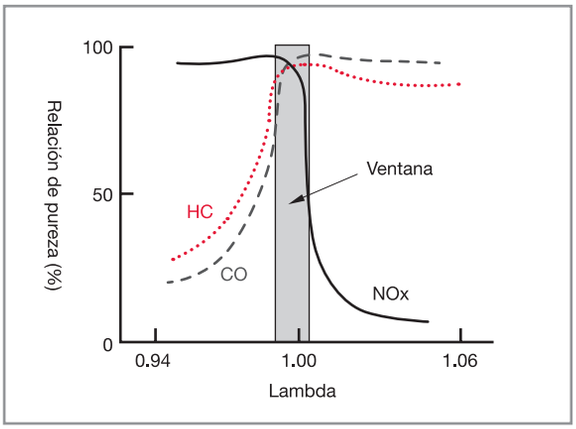


Fig. 3: Eficiencia del catalizador.

P6: ¿Por qué algunos vehículos incorporan más de una sonda Lambda?

R: Muchos vehículos fabricados recientemente incorporan una segunda sonda Lambda montada después del catalizador (sonda Lambda post-catalizador), así como una sonda Lambda instalada antes del mismo (sonda pre-catalizador). La sonda Lambda pre-cat es la sonda de control, que ayuda a la ECU a regular la relación aire/combustible. La sonda Lambda posterior post-cat es la sonda que vigila el funcionamiento del catalizador.

P7: ¿Cómo analiza la segunda sonda Lambda la eficacia del catalizador?

R: La sonda Lambda post-catalizador vigila el funcionamiento del catalizador midiendo el nivel de oxígeno presente en los gases de escape que salen del catalizador. Si la sonda obtiene una lectura de alta tensión (Fig 4), el catalizador funciona eficazmente. La razón es que si el catalizador funciona correctamente, todo el oxígeno presente en los gases de escape se consumirá por la reacción química que se produce dentro entre el oxígeno y las emisiones nocivas. Sin embargo, a medida que se desgasta el catalizador, algunos de los gases nocivos y el oxígeno no se incluirán en la reacción química y saldrán inalterados del catalizador. Por consiguiente, las lecturas de oxígeno mostradas por la sonda post-catalizador reflejarán cada vez más la señal de la sonda precatalizador, hasta que ambas muestren la misma señal (Fig 5). Esto indica un fallo del catalizador.

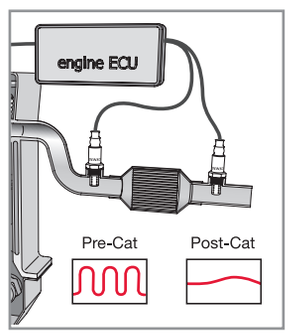


Fig 4: Salida de un catalizador totalmente funcional.

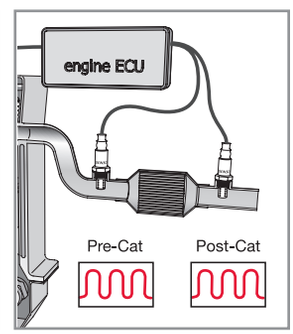


Fig 5: Salida de un catalizador defectuoso.

P8: ¿Por qué se han desarrollado los sensores A/F (aire/combustible)?

R: DENSO fue el primero del mundo en desarrollar la tecnología innovadora de los sensores de aire/combustible, ofreciendo un sensor con una salida lineal que ayuda a los vehículos a cumplir las rigurosas normas sobre emisiones a partir de la normativa EURO 3 en adelante. Este nuevo sistema utiliza el sensor de relación aire/combustible (Sensor A/F), que sustituye a la sonda Lambda convencional.

E

P9: ¿Cuál es la diferencia entre las sondas Lambda de zirconio y los sensores A/F?

R: En general, los sensores A/F son más sensibles y eficaces que las sondas Lambda de zirconio convencionales. Esto se debe al modo en que cada tipo de sensor mide la relación de aire/combustible, y las diferentes señales de salida que producen para indicar el resultado:

Relación aire/combustible

> Una **sonda de zirconio** indica si la relación aire/combustible está por encima o por debajo del valor Lambda de 1.00. La ECU del motor modifica la cantidad de combustible gradualmente hasta que la sonda indica que la mezcla vuelve a ser incorrecta. En este momento, la ECU empieza a corregir otra vez, paso a paso, en el otro sentido. Este método resulta en una corrección relativamente lenta, continuada y constante alrededor del valor Lambda de 1.00, no siendo nunca capaz de mantener el valor Lambda de 1.00 exactamente.

> Un **sensor A/F** indica el valor exacto de la relación aire/combustible. Esto significa que la ECU del motor sabe cuánto dista la relación de aire/combustible del valor Lambda de 1.00 y, por consiguiente, sabe también cuánto debe corregir la inyección de combustible. Esto permite a la ECU del motor corregir la cantidad de combustible inyectado para obtener, y mantener, un valor Lambda de 1.00 casi inmediatamente.

Señal de salida

> Una **sonda de zirconio** produce una pequeña tensión de entre 0V y 0,8V aproximadamente, conmutando de alto a bajo alrededor de un valor Lambda de 1.00 (Fig 6).

> Un **sensor A/F** produce una pequeña corriente de entre -10mA y +10mA, donde la salida es un valor estable, proporcional a la relación de aire/combustible (Fig 7).

En general, y especialmente en condiciones cambiantes (aceleraciones o deceleraciones repentinas), los sistemas dotados de una sonda de zirconio tendrán un exceso o una insuficiencia de combustible, resultando en un catalizador menos eficaz.

Con un sensor A/F, la ECU del motor notará los cambios fraccionales en la relación de aire/combustible, incluso en condiciones cambiantes. Por lo tanto, la ECU es capaz de realizar ajustes precisos, reduciendo considerablemente cualquier exceso o insuficiencia de combustible. Esto da como resultado una conversión óptima de los gases dentro del catalizador, produciendo un aire más limpio, un consumo más bajo de combustible y una mejor facilidad de conducción.

P10: ¿Qué ocurre si la sonda Lambda falla?

R: Si la sonda Lambda falla, la ECU ya no puede detectar la relación de aire/combustible, así que tiene que adivinar la cantidad de combustible que debe inyectar. Esto causará un uso menos eficiente del combustible y, por lo tanto, un consumo más alto. Además, también puede provocar que el catalizador funcione con menos eficacia, emitiendo potencialmente niveles más altos de emisiones nocivas.

P11: ¿Con cuánta frecuencia deben renovarse las sondas Lambda?

R: DENSO recomienda cambiarlas a los intervalos especificados por el fabricante del vehículo. Pero también se debe comprobar el funcionamiento y la eficacia de las sondas Lambda en cada revisión del vehículo, ya que si el motor es viejo o consume una cantidad excesiva de aceite, será necesario cambiar las sondas a intervalos más cortos que los especificados.

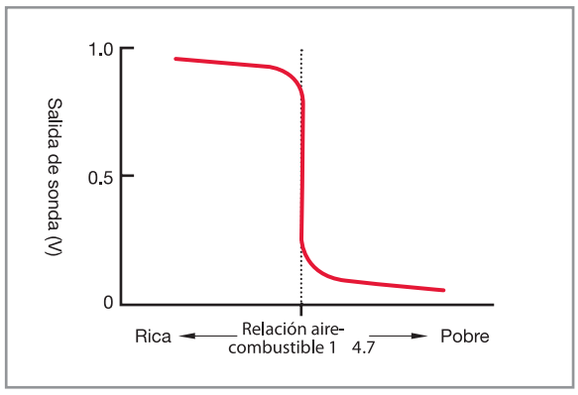


Fig 6: Salida de la sonda de zirconio.

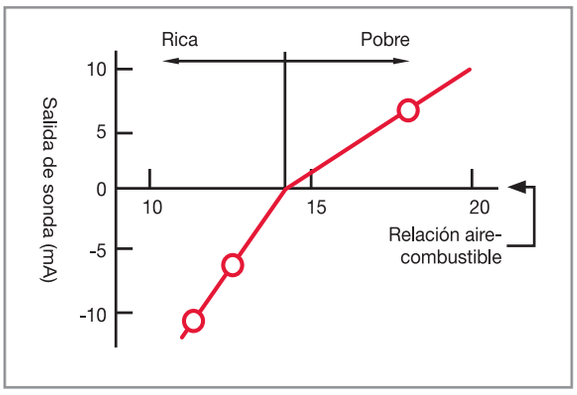


Fig 7: Salida del sensor A/F.

I

DENSO: la differenza

Progettate con precisione, prodotte secondo le più rigide norme OEM, sottoposte a rigorosi test di sicurezza e prestazioni: questi sono gli elevatissimi standard su cui si basano le sonde Lambda DENSO e l'eccezionale programma aftermarket, per le configurazioni riscaldate e non, che garantisce una perfetta corrispondenza con ogni veicolo.

Perché scegliere DENSO? Essendo uno dei maggiori creatori e produttori di pezzi e sistemi originali per veicoli, DENSO capisce la tecnologia delle sonde Lambda meglio di chiunque altro. E non siamo i soli a pensarlo; lo dicono anche le maggiori case automobilistiche! Le sonde Lambda DENSO si trovano come equipaggiamenti originari nelle Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall e in molti altri veicoli. Da quando abbiamo iniziato a produrle nel 1977, diverse centinaia di milioni di sonde Lambda DENSO misurano l'ossigeno presente nelle emissioni dei veicoli in tutto il mondo, facendo di noi uno dei maggiori produttori mondiali di sonde Lambda.

L'ingegneria avanzata, la qualità degli equipaggiamenti originari e le prestazioni superiori sono ora disponibili ai clienti dell'aftermarket nel nostro programma di sonde Lambda DENSO. Utilizziamo il nostro know-how senza pari in ogni singola sonda Lambda che produciamo.

Ecco perché, quando avete bisogno di una sonda Lambda di ricambio, c'è solo un nome da scegliere: DENSO.

Ogni sonda Lambda DENSO è soggetta a un controllo che ne assicura la qualita al 100% e che include i segnali di temperatura elevata, la tenuta d'aria, la tenuta termica e la continuità.

Le tecnologie di cui avete bisogno

Tipi di sonde

Come immaginerete, le sonde Lambda DENSO sono disponibili in una vasta gamma di applicazioni. Oltre a ciò, offrono anche tutte le tecnologie avanzate di cui avete bisogno per trovare i pezzi di ricambio della giusta qualità OEM per i vostri clienti:

> Sonde allo zirconio — Sia bombate che planari
> Sonde A/F — Sia bombate che planari
> Sonde in titanio

** per ulteriori informazioni sul funzionamento e per confrontare le sonde A/F con quelle allo zirconio, consultare la sezione Domande e Risposte sulle sonde Lambda.*

Alloggiamento delle sonde

È possibile scegliere tra due tipi di alloggiamento di qualità OE delle sonde Lambda DENSO. E con le sonde DENSO, l'alloggiamento è completo. Non c'è bisogno di aggiungere pezzi come gli adattatori a flangia!

> Alloggiamento a vite
> Alloggiamento a flangia – compresa guarnizione per flangia di qualità OE.

Installazione delle sonde

Qualunque siano le vostre esigenze, le due opzioni di installazione di DENSO vi aiuteranno a ottenere ogni volta il giusto collegamento:

> Sonda a installazione diretta ('Direct Fit') – con il connettore OEM già montato, pronto per essere installato
> Sonda a installazione universale ('Universal Fit')– senza connettore, per consentirvi di riutilizzare (e riciclare!) il connettore del pezzo vecchio.

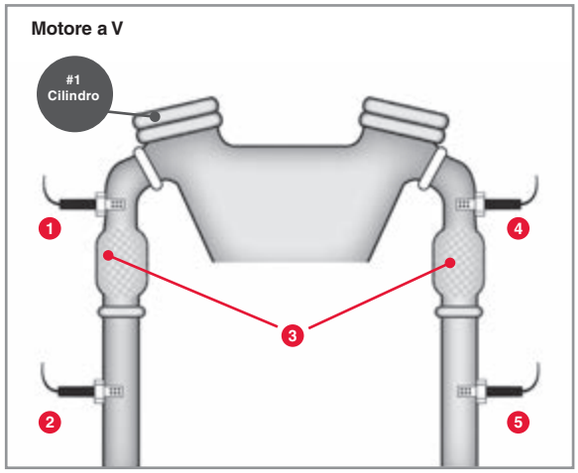
Ispezione e sostituzione della sonda

> **Con quale frequenza vanno sostituite le sonde Lambda?**
DENSO consiglia di cambiarle secondo le specifiche della casa produttrice. Ad ogni modo, l'efficienza e il funzionamento delle sonde Lambda vanno controllate ad ogni revisione del veicolo; se il motore è vecchio o mostra segni di eccessivo consumo di olio, le sonde vanno cambiate a intervalli più brevi rispetto alle specifiche.

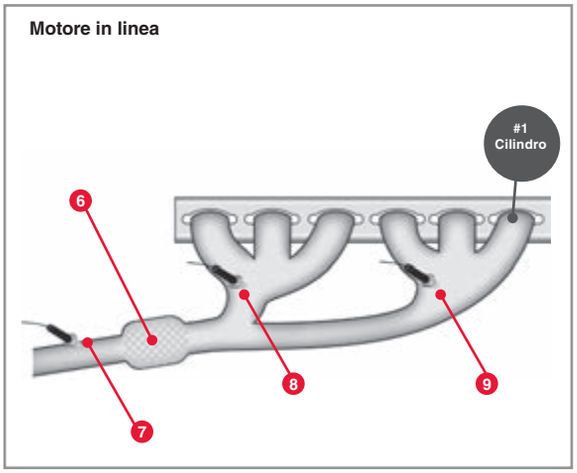
> **Perché sostituire le sonde?**
Un guasto a una sonda Lambda, che sia a causa del normale invecchiamento, dell'utilizzo di carburanti con piombo o di una contaminazione, può danneggiare la marmitta catalitica e comportare costose riparazioni. Può anche provocare un aumento delle emissioni e dei consumi e ridurre le prestazioni del motore (ad es. insufficiente accelerazione, arresto del motore e marce a vuoto.).

I

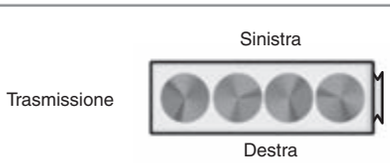
Come trovare la posizione delle sonde Lambda nel sistema di scarico



1. 1. Sonda Lambda precatalizzatore
2. Sonda Lambda post catalizzatore
3. Catalizzatore
4. Sonda Lambda precatalizzatore
5. Sonda Lambda post catalizzatore



6. Catalizzatore
7. Sonda Lambda post catalizzatore
8. Sonda Lambda precatalizzatore
9. Sonda Lambda precatalizzatore



DENSO considera la parte sinistra e destra del blocco motore viste dalla trasmissione alla puleggia dell'albero a gomito.

Avvertenza

Le illustrazioni sopra rappresentano confi gurazioni tipiche del supporto motore. Vi sono molte variazioni a seconda della marca e del modello. Consultare la lista completa delle applicazioni riportate nel catalogo per scegliere la sonda Lambda DENSO più adatta all'ubicazione di una specifi ca - applicazione.

I

Installazione diretta delle sonde Lambda

Pezzi in dotazione

Sonda Lambda, grasso al rame.

Attrezzi necessari

1. Maschio per filettatura *(M18x1,5 per la maggior parte delle sonde)*.
2. Chiave torsiometrica con inserto adatto alla sonda Lambda *(dimensioni: 22 per la maggior parte delle sonde)*.

Installazione fase per fase

1. Se necessario, pulire la filettatura nel tubo di scappamento con un maschio.
2. Applicare sulla filettatura della sonda una quantità di grasso ‘Copper + Plus’ in dotazione.

   NON INGRASSARE LA PUNTA DELLA SONDA, ma solo la filettatura.

3. Stringere la sonda fino a raggiungere la coppia indicata, utilizzando una chiave torsiometrica dotata di una presa adatta alla sonda Lambda. Attenzione a non danneggiare i fili!

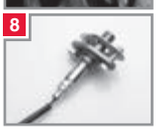
Sonde Lambda a installazione universale (reinstallazione del connettore)

Pezzi in dotazione

Sonda Lambda, grasso al rame, connettori, giunti testa a testa termoretraibili.

Attrezzi necessari

1. Pinze tagliafili.
2. Pinza spellafili.
3. Crimpatrice dentata con morsetti rossi per i terminali isolati.
4. Soffiatore ad aria calda.
5. Vite per filettatura *(M18x1,5 per la maggior parte delle sonde)*.
6. Chiave torsiometrica con inserto adatto alla sonda Lambda *(dimensioni: 22 per la maggior parte delle sonde)*.



Installazione fase per fase

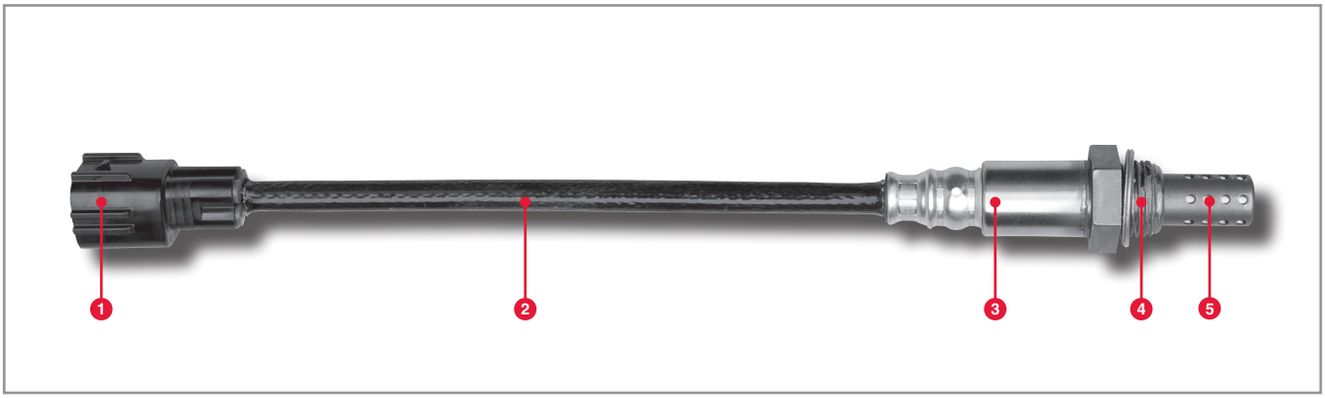
1. Tagliare i fili della nuova sonda fino a raggiungere la giusta lunghezza. IMPORTANTE: la nuova sonda con il vecchio connettore deve essere della stessa lunghezza originale della vecchia sonda e del connettore.
2. Tagliare i fili della vecchia sonda fino a raggiungere la giusta lunghezza.
3. Spellare le estremità del filo fino a raggiungere una lunghezza di 7 mm.
4. Crimpare i giunti testa a testa con una crimpatrice dentata con morsetti rossi *(dimensioni: 22 – 16)*.
5. Fare restringere l’isolamento dei giunti testa a testa con aria calda fino ad ottenere una tenuta.
6. Se necessario, pulire la filettatura del tubo di scarico con un’apposita vite.
7. Applicare sulla filettatura della sonda una quantità di grasso Copper + Plus in dotazione.

   NON INGRASSARE LA PUNTA DELLA SONDA, ma solo la filettatura.

8. Stringere la sonda fino a raggiungere la coppia indicata, utilizzando una chiave torsiometrica con una guida adatta alla sonda Lambda. Fare attenzione a non danneggiare i fili!

I

Maneggiamento e utilizzo corretti delle sonde Lambda



1. Connettore

Tenere pulito e asciutto:

> Non utilizzare grasso o spray di contatto.
> L'umidità e le sostanze estranee influenzano facilmente la sonda.

2. Cavo

Evitare il calore:

> Tenere lontano dal tubo di scappamento o da altre parti calde del veicolo.

Evitare le sollecitazioni:

> Tenere i cavi lontano dalle parti in movimento.
> I cavi non vanno tesi .
> I cavi non devono essere troppo lunghi né lasciati ciondolare, poiché potrebbero oscillare o rimanere intrappolati in altri pezzi o oggetti.

3. Corpo della sonda

Tenere pulito:

> L'estremità posteriore della sonda contiene dei fori attraverso i quali effettua la campionatura dell'aria e che devono rimanere aperti per consentire il funzionamento della sonda stessa.
> Il corpo della sonda va protetto dalla sporcizia e da improvvisi spruzzi di acqua fredda.
> Non spruzzare getti d'acqua potenti sulla sonda.
> La sonda va tenuta libera da qualsiasi tipo di rivestimento.

4. Filettatura del corpo della sonda

Ingrassare la filettatura:

> Ingrassare la filettatura con il grasso al rame in dotazione prima dell'installazione.

5. Punta della sonda

Evitare gli impatti bruschi:

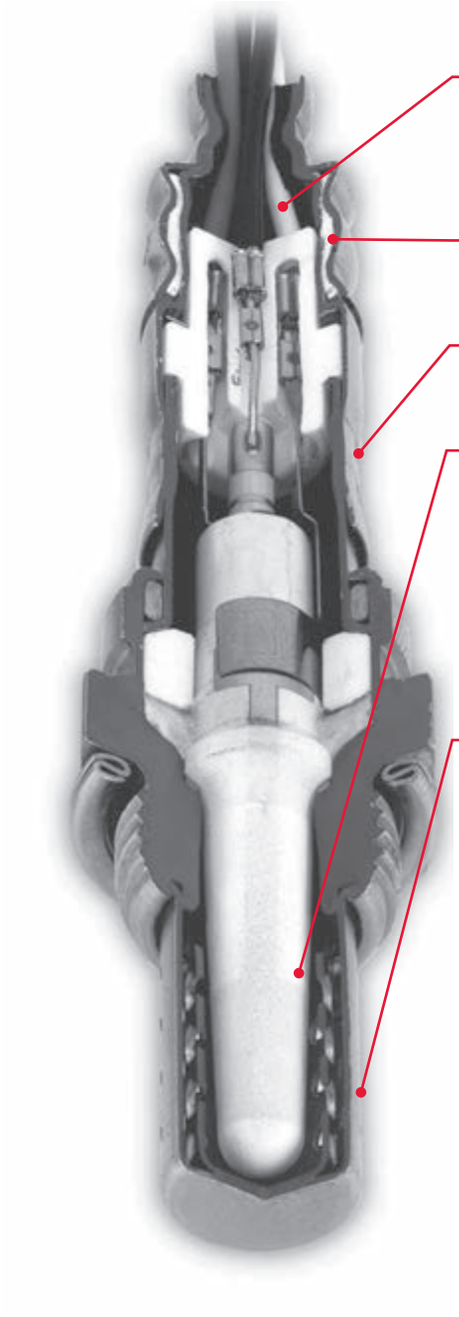
> Evitare colpi bruschi per non danneggiare il sensibile elemento in ceramica all'interno.

Evitare la contaminazione:

> Evitare qualsiasi possibile contaminazione tenendo la punta della sonda libera da sostanze estranee.
> Non spruzzare nulla sulla punta della sonda.
> Non ingrassare la punta della sonda.
> Evitare di utilizzare carburanti al piombo.
> Evitare di utilizzare additivi per carburanti.

I

Il programma per la tecnologia avanzata delle sonde Lambda



La tecnologia avanzata alla base delle sonde Lambda DENSO aumenta al massimo le prestazioni del motore e il rendimento dei consumi, riducendo allo stesso tempo le emissioni nocive.

> **Fili con anima d'acciaio:** le sonde DENSO sono dotate di fili speciali adatti alle dure condizioni provocate dal calore e dalle vibrazioni. I fili isolati in Teflon hanno un'anima in acciaio inossidabile che conferisce loro una maggiore resistenza, a sua volta circondata da fili di rame rivestiti di nichelio che contribuiscono a una buona conduttività ed una bassa resistività.

> **Filtro in PTFE poroso:** consente all'ossigeno atmosferico di entrare nella sonda senza permettere all'acqua o alle sostanze contaminanti del motore di filtrare nell'involucro.

> **Alloggiamento in acciaio inossidabile:** resistente alla corrosione e alla contaminazione, grazie alla robustezza e alla tenuta d'acqua.

> **Doppio strato filtrante di ossido di alluminio:** le sonde Lambda DENSO sono dotate di un rivestimento protettivo in ossido di alluminio unico sull'elemento in ceramica, per assicurare che la sonda effettui misurazioni precise e duri a lungo. Il rivestimento aiuta a filtrare la contaminazione fuori dai gas di scarico, evitando l'entrata di sostanze inquinanti indesiderate nell'elemento in ceramica, l'otturazione precoce dell'elemento della sonda e/o danni all'elettrodo al platino (particolarmente importante per le auto che utilizzano carburante di bassa qualità). Pertanto, lo strato filtrante di ossido di alluminio contribuisce attivamente all'ottimizzazione delle emissioni, all'economia dei consumi, alle prestazioni del motore e a evitare danni al motore.

> **Copertura di protezione doppia** (su tutte le sonde): mantiene la giusta temperatura unitaria per tempi di risposta più rapidi e protegge l'elemento in ceramica da contaminazioni di piombo e silicone.

La soluzione al dilemma della qualità del carburante

I carburanti contaminati o di bassa qualità possono avere un effetto avverso sulla durata di vita e sulle prestazioni delle sonde Lambda, ma le sonde DENSO offrono la soluzione.

Qual è la causa del problema? Il carburante può essere contaminato dagli additivi contenuti nell'olio per il motore, come i detergenti-disperdenti o i lubrificanti, additivi della benzina, composti sigillanti nelle parti del motore e depositi di petrolio greggio dopo la desolforizzazione. Il carburante contaminato può rilasciare esalazioni velenose oltre 700 gradi Celsius, otturando o contaminando gli elettrodi della sonda Lambda. È una delle cause più comuni di guasti precoci alla sonda Lambda.

La progettazione avanzata delle sonde Lambda DENSO elimina tale rischio. Il doppio strato filtrante di ossido di alluminio, unico nel suo genere, che applichiamo intorno all'elemento in ceramica della sonda, la protegge dai carburanti problematici, mantenendone la durata di vita e l'efficienza delle prestazioni.

I

Come riconoscere i tipi di sonde Lambda dal colore dei fili

Il modo più semplice di riconoscere le sonde Lambda di qualsiasi marchio consiste nel controllare il colore dei fili. Utilizzare la tabella di seguito per trovare il giusto pezzo di ricambio DENSO.

SONDE LAMBDA ALLO ZIRCONIO

Tabella cromatica dei fili:

	OE Lambda sensore 1	OE Lambda sensore 2	OE Lambda sensore 3	OE Lambda sensore 4	OE Lambda sensore 5
Calentador +	Nero	Viola	Bianco	Marrone	Nero
Calentador -	Nero	Bianco	Bianco	Marrone	Nero
Sensore +	Blu	Nero	Nero	Viola	Verde
Sensore -	Bianco	Grigio	Grigio	Beige	Bianco

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
Calentador +	Nero	Viola
Calentador -	Nero	Bianco
Sensore +	Blu	Nero
Sensore -	Bianco	Grigio

Tabella funzioni fili:

	Riscaldatore +	Massa riscaldatore	Sonda +	Massa sonda
1 Filo	-	-	Y	Involucro sonda
2 Filo	-	-	Y	Y
3 Filo	Y	Y	Y	Involucro sonda
4 Filo	Y	Y	Y	Y

Nelle sonde Lambda di titanio a 3 e 4 fili, di solito ogni filo è di un colore diverso. Le sonde di titanio DENSO sono un'eccezione poiché hanno due fili neri e due grigi.

SONDE LAMBDA DITITANIO

Tabella cromatica dei fili:

	Riscaldatore +	Massa riscaldatore	Sonda +	Massa sonda
DENSO	Nero	Nero	Grigio	Grigio
Marchio 1	Rosso	Bianco	Giallo	Nero

I

Guida ai guasti più comuni delle sonde Lambda, cause e soluzioni

Per capire se una sonda Lambda funziona bene, è essenziale effettuare un'ispezione visiva completa e un test di funzionamento.

1. Controllare che il connettore e il conduttore non siano danneggiati, poiché ciò potrebbe incidere sul segnale della sonda.

2. Controllare che sul manicotto protettivo della sonda non vi siano segni che possano rivelare la presenza di ammaccature o crepe all'interno. Affinché funzioni correttamente, è importante che l'elemento della sonda sia intatto.

3. Controllare che il connettore sia pulito, intatto e a tenuta d'acqua, e che non riporti segni di grasso, lubrificanti o sostanze chimiche che possono interferire con i segnali in uscita della sonda, che sono delicati e sensibilissimi alla contaminazione.

Normale

Aspetto:
> La sonda non presenta residui ed è di colore spento.

Causa:
> La combustione del motore è pulita perché è stata effettuata la giusta manutenzione preventiva.

Contaminazione da antigelo

Aspetto:
> Colore bianco-grigiastro eccessivamente granuloso, con possibili depositi verdastri.

Causa:
> Contaminazione dovuta alla presenza di fluido refrigerante nei cilindri del motore.

Soluzione:
> Controllare il sistema di raffreddamento del motore, in particolar modo la guarnizione della testa cilindri, per verificare l'eventuale presenza di perdite e, se necessario, riparare.
> Sostituire la sonda.

Contaminazione da olio

Aspetto:
> Eccesso di depositi di colore grigio scuro o nero.

Causa:
> Contaminazione dovuta a un eccessivo consumo di olio.

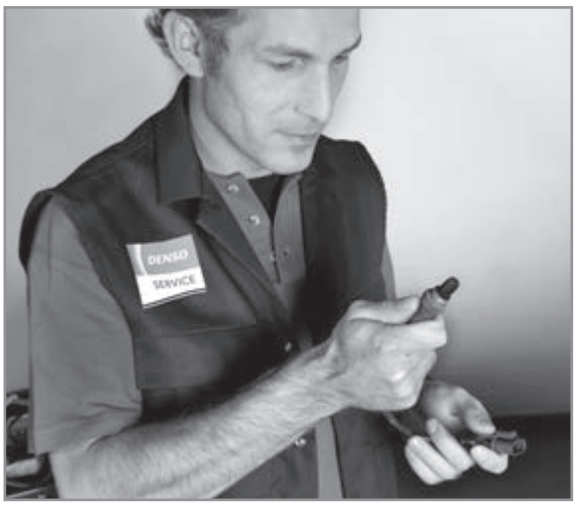
Soluzione:
> Controllare il motore per verificare l'eventuale presenza di perdite di olio o usura e, se necessario, riparare.
> Sostituire la sonda.

Contaminazione da miscela troppo ricca

Aspetto:
> Eccesso di fuliggine di colore marrone scuro o nero.

Causa:
> Contaminazione dovuta a una scorretta o ricca miscela aria/ carburante la cui causa potrebbe essere un danno al riscaldatore della sonda o un guasto al sistema di alimentazione.

Soluzione:
> Controllare il sistema di alimentazione e misurare i gas di scarico
> Verificare il sistema di controllo del riscaldatore della sonda Lambda e il riscaldatore stesso, in caso di sonda riscaldata (3 o più fili).
> Riparare il difetto.
> Sostituire la sonda.



Contaminazione da additivi

Aspetto:
> Eccesso di depositi di colore bianco o rosso.

Causa:
> Contaminazione dovuta all'utilizzo di additivi eccessivi o dannosi. Certi ingredienti contenuti negli additivi per carburanti possono contaminare l'elemento della sonda. Durante la combustione nel motore, emettono esalazioni che contaminano e/o otturano l'elemento della sonda.

Soluzione:
> Pulire il motore e/o il sistema di alimentazione per rimuovere gli additivi.
> Sostituire la sonda.

Contaminazione da piombo

Aspetto:
> Depositi lucidi di colore grigio scuro.

Causa:
> Contaminazione dovuta all'impiego di carburante con piombo.
> Il piombo attacca il platino presente sia sull'elemento della sonda che sul catalizzatore.

Soluzione:
> Rimuovere il carburante al piombo dal veicolo e sostituirlo con carburante senza piombo.
> Sostituire la sonda.

IMPORTANTE: controllo successivo
Una sonda Lambda contaminata va sostituita in ogni caso. Ad ogni modo, una volta sostituita la sonda, è anche importante controllare il funzionamento della marmitta catalitica, poiché la contaminazione può anche ridurne la capacità.

I

Le domande più frequenti e le risposte del team tecnico DENSO

D1: Qual è il ruolo delle sonde Lambda?

R: Per ridurre le emissioni, le auto moderne sono progettate in modo tale da controllare attentamente la quantità di carburante che bruciano. La sonda Lambda (o sensore di ossigeno) è una componente cruciale di questo processo poiché, lavorando insieme al sistema di iniezione del carburante dell'auto, alla marmitta catalitica e all'unità di controllo elettronico (ECU), consente di ridurre al minimo le esalazioni nocive del motore monitorando la percentuale di ossigeno non bruciato presente nei gas di scarico dell'auto. Questi dati sono inviati all'ECU dell'auto che, a sua volta, regola la miscela aria/carburante. La giusta miscela aria/carburante consente alla marmitta catalitica di funzionare in maniera efficiente. Questo sistema di pulizia dei gas di scappamento rimuove dal sistema di scarico la maggiore quantità possibile di emissioni nocive prima che fuoriescano dall'auto.

D2: Dove si trovano le sonde Lambda?

R: Ogni auto nuova, nonché la maggior parte delle auto fabbricate dal 1980 in poi, ha una sonda Lambda, che si trova nel tubo di scappamento, prima della marmitta catalitica, dove misura l'ossigeno presente nei gas di scarico, informa l'ECU e le consente di calcolare le regolazioni da fare alla miscela aria/carburante. L'esatta ubicazione delle sonde Lambda varia a seconda che il veicolo abbia un sistema di scarico di tipo V o in linea e a seconda della marca e del modello. Alcune configurazioni tipiche di supporto motore sono riportate nella sezione UBICAZIONE del presente catalogo.

D3: Come funzionano esattamente le sonde Lambda?

R: Le sonde Lambda operano insieme al sistema di iniezione del carburante del veicolo, alla marmitta catalitica e al sistema di gestione del motore o unità di controllo elettronico (ECU) (Fig. 1), per ridurre al minimo le emissioni nocive per l'ambiente che provengono dal motore:

> La sonda Lambda controlla la percentuale di ossigeno non bruciato presente nei gas di scarico dell'auto.

> A seconda del contenuto di ossigeno nei gas di scarico (se troppo alto, la miscela è povera, se è troppo basso, la miscela è ricca) la sonda Lambda trasmette all'ECU un segnale di tensione altamente variabile.

> L'ECU risponde a queste informazioni regolando la miscela aria/carburante che entra nel motore L'obiettivo è di mantenere il rapporto aria/carburante molto vicino al punto stechiometrico, ossia il rapporto ideale calcolato aria/carburante che entra nel motore. In teoria, a questo rapporto, tutto il carburante viene bruciato utilizzando quasi tutto l'ossigeno presente nell'aria. La quantità di ossigeno rimanente deve essere tale da consentire il funzionamento efficiente della marmitta catalitica.

> La marmitta catalitica quindi tratta le emissioni dei gas di scarico prima che queste escano dall'auto. La maggior parte delle auto moderne è dotata di marmitta catalitica trivalente, così chiamata poiché aiuta a ridurre le tre emissioni (nocive) regolamentate: le molecole di ossido di carbonio (CO), di idrocarburi non bruciati (HC), e di ossido di azoto (NOx). La quantità esatta di ossigeno presente nei gas di scarico è importante per la marmitta catalitica, poiché incide sulla sua capacità di rimuovere queste emissioni nocive dai gas di scarico. La giusta quantità di ossigeno provoca una reazione chimica tra i gas nocivi e l'ossigeno grazie alla quale dalla marmitta catalitica escono gas innocui. Se la marmitta funziona come dovrebbe, tutto l'ossigeno presente nei gas di scarico viene consumato da questa reazione chimica.

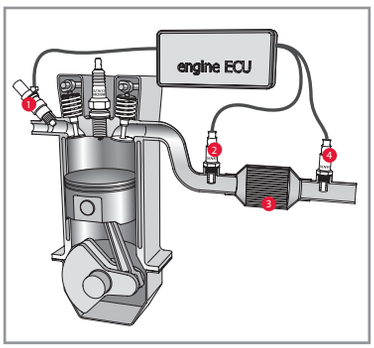


Fig1: Motore con sonde e marmitta catalitica.

1. Iniettore del combustibile
2. Sonda Lambda precatalizzatore
3. Marmitta catalitica
4. Sonda Lambda post catalizzatore

I

D4: Come viene regolata la miscela aria/carburante?

R: Quando la sonda Lambda rileva il livello di ossigeno presente nei gas di scarico, l'ECU riceve il segnale in uscita della sonda e decide se la miscela ha un giusto rapporto aria/carburante. La quantità di carburante iniettato viene regolata attraverso il controllo della compensazione del feedback del tempo d'iniezione. Quando la miscela è troppo ricca, l'iniezione di carburante viene ridotta. Quando la miscela è troppo povera, il volume d'iniezione del carburante viene incrementato (Fig 2). L'obiettivo è di convogliare nel motore il rapporto ideale aria/carburante (il punto stechiometrico).

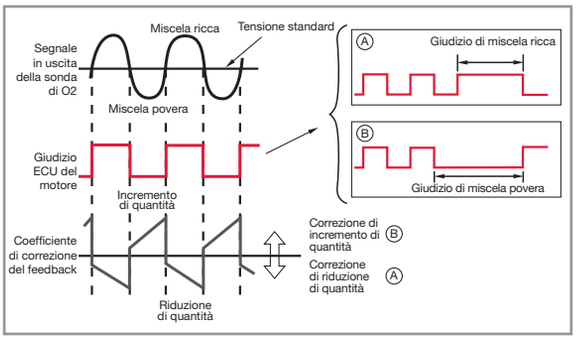


Fig2: Il segnale in uscita della sonda Lambda controlla il rapporto aria /carburante e indica all'ECU come regolare il tasso di iniezione del carburante.

D5: Qual è il rapporto stechiometrico ideale?

R: Per la benzina, il rapporto stechiometrico o di purificazione è di circa 14.7 a 1 (equivalente a Lambda 1.00). Ciò significa che per ogni libbra di carburante vengono bruciate 14,7 libbre d'aria (Fig 3). Quando l'auto è in movimento, la miscela di carburante varia abbastanza rispetto al rapporto ideale; ecco perché va monitorata e regolata. A volte la miscela può essere povera (un rapporto aria/ carburante maggiore di 14.7) e a volte ricca.

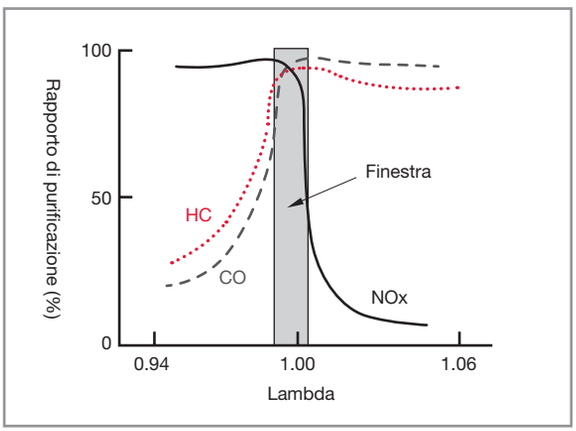


Fig. 3: Rapporto di purificazione della marmitta catalitica.

D6: Perché certi veicoli hanno più di una sonda Lambda?

R: Molti veicoli fabbricati recentemente hanno una seconda sonda Lambda montata dopo la marmitta catalitica (sonda Lambda post catalizzatore) e una prima (sonda Lambda precatalizzatore). La sonda Lambda precatalizzatore è la sonda di controllo, che aiuta l'ECU del motore a controllare il rapporto aria/carburante. La sonda Lambda postcatalizzatore posteriore è quello che controlla il funzionamento della marmitta catalitica.

D7: Come analizza la seconda sonda Lambda l'efficienza della marmitta catalitica?

R: La sonda Lambda postcatalizzatore controlla il funzionamento della marmitta catalitica misurando il livello di ossigeno presente nei gas di scarico che fuoriescono dalla marmitta stessa. Se la sonda rileva una tensione alta (Fig 4), significa che la marmitta catalitica funziona bene poiché, in questo caso, tutto l'ossigeno nei gas di scarico viene consumato dalla reazione chimica che ha luogo tra l'ossigeno e le emissioni nocive. Tuttavia, l'usura della marmitta catalitica fa sì che alcuni dei gas nocivi e l'ossigeno non partecipino alla reazione chimica ed escano dalla marmitta inalterati. Pertanto, la rilevazione dell'ossigeno da parte della sonda postcatalizzatore rispecchierà sempre di più il segnale della sonda precatalizzatore, fino a quando entrambi non mostrano lo stesso segnale (Fig 5). Ciò indica un difetto nella marmitta catalitica.

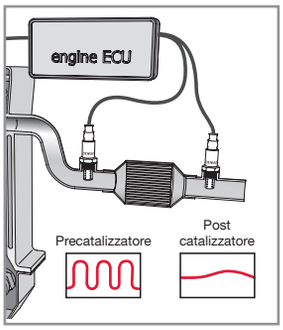


Fig 4: Segnale in uscita da marmitta catalitica funzionante.

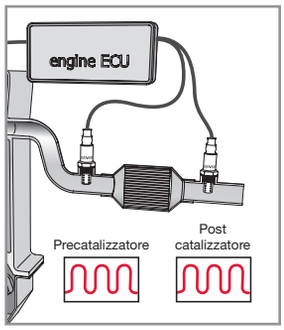


Fig 5: Segnale in uscita da marmitta catalitica difettosa.

D8: Perché sono state sviluppate sonde A/F (aria/ carburante)?

R: la tecnologia delle sonde A/F è un'innovazione introdotta per la prima volta al mondo da DENSO, che offre una sonda con un segnale in uscita lineare che aiuta i veicoli a rispettare le sempre più rigorose normative in materia di emissioni da EURO 3 in poi. Questo nuovo sistema utilizza la sonda di rapporto aria/combustibile (sonda A/F) anziché la sonda Lambda convenzionale.

I

D9: Qual è la differenza tra le sonde lambda allo zirconio e le sonde A/F?

R: Generalmente le sonde A/F sono più sensibili ed efficienti delle sonde Lambda convenzionali allo zirconio. Ciò è dovuto al modo in cui ogni tipo di sonda misura il rapporto aria/carburante e ai diversi segnali in uscita che produce per indicare il risultato:

Rapporto aria/carburante

> Una **sonda allo zirconio** indica se il rapporto aria/carburante è maggiore o minore di Lambda 1.00. L'ECU del motore altera la quantità del carburante fase per fase, fino a quando la sonda non indica che la miscela è di nuovo quella sbagliata. A questo punto, l'ECU inizia a correggere di nuovo, fase per fase, nell'altra direzione. Tale metodo comporta una correzione relativamente lenta e costante attorno al Lambda 1.00, poiché non è mai in grado di mantenere Lambda al valore esatto di 1.00.

> Una **sonda A/F** indica l'esatto valore del rapporto aria/carburante. Ciò significa che l'ECU del motore sa quanto manca affinché il rapporto aria/carburante raggiunga Lambda 1.00 e, pertanto, sa anche di quanto ha bisogno per correggere l'iniezione di carburante. Ciò consente all'ECU del motore di correggere la quantità di carburante iniettata per ottenere e mantenere un Lambda di 1.00 quasi subito.

Segnale in uscita

> Una sonda allo zirconio eroga una piccola tensione (tra 0V e 0,8V circa) passando da valori bassi a valori alti, attorno a un Lambda di 1.00 (Fig 6).

> Una sonda A/F eroga una piccola quantità di corrente (tra 10mA e +10mA) dove il valore in uscita è stabile e proporzionale al rapporto aria/carburante (Fig 7).

Complessivamente, soprattutto in condizioni variabili (accelerazioni o decelerazioni improvvise), i sistemi con una sonda allo zirconio hanno una sottoscillazione o sovraoscillazione nel carburante, che rende la marmitta catalitica meno efficiente.

Con una sonda A/F, l'ECU del motore nota dei cambiamenti irrilevanti nel rapporto aria/carburante anche in condizioni variabili. L'ECU è quindi in grado di effettuare regolazioni precise, riducendo considerevolmente eventuali sottoscillazioni o sovraoscillazioni nel carburante. Ciò produce una conversione di gas ottimale all'interno della marmitta catalitica, che, a sua volta, consente di ottenere aria più pulita, minori consumi e una migliore maneggevolezza dell'auto.

D10: Cosa succede se una sonda Lambda diventa difettosa?

R: In questo caso l'ECU, non riuscendo più a rilevare il rapporto aria/carburante, deve indovinare la quantità di carburante da iniettare. Ciò provoca un impiego di carburante meno efficiente e, pertanto, maggiori consumi. Inoltre, può ridurre l'efficienza della marmitta catalitica e potrebbe anche portare a livelli più elevati di emissioni nocive.

D11: Con quanta frequenza vanno cambiate le sonde Lambda?

R: DENSO consiglia di cambiarle secondo le specifiche della casa produttrice. Ad ogni modo occorre controllarne il funzionamento e l'efficienza ogni ad ogni revisione del veicolo; se il motore è vecchio o mostra segni di eccessivo consumo di olio, le sonde vanno cambiate a intervalli più brevi rispetto alle specifiche.

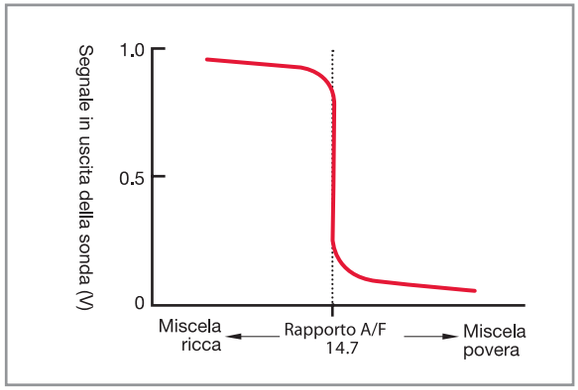


Fig. 6: Segnale in uscita della sonda allo zirconio.

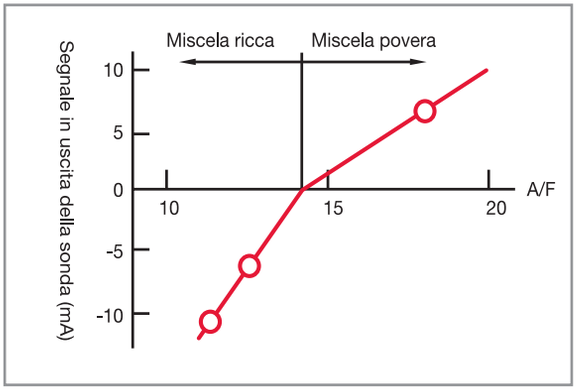


Fig. 7: Segnale in uscita della sonda A/F.

SE

Skillnaden med DENSO

Konstruerade med precision. Tillverkade i absolut originalkomponentkvalitet. Säkerhet och prestanda utprovade i noggranna tester. Det här är de stränga krav som ligger till grund för DENSO:s lambdasonder - ett överlägset eftermarknadssortíment med uppvärmda och ouppvärmda enheter som garanterat alltid passar alla fordon.

Varför välja DENSO? Som en av världens främsta utvecklare och tillverkare av originalkomponenter och system till fordon är DENSO bättre än någon annan på lambdasondteknik. Det är inte bara som vi tycker – ledande fordonstillverkare håller med! Du hittar DENSO:s lambdasonder originalmonterade i Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall och många andra fordon. Faktum är att flera hundra miljoner originalmonterade DENSO lambdasonder har mätt syret i fordonsavgaser runt hela världen sedan företaget började tillverka dem 1977, vilket gör DENSO till en av världens ledande tillverkare av lambdasonder. Nu finns denna avancerade komponent, med överlägsna prestanda och i originalkvalitet, tillgänglig på eftermarknaden i DENSO:s lambdasondsortiment. Vi bygger in vårt överlägsna kunnande i varje lambdasond som vi tillverkar.

Det är därför som det bara finns ett namn att välja när du behöver byta ut en lambdasond: DENSO.

Alla DENSO:s lambdasonder kontrolleras så att kvaliteten är 100 % avseende överhettningssignal , lufttäthet, förbindelse i elkretsar och värmarmotstånd.

Tekniken du behöver

Sondtyper

Precis som du kan förvänta dig finns DENSO:s lambdasonder till många olika fordonsmodeller. Men de innehåller också all avancerad teknik som krävs, så att dina kunder kan få precis rätt reservdel i originalkvalitet:

> Zirkoniumsonder Både fingerborgsformade och plana
> Luft-bränslesonder Både fingerborgsformade och plana
> Titansonder

**Mera information om funktionen och en jämförelse mellan zirkonium- och luft-bränslesonder finns i avsnittet med frågor och svar om lambdasonder i katalogen.*

Sensorhöljen

Höljen till DENSO:s lambdasonder finns i två utföranden, båda i originalkvalitet. Och till DENSO:s sonder är höljet komplett. Det behövs inga kompletterande delar som t.ex. flänsadaprar!

> Skruvhölje
> Hölje med fläns - inklusive flänspackning i originalkvalitet

Montering

Oavsett hur hur sonden ska monteras blir det rätt varje gång med DENSO:s två monteringsalternativ:

> Direktmontering – med originalkontakt och klar för montering
> Universell – utan kontakt så att du kan återanvända (och återvinna!) den gamla komponentens kontakt

Inspektion och utbyte

> **Hur ofta bör lambdasonden bytas ut?**
DENSO rekommenderar utbyte så ofta som fordonstillverkaren anger. Men lambdasonder bör också kontrolleras med avseende på funktion och effektivitet vid varje service – på gamla motorer och motorer som visar tecken på onormalt hög oljeförbrukning behöver lambdasonden bytas oftare.

> **Varför byta?**
Fel på lambdasonden – orsakade av normalt åldrande, körning på blybränsle eller föroreningar – kan leda till skador på katalysatorn och dyrbara reparationer. Trasiga lambdasonder kan också ge högre utsläpp, högre bränsleförbrukning och sämre motorprestanda, som sämre acceleration, stopp och ojämn tomgång.

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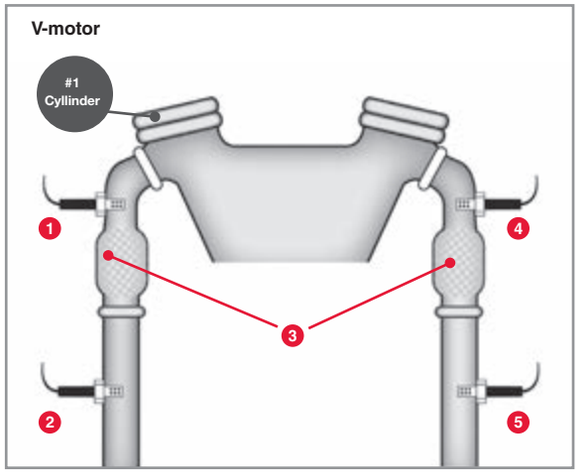
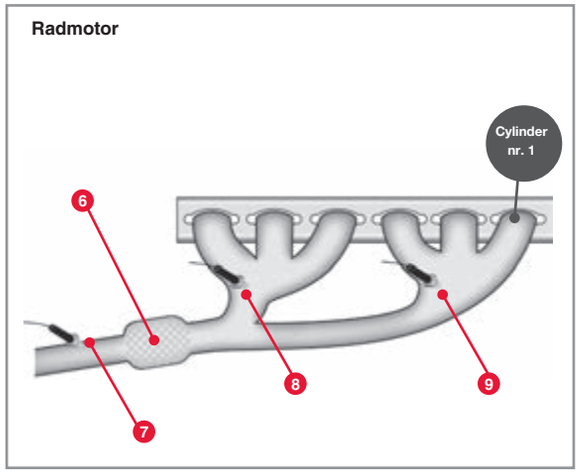
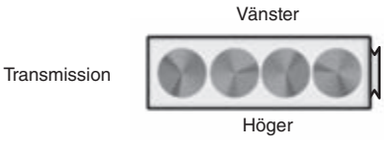
Placering av lambdasonder i avgassystemet





1. Lambdasond före katalysatorn
2. Lambdasond efter katalysatorn
3. Katalysator
4. Lambdasond före katalysatorn
5. Lambdasond efter katalysatorn

6. Katalysator
7. Lambdasond efter katalysatorn
8. Lambdasond före katalysatorn
9. Lambdasond före katalysatorn



DENSO anger vänster och höger sida på motorblocket sett från transmissionen mot vevaxelns remskiva.

Varning

Bilderna ovan är typexempel på montering. Det finns många variationer beroende på tillverkare och modell. Studera den fullständiga listan med fordonsmodeller och välj utifrån denna rätt DENSO lambdasond för en given modell och placering.

SE

Direktmontering

Ingående komponenter
Lambdasond, kopparfett.

Verktyg som krävs
1. Gängrensare
   (size M18x1,5 för de flesta sonder).
2. Momentnyckel med passande hylsa.
   (storlek 22 för de flesta sonder).

Monteringssteg
1. Rensa vid behov gängorna i avgasröret med gängrensaren
2. Stryk på medföljande Copper + Plus på sondgängan.

   FETTA INTE IN SONDSPETSEN.
   Stryk bara på fett på sondgängan.

3. Dra åt sonden till föreskrivet åtdragningsmoment med en momentnyckel och passande hylsa.
   Se till att inte ledningarna skadas!

Universalutförande (återanvändning av kontakten)

Ingående komponenter
Lambdasond, kopparfett, kontakter, skarvkontakter med krympisolering.

Verktyg
1. Avbitartång.
2. Avskalningsverktyg.
3. Krimpverktyg med röd insats för isolerade kabelskarvar.
4. Varmluftpistol.
5. Gängrensare *(storlek 22 för de flesta sonder).*
6. Momentnyckel med passande hylsa *(storlek 22 för de flesta sonder).*

Monteringssteg
1. Kapa ledningarna på den nya sonden till rätt längd. VIKTIGT: Den nya sonden med gamla kontakten monterad måste ha samma längd som den gamla sonden hade med kontakt.
2. Kapa ledningarna på den gamla sonden till rätt längd.
3. Skala av 7 mm av isoleringen på ledningarna.
4. Kläm på skarvkontakterna med krimptången med röd insats *(storlek 22 –16).*
5. Krymp isoleringen på skarvarna med varmluft tills de tätar.
6. Rensa vid behov gängorna i avgasröret med gängrensaren.
7. Stryk på lite av medföljande Copper + Plus på sondgängan.

   FETTA INTE IN SONDSPETSEN.
   Stryk bara på fett på sondgängan.

8. Dra åt sonden till föreskrivet åtdragningsmoment med en momentnyckel och passande hylsa.
   Se till att inte ledningarna skadas!

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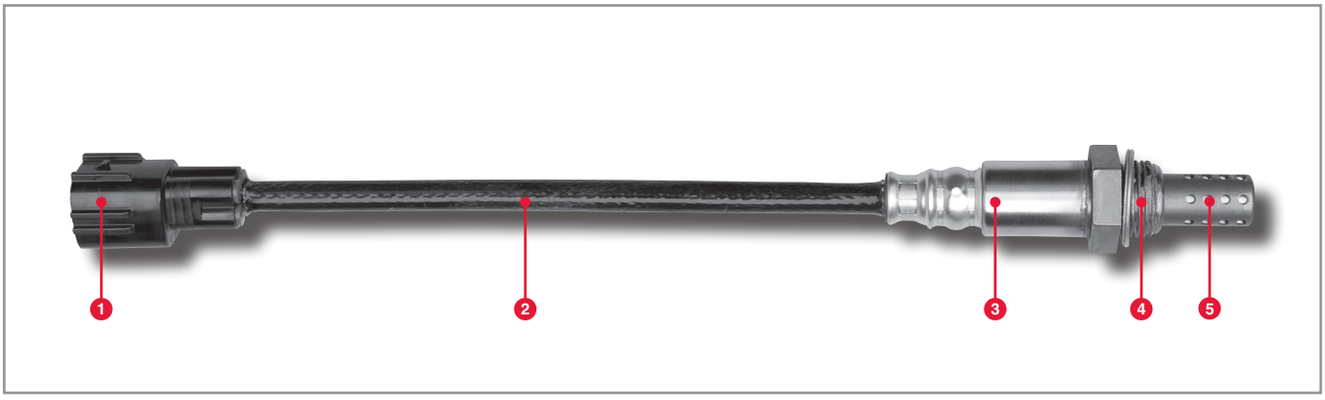
Rätt sätt att hantera och använda lambdasonder



1. Kontakt

Håll den ren och torr:

> Använd inte fett eller kontaktsprej av någon typ.
> Fett och andra främmande material påverkar lätt sonden

2. Kablage

Undvik värme:

> Dra ledningarna på avstånd från avgasröret och andra heta delar på fordonet.

Undvik påkänningar:

> Dra kablaget på avstånd från rörliga delar.
> Undvik dragspänningar i kablaget.
> Låt inte ledningarna hänga fritt: de kan röra sig och fastna i andra komponenter och föremål.

3. Sondhölje

Håll sonden ren:

> Bakänden på sonden är försedd med hål som den andas genom och tar prover av uteluften. Hålen måste hållas öppna för att sonden ska fungera.
> Skydda sonden mot smuts och plötsliga stänk av kallt vatten.
> Spruta inte sonden med högtryckstvätt.
> Håll sonden ren från beläggningar.

4. Sondgänga

Fetta in gängan:

> Fetta in gängan med medföljande kopparfett innan den monteras.

5. Sondspets

Undvik slag och stötar:

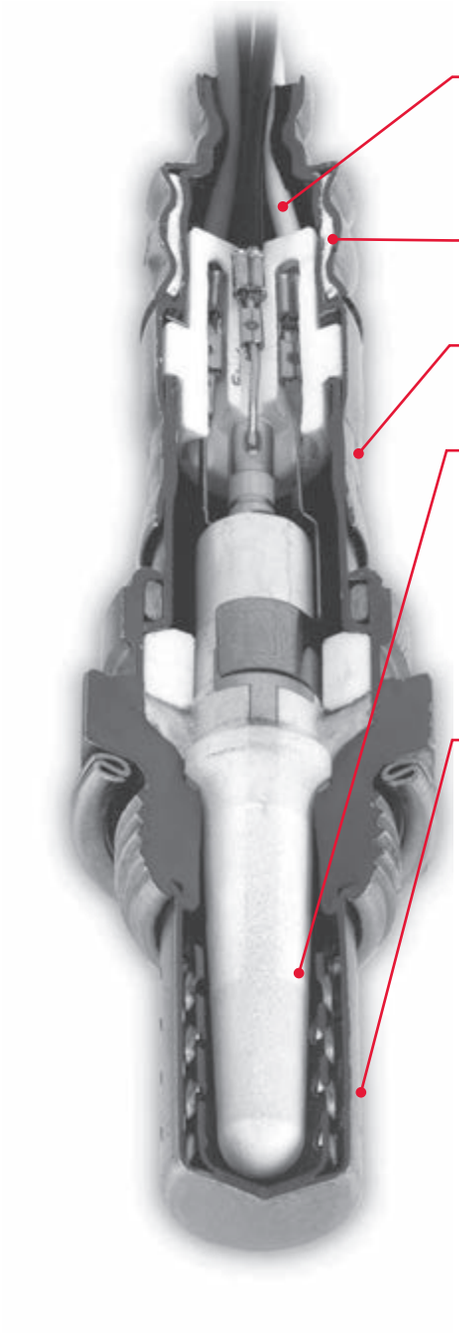
> Undvik slag och stötar som kan skada det känsliga keramikelementet inuti sonden.

Undvik föroreningar:

> Undvik alla eventuella föroreningar genom att hålla sondspetsen fri från främmande material.
> Spreja inte sondspetsen med någonting.
> Fetta inte in sondspetsen.
> Undvik att köra på blyat bränsle.
> Använd inte bränsletillsatser.

SE

Så här ser överlägsen lambdasondteknik ut



DENSO:s högt utvecklade lambdasonder maximerar motorprestanda och bränsleeffektivitet samtidigt som skadliga utsläpp minimeras

> **Ledare med stålkärna:** DENSO:s sonder är försedda med specialledare, anpassade för tuffa förhållanden med värme och vibrationer. De teflonisolerade ledarna har en stålkärna som ger extra styrka, vilken omges av förnicklade koppartrådar som ger bra ledningsförmåga och lågt motstånd.

> **Poröst PTFE-filter:** Släpper in luftens syre i sonden men förhindrar att vatten och föroreningar från motorn läcker in i höljet.

> **Hölje av rostfritt stål:** Ett robust och vattentätt hölje som inte korroderar och som tål föroreningar.

> **Dubbelt skyddslager av aluminiumoxid:** DENSO:s lambdasonder har ett unikt skyddslager av aluminiumoxid på keramikelementet så att sonden ger korrekta mätvärden och får lång livslängd. Beläggningen filtrerar bort föroreningar ur avgaserna, håller keramikelementet rent från oönskade föroreningar, förhindrar att sondelementet sätts igen och/eller att platinaelektroden skadas (särskilt viktigt för bilar som körs på bränsle av låg kvalitet). Aluminiumoxidskyddet spelar därför en aktiv roll för att ge optimala värden för utsläpp, bränsleekonomi, och prestanda, tillsammans med ett optimalt skydd mot motorskador.

> **Dubbel skyddskåpa (på alla sonder):** Upprätthåller rätt temperatur i enheten, vilket ger kortare svarstider och skyddar keramikelementet mot kisel- och blykontaminering.

Lösningen på problemet med bränslekvaliteten

Bränsle med låg kvalitet och förorenat bränsle kan påverka lambdasondens livslängd och prestanda negativt - DENSO:s sonder är lösningen.

Vad orsakar problemet? Bränsle kan förorenas av motoroljetillsatser som rengöringsmedel eller smörjtillsatser; bensintillsatser; tätningsmedel på motorkomponenter ,och råoljeutfällningar efter avsvavling. Förorenat bränsle kan avge giftiga ångor om det upphettas till över 700 °C, vilket påverkar lambdasonden genom att elektroden sätts igen eller kontamineras. Detta är en vanlig orsak till fel på de tidiga lambdasonderna.

DENSO:s sonder är så avancerat konstruerade att denna fara undanröjts. Det unika dubbla skyddsskiktet av aluminiumoxid som omger sondens keramiska element skyddar mot dåligt bränsle, förlänger livslängden och ger bättre prestanda.

SE

Identifiera lambdasonder med hjälp av ledningsfärgen

Det är enkelt att få reda på typen av sond med med hjälp av färgen på lambdasondens ledningar, oavsett tillverkare. I tabellen nedan anges rätt DENSO-reservdel.

ZIRKONIUM-SONDER

Ledningsfärger:

	OE Lambda sensor 1	OE Lambda sensor 2	OE Lambda sensor 3	OE Lambda sensor 4	OE Lambda sensor 5
Värmare +	Svart	Lila	Vit	Brun	Svart
Värmare -	Svart	Vit	Vit	Brun	Svart
Sensor +	Bla	Svart	Svart	Lila	gron
Sensor -	Vit	Gra	Gra	Beige	Vit

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
Värmare +	Svart	Lila
Värmare -	Svart	Vit
Sensor +	Bla	Svart
Sensor -	Vit	Gra

Ledningsfunktion:

	Värmare +	Sondvär-mare	Sond +	Sond Jord
1 ledare	-	-	J	Sondhölje
2 ledare	-	-	J	J
3 ledare	J	J	J	Sondhölje
4 ledare	J	J	J	J

I titansonder med tre eller fyra ledare har alla ledarna vanligen olika färger. Ett undantag är DENSO:s titansonder som har två svarta och två grå ledare.

TITANSONDER

Ledningsfärger:

	Värmare +	Sondvär-mare	Sond +	Sond Jord
DENSO	Svart	Svart	Grå	Grå
Tillverkare 1	Röd	Vit	Gul	Svart

SE

Vanliga fel på lambdasonder, orsaker och lösningar

För att få reda på om lambdasonden fungerar korrekt måste man både inspektera visuellt och göra funktionsprov.

1. Kontrollera att kontakten och ledarna inte är skadade. Skador här påverkar signalen från sonden.

2. Kontrollera om skyddshöljet på sonden är skadat vilket kan tyda på att det finns skador inuti. Det är viktigt att sondelementet är helt för att sonden ska fungera korrekt.

3. Kontrollera att kontakten är ren, hel och vattentät, och att det inte finns spår av fett, smörjmedel eller kemikalier på den. Sådant kan påverka sondens utsignal som är mycket känslig för föroreningar.

Normal

Appearance:
> Inga avlagringar på sonden, som är matt i färgen.

Orsak:
> Ren förbränning som resultat av rätt skött förebyggande motorservice.

Föroreningar från kylvätska

Utseende:
> Tjocka, korniga, gråvita och ibland grönaktiga avlagringar.

Orsak:
> Förorening på grund av att kylvätska kommit in i motorns cylindrar.

Lösning:
> Kontrollera om det finns läckor i motorns kylsystem, särskilt runt topplockspackningen, och reparera vid behov.
> Byt ut sonden.

Oljeförorening

Utseende:
> Tjocka, mörkgrå / svarta avlagringar.

Orsak:
> Förorening på grund av hög oljeförbrukning.

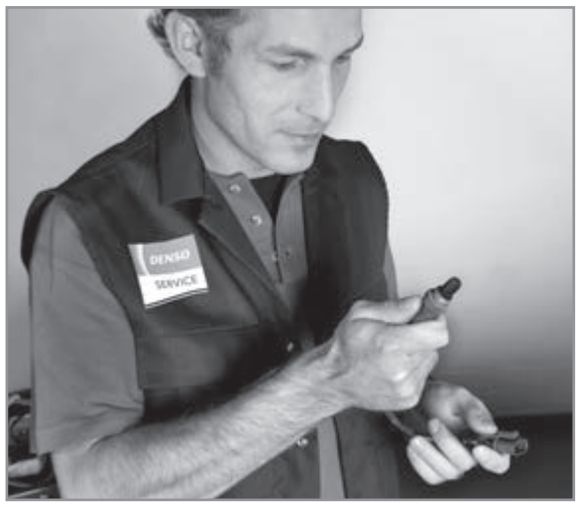
Lösning:
> Kontrollera om motorn läcker olja och reparera vid behov.
> Byt ut sonden

Rik bränsleblandning

Utseende:
> Tjockt med mörkbrunt eller svart sot.

Orsak:
> Förorening på grund av felaktig, för rik luft/bränsleblandning. Detta kan orsakas av att sondvärmaren är skadad eller på fel i bränslesystemet.

Lösning:
> Kontrollera bränslesystemet och mät avgaserna.
> Kontrollera sondvärmarstyrningen och värmaren om sonden har sådan (tre eller fler ledare).
> Reparera felet.
> Byt ut sonden.



Tillsatsföroreningar

Utseende:
> Tjocka röda eller vita avlagringar.

Orsak:
> Förorening på grund av att för mycket eller skadliga tillsatser använts. Vissa ingredienser i bränsletillsatser kan förorena sondelementet. När de förbränns i motorn kan de avge gaser som förorenar och/eller sätter igen sondelementet.

Lösning:
> Rengör motorn och/eller bränslesystemet så att tillsatserna avlägsnas.
> Byt ut sonden.

Blyförorening

Utseende:
> Blanka, mörkgrå avlagringar.

Orsak:
> Förorening på grund av att blyat bränsle använts.
> Bly angriper platinametallen som finns på sondelementet och i katalysatorn

Lösning:
> Avlägsna det blyade bränslet ur fordonet och fyll på blyfritt.
> Byt ut sonden.

VIKTIGT: Uppföljningskontroll
Förorenade lambdasonder måste alltid bytas ut. Det är också viktigt att kontrollera katalysatorns funktion när sonden bytts ut. Förorening kan också skada katalysatorn och försämra dess prestanda.

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Vanliga frågor med svar från DENSO:s tekniker

F1: Vilken roll har lambdasonden?

S: För att minska utsläppen har moderna bilar noggrann styrning av mängden bränsle som motorn förbränner. Lambdasonden (eller syresonden) är en viktig komponent i denna process. Dess uppgift är att samarbeta med bilens bränsleinsprutningssystem, katalysatorn och elektronikenheten (ECU) (bild 1), för att nå så låga utsläpp som möjligt av miljöskadliga avgaser. Lambdasonden gör detta genom att mäta procentandelen outnyttjat syre som finns i avgaserna från bilen. Mätvärdet matas in i bilens elektroniska motorstyrenhet (ECU), som anpassar luft/bränsleblandningen. Rätt luft/bränsleblandning gör att katalysatorn kan arbeta effektivt. Detta avgasreningssystem avlägsnar så mycket som möjligt av de skadliga utsläppen ur avgaserna innan de lämnar bilen.

F2: Var sitter lambdasonden?

S: Alla nya bilar och de flesta bilar som tillverkats efter 1980 har en lambdasond. Den sitter i fordonets avgasrör före katalysatorn, där den mäter syret i avgaserna och matar mätvärdena vidare till motorstyrenheten som beräknar hur luft/bränsleblandningen ska anpassas. Den exakta placeringen av lambdasonden varierar beroende på om bilen har V-motor eller rak motor och på tillverkare och modell. Några vanliga konfigurationer finns i avsnittet PLACERING i den här katalogen.

F3: Exakt hur fungerar lambdasonder?

S: Lambdasonden samarbetar med fordonets bränsleinsprutningssystem, katalysatorn och motorstyrsystemet eller elektronikstyrenheten (ECU) (bild 1) för att nå så låga miljöskadliga avgasutsläpp som möjligt.

> Lambdasonden gör detta genom att mäta procentandelen outnyttjat syre i avgaserna från bilen.

> Beroende på om syrehalten i avgaserna är för låg (mager blandning) eller för hög (rik blandning) skickar lambdasonden en snabbt växlande signalspänning till motorstyrenheten.

> Motorstyrenheten reagerar på informationen genom att justera luft/bränsleblandningen som når katalysatorn. Målet är att hålla luft/bränsleblandningen så nära stökiometriska punkten som möjligt, vilket är det beräknade ideala blandningsförhållandet mellan luft och bränsle som når katalysatorn. Teoretiskt förbränns med detta blandningsförhållande allt bränsle med utnyttjande av allt syre i blandningen. Återstående syre måste finnas i exakt rätt mängd för att katalysatorn ska arbeta effektivt.

> Katalysatorn behandlar sedan avgaserna innan de lämnar bilen. De flesta moderna bilar är utrustade med trevägskatalysatorer. Trevägs refererar till de tre reglerade (skadliga) utsläppen som den reducerar - koloxid (CO), oförbrända kolväten (HC) och kväveoxider (Nox). Den exakta mängden syre i avgaserna är viktig för katalysatorn eftersom den påverkar hur bra katalysatorn avlägsnar dessa skadliga utsläpp ur avgaserna. Rätt mängd syre resulterar I en kemisk reaktion mellan de skadliga gaserna och syret, vilket gör att oskadliga gaser lämnar katalysatorn. När katalysatorn arbetar korrekt förbrukas allt syre i avgaserna i denna kemiska reaktion.

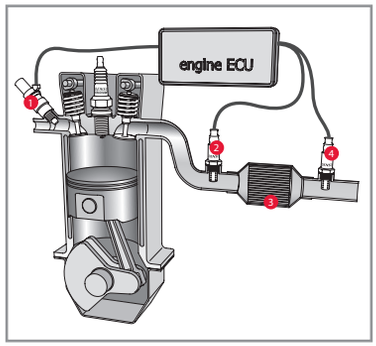

Bild 1: Motor med sonder och katalysator.

1. Bränsleinsprutning
2. Lambdasond före katalysatorn
3. Katalysator
4. Lambdasond efter katalysatorn

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F4: Hur styrs luft/bränsleblandningsförhållandet?

S: När lambdasonden mäter syrehalten i avgaserna skickas en signal till motorstyrenheten som bestämmer om blandningen har rätt förhållande mellan luft och bränsle. Mängden bränsle som sprutas in styrs genom återkopplad kompensation av insprutningstiden. Om blandningen är för rik minskas bränslemängden. Om blandningen är för mager ökas bränslemängden (bild 2). Målet är att uppnå att en blandning med det ideala förhållandet mellan luft och bränsle matas till motorn (den stökiometriska punkten).

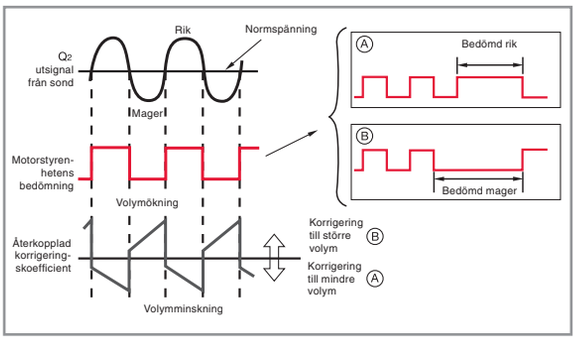

Bild 2: Utsignalen från lambdasonden följer luft/bränsleförhållandet och talar om för motorstyrenheten hur bränsleinsprutningen ska anpassas.

F5: Vad är det ideala stökiometriska förhållandet?

S: För bensin är det stökiometriska förhållandet eller reningsförhållandet cirka 14,7 till 1 (motsvarande lambda 1,00), vilket betyder att för varje kilo förbränt bränsle åtgår 14,7 kilo syre (bild 3). Bränsleblandningen varierar en hel del från det ideala förhållandet under körning, vilket är anledningen till att den måste övervakas och anpassas. Ibland kan blandningen vara mager (ett förhållande mellan luft och bränsle högre än 6,67) och i andra tillfällen kan blandningen vara rik.

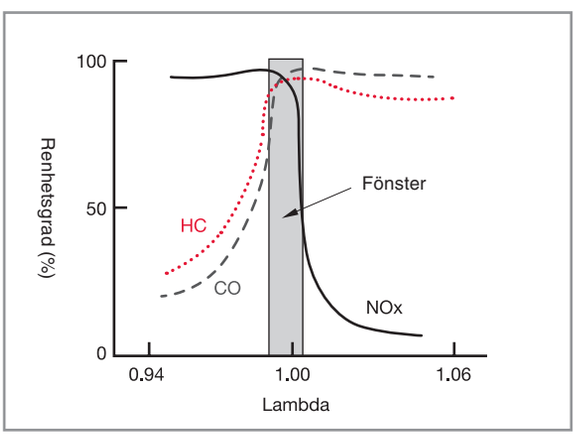

Bild 3: Katalysatorns renhetsgrad .

F6: Varför har vissa fordon fler än en lambdasond

S: Många nyare fordon har en andra lambdasond monterad efter katalysatorn och dessutom en lambdasond monterad före katalysatorn. Sonden före katalysatorn är den styrande sonden som hjälper motorstyrenheten att anpassa luft/bränsleförhållandet. Den bakre sonden efter katalysatorn övervakar katalysatorns funktion.

F7: Hur analyserar den andra lambdasonden katalysatorns effektivitet?

S: Lambdasonden efter katalysatorn övervakar katalysatorns funktion genom att mäta syrehalten i avgaserna som lämnar katalysatorn. Om sonden ger en hög utspänning (bild 4) arbetar katalysatorn effektivt. Detta för att om katalysatorn arbetar effektivt förbrukas allt syre i avgaserna av den kemiska reaktion som pågår inuti katalysatorn mellan syret och de skadliga avgaserna. När katalysatorn förslits blir det ingen kemisk reaktion mellan en del av de skadliga gaserna och syret, och de lämnar katalysatorn opåverkade. Sonden efter katalysatorn kommer på så sätt att i ökande grad visa samma syremätningsvärden som lambdasonden före katalysatorn, tills båda ger samma utsignal (bild 5). Detta är en indikation på att katalysatorn har slutat fungera.

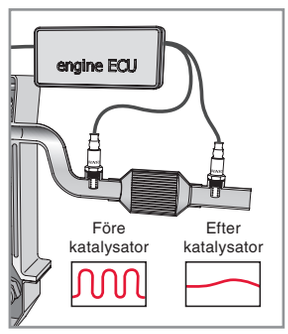

Bild 4: Utsignal från en fullt fungerande katalysator.

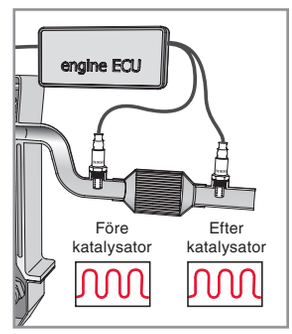

Bild 5: Utsignal från en katalysator som slutat fungera.

F8: Varför har man utvecklat luft/bränslesonder?

S: ADENSO var först i världen med att utveckla luft/bränslesondtekniken där vi tog fram en sond med linjär utsignal så att fordon kunde uppfylla de allt hårdare kraven i EURO 3 och efterföljande regelverk. Det nya systemet använder en luft/bränslesond som ersätter den konventionella lambdasonden.

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F9: Vad är skillnaden mellan zirkoniumsonder och luft/bränslesonder?

S: Luft/bränslesonder är i allmänhet känsligare och effektivare än konventionella zirkoniumsonder. Det beror på det sätt som de olika sondtyperna mäter luft/bränsleförhållandet och de olika signaler som de avger som resultat av mätningen:

Luft/bränsleförhållande

> **Zirkoniumsonden** anger om luft/bränsleförhållandet ligger över eller under lambda 1,00. Motorstyrenheten ändrar bränslemängden stegvis tills sonden anger att blandningen återigen är felaktig. Då börjar motorstyrenheten att återigen korrigera stegvis i motsatt riktning. Denna metod är relativt långsam och korrigerar hela tiden runt lambda 1,00 men kan aldrig hålla lamda 1,00 exakt.

> En **luft/bränslesond** anger luft/bränsleförhållandet exakt. Det innebär att motorstyrenheten vet hur långt från lambda 1,00 luft/bränsleförhållandet ligger och därmed vet den hur mycket den behöver korrigera bränsleinsprutningen. Det gör att motorstyrenheten kan anpassa den insprutade bränslemängden och nästan direkt nå lambda 1,00.

Utsignal

> **Zirkoniumsonden** avger en låg spänning mellan 0 V och cirka 0,8 V, och växlar mellan låg och hög omkring lambda 1,00 (bild 6).

> **Luft/bränslesonden** avger en låg ström mellan -10 mA och +10 mA där utsignalen håller ett stabilt värde som är proportionellt mot luft/bränsleförhållandet (bild 7).

Sammantaget betyder det, särskilt under varierande förhållanden (plötslig acceleration eller inbromsning), att system med zirkoniumsonder ger för mycket eller för litet bränsle och därmed mindre effektiv katalysatorrening.

Med en luft/bränslesond får motorstyreheten precisa uppgifter om ändringar i luft/bränsleförhållandet också under varierande förhållanden. Motorstyrenheten kan därför göra exakta justeringar och därmed avsevärt minska felen i bränsletillförseln. Det ger optimal gasomvandling inuti katalysatorn och därmed renare luft, lägre bränsleförbrukning och smidigare motorfunktion.

F10: Vad händer om lambdasonden går sönder?

S: Om lambdasonden går sönder kan motorstyrenheten inte längre känna av luft/bränsleförhållandet utan måste gissa hur mycket bränsle som ska sprutas in. Det ger sämre bränsleeffektivitet och därmed högre bränsleförbrukning. Det kan också göra att katalysatorn arbetar mindre effektivt och ger högre nivåer av skadliga utsläpp.

F11: Hur ofta bör lambdasonden bytas ut?

S: DENSO rekommenderar utbyte så ofta som fordonstillverkaren anger. Lambdasonden bör också kontrolleras med avseende på funktion och effektivitet vid varje service - men på gamla motorer och motorer som visar tecken på onormalt hög oljeförbrukning behöver den bytas oftare.

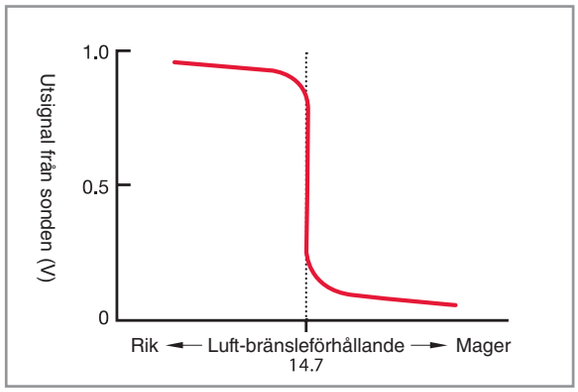


Bild. 6: Utsignal från en zirkoniumsond.

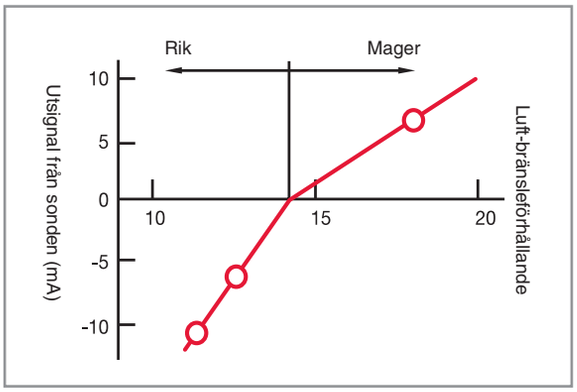


Bild 7: Utsignal från en luft/bränslesond.

PL

Różnica DENSO

Zaprojektowane z precyzją. Wyprodukowane zgodnie z najbardziej wymagającymi normami oryginalnego wyposażenia. Poddawane surowym testom w zakresie bezpieczeństwa i osiągów. Te wyjątkowe standardy wspierają sondę lambda DENSO. Znakomity program dla rynku wtórnego obejmujący sondy z grzałką i bez, które gwarantują doskonałe dopasowanie do każdego pojazdu, w każdym przypadku.

Dlaczego wybrać DENSO? Będąc jedną z przodujących firm, które projektują i produkują oryginalne części i systemy samochodowe, DENSO rozumie technologię sond lambda lepiej niż ktokolwiek. Nie jest to wyłącznie nasza opinia - zgadzają się z nią czołowi producenci samochodów! Sondy lambda firmy DENSO montowane są jako oryginalne wyposażenie w samochodach marek Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall i wielu innych marek. Rzeczywiście, od chwili wyprodukowania pierwszych sztuk w roku 1977, setki milionów sond lambda DENSO spełniały swoje zadania mierząc zawartość tlenu w spalinach na całym świecie i uczyniły nas jednym z czołowych producentów sond lambda na świecie.

Ta nowoczesna technika, jakość oryginalnego wyposażenia i pierwszorzędne osiągi dostępne są teraz w ramach programu sond lambda DENSO dla klientów rynku wtórnego. Wykorzystujemy nasze niedoścignione opanowanie technologii w każdej wyprodukowanej przez nas sondzie lambda.

Dlatego, gdy konieczna jest wymiana sondy lambda, wybór jest tylko jeden: DENSO.

Każda sonda lambda firmy DENSO ma sprawdzoną 100% jakość, w tym sygnał wyjściowy, szczelność, przewodzenie i rezystancję grzałki.

Technologie, których potrzebujesz

Typy sond

Zgodnie z oczekiwaniami, sondy lambda firmy DENSO dostępne są w szerokiej gamie zastosowań. Oferują również wszystkie nowoczesne technologie, które powinny się znaleźć w częściach zamiennych jakości oryginalnego wyposażenia przeznaczonych dla Twoich klientów:

> Sondy cyrkonowe palcowe i planarne
> Sondy A/F palcowe i planarne
> Sondy tytanowe

** Więcej szczegółów na temat działania oraz porównanie sond cyrkonowych i A/F można znaleźć w części Sondy lambda - pytania i odpowiedzi niniejszego katalogu.*

Budowa sondy

Sondy lambda firmy DENSO dostępne są w dwóch rodzajach korpusów jakości oryginalnego wyposażenia, oraz w przypadku sond DENSO, nie są potrzebne żadne dodatkowe części np. flansze!

> korpus sondy wkręcanej
> korpus sondy z flanszą , (razem z uszczelką jakości oryginalnego wyposażenia).

Montaż sondy

Bez względu na potrzeby montażowe, dwie opcje montażu DENSO zawsze umożliwią właściwe podłączenie:

> Sonda dedykowana - z zamontowaną wtyczką jakości oryginalnego wyposażenia, gotowa do montażu
> Sonda uniwersalna - bez wtyczki, (ponowne wykorzystanie wtyczki ze zużytej sondy).

Sprawdzanie i wymiana sondy

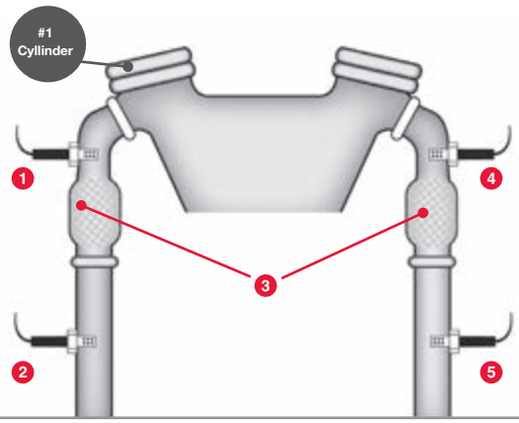
> **Jak często należy wymieniać sondy lambda?**
DENSO zaleca wymianę zgodnie z wytycznymi producenta pojazdu. Lecz działanie i sprawność sond lambda należy sprawdzać podczas każdego przeglądu samochodu - stary lub zużywający zbyt dużo oleju silnik potrzebuje wymiany sond częściej niż wskazuje specyfikacja.

> **Dlaczego wymieniać?**
Awaria sondy lambda - z powodu starzenia, stosowania benzyny ołowiowej lub zanieczyszczenia - może doprowadzić do uszkodzenia katalizatora i kosztownych napraw. Uszkodzone sondy lambda mogą także powodować wyższą emisję składników szkodliwych w spalinach, zwiększenie zużycia paliwa i obniżenie osiągów silnika w tym niedostateczne przyspieszenie, gaśnięcie i nierówną pracę na biegu jałowym.

PL

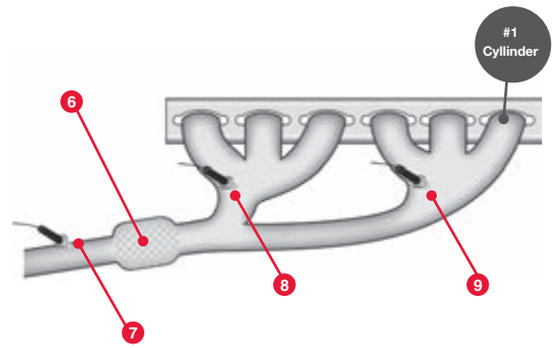
Identyfi kacja położenia sond lambda w układzie wydechowym

Silnik widlasty



1. Sonda lambda przed katalizatorem (regulacyjna)
2. Sonda lambda za katalizatorem (diagnostyczna)
3. Katalizator
4. Sonda lambda przed katalizatorem (regulacyjna)
5. Sonda lambda za katalizatorem (diagnostyczna)

Silnik rzędowy



6. Katalizator
7. Sonda lambda za katalizatorem (diagnostyczna)
8. Sonda lambda przed katalizatorem (regulacyjna)
9. Sonda lambda przed katalizatorem (regulacyjna)

Lewa

Skrzynia biegów

Prawa

DENSO określa lewą i prawą stronę bloku silnika, patrząc od strony skrzyni biegów do koła pasowego wału korbowego.

Ostrzeżenie

Powyższy rysunek przedstawia typowe konfi guracje montażowe silnika. Istnieje wiele różnych wersji konfi guracji w zależności od marki i modelu. Aby wybrać prawidłową sondę lambda DENSO dla danej lokalizacji, prosimy skorzystać z pełnej listy zastosowań zamieszczonej w niniejszym katalogu.

PL

Dedykowane sondy lambda

Dostarczane elementy
Sonda lambda, smar miedziany.

1

Potrzebne narzędzia
1. Gwintownik do czyszczenia gwintów *(dla większości sond: M18 x 1,5)*.
2. Klucz dynamometryczny z nasadką odpowiednią dla danej sondy lambda *(dla większości sond: rozm. 22)*.

1

2

3

3

Etapy montażu
1. W razie potrzeby wyczyścić gwint w rurze wydechowej za pomocą gwintownika.
2. Nałożyć dostarczony smar Copper + Plus na gwint sondy. Uwaga:

NIE SMAROWAĆ RURKI OCHRONNEJ SONDY. Smar należy nakładać wyłącznie na gwint sondy.

3. Dokręcić sondę odpowiednim momentem, używając klucza dynamometrycznego z właściwą nasadką. Zachować ostrożność, aby nie uszkodzić przewodów!

Sondy lambda uniwersalne (ponowne użycie wtyczki)

Dostarczane elementy
Sonda lambda, smar miedziany, złącza, termokurczliwe nakładki na złącza.

1
2
3
4

5
6

Potrzebne narzędzia
1. Szczypce do cięcia przewodów.
2. Narzędzie do ściągania izolacji.
3. Narzędzie zapadkowe do zagniatania z czerwonym tłocznikiem do końcówek izolowanych.
4. Dmuchawa gorącego powietrza.
5. Gwintownik do czyszczenia gwintów *(dla większości sond: M18 x 1,5)*.
6. Klucz dynamometryczny z końcówką odpowiednią dla danej sondy lambda *(dla większości sond: rozm. 22)*.

1
2

3

4

5

6

7

8

8

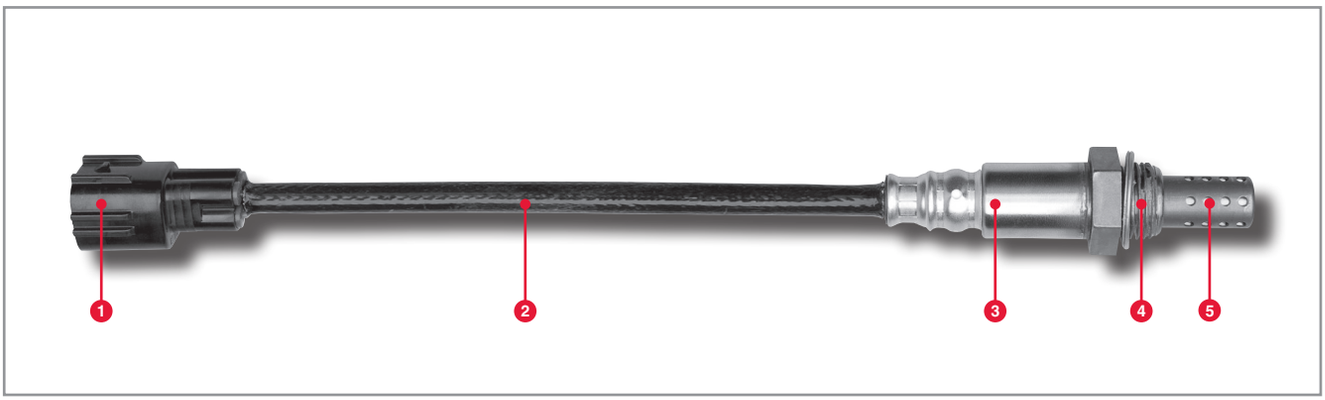
Etapy montażu
1. Uciąć przewody nowej sondy na odpowiednią długość. WAŻNE: Nowa sonda ze starą wtyczką musi mieć taką samą długość, jak oryginalna stara sonda z wtyczką.
2. Odciąć przewody starej sondy na odpowiednią długość.
3. Zdjąć izolację z końcówek przewodów na długość 7 mm.
4. Zagnieść nakładki na złącza za pomocą narzędzia do zagniatania z czerwonym tłocznikiem *(rozm. 22 – 16)*.
5. Używając dmuchawy gorącego powietrza, obkurczyć izolację nakładki na złącza, aż do uszczelnienia.
6. W razie potrzeby wyczyścić gwint w rurze wydechowej za pomocą gwintownika.
7. Nałożyć dostarczony smar Copper + Plus na gwint sondy.

NIE SMAROWAĆ RURKI OCHRONNEJ SONDY. Smar należy nakładać wyłącznie na gwint sondy.

8. Dokręcić sondę odpowiednim momentem, używając klucza dynamometrycznego z właściwą końcówką. Zachować ostrożność, aby nie uszkodzić przewodów!

PL

Właściwe obchodzenie się i użytkowanie sondy



1. Wtyczka

Utrzymywać czystą i suchą:

> Nie używać smaru ani żadnego aerozolu do styków
> Wilgoć i obce ciała mają duży wpływ na działanie sondy.

2. Przewód

Unikać wysokiej temperatury:

> Trzymać z dala od rury wydechowej lub innych gorących części pojazdu.

Unikać naprężeń:

> Trzymać z dala od elementów ruchomych
> Unikać naprężeń przewodu
> Unikać stosowania długich, zwisających przewodów: mogą one kołysać się lub zaczepić o inne części lub przedmioty.

3. Korpus sondy

Utrzymywać w czystości:

> Tylny koniec korpusu sondy posiada otwory, przez które sonda zasysa próbki powietrza z otoczenia. Otwory te muszą być drożne, aby umożliwić działanie czujnika
> Chronić korpus sondy przed zanieczyszczeniami i zalaniem zimną wodą
> Nie kierować strumieni wody pod ciśnieniem na sondę
> Nie pokrywać czujnika żadnymi powłokami.

4. Gwint korpusu sondy

Nasmarować gwint:

> Przed montażem nasmarować gwint smarem miedzianym dostarczonym razem z sondą.

5. Rurka ochronna sondy

Unikać gwałtownych uderzeń:

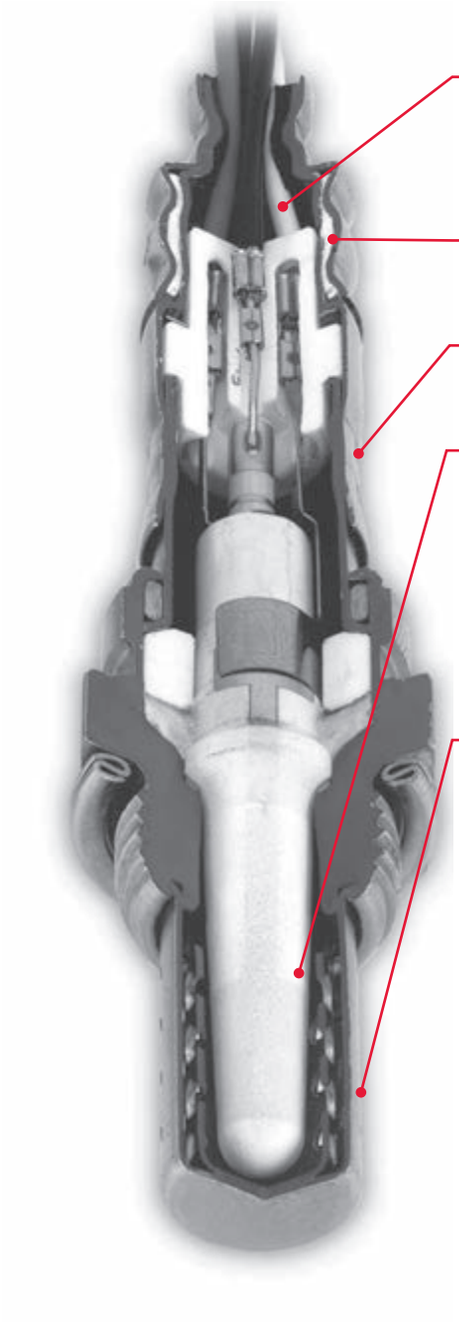
> aby zapobiec uszkodzeniu delikatnego elementu ceramicznego wewnątrz sondy.

Unikać zanieczyszczeń:

> Unikać wszelkich zanieczyszczeń, utrzymując rurkę ochronną sondy z dala od obcych substancji
> Nie rozpylać żadnych środków na rurkę ochronną sondy
> Nie nakładać smaru na rurkę ochronną sondy
> Unikać stosowania benzyny ołowiowej
> Unikać stosowania dodatków do paliwa.

PL

Schemat doskonałej technologii sondy lambda



Pierwszorzędny projekt sond lambda firmy DENSO maksymalizuje osiągi silnika i oszczędność paliwa przy jednoczesnym zmniejszeniu emisji substancji szkodliwych w spalinach.

> **Stalowy rdzeń w przewodach:** Sondy DENSO wyposażone są w specjalne przewody, przystosowane do trudnych warunków - wysokiej temperatury i drgań. Izolowane teflonem przewody posiadają gwarantującą dodatkową wytrzymałość żyły ze stali nierdzewnej oplecione niklowanymi przewodami miedzianymi, które zapewniają dobrą przewodność i niską rezystancję.

> **Porowaty filtr PTFE:** umożliwia doprowadzenie tlenu atmosferycznego do elementu ceramicznego, nie dopuszczając do przedostania się wody i zanieczyszczeń z silnika.

> **Obudowa ze stali nierdzewnej:** odporna na korozję i zanieczyszczenia z solidnym, szczelnym korpusem.

> **Podwójna warstwa ochronna z tlenku glinu:** Na elemencie ceramicznym, sondy lambda firmy DENSO posiadają unikatową powłokę ochronną z tlenku glinu, która zapewnia dokładne pomiary i długą żywotność sondy. Powłoka filtruje zanieczyszczenia spalin, chroni element ceramiczny przed niepożądanymi skażeniami i zapobiega wczesnemu zapchaniu i uszkodzeniu elektrody platynowej (szczególnie ważne dla pojazdów zasilanych paliwem niskiej jakości). Warstwa ochronna z tlenku glinu odgrywa więc aktywną rolę przy osiąganiu optymalnej emisji, oszczędności paliwa, osiągów silnika i zapobieganiu uszkodzeniom jednostki napędowej.

> **Podwójna osłona** (we wszystkich sondach): utrzymuje właściwą temperaturę zespołu, zapewniając krótszy czas odpowiedzi i chroni element ceramiczny przed zanieczyszczeniem krzemem i ołowiem.

Rozwiązując dylemat jakości paliwa

Paliwo niskiej jakości lub zanieczyszczone może mieć ujemny wpływ na żywotność i działanie sondy lambda, lecz firma DENSO zapewnia rozwiązanie tego problemu.

Co jest przyczyną problemu? Paliwo może być zanieczyszczone dodatkami do oleju silnikowego np. detergentami dyspergującymi lub środkami smarnymi, dodatkami do paliwa, preparatami uszczelniającymi części silnika oraz osadami ropy naftowej po odsiarczeniu. Zanieczyszczone paliwo, po podgrzaniu do temperatury powyżej 700 stopni Celsjusza, może emitować szkodliwe opary, które wpływają ujemnie na sondę lambda, powodując zapychanie elektrod. Jest to powszechną przyczyną przedwczesnych awarii sondy lambda.

Nowoczesna konstrukcja sond lambda firmy DENSO eliminuje to niebezpieczeństwo. Zastosowana przez nas unikatowa podwójna powłoka z tlenku glinu, otaczająca element ceramiczny sondy, chroni go przed skutkami stosowania paliwa niskiej jakości, utrzymuje żywotność i sprawność sondy.

PL

Rozpoznawanie typu sondy lambda po kolorze przewodów

Łatwym sposobem rozpoznania typu sondy lambda dowolnej marki jest sprawdzenie koloru przewodów. Prosimy użyć poniższych tabel do łatwej identyfikacji prawidłowego zamiennika firmy DENSO.

CYRKONOWE SONDY LAMBDA

Tabela kolorow przewodów:

	OE Lambda sensor 1	OE Lambda sensor 2	OE Lambda sensor 3	OE Lambda sensor 4	OE Lambda sensor 5
podgrzewacz +	Czarny	Purpurowy	Bialy	Brazowy	Czarny
podgrzewacz -	Czarny	Bialy	Bialy	Brazowy	Czarny
Sensor +	Niebieski	Czarny	Czarny	Purpurowy	Zielony
Sensor -	Bialy	Szary	Szary	Bezowy	Bialy

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
podgrzewacz +	Czarny	Purpurowy
podgrzewacz -	Czarny	Bialy
Sensor +	Niebieski	Czarny
Sensor -	Bialy	Szary

Tabela funkcji przewodów:

	Element grzejny+	Masa elementu grzejnego	Sonda +	Masa sondy
1 przewód	-	-	Y	Obudowa sondy
2 przewód	-	-	Y	Y
3 przewód	Y	Y	Y	Obudowa sondy
4 przewód	Y	Y	Y	Y

W 3- i 4-przewodowych tytanowych sondach lambda, każdy przewód ma zwykle inny kolor. Wyjątkiem są tytanowe sondy DENSO, które posiadają dwa czarne i dwa szare przewody.

TYTANOWE SONDY LAMBDA

Tabela kolorow przewodów:

	Element grzejny+	Masa elementu grzejnego	Sonda +	Masa sondy
DENSO	Czarny	Czarny	Szary	Szary
Marka 1	Czerwony	Biały	Żółty	Czarny

PL

Typowe usterki sond lambda, ich przyczyny i rozwiązania

Aby ocenić, czy sonda lambda pracuje prawidłowo, należy przeprowadzić pełną kontrolę wizualną oraz testy działania.

1. Sprawdzić wtyczkę i przewód w celu upewnienia się, że nie są uszkodzone. Jakiekolwiek uszkodzenia mają ujemny wpływ na sygnał z elementu pomiarowego.

2. Sprawdzić, czy na korpusie sondy nie ma śladów uszkodzeń, które mogłyby wskazywać na wgniecenie lub pęknięcie wewnętrzne. Ważne jest, aby element pomiarowy sondy był nienaruszony i zapewniał prawidłowe działanie.

3. Sprawdzić, czy wtyczka jest czysta, nienaruszona i szczelna i czy nie ma na niej śladów smaru, oleju lub chemikaliów. Mogą one ujemnie wpływać na sygnały wyjściowe sondy, które są bardzo wrażliwe na zanieczyszczenia.

Stan normalny

Wygląd:
> Rurka ochronna elementu pomiarowego jest wolna od wszelkich zanieczyszczeń i ma kolor matowy.

Przyczyna:
> Czyste spalanie w silniku będące efektem terminowych przeglądów i konserwacji.

Zanieczyszczenie środkiem niezamarzającym

Wygląd:
> Ziarnisty szaro-biały kolor, miejscami z zielonkawymi osadami.

Przyczyna:
> Zanieczyszczenie wynikające z obecności płynu chłodzącego w cylindrach silnika.

Rozwiązanie:
> Sprawdzić szczelność układu chłodzenia silnika, szczególnie uszczelkę głowicy i w razie potrzeby naprawić.
> Wymienić sondę.

Zanieczyszczenie olejem

Wygląd:
> Rozległe ciemnoszare/czarne osady na rurce ochronnej.

Przyczyna:
> Zanieczyszczenie spowodowane nadmiernym zużyciem oleju.

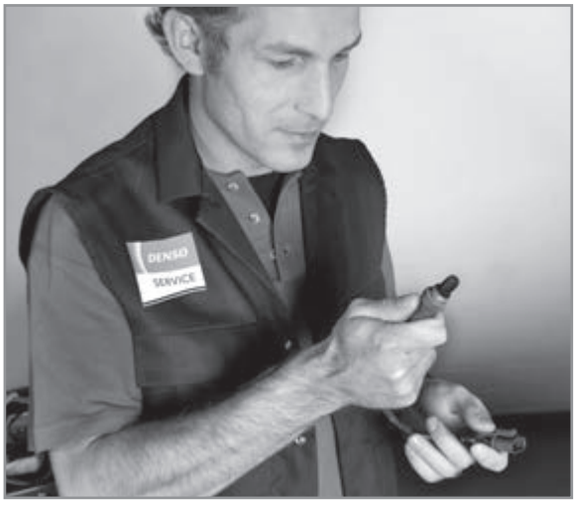
Rozwiązanie:
> Sprawdzić silnik pod kątem wycieków oleju lub zużycia i naprawić w razie potrzeby.
> Wymienić sondę.

Zanieczyszczenie paliwem

Wygląd:
> Nadmierna ilość ciemno brązowej lub czarnej sadzy.

Przyczyna:
> Zanieczyszczenie spowodowane zbyt bogatą mieszanką paliwowo-powietrzną. Przyczyną może być uszkodzona grzałka sondy lub wadliwy układ paliwowy.

Rozwiązanie:
> Sprawdzić układ paliwowy i wykonać pomiar składu spalin.
> Sprawdzić zasilanie grzałki sondy lambda, (sondy- co najmniej 3 przewodowe).
> Usunąć usterkę.
> Wymienić sondę.



Zanieczyszczenie dodatkiem

Wygląd:
> Rozległe osady czerwone lub białe.

Przyczyna:
> Zanieczyszczenie z powodu stosowania szkodliwych dodatków lub nadmiernej ilości dodatków. Niektóre składniki dodatków do paliwa mogą zanieczyścić element pomiarowy sondy. Składniki te, spalane w silniku, wytwarzają dymy, które mogą zanieczyścić lub zapchać element pomiarowy sondy.

Rozwiązanie:
> Wyczyścić silnik i układ paliwowy w celu usunięcia dodatków.
> Wymienić sondę.

Zanieczyszczenie ołowiem

Wygląd:
> Błyszczące, ciemnoszare osady na rurce ochronnej sondy.

Przyczyna:
> Zanieczyszczenie z powodu stosowania paliwa ołowiowego.
> Ołów działa na platynę, która znajduje się w czujniku sondy i w katalizatorze.

Rozwiązanie:
> Opróżnić zbiornik paliwa z benzyny ołowiowej i napełnić benzyną bezołowiową.
> Wymienić sondę.

WAŻNE: Sprawdzenie po wykonaniu naprawy

W każdym przypadku należy wymienić zanieczyszczoną sondę lambda. Po wymianie sondy ważne jest, aby sprawdzić działanie katalizatora. Zanieczyszczenie mogło również uszkodzić katalizator, zmniejszając jego sprawność.

PL

Odpowiedzi zespołu technicznego DENSO na najczęściej zadawane pytania

Pytanie 1: Jaką rolę spełniają sondy lambda?

Odp.: W celu ograniczenia emisji, nowoczesne samochody zaprojektowane są tak, aby możliwa była dokładna kontrola ilości spalanego paliwa. Sonda lambda (inaczej czujnik tlenu) jest elementem, który ma decydujące znaczenie dla tego procesu. Jej zadaniem jest współpraca z systemem wtrysku paliwa, katalizatorem i elektronicznym modułem sterującym (ECU) w celu uzyskania możliwie najmniejszej emisji szkodliwych dla środowiska składników spalin. Sonda lambda realizuje ten cel poprzez monitorowanie procentowej zawartości tlenu w spalinach samochodu. Dane te przesyłane są do ECU pojazdu, który reguluje skład mieszanki paliwowo-powietrznej (A/F). Prawidłowy skład mieszanki paliwowopowietrznej pozwala na sprawne działanie katalizatora. Ten system oczyszczania spalin usuwa możliwie największą ilość szkodliwych substancji emitowanych w spalinach, zanim opuszczą one pojazd.

Pytanie 2: Gdzie umieszczone są sondy lambda?

Odp.: Każdy nowy samochód oraz większość pojazdów produkowanych od roku 1980 posiada sondę lambda, która umieszczona jest w rurze wydechowej pojazdu przed katalizatorem. Sonda regulacyjna mierzy zawartość tlenu w spalinach i informuje o niej ECU, pozwalając na obliczenie wymaganych korekt składu mieszanki paliwowo-powietrznej. Dokładne umiejscowienie sondy lambda jest różne i zależy od tego, czy silnik posiada układ wydechowy przy silniku widlastym lub rzędowym. Niektóre typowe konfiguracje montażowe silnika przedstawiono w rozdziale UMIEJSCOWIENIE niniejszego katalogu.

Pytanie 3: Jak dokładnie działa sonda lambda?

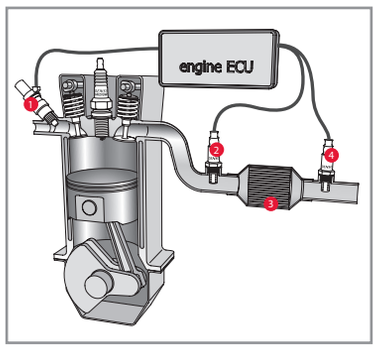
Odp.: Sondy lambda współpracują z systemem wtrysku paliwa pojazdu, katalizatorem i systemem sterowania silnikiem lub elektronicznym modułem sterującym (ECU) (rys. 1), pomagając osiągnąć możliwie najmniejszą emisję szkodliwych dla środowiska składników spalin:

> Sonda lambda monitoruje procentową zawartość tlenu w spalinach samochodu.

> W zależności od tego, czy zawartość tlenu w spalinach jest za wysoka (mieszanka uboga) czy za niska (mieszanka bogata), sonda lambda wysyła do ECU zmieniający się z dużą szybkością sygnał napięciowy.

> ECU odpowiada na tę informację, regulując skład mieszanki paliwowo-powietrznej wprowadzanej do silnika. Celem jest utrzymanie stosunku powietrza do paliwa maksymalnie zbliżonego do wartości stechiometrycznej, czyli obliczonego teoretycznie idealnego stosunku powietrza do paliwa wprowadzanego do silnika. Teoretycznie, dla tego stosunku, przy wykorzystaniu prawie całego tlenu zawartego w powietrzu paliwo ulegnie całkowitemu spaleniu. W spalinach powinno pozostać dokładnie tyle tlenu, ile potrzeba do skutecznego działania katalizatora.

> Następnie katalizator neutralizuje składniki szkodliwe w spalinach, zanim opuszczą one samochód. Najnowocześniejsze samochody wyposażone są w katalizator trójdrożny. Trójdrożny oznacza, że katalizator pomaga zmniejszyć zawartość cząsteczek trzech substancji szkodliwych - dwutlenku węgla (CO), niespalonych węglowodorów (HC) i tlenków azotu (NOx). Dokładnie określona ilość tlenu w spalinach jest ważna dla katalizatora, ponieważ wpływa na jego zdolność do usunięcia tych szkodliwych substancji ze spalin. Właściwa ilość tlenu umożliwia zajście reakcji chemicznej między szkodliwymi gazami i tlenem, której produktem są nieszkodliwe gazy opuszczające katalizator. Jeśli katalizator pracuje prawidłowo, w tej reakcji chemicznej zużywany jest cały tlen ze spalin.



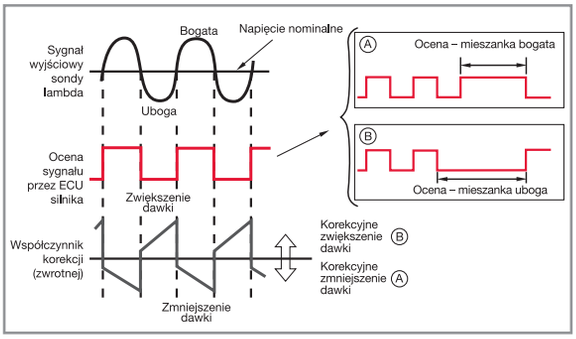
Rys.1: Silnik z sondami lambda i katalizatorem.

1. Wtryskiwacz paliwa
2. Sonda lambda przed katalizatorem (regulacyjna)
3. Katalizator
4. Sonda lambda za katalizatorem (diagnostyczna)

PL

Pytanie 4: W jaki sposób regulowany jest skład mieszanki paliwowo-powietrznej?

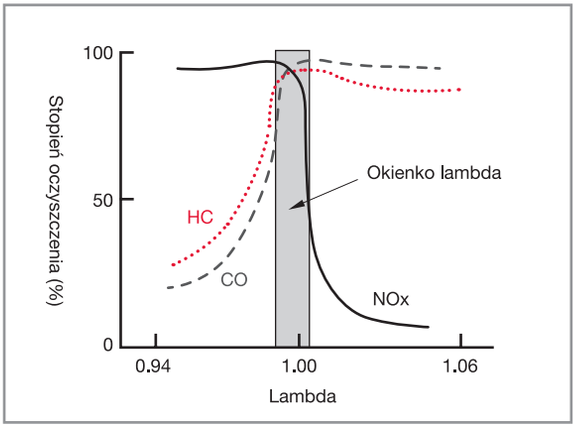
Odp.: Gdy sonda lambda wykryje poziom tlenu zawartego w spalinach, ECU odbiera sygnał wyjściowy z sondy i ocenia, czy mieszanka ma odpowiedni skład (stosunek powietrza do paliwa). Ilość wtryskiwanego paliwa regulowana jest za pomocą sterowania czasem wtrysku w układzie zamkniętym. Po wykryciu zbyt bogatej mieszanki ilość wtryskiwanego paliwa zostaje zmniejszona. Gdy mieszanka jest zbyt uboga, objętość wtryskiwanego paliwa ulega zwiększeniu (rys. 2). Celem jest osiągnięcie idealnego stosunku powietrza do paliwa (składu stechiometrycznego) w mieszance doprowadzanej do silnika.



Rys.2: Sonda lambda monitoruje stosunek powietrza do paliwa i wysyła sygnał wyjściowy, który instruuje ECU, w jaki sposób regulować dawkę wtrysku paliwa.

Pytanie 5: Co to jest idealny stosunek stechiometryczny?

Odp.: Dla benzyny stosunek stechiometryczny wynosi około 14,7:1 (co odpowiada współczynnikowi lambda równemu 1,00). Oznacza to, że do spalenia każdego kilograma paliwa potrzeba 14,7 kg powietrza (rys.3). Podczas jazdy skład mieszanki odbiega od idealnego stosunku, więc musi być monitorowany i regulowany. Czasami mieszanka może być uboga (stosunek powietrze/paliwo wyższy od 14,7), innym razem bogata.



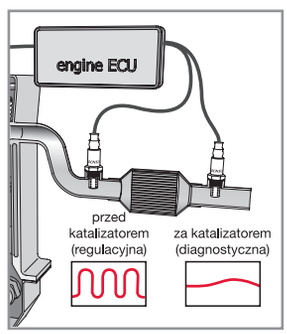
Rys.3: Stopień oczyszczenia spalin w katalizatorze.

Pytanie 6: Dlaczego niektóre samochody wyposażone są w więcej niż jedną sondę lambda?

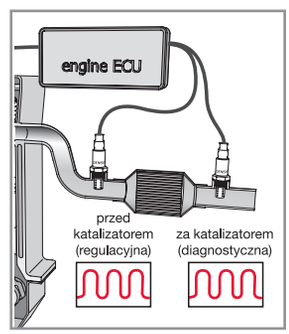
Odp.: Wiele produkowanych ostatnio samochodów, oprócz sondy lambda (regulacyjnej) umieszczonej przed katalizatorem, posiada drugą sondę lambda zamontowaną za katalizatorem (tzw. diagnostyczną). Sonda lambda przed katalizatorem jest czujnikiem, który wchodzi w skład systemu sterowania, pomagając ECU silnika w regulacji składu mieszanki. Diagnostyczna sonda lambda za katalizatorem jest czujnikiem monitorującym działanie katalizatora.

Pytanie 7: W jaki sposób druga sonda lambda analizuje sprawność katalizatora?

Odp.: Sonda lambda za katalizatorem monitoruje działanie katalizatora poprzez pomiar poziomu tlenu w spalinach opuszczających katalizator. Jeśli sygnał sondy ma wysokie napięcie (rys. 4), katalizator działa skutecznie. Dzieje się tak dlatego, że w pracującym prawidłowo katalizatorze, cały tlen zawarty w spalinach jest zużywany do reakcji chemicznej z udziałem tlenu i szkodliwych substancji. Jednak w miarę zużywania się katalizatora, część szkodliwych gazów i tlenu nie bierze udziału w reakcji chemicznej i w niezmienionej postaci opuszcza katalizator. Sygnał wyjściowy z sondy lambda za katalizatorem będzie stopniowo zbliżał się do sygnału z sondy lambda przed katalizatorem, do chwili aż sygnał z obu sond będzie taki sam. Jednakowe sygnały wskazują na awarię (zużycie się) katalizatora.



Rys.4: Sygnały wyjściowe dla całkowicie sprawnego katalizatora.



Rys.5: Sygnały wyjściowe dla uszkodzonego katalizatora

Pytanie 8: Dlaczego opracowano sondy A/F (stosunku powietrza do paliwa)?

Odp.: Technologia sond A/F była pierwszym na świecie innowacyjnym rozwiązaniem, które oferowało czujnik z wyjściem liniowym, umożliwiającym spełnienie przez pojazd coraz surowszych wymagań przepisów dotyczących emisji spalin EURO 3 i nowszych. Nowy system wykorzystuje czujnik składu mieszanki (sondę A/F), która zastąpiła zwykłą sondę lambda.

PL

Pytanie 9: Jaka jest różnica między cyrkonowymi sondami lambda a sondami A/F?

Odp.: Ogólnie rzecz biorąc, sondy A/F mają większą czułość i sprawność od zwykłych cyrkonowych sond lambda. Przyczyną jest sposób, w jaki obie sondy mierzą stosunek powietrza do paliwa i różne sygnały wyjściowe wskazujące wynik pomiaru:

Stosunek powietrza do paliwa

> **Sonda cyrkonowa** wskazuje, czy stosunek powietrze/paliwo jest wyższy, czy niższy od współczynnika lambda równego 1,00. ECU silnika zmienia dawkę paliwa stopniowo, aż sonda ponownie wskaże, że skład mieszanki jest nieprawidłowy. W tym momencie ECU rozpoczyna kolejną stopniową korekcję w przeciwnym kierunku. Metoda ta jest stosunkowo wolna i polega na ciągłej korekcie w sąsiedztwie współczynnika lambda 1,00 i nigdy nie pozwala na utrzymanie współczynnika lambda 1,00.

> **Sonda A/F** wskazuje dokładną wartość stosunku powietrza do paliwa. Oznacza to, że ECU silnika posiada informację, jak daleko stosunek powietrze/paliwo odbiega od współczynnika lambda równego 1,00, więc może również określić wielkość korekty dawki wtrysku. Umożliwia to modułowi sterującemu silnikiem ECU skorygowanie dawki wtryskiwanego paliwa tak, aby prawie natychmiast osiągnąć i utrzymać współczynnik lambda równy 1,00.

Sygnał wyjściowy

> **Sonda cyrkonowa** wysyła sygnał o niskim napięciu od 0 V do około 0,8V, przełączając między poziomem niskim i wysokim w pobliżu wartości lambda 1,00 (rys.6).

> **Sonda A/F** wysyła sygnał o niskim natężeniu od -10 mA do +10 mA i stabilnej wartości, proporcjonalnej do stosunku powietrza do paliwa (rys. 7).

W sumie, szczególnie w zmiennych warunkach (gwałtowne przyspieszanie lub zwalnianie), systemy z sondą cyrkonową będą cechować się zbyt małą lub zbyt dużą dawką wtrysku, a w rezultacie mniejszą sprawnością katalizatora.

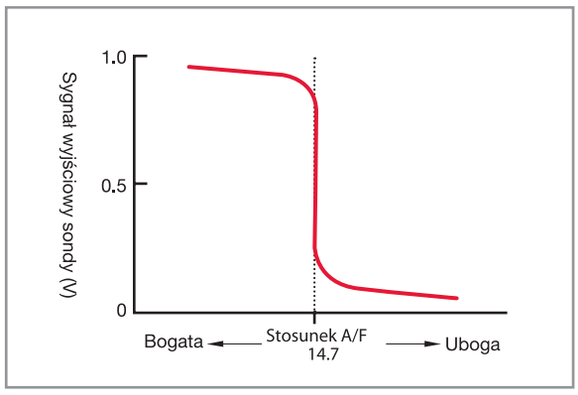
Dzięki sondzie A/F, ECU silnika otrzymuje informacje o cząstkowych zmianach stosunku powietrze/paliwo nawet w zmiennych warunkach. W związku z tym moduł ECU może wykonywać precyzyjne czynności regulacyjne, znacznie zmniejszając niedobór lub nadmiar wtryskiwanego paliwa. W rezultacie w katalizatorze zachodzi optymalna konwersja gazów, co skutkuje czystszym powietrzem, mniejszym zużyciem paliwa i lepszymi osiągami samochodu.

Pytanie 10: Co dzieje się w przypadku usterki sondy lambda?

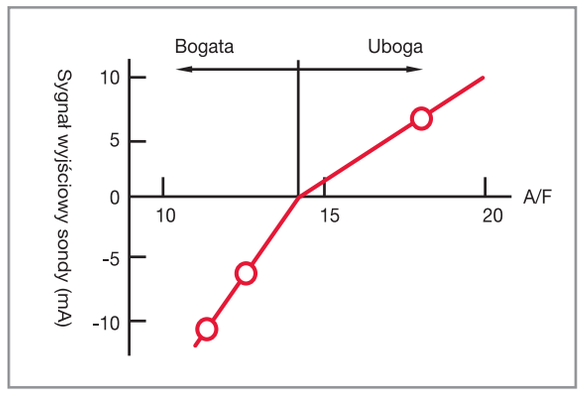
Odp.: W przypadku awarii sondy lambda, ECU nie może wykryć stosunku powietrze/paliwo i musi zgadywać dawkę wtryskiwanego paliwa. Powoduje to mniej wydajne wykorzystanie paliwa a tym samym większe jego zużycie. Powoduje również mniejszą sprawność katalizatora i ewentualnie wyższe poziomy emisji składników szkodliwych w spalinach.

Pytanie 11: Jak często należy wymieniać sondy lambda?

Odp.: DENSO zaleca wymianę zgodnie z wytycznymi producenta pojazdu. Lecz działanie i sprawność sond lambda należy sprawdzać podczas każdego przeglądu samochodu - stary lub zużywający zbyt dużo oleju silnik potrzebuje wymiany sond częściej niż wskazuje specyfikacja.



Rys.6: Sygnał wyjściowy sondy cyrkonowej.



Rys.7: Sygnał wyjściowy sondy A/F.

RU

Отличительные особенности датчиков DENSO

Тщательно разработанная конструкция. Изготовление в соответствии со строгими стандартами оригинального качества. Обязательные испытания на безопасность и проверка эксплуатационных качеств. Таковы высочайшие стандарты, лежащие в основе производства датчиков кислорода компании DENSO, которая предлагает исключительный выбор конфигураций, как с подогревом, так и без подогрева, гарантированно подходящих для любого автомобиля.

Почему следует выбирать датчики DENSO? Являясь одним из ведущих мировых разработчиков и производителей оригинальных запасных частей и систем для автомобилей, компания DENSO разбирается в технологии датчиков кислорода лучше, чем кто-либо другой. И это не только наше мнение – с этим согласны ведущие мировые автопроизводители! Датчики кислорода DENSO устанавливаются в качестве оригинального оборудования на автомобилях таких производителей как Toyota, Mitsubishi, Honda, Jaguar, Volvo, Mazda, Suzuki, Subaru, Isuzu, Daihatsu, Yamaha, Land Rover, Daimler Chrysler, General Motors, Opel/Vauxhall и многих других. Начиная с 1977 года, когда были выпущены первые датчики кислорода, уже несколько сотен миллионов датчиков DENSO выполняют свою работу, измеряя содержание кислорода в выбросах двигателей автомобилей, что делает DENSO одним из ведущих производителей датчиков кислорода в мире.

Передовые разработки, стандарт оригинального качества и превосходные эксплуатационные характеристики теперь доступны клиентам вторичного рынка в рамках нашей программы. Наше ноу-хау не имеет себе равных и применяется при производстве всех без исключения датчиков кислорода.

Поэтому, в случае необходимости замены датчика кислорода, выбор сводится к одной единственной марке: DENSO.

Каждый датчик кислорода DENSO подвергается проверкам на 100%-ное соответствие качеству, включая проверки выходного сигнала, воздухонепроницаемости, целостности цепей и сопротивления подогревателя.цепей и сопротивления подогревателя.

Технологии, которые Вам необходимы

Типы датчиков

Компания DENSO выпускает датчики кислорода для широкого спектра применения. Мы предлагаем все передовые технологии, которые потребуются для точной замены датчиков оригинального качества у Ваших клиентов:

> Циркониево-оксидные датчики: цилиндрического и плоского типа
> Датчики соотношения воздух/топливо: цилиндрического и плоского типа
> Титановые датчики

**Более подробное описание функций, а также сравнение циркониево-оксидных датчиков кислорода и датчиков соотношения воздух/топливо см. в разделе Вопросы и ответы данного каталога.*

Варианты исполнения корпуса

Датчики кислорода DENSO выпускаются в двух вариантах исполнения корпуса оригинального качества, причем корпус готов к установке и не требует для монтажа дополнительных элементов, таких как фланцевые адаптеры:

> Резьбового типа
> Фланцевого типа – включая прокладку OE качества

Установка датчика

Компания DENSO предлагает два варианта датчиков, из которых Вы можете выбрать нужный Вам для конкретного случая:

> С уже имеющимся разъемом, готовый к установке
> Универсальный, т.е. без разъема, позволяющий использовать разъем старого датчика

Проверка и замена датчика

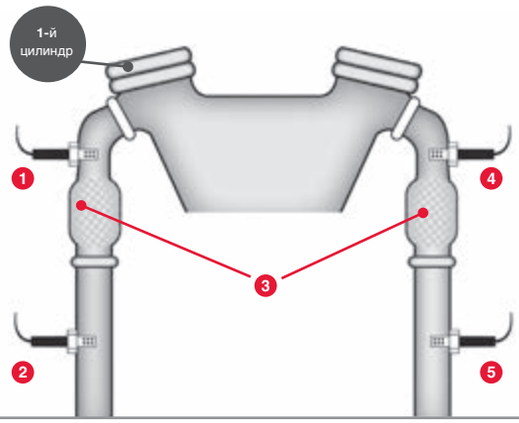
> **Как часто требуется замена датчика кислорода?**
DENSO рекомендует заменять датчик согласно указаниям изготовителя автомобиля. Тем не менее, следует проверять исправность и эффективность датчика кислорода при каждом техосмотре автомобиля – в случае если двигатель с длительным сроком эксплуатации или имеются признаки повышенного расхода масла, интервалы между заменами датчика следует сократить.

> **Зачем необходима замена датчика?**
Выход из строя датчика кислорода – вследствие износа или загрязнения при использовании этилированного топлива – может привести к повреждению каталитического нейтрализатора и дорогостоящему ремонту. Кроме того, неисправный датчик может стать причиной повышения токсичности выхлопа, увеличения расхода топлива, снижения рабочих характеристик двигателя, включая плохой разгон, потерю холостых оборотов и остановку двигателя.

RU

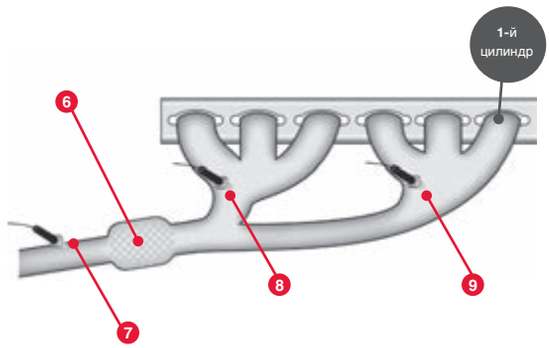
Определение местонахождения датчика кислорода в выхлопной системе

V-образный двигатель

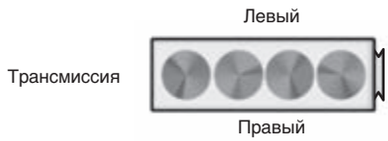


1. Датчик кислорода перед катализатором
2. Датчик кислорода после катализатора
3. Катализатор
4. Датчик кислорода перед катализатором
5. Датчик кислорода после катализаторайй

Рядный двигатель



6. Катализатор
7. Датчик кислорода после катализатора
8. Датчик кислорода перед катализатором
9. Датчик кислорода перед катализатором



Левая и правая стороны блока цилиндров двигателя определяются при взгляде со стороны трансмиссии на шкив коленвала.

Внимание

На приведенных выше иллюстрациях показаны типичные конфигурации двигателя. Существует много вариантов установки двигателя у различных марок и моделей. Для правильного выбора датчика кислорода DENSO в соответствии с конкретным применением см. полный перечень вариантов применения датчиков кислорода.

RU

Датчики кислорода с разъемом

Комплектация

Датчик кислорода, медная смазка

Необходимый инструмент

1. Приспособление для очистки резьбы *(размер M18x1,5 для большинства датчиков)*
2. Динамометрический ключ с подходящей головкой для датчика. *(размер 22 для большинства датчиков)*

Порядок установки

1. При необходимости очистить резьбу в выхлопной трубе специальным приспособлением
2. Нанести немного смазки Copper + Plus, идущей в комплекте с датчиком, на резьбу датчика

Примечание: НЕ ДОПУСКАТЬ ПОПАДАНИЯ СМАЗКИ НА НАКОНЕЧНИК ДАТЧИКА. Наносить только на резьбу датчика

3. Ввернуть датчик с помощью динамометрического ключа с подходящей головкой в соответствии с указанным моментом. Будьте осторожны, чтобы не повредить провода!

Универсальные датчики (без разъема)

Комплектация

Датчик кислорода, медная смазка, разъемы, термоусадочные накладки для соединения встык

Необходимый инструмент

1. Кусачки
2. Приспособление для зачистки проводов
3. Обжимный инструмент с трещоткой и формой для изолированных клемм
4. Промышленный фен
5. Приспособление для очистки резьбы *(размер M18x1,5 для большинства датчиков)*
6. Динамометрический ключ с подходящей головкой для датчика *(размер 22 для большинства датчиков)*

Порядок установки

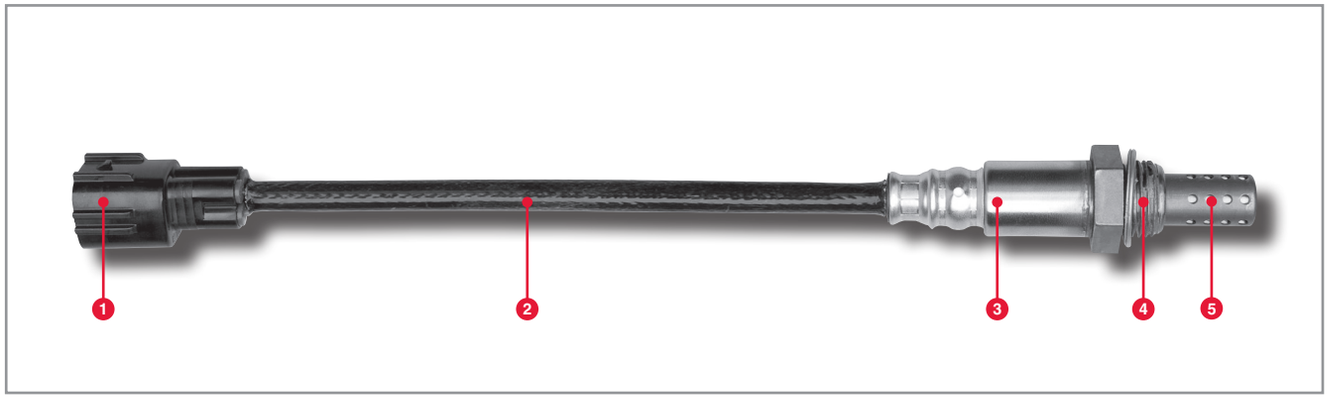
1. Обрезать провода нового датчика по длине. ВНИМАНИЕ: Новый датчик со старым разъемом должен иметь такую же длину, как и старый датчик с разъемом
2. Обрезать провода старого датчика по длине
3. Зачистить концы проводов на 7 мм
4. Обжать накладки обжимным инструментом *(размер 22 – 16)*
5. Усадить изоляцию горячим воздухом до полной герметизации
6. При необходимости очистить резьбу в выхлопной трубе специальным приспособлением
7. Нанести немного смазки Copper + Plus, идущей в комплекте с датчиком, на резьбу датчика

Примечание: НЕ ДОПУСКАТЬ ПОПАДАНИЯ СМАЗКИ НА НАКОНЕЧНИК ДАТЧИКА. Наносить только на резьбу датчика

8. Ввернуть датчик с помощью динамометрического ключа с подходящей головкой в соответствии с указанным моментом. Будьте осторожны, чтобы не повредить провода!

RU

Правильная эксплуатация датчиков кислорода



1. Разъем

Содержать в чистоте и сухости:

> Не допускайте попадания жидкой смазки или спрея
> Влага, а также любые посторонние вещества сразу оказывают влияние на работу датчика

2. Кабель

Избегать перегрева:

> Не допускайте соприкосновения с выхлопной трубой и другими горячими деталями автомобиля

Не подвергать нагрузкам:

> Не располагайте кабель близко к движущимся деталям
> Не допускайте натяжения кабеля
> Не допускайте провисания кабеля: кабель не должен раскачиваться или зацепляться за другие детали или объекты

3. Корпус датчика

Содержать в чистоте:

> В задней части датчика находятся отверстия, через которые датчик берет пробы наружного воздуха. Для обеспечения работы датчика эти отверстия должны быть открыты
> Защищайте датчик от грязи и брызг холодной воды
> Не мойте датчик водой под высоким давлением
> Не наносите на датчик никаких покрытий

4. Резьба корпуса датчика

Смазывать резьбу:

> Перед установкой смажьте резьбу входящей в комплект медной смазкой

5. Наконечник датчика

Не допускать ударов:

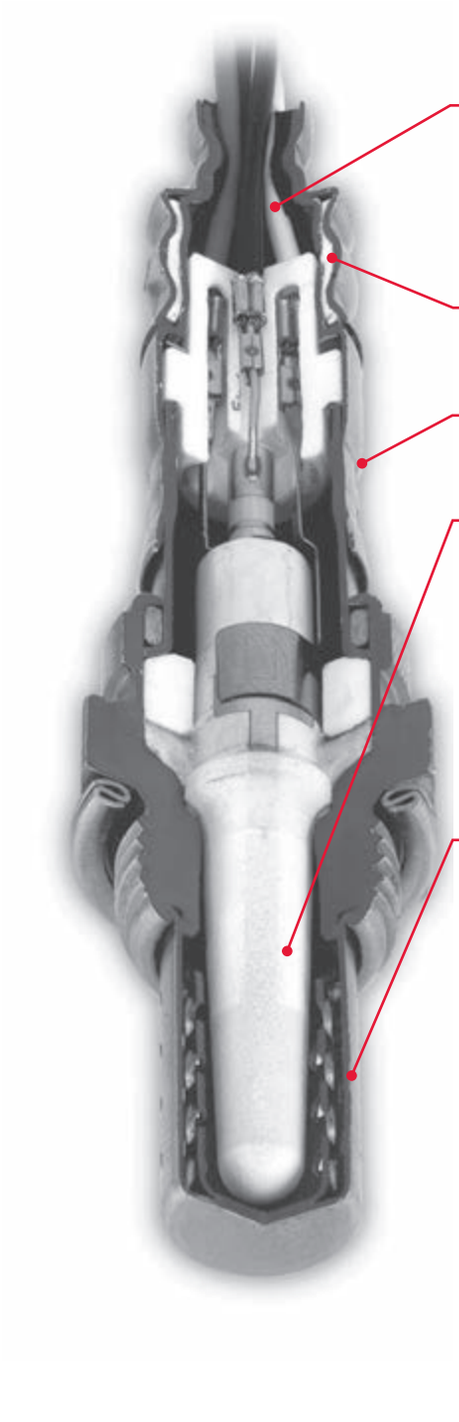
> Во избежание повреждения чувствительного керамического элемента внутри датчика не допускайте ударов по наконечнику

Не допускать загрязнения:

> Не допускайте загрязнения наконечника датчика какими-либо посторонними веществами
> Запрещается распылять какой-либо состав на наконечник датчика
> Запрещается наносить смазку на наконечник датчика
> Не используйте этилированный бензин
> Не используйте топливные присадки

RU

Исключительная технология датчиков кислорода



Высокое качество датчиков кислорода компании DENSO максимально увеличивает эксплуатационные характеристики двигателя и топливную эффективность, снижая в то же время уровень вредных выбросов.

> **Провода со стальным сердечником:** Датчики DENSO оснащаются специальными проводами, разработанными для тяжелых температурных и вибрационных условий эксплуатации. Провода с тефлоновой изоляцией имеют стальной сердечник для обеспечения дополнительной прочности, вокруг которого находится никелированный медный провод для обеспечения хорошей проводимости и низкого сопротивления

> **Фильтр из пористого ПТФЭ:** Пропускает атмосферный кислород в корпус датчика и не допускает попадания воды или загрязняющих частиц

> **Корпус из нержавеющей стали:** Обладает коррозионной стойкостью, а также прочностью и водонепроницаемостью

> **Двойной защитный слой оксида алюминия:** Керамический элемент датчиков DENSO имеет уникальное защитное покрытие из оксида алюминия для обеспечения точности измерений и длительного срока службы. Покрытие позволяет фильтровать выхлопные газы, не допуская контакта нежелательных загрязняющих частиц с керамическим элементом и предотвращая преждевременное засорение элемента и/или повреждение платинового электрода (что особенно важно для автомобилей, использующих топливо низкого качества). Таким образом, защитный слой оксида алюминия играет важную роль в обеспечении оптимального качества выбросов, экономии топлива, работе двигателя и предотвращении его выхода из строя

> **Двойная защитная крышка:** (на всех датчиках): Поддерживает надлежащую температуру датчика для своевременного реагирования и защищает керамический элемент от разрушения силиконом или свинцо

Решение проблемы качества топлива

Некачественное или грязное топливо может оказать неблагоприятное воздействие на срок службы и эксплуатационные показатели датчика кислорода, однако DENSO предлагает решение для этой проблемы.

В чем заключается причина проблемы? Топливо может быть загрязнено присадками для моторных масел, присадками для бензина, герметиком на деталях двигателя и нефтяными отложениями после десульфуризации. При нагреве свыше 700°C загрязненное топливо выделяет вредные для датчика пары, которые влияют на его работу, засоряя или разрушая электроды. Это распространенный случай выхода из строя датчика кислорода.

Новая конструкция датчиков DENSO не подвержена этой опасности. Уникальный защитный слой оксида алюминия на керамическом элементе датчика защищает его от некачественного топлива, продлевая срок службы и сохраняя эксплуатационные показатели датчика на необходимом уровне.

RU

Как определить тип датчика кислорода по цвету провода

По цвету проводов датчиков кислорода любой марки можно легко определить их тип. Приведенная ниже таблица помогает легко подобрать замену Вашему датчику DENSO.

ЦИРКОНИ ЕВО -ОКСИДНЫЕ ДАТЧИКИ

Таблица цветов проводов:

	OE лямбда датчик 1	OE лямбда датчик 2	OE лямбда датчик 3	OE лямбда датчик 4	OE лямбда датчик 5
нагреватель +	Черный	Фиолетовый	Белый	Коричневый	Черный
нагреватель-	Черный	Белый	Белый	Коричневый	Черный
датчик +	Синий	Черный	Черный	Фиолетовый	Зеленый
датчик -	Белый	Серый	Серый	Бежевый	Белый

	DENSO DOX-010… DOX-011… DOX-012… DOX-013…	DENSO DOX-015…
нагреватель +	Черный	Фиолетовый
нагреватель-	Черный	Белый
датчик +	Синий	Черный
датчик -	Белый	Серый

Таблица функций проводов:

	+ нагревателя	Земля нагревателя	+ датчика	Земля датчика
Провод 1	-	-	Y	Корпус датчика
Провод 2	-	-	Y	Y
Провод 3	Y	Y	Y	Корпус датчика
Провод 4	Y	Y	Y	Y

Титановые 3х- и 4х-проводные датчики кислорода имеют провода разного цвета. Исключение составляют титановые датчики DENSO, которые имеют два черных провода и два серых.

ТИТ АНОВ ЫЕ ДАТЧИКИ

Таблица цветов проводов:

	+ нагревателя	Земля нагревателя	+ датчика	Земля датчика
DENSO	Черный	Черный	Серый	Серый
Брэнд 1	Красный	Белый	Желтый	Черный

RU

Информация о типовых неисправностях датчиков кислорода, их причинах и способах устранения

Для определения корректности работы датчика необходимо произвести полный внешний осмотр, а также проверку рабочих параметров.

1. Проверьте разъем и провода на отсутствие повреждений. Любые повреждения влияют на сигнал датчика

2. Проверьте защитную гильзу датчика на отсутствие признаков повреждений, которые могут указывать на наличие вмятины или трещины внутри. Для правильной работы датчика необходимо, чтобы его чувствительный элемент был не поврежден

2. Проверьте чистоту и водонепроницаемость разъема; осмотрите разъем на отсутствие повреждений, следов смазки или химикатов на нем, которые могут привести к ухудшению выходного сигнала датчика, обладающего высокой чувствительностью к загрязнению.

Нормальное состояние

Внешний вид:
> На датчике отсутствует налет, поверхность имеет тусклый цвет

Причина:
> Полное сгорание топлива как следствие надлежащего технического обслуживания двигателя

Загрязнение антифризом

Внешний вид:
> Избыточные зернистые отложения серо-белого, иногда зеленоватого цвета

Причина:
> Загрязнение вследствие наличия антифриза в цилиндрах двигателя

Способ устранения
> Проверить систему охлаждения двигателя, особенно прокладку головки цилиндров, на протечки и при необходимости произвести ремонт
> Заменить датчик

Загрязнение маслом

Внешний вид:
> Избыточные отложения темно-серого / черного цвета

Причина:
> Загрязнение вследствие избыточного потребления масла

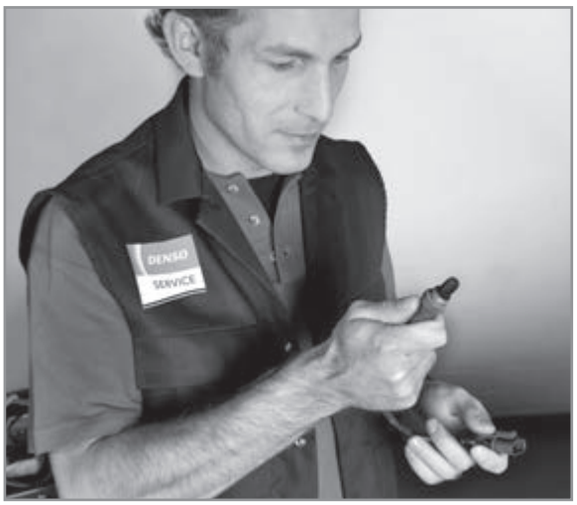
Способ устранения:
> Проверить двигатель на утечку масла или износ и при необходимости произвести ремонт
> Заменить датчик

Загрязнение обогащенным топливом

Внешний вид:
> Избыточная сажа темно-коричневого или черного цвета

Причина:
> Загрязнение вследствие сжигания неправильной/обогащенной топливовоздушной смеси, что может быть вызвано выходом из строя подогревателя датчика или неисправностью топливной системы.

Способ устранения:
> Проверить топливную систему и измерить токсичность выхлопных газов



> В случае использования датчика с подогревом (3 и более проводов) проверить управление подогревателем кислородного датчика и сам подогреватель датчика
> Устранить неисправность
> Заменить датчик

Загрязнение присадками

Внешний вид:
> Избыточные отложения красного или белого цвета

Причина:
> Загрязнение вследствие чрезмерного использования присадок или использования вредных присадок. Некоторые составляющие топливных присадок могут загрязнять чувствительный элемент датчика. При сжигании такого топлива в двигателе выделяются пары, которые приводят к загрязнению и/или засаливанию чувствительного элемента

Способ устранения:
> Удалить присадки, прочистив двигатель и/или топливную систему
> Заменить датчик

Загрязнение свинцом

Внешний вид:
> Блестящие отложения темно-серого цвета

Причина:
> Загрязнение вследствие использования этилированного топлива
> Свинец разрушает платину, присутствующую как на чувствительном элементе датчика, так и в катализаторе

Способ устранения
> Слить этилированный бензин и залить неэтилированный
> Заменить датчик

ВНИМАНИЕ: Повторная проверка

Во всех случаях загрязненный датчик кислорода требует замены. Однако после замены датчика также важно проверить функционирование каталитического нейтрализатора. Загрязнение также может привести к неполадкам в нейтрализаторе, снизив его производительность.

RU

Часто задаваемые вопросы с ответами технических специалистов компании DENSO

B1: Какую роль выполняет датчик кислорода в автомобиле?

O: В целях снижения выбросов конструкция современных автомобилей предусматривает строгий контроль за количеством сжигаемого топлива. Элементом, играющим основную роль в этом процессе, является датчик кислорода (лямбда-зонд). Его задача заключается в совместной работе с системой впрыска, каталитическим нейтрализатором и электронным блоком управления (ЭБУ) для достижения наиболее низкого уровня выбросов двигателя, вредных для окружающей среды. Датчик кислорода контролирует процент несгоревшего кислорода в выхлопных газах автомобиля. Эти данные передаются в ЭБУ, который регулирует состав топливовоздушной смеси. Правильная топливовоздушная смесь обеспечивает эффективную работу каталитического нейтрализатора. Эта система очистки выхлопных газов удаляет максимально возможное количество вредных выбросов из выхлопных газов до того, как они покинут автомобиль.

B2: Где находится датчик кислорода?

O: Все новые автомобили и большинство автомобилей, выпущенных после 1980 г., оснащены датчиком кислорода. Он установлен в выхлопной трубе перед каталитическим нейтрализатором. Здесь он измеряет количество кислорода, присутствующего в выхлопных газах и передает информацию в ЭБУ, позволяя блоку рассчитать, какие изменения нужно внести в топливовоздушную смесь. Точное местонахождение датчика кислорода варьируется в зависимости от типа двигателя – с V-образным или рядным расположением цилиндров, а также в зависимости от марки и модели. Некоторые типовые схемы установки приведены в разделе Местонахождение датчика данного каталога.

B3: Как конкретно работает датчик кислорода?

O: Датчики кислорода работают совместно с системой впрыска, каталитическим нейтрализатором и системой управления двигателем или электронным блоком управления (ЭБУ) (Рис. 1), помогая добиться максимально низкого уровня выбросов двигателя, наносящих вред окружающей среде:

> Датчик кислорода контролирует процентное содержание несгоревшего кислорода в выхлопных газах автомобиля;

> В зависимости от содержания кислорода – слишком высокое (бедная смесь) или слишком низкое (богатая смесь) – датчик передает быстроизменяющийся сигнал в ЭБУ;

> ЭБУ реагирует на сигнал изменением качества топливовоздушной смеси, поступающей в двигатель. Задача состоит в том, чтобы поддерживать соотношение топлива и воздуха в смеси близко к стехиометрической точке, которая представляет собой рассчитанное идеальное соотношение топлива и воздуха в смеси. В теории при таком соотношении все топливо сгорает полностью, используя при этом почти все количество кислорода в воздухе. Остаточный кислород должен присутствовать в количестве, как раз необходимом для эффективной работы каталитического нейтрализатора;

> После этого нейтрализатор производит обработку выхлопных газов до того, как они покинут автомобиль. Большинство современных автомобилей оснащены трехкомпонентным каталитическим нейтрализатором. Трехкомпонентный подразумевает три вида контролируемых (вредных) выбросов, уровень которых снижается с помощью нейтрализатора – монооксид углерода (CO), несгоревшие углеводороды (CH) и оксид азота (NOx). Точное количество кислорода в выхлопных газах важно для нейтрализатора, поскольку от этого зависит, насколько эффективно он сможет удалить эти вредные выбросы из выхлопных газов. При правильном количестве кислорода между кислородом и токсичными газами возникает химическая реакция, в результате которой из нейтрализатора выходят безвредные газы. Если нейтрализатор работает исправно, то этой химической реакцией поглощается весь кислород, содержащийся в выхлопных газах.

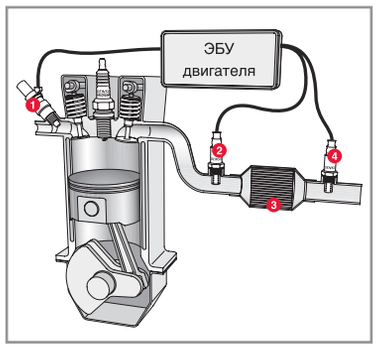


Рис. 1: Двигатель с каталитическим нейтрализатором и датчиками

1. Инжектор
2. Датчик кислорода перед катализатором
3. Каталитический нейтрализатор
4. Датчик кислорода после катализатора

RU

B4: Как регулируется топливовоздушная смесь?

O: Когда датчик кислорода определяет уровень кислорода, содержащегося в выхлопных газах, ЭБУ получает от датчика сигнал и принимает решение о правильности соотношения топлива и воздуха в смеси. Количество впрыскиваемого топлива регулируется с помощью коррекции времени впрыска по сигналам обратной связи. Если смесь оказывается слишком богатой, количество впрыскиваемого топлива уменьшается, если слишком бедной – количество впрыскиваемого топлива увеличивается (Рис. 2). Цель заключается в том, чтобы добиться идеального соотношения топлива и воздуха в смеси, поступающей в двигатель (стехиометрическая точка).

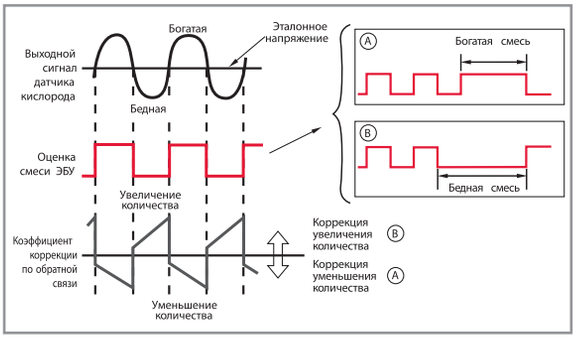


Рис. 2: Выходной сигнал датчика кислорода указывает на соотношение топлива и воздуха в смеси, сообщая ЭБУ, в какую сторону регулировать подачу топлива

B5: Чему равно идеальное стехиометрическое соотношение?

O: Для бензина стехиометрическое соотношение, т.е. соотношение чистого сгорания, составляет около 14,7 к 1 (равно коэффициенту лямбда 1.00). Это означает, что на каждый килограмм топлива сжигается 14,7 килограмма воздуха (Рис. 3). Во время движения автомобиля состав топливной смеси отклоняется от идеального значения, поэтому его необходимо контролировать и регулировать. Иногда смесь может быть бедной (отношение воздуха к топливу выше 14,7), а иногда богатой.

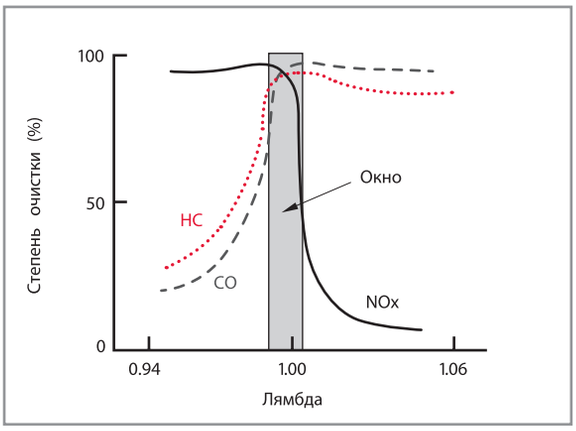


Рис. 3: Степень очистки каталитического нейтрализатора

Q6: Почему на некоторых автомобилях устанавливается несколько датчиков кислорода?

O: Многие из недавно выпущенных автомобилей кроме датчика кислорода перед каталитическим нейтрализатором имеют второй датчик, установленный после него. Первый датчик, перед нейтрализатором, является основным и помогает блоку ЭБУ регулировать топливовоздушную смесь. Второй датчик, установленный после нейтрализатора, является контрольным. Он контролирует функционирование каталитического нейтрализатора.

Q7: Как второй датчик кислорода проверяет эффективность работы каталитического нейтрализатора?

O: Датчик кислорода, установленный после каталитического нейтрализатора, контролирует его функционирование путем измерения уровня кислорода в выхлопных газах, выходящих из нейтрализатора. Если датчик выдает сигнал высокого напряжения (Рис. 4), нейтрализатор работает нормально. Это происходит потому, что, если нейтрализатор работает правильно, весь кислород в выхлопных газах поглощается химической реакцией, происходящей внутри между кислородом и вредными веществами. По мере износа каталитического нейтрализатора некоторое количество вредных газов и кислорода перестает участвовать в реакции и выходит из нейтрализатора без изменений. Таким образом, показания датчика кислорода после нейтрализатора будут постепенно приближаться к показаниям датчика, установленного до него, до тех пор, пока не станут одинаковыми (Рис. 5). Это указывает на выход из строя нейтрализатора.

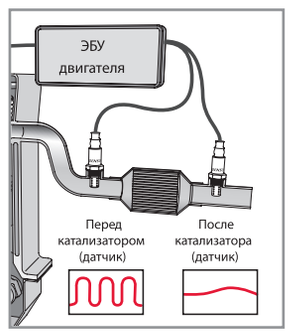


Рис. 4: Выходной сигнал при полностью исправном нейтрализаторе

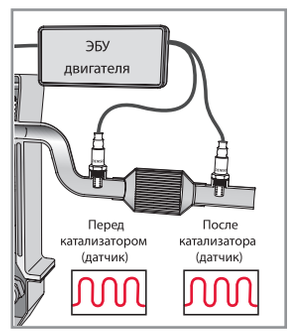


Рис. 5: Выходной сигнал при неисправном нейтрализаторе

B8: С какой целью были разработаны датчики соотношения воздух/топливо?

O: Компания DENSO первой в мире разработала технологию датчиков соотношения воздух/топливо, предложив датчик с линейным сигналом, который помогает автомобилям соответствовать строгим стандартам уровня токсичности выбросов, начиная с EURO 3. В новой системе вместо обычного датчика кислорода используется датчик контроля соотношения топлива и воздуха в смеси.

RU

B9: В чем заключается различие между циркониево-оксидными датчиками кислорода и датчиками соотношения воздух/топливо?

O: В целом датчики воздух/топливо обладают большей чувствительностью и эффективностью, чем обычные циркониево-оксидные датчики кислорода, благодаря способу измерения соотношения топлива и кислорода в смеси и различиям в выходных сигналах, сообщающих о результате измерений:

Соотношение топлива и воздуха

> **Циркониево-оксидный датчик** показывает, выше или ниже соотношение топлива и воздуха коэффициента лямбда 1.00. ЭБУ двигателя постепенно изменяет количество подачи топлива до тех пор, пока датчик не начнет показывать, что соотношение опять неправильное. С этого момента ЭБУ опять начинает корректировать подачу топлива в другом направлении. Этот способ обеспечивает медленное и непрекращающееся плавание вокруг коэффициента лямбда 1.00, не позволяя при этом поддерживать точный коэффициент 1.00.

> **Датчик соотношения воздух/топливо** показывает точное соотношение топлива и воздуха в смеси. Это означает, что ЭБУ двигателя точно знает, насколько это соотношение отличается от коэффициента лямбда 1.00 и, соответственно, насколько требуется корректировать подачу топлива, что позволяет ЭБУ изменять количество впрыскиваемого топлива и получать коэффициент лямбда 1.00 практически сразу.

Выходной сигнал

> **Циркониево-оксидный датчик** выдает сигнал в виде небольшого напряжения в пределах от 0В до около 0,8В, постоянно колеблющегося от нижнего до верхнего значения вокруг лямбды 1.00 (Рис. 6)

> **Датчик воздух/топливо** выдает сигнал в виде тока величиной в пределах от -10 мА до +10 мА, который имеет постоянное значение, пропорциональное соотношению топлива и воздуха в смеси (Рис. 7).

В итоге, особенно в изменяющихся условиях (резкие ускорения или замедления), в системах с циркониево-оксидным датчиком будет наблюдаться подача недостаточного или избыточного количества топлива, что приводит к снижению эффективности каталитического нейтрализатора.

При использовании датчика соотношения воздух/топливо ЭБУ двигателя будет замечать малейшие изменения в соотношении топлива и воздуха даже в изменяющихся условиях. Таким образом, ЭБУ сможет выполнять точную корректировку подачи топлива, что приведет к оптимальной обработке выхлопных газов каталитическим нейтрализатором и, как следствие, к более чистому воздуху, меньшему расходу топлива и улучшению общих характеристик управляемости автомобиля.

B10: Что случится при выходе из строя датчика кислорода?

O: В случае выхода из строя датчика кислорода ЭБУ не получит сигнал о соотношении топлива и воздуха в смеси, поэтому он будет задавать количество подачи топлива наугад. Это может привести к менее эффективному использованию топлива и, как следствие, к увеличению его расхода. Это также может стать причиной потери эффективности каталитического нейтрализатора и потенциального повышения уровня токсичности выбросов.

B11: Как часто требуется замена датчика кислорода?

O: DENSO рекомендует заменять датчик согласно указаниям изготовителя автомобиля. Тем не менее, следует проверять исправность и эффективность датчика кислорода при каждом техосмотре автомобиля – если двигатель старый или имеются признаки повышенного расхода масла, то интервалы между заменами датчика кислорода следует уменьшить.

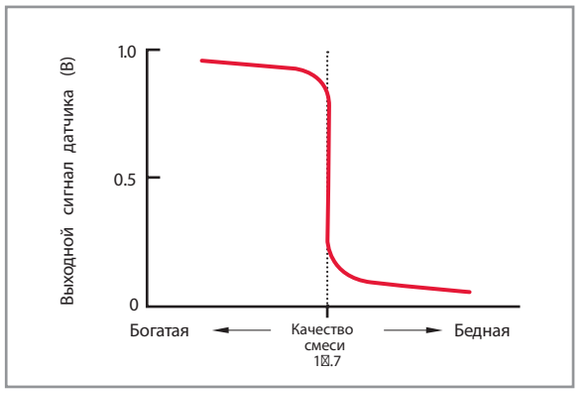


Рис. 6: Выходной сигнал циркониево-оксидного датчика

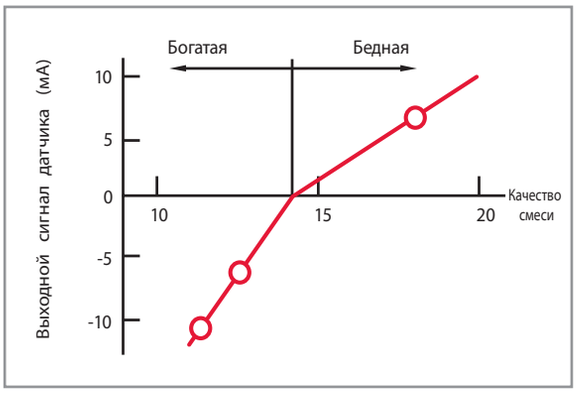


Рис. 7: Выходной сигнал датчика воздух/топливо

Lambda Sensors | Range Updates

New Products/Superseded/Discontinued

DENSO PN	MAKE	MODEL	NEW	DISCONTINUED	SUPERSEDED BY
DOX-0103	CHEVROLET, DAEWOO, MITSUBISHI, RENAULT, TOYOTA			✗→	DOX-0123
DOX-0112	AUDI, BMW, DAEWOO, DAIHATSU, HONDA, HYUNDAI, KIA, MAZDA, MITSUBISHI, NISSAN, OPEL, RENAULT, ROVER, SEAT, SUBARU, SUZUKI, VAUXHALL, VW			✗→	DOX-0125
DOX-0130	AUDI, CHEVROLET, HYUNDAI, MAZDA, MERCEDES-BENZ, NISSAN, RENAULT, SEAT, SUZUKI, VOLVO, VW			✗→	DOX-0116
DOX-0263	TOYOTA	LAND CRUISER	●		
DOX-0290	LEXUS, TOYOTA			✗→	DOX-0231
DOX-0291	LEXUS, TOYOTA			✗→	DOX-0231
DOX-0302	JAGUAR			✗→	DOX-0427
DOX-0310	VOLVO			✗→	DOX-0405
DOX-0359	VOLVO			✗→	DOX-0401
DOX-0407	VOLVO	V70, XC70, S80	●		
DOX-0408	VOLVO	V70, XC70, S80	●		
DOX-0409	VOLVO	S60, V60, XC60, V70	●		
DOX-1078	SUZUKI			✗→	DOX-0354
DOX-1101	MERCEDES-BENZ			✗→	DOX-1105
DOX-1168	MITSUBISHI			✗→	DOX-1441
DOX-1400	DAIHATSU, LEXUS, TOYOTA			✗→	DOX-0204
DOX-1401	DAIHATSU, LEXUS, TOYOTA			✗→	DOX-0204
DOX-1402	DAIHATSU, LEXUS, TOYOTA			✗→	DOX-0236
DOX-1403	DAIHATSU	COPEN, CUORE, MOVE, SIRION, TREVIS, YRV	●		
DOX-1404	DAIHATSU	TERIOS, FEROZA	●		
DOX-1405	DAIHATSU	CHARADE, GRAN MOVE, APPLAUSE	●		
DOX-1406	HONDA			✗→	DOX-1409
DOX-1407	HONDA			✗→	DOX-1411
DOX-1408	HONDA			✗→	DOX-1409
DOX-1410	HONDA			✗→	DOX-1409
DOX-1411	HONDA	CIVIC	●		
DOX-1412	HONDA			✗→	DOX-1409
DOX-1413	HONDA			✗→	DOX-1409
DOX-1414	HONDA, ROVER			✗→	DOX-1004
DOX-1416	VOLVO			✗→	DOX-1420
DOX-1417	VOLVO			✗→	DOX-1419
DOX-1418	VOLVO			✗→	DOX-1419
DOX-1424	HONDA	ACCORD	●		
DOX-1434	MITSUBISHI			✗→	DOX-1016
DOX-1435	MAZDA	323, MX-3, MX-5	●		
DOX-1442	MITSUBISHI			✗→	DOX-1163
DOX-1444	SUZUKI			✗→	DOX-0326
DOX-1445	HONDA, SUBARU			✗→	DOX-0306
DOX-1449	MAZDA	RX 8	●		
DOX-1450	MITSUBISHI			✗→	DOX-1167
DOX-1451	MITSUBISHI			✗→	DOX-1161
DOX-1452	HONDA	ACCORD	●		
DOX-1453	HONDA	CIVIC	●		
DOX-1454	HONDA	CIVIC, CR-V, FR-V	●		
DOX-1455	HONDA	HR-V	●		
DOX-1456	HONDA	ACCORD, CIVIC, LOGO	●		
DOX-1457	HONDA	CIVIC	●		
DOX-1459	HONDA	ACCORD, CIVIC, CRX, LEGEND, LOGO, NSX	●		
DOX-1460	HONDA	JAZZ	●		
DOX-1461	HONDA	CIVIC	●		
DOX-1500	OPEL	ASTRA, VECTRA	●		
	VAUXHALL	ASTRA, VECTRA			
DOX-1501	RENAULT	CLIO, 19, ESPACE	●		
DOX-1502	RENAULT	CLIO, 19	●		
DOX-1503	RENAULT	CLIO, KANGOO, TWINGO	●		
DOX-1504	OPEL	CORSA, TIGRA	●		
	VAUXHALL	ASTRA, CORSA			

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New Products/Superseded/Discontinued

DENSO PN	MAKE	MODEL	NEW	DISCONTINUED	SUPERSEDED BY
DOX-1534	CITROËN	BERLINGO, C2, C3, C5, DS4, SAXO, XSARA, XSARA PICASSO	•		
	PEUGEOT	1007, 106, 206, 306, 307, 406, PARTNER			
DOX-1535	CITROËN	BERLINGO, C15, SAXO, XANTIA, XSARA, ZX	•		
	PEUGEOT	106, 206, 306, 406, PARTNER			
	VOLVO	850			
DOX-1536	CITROËN	AX, JUMPER, JUMPY, XANTIA, XM, XSARA, ZX	•		
	FIAT	DUCATO, SCUDO, ULYSSE			
	LANCIA	ZETA			
	PEUGEOT	106, 306, 307, 405, 406, 605, 806, BOXER, EXPERT			
DOX-1537	CITROËN	BERLINGO, SAXO, XANTIA, XSARA	•		
	PEUGEOT	106, 206, 306, 406, PARTNER			
DOX-1538	CITROËN	BERLINGO, C2, C3, NEMO, SAXO, XSARA	•		
	PEUGEOT	1007, 106, 206, 206+, 207, 207SW, 306, 307, BIPPER, BIPPER Tepee, PARTNER			
DOX-1539	CITROËN	C5, DS4, XSARA PICASSO	•		
	PEUGEOT	406, 407			
DOX-1551	AUDI	A3	•		
	SEAT	AROSA, CORDOBA, IBIZA, INCA, LEON, TOLEDO,			
	SKODA	OCTAVIA			
	VW	BORA, CADDY, GOLF, LUPO, POLO			
DOX-1552	AUDI	A3	•		
	SEAT	ALHAMBRA, AROSA, LEON, TOLEDO			
	SKODA	OCTAVIA			
	VW	BORA, GOLF, LUPO, POLO, SHARA			
DOX-1553	OPEL	ASTRA, CORSA	•		
	VAUXHALL	ASTRA, CORSA			
DOX-1556	RENAULT	CLIO, RAPID, TWINGO	•		
DOX-1559	SEAT	CORDOBA, IBIZA	•		
	SKODA	FABIA, ROOMSTER			
	VW	POLO			
DOX-1560	SEAT	CORDOBA, IBIZA	•		
	SKODA	FABIA, ROOMSTER			
	VW	POLO			
DOX-1561	SKODA	OCTAVIA	•		
	VW	LUPO			
DOX-1562	SEAT	AROSA	•		
	VW	LUPO, POLO			
DOX-1564	SEAT	LEON, TOLEDO	•		
	VW	BORA, GOLF			
DOX-1565	SEAT	IBIZA	•		
	SKODA	FABIA			
	VW	FOX, POLO			
DOX-1566	AUDI	A4	•		
	SEAT	EXEO			
	SKODA	SUPERB			
	VW	PASSAT			
DOX-1567	SEAT	CORDOBA, IBIZA, INCA	•		
	VW	CADDY, POLO			
DOX-1568	OPEL	ZAFIRA	•		
	SAAB	9-3			
DOX-1569	OPEL	ASTRA, SIGNUM, VECTRA, ZAFIRA	•		
	SAAB	9-3			
	VAUXHALL	ASTRA, SIGNUM, VECTRA, ZAFIRA			
DOX-1572	RENAULT	ESPACE, LAGUNA, MEGANE, SAFRANE, SPORT SPIDER	•		
DOX-1573	SEAT	AROSA	•		
	VW	LUPO, POLO			
DOX-1574	OPEL	ASTRA	•		
	VAUXHALL	ASTRA			
DOX-1575	OPEL	ASTRA, COMBO, CORSA, MERIVA, VECTRA, ZAFIRA	•		
	VAUXHALL	ASTRA, COMBO, CORSA, MERIVA, VECTRA, ZAFIRA			
DOX-1576	OPEL	VECTRA	•		
	VAUXHALL	VECTRA			
DOX-1588	SEAT	IBIZA	•		
	SKODA	FABIA			
	VW	FOX, POLO			

Lambda Sensors | Range Updates

New Products/Superseded/Discontinued

DENSO PN	MAKE	MODEL	NEW	DISCONTINUED	SUPERSEDED BY
DOX-1589	AUDI	A4	•		
	SKODA	SUPERB			
	VW	PASSAT			
DOX-1593	OPEL	FRONTERA, OMEGA, SINTRA, VECTRA	•		
	RENAULT	LAGUNA, RAPID			
	VAUXHALL	FRONTERA, OMEGA			
DOX-1594	RENAULT	CLIO, KANGOO, RAPID	•		
DOX-1598	OPEL	ASTRA, VECTRA, ZAFIRA	•		
	VAUXHALL	ASTRA, VECTRA, ZAFIRA			
DOX-1599	DAEWOO	LANOS, MATZ	•		
DOX-1617	OPEL	ZAFIRA	•		
DOX-1618	OPEL	VECTRA	•		

DENSO Application Tables

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Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
ALFA ROMEO											
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1.4 i.e. 16V T.S.	Petrol	76	AR33503	12/96-02/98	M	Ch: 3174687>		DOX-2025		DOX-0150	
1.4 i.e. 16V T.S.	Petrol	76	AR33503	12/96-01/01	M	Ch: >3148498		DOX-1545		DOX-0120	
1.4 i.e. 16V T.S.	Petrol	76	AR33503	12/96-01/01	M	Ch: 3148498>3174687		DOX-1545		DOX-0120	
1.4 i.e. 16V T.S.	Petrol	76	AR33503	02/98-01/01	M			DOX-2025		DOX-0150	
1.6 i.e.	Petrol	76	AR 33201	10/94-12/96	M	Ch: >3014142		DOX-1545		DOX-0120	
1.6 i.e. 16V T.S.	Petrol	88	AR32102	06/98-01/01	M			DOX-2025		DOX-0150	
1.6 i.e. 16V T.S.	Petrol	88	AR67601	12/96-01/01	M	Ch: >3174687		DOX-1545		DOX-0120	
1.6 i.e. 16V T.S.	Petrol	88	AR67601	12/96-01/01	M	Ch: 3174687>		DOX-2025		DOX-0150	
1.7 i.e. 16V	Petrol	95	AR 33401	10/94-12/96	M			DOX-1545		DOX-0120	
1.8 i.e. 16V	Petrol	106	AR 32201	03/98-04/99	M			DOX-2025		DOX-0150	
1.8 i.e. 16V T.S.	Petrol	103	AR67106	12/96-12/98	M			DOX-1545		DOX-0120	
2.0 16V Quadrifoglio	Petrol	114	AR 32301	03/98-01/01	M			DOX-2025		DOX-0150	
2.0 16V T.S.	Petrol	110	AR 67204	10/95-01/01	M			DOX-1545		DOX-0120	
146											
1.4 i.e. 16V T.S.	Petrol	76	AR33503	11/96-01/01	M	Ch: >165088		DOX-1545		DOX-0120	
1.4 i.e. 16V T.S.	Petrol	76	AR33503	11/96-01/01	M	Ch: 165088>		DOX-2025		DOX-0150	
1.6 i.e.	Petrol	76	AR 33201	12/94-12/94	M			DOX-1545		DOX-0120	
1.6 i.e. 16V T.S.	Petrol	88	AR67601	11/96-01/01	M	Ch: >165088		DOX-1545		DOX-0120	
1.6 i.e. 16V T.S.	Petrol	88	AR67601	11/96-01/01	M	Ch: 165088>		DOX-2025		DOX-0150	
1.7 i.e. 16V	Petrol	95	AR 33401	12/94-12/96	M			DOX-1545		DOX-0120	
1.8 i.e. 16V T.S.	Petrol	103	AR67106	11/96-01/01	M			DOX-1545		DOX-0120	
1.8 i.e. 16V T.S.	Petrol	106	AR 32201	03/98-01/01	M			DOX-2025		DOX-0150	
2.0 16V Quadrifoglio	Petrol	114	AR 32301	03/98-01/01	M			DOX-2025		DOX-0150	
2.0 16V T.S.	Petrol	110	AR 67204	10/95-01/01	M			DOX-1545		DOX-0120	
147											
1.6 16V T.SPARK	Petrol	88	AR 32104	01/01-03/10	M				DOX-2051		DOX-0150
1.6 16V T.SPARK	Petrol	88	AR 32104	01/01-03/10	M		L/R	DOX-2006		DOX-0150	
1.6 16V T.SPARK ECO	Petrol	77	AR 37203	01/01-03/10	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
2.0 16V T.SPARK	Petrol	110	AR 32310	01/01-11/08	M				DOX-2051		DOX-0150
2.0 16V T.SPARK	Petrol	110	AR 32310	01/01-11/08	M		L/R	DOX-2006		DOX-0150	
3.2 GTA	Petrol	184	932 A.000	02/03-01/06	M		L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
155											
1.6 16V T.S.	Petrol	88	AR 67601	05/96-08/97	M			DOX-1545		DOX-0120	
1.7 T.S.	Petrol	83/85	AR 67103; AR 67105	04/93-03/95	M					DOX-0120	
1.7 T.S. 16V	Petrol	103	AR 67106	05/96-08/97	M			DOX-1545		DOX-0120	
1.8 T.S.	Petrol	95	AR 67101	02/92-06/93	M					DOX-0120	
1.8 T.S. Sport	Petrol	93	AR67102	01/92-03/95	M					DOX-0120	
2.0 T.S.	Petrol	104/106	AR 67201; AR 67202	02/92-02/95	M					DOX-0120	
2.0 T.S. 16V	Petrol	110	AR 67204	03/95-08/97	M			DOX-1545		DOX-0120	
2.5 V6	Petrol	120/121	AR 67301; AR67302; AR67303	02/92-08/97	M					DOX-0120	
156											
1.6 16V T.SPARK	Petrol	88	AR32103; AR32104	09/00-06/04	M				DOX-2051		DOX-0150
1.6 16V T.SPARK	Petrol	88	AR67601	09/97-03/03	M	Ch: 23373>		DOX-2025		DOX-0150	
1.6 16V T.SPARK	Petrol	88	AR67601	09/97-09/05	M	Ch: >12329		DOX-1545		DOX-0120	
1.6 16V T.SPARK	Petrol	88	AR67601	09/97-09/05	M	Ch: 12329>23373		DOX-1545		DOX-0120	
1.6 16V T.SPARK.	Petrol	88	AR32104	09/00-06/04	M				DOX-2051		DOX-0150
1.6 16V T.SPARK.	Petrol	88	AR32104	09/00-06/04	M		L/R	DOX-2006		DOX-0150	
1.6 16V T.SPARK.	Petrol	88	AR67601	05/00-03/03	M	Ch: 23373>		DOX-2025		DOX-0150	
1.6 16V T.SPARK.	Petrol	88	AR67601	05/00-05/06	M	Ch: >12329		DOX-1545		DOX-0120	
1.6 16V T.SPARK.	Petrol	88	AR67601	05/00-05/06	M	Ch: 12329>23373		DOX-1545		DOX-0120	
1.8 16V T.SPARK	Petrol	103	AR 32205	10/00-01/06	M				DOX-2051		DOX-0150
1.8 16V T.SPARK	Petrol	103	AR 32205	10/00-01/06	M		L/R	DOX-2006		DOX-0150	
1.8 16V T.SPARK	Petrol	106	AR 32201	09/97-10/00	M			DOX-2025		DOX-0150	
2.0	Petrol	119	932 A2.000	04/03-01/06	M		L/R		DOX-2020		DOX-0150
2.0 16V T.SPARK	Petrol	110	AR 32310	10/00-03/02	M				DOX-2051		DOX-0150
2.0 16V T.SPARK	Petrol	110	AR 32310	10/00-03/02	M		L/R	DOX-2006		DOX-0150	
2.0 16V T.SPARK	Petrol	114	AR 32301	09/97-10/00	M			DOX-2025		DOX-0150	
2.0 JTS	Petrol	122	937 A1.000	03/02-01/06	M		L/R		DOX-2020		DOX-0150
2.5 V6 24V	Petrol	140	AR32401	09/97-10/00	M			DOX-2025		DOX-0150	
2.5 V6 24V	Petrol	140	AR32401	02/99-10/00	A			DOX-2020		DOX-0150	
2.5 V6 24V	Petrol	141	AR 32405	10/00-09/05			L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
3.2 GTA	Petrol	184	932 A.000	03/02-05/06	M		L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
159											
1.8 TBi	Petrol	147	939 B1.000	06/10-11/11	M				DOX-2025		DOX-0150

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		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
ALFA ROMEO *continued*											
164											
2.0 T.S.	Petrol	106	AR 64103	09/92-09/98	M			DOX-1545		DOX-0120	
3.0 24V	Petrol	155	AR66301	09/92-09/98						DOX-0120	
3.0 24V Q4	Petrol	170	AR 64307; AR 64308	02/94-09/98	M		L/R			DOX-0120	
3.0 V6	Petrol	132	AR64305; AR66303	09/92-09/98				DOX-1545		DOX-0120	
166											
2.0 T.Spark	Petrol	110	AR 36301	10/00-04/06	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
2.0 V6	Petrol	151	AR 34102	09/98-10/00	M			DOX-2025		DOX-0150	
2.5 V6 24V	Petrol	138	AR 36201	10/00-01/05	M	For cyl.: 4-6		DOX-2006		DOX-0150	
2.5 V6 24V	Petrol	140	AR 34201	09/98-10/00				DOX-2025		DOX-0150	
3.0 V6 24V	Petrol	162	AR 36101	10/00-01/06		For cyl.: 4-6		DOX-2006		DOX-0150	
3.0 V6 24V	Petrol	166	AR 34301	09/98-10/00				DOX-2025		DOX-0150	
3.2 V6 24V	Petrol	176	936 A.000	10/03-06/07	M	For cyl.: 4-6		DOX-2006		DOX-0150	
BRERA											
1.8 TBi	Petrol	147	939 B1.000	05/09-10/10	A				DOX-2025		DOX-0150
GIULIETTA (10-)											
1.4 TB	Petrol	88	198 A4.000	04/10-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
GT (03-10)											
1.8 TS	Petrol	103	AR 32205	11/03-01/10	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.8 TS	Petrol	103	AR 32205	11/03-01/10	M				DOX-2051		DOX-0150
2.0 JTS	Petrol	121	932A2000; 937A1000	11/03-11/06	M		L/R		DOX-2020		DOX-0150
3.2 GTA	Petrol	176	936 A.000	11/03-01/08	M		L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
GTV (95-05)											
1.8 16V	Petrol	106	AR 32201	05/98-02/03	M			DOX-2025		DOX-0150	
2.0 JTS	Petrol	121	937 A1.000	04/03-10/05	M		L/R	DOX-2006		DOX-0150	
2.0 T.SPARK 16V	Petrol	110	AR16201	06/95-08/00	M			DOX-1545		DOX-0120	
2.0 T.SPARK 16V	Petrol	110	AR32310	08/00-02/03	M				DOX-2051		DOX-0150
2.0 T.SPARK 16V	Petrol	110	AR32310	08/00-02/03	M		L/R	DOX-2006		DOX-0150	
2.0 T.SPARK 16V	Petrol	114	AR 32301	05/98-08/00	M			DOX-2025		DOX-0150	
3.0 V6 24V	Petrol	160	AR 16105	10/00-02/03	M		L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
3.0 V6 24V	Petrol	162	AR 16102	10/96-10/00	M			DOX-2025	DOX-1545	DOX-0150	DOX-0120
3.0 V6 24V	Petrol	162	AR 16102	10/96-10/00	M				DOX-2020		DOX-0150
3.2 V6 24V	Petrol	176	936 A6.000	04/03-10/05	M		L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
MITO											
1.4	Petrol	51/58	955 A1.000; 955 A9.000	09/08-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	88	198 A4.000	09/08-	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.4 Bifuel	LPG	88	198 A4.000	07/11-	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.4 TB	Petrol	114	199 A8.000	09/08-01/10	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.4 Turbo	Petrol	110	198 A1.000	01/10-12/10	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
SPIDER (94-05)											
1.8 16V	Petrol	106	AR 32201	05/98-10/00	M			DOX-2025		DOX-0150	
2.0 JTS	Petrol	121	937 A1.000	04/03-04/05	M				DOX-2020		DOX-0150
2.0 T.SPARK 16V	Petrol	110	AR16201	06/95-08/00	M			DOX-1545		DOX-0120	
2.0 T.SPARK 16V	Petrol	110	AR32310	08/00-04/05	M		L/R	DOX-2006	DOX-2051	DOX-0150	DOX-0150
2.0 T.SPARK 16V	Petrol	114	AR 32301	05/98-08/00	M			DOX-2025		DOX-0150	
3.0 V6	Petrol	141	AR 16101	06/95-02/03	M			DOX-1545		DOX-0120	
3.0 V6	Petrol	160	AR 16105	09/94-08/00				DOX-1545		DOX-0120	
3.2 V6 24V	Petrol	176	936 A6.000	04/03-04/05	M		L	DOX-2006	DOX-2051	DOX-0150	DOX-0150
SPIDER (06-)											
1.8 TBi	Petrol	147	939 B1.000	05/09-09/10	A				DOX-2025		DOX-0150
AUDI											
80 (86-91)											
1.8	Petrol	83	SD	09/86-07/88						DOX-0115	
1.8 quattro	Petrol	83	SD	09/86-07/88	M					DOX-0115	
1.8 S	Petrol	65/66	NE; SF	09/86-10/91				DOX-1006		DOX-0125	
1.8 S	Petrol	66	JN	09/86-10/91						DOX-0115	
1.8 S	Petrol	66	PM	09/86-10/91		+ Catalyst		DOX-1351		DOX-0115	
1.8 S quattro	Petrol	65/66	NE; PM; SF	09/86-09/91	M			DOX-1006		DOX-0125	
1.8 S quattro	Petrol	66	JN	09/86-09/91	M					DOX-0115	
2.0	Petrol	82	AAD	10/90-08/91						DOX-0115	
2.0	Petrol	82	AAD	10/90-08/91		+ Catalyst		DOX-1351		DOX-0115	
2.0 E	Petrol	83	3A	08/88-10/90						DOX-0115	
2.0 E	Petrol	83	3A	08/88-10/90		+ Catalyst		DOX-1351		DOX-0115	
2.0 E 16V	Petrol	101	6A	03/90-09/91	M					DOX-0115	
2.0 E 16V quattro	Petrol	101	6A	03/90-08/91	M					DOX-0115	
2.0 E quattro	Petrol	83	3A	08/88-09/90	M					DOX-0115	
2.0 E quattro	Petrol	83	3A	08/88-09/90	M	+ Catalyst		DOX-1351		DOX-0115	
2.0 quattro	Petrol	85	AAD	10/90-08/91	M					DOX-0115	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
AUDI *continued*											
80 (86-91) *continued*											
2.0 quattro	Petrol	85	AAD	10/90-08/91	M	+ Catalyst		DOX-1351		DOX-0115	
80 (91-96)											
1.6	Petrol	52	ABM	01/92-12/94	M			DOX-1006		DOX-0125	
1.6	Petrol	52	ABM	01/92-12/94	M	+ Catalyst		DOX-1381		DOX-0115	
1.6 E	Petrol	74	ADA	06/93-07/95	M					DOX-0115	
2.0	Petrol	66	ABT	09/91-06/95				DOX-1352		DOX-0116	
2.0	Petrol	66	ABT	09/91-06/95		+ Catalyst		DOX-1381		DOX-0115	
2.0 E	Petrol	85	ABK	09/91-07/95				DOX-1351		DOX-0115	
2.0 E	Petrol	85	ABK	09/91-07/95		+ Catalyst		DOX-1351		DOX-0115	
2.0 E	Petrol	85	ABK	12/93-06/95	M			DOX-1351		DOX-0115	
2.0 E 16V	Petrol	103	ACE	08/92-07/95	M					DOX-0115	
2.0 E 16V quattro	Petrol	103	ACE	04/92-07/95	M					DOX-0115	
2.0 E quattro	Petrol	85	ABK	09/91-12/94	M					DOX-0115	
2.0 E quattro	Petrol	85	ABK	09/91-12/94	M	+ Catalyst		DOX-1351		DOX-0115	
2.0 quattro	Petrol	79	ADW	11/93-06/95	M			DOX-1351		DOX-0115	
2.3 E	Petrol	98	NG	09/91-12/94						DOX-0115	
2.3 E	Petrol	98	NG	07/92-06/95	M					DOX-0115	
2.3 E quattro	Petrol	98	NG	09/91-12/94	M					DOX-0115	
2.6	Petrol	110	ABC	07/92-07/95		+ Catalyst		DOX-1381		DOX-0115	
2.6	Petrol	110	ABC	07/92-07/95			L/R	DOX-1352		DOX-0116	
2.6 quattro	Petrol	110	ABC	06/92-08/94	M	+ Catalyst		DOX-1381		DOX-0115	
2.6 quattro	Petrol	110	ABC	06/92-07/95	M		L/R	DOX-1352		DOX-0116	
2.8	Petrol	128	AAH	09/91-07/92		Ch: >N-300 000	L/R	DOX-1352		DOX-0116	
2.8	Petrol	128	AAH	08/92-12/94		Ch: P-000 001>	L/R	DOX-1381		DOX-0115	
2.8	Petrol	128	AAH	08/92-07/95			L/R	DOX-1381		DOX-0115	
2.8 quattro	Petrol	128	AAH	09/91-02/93	M	Ch: >P-190 000	L/R	DOX-1352		DOX-0116	
2.8 quattro	Petrol	128	AAH	09/91-08/94	M	Ch: P-190 001>	L/R	DOX-1381		DOX-0115	
2.8 quattro	Petrol	128	AAH	09/91-07/95	M		L/R	DOX-1381		DOX-0115	
RS2 quattro	Petrol	232	ADU	03/94-05/95						DOX-0150	
S2 quattro	Petrol	169	ABY	02/93-07/95	M					DOX-0150	
90 (87-91)											
2.0	Petrol	85	PS	07/88-09/91						DOX-0115	
2.2 E	Petrol	100	KV	10/88-07/91	A					DOX-0115	
2.3 E	Petrol	100	NG	03/90-07/91	A					DOX-0115	
2.3 E	Petrol	98/100	NG	08/87-09/91						DOX-0115	
2.3 E 20V	Petrol	125	7A	08/88-07/91						DOX-0115	
2.3 E quattro	Petrol	98/100	NG	04/87-07/91	M					DOX-0115	
100 (90-94)											
2.0	Petrol	74	AAE	12/90-06/94				DOX-1352		DOX-0116	
2.0	Petrol	74	AAE	12/90-06/94		+ Catalyst		DOX-1351		DOX-0115	
2.0 E	Petrol	74	AAE	09/91-06/94	M			DOX-1352		DOX-0116	
2.0 E	Petrol	74	AAE	09/91-06/94	M	+ Catalyst		DOX-1351		DOX-0115	
2.0 E	Petrol	85	AAD	12/90-12/92						DOX-0115	
2.0 E	Petrol	85	AAD	12/90-12/92		+ Catalyst		DOX-1351		DOX-0115	
2.0 E	Petrol	85	ABK	01/93-06/94						DOX-0115	
2.0 E 16V	Petrol	103	ACE	01/92-06/94	M					DOX-0115	
2.0 E 16V quattro	Petrol	103	ACE	07/92-06/94	M					DOX-0115	
2.0 E quattro	Petrol	85	AAD	12/90-07/92	M					DOX-0115	
2.0 E quattro	Petrol	85	AAD	12/90-07/92	M	+ Catalyst		DOX-1351		DOX-0115	
2.3 E	Petrol	98	AAR	12/90-06/94						DOX-0115	
2.3 E quattro	Petrol	98	AAR	12/90-06/94	M					DOX-0115	
2.6	Petrol	102/110	ABC; ACZ	03/92-06/94				DOX-1352		DOX-0116	
2.6	Petrol	102/110	ABC; ACZ	03/92-06/94		+ Catalyst		DOX-1381		DOX-0115	
2.6 E quattro	Petrol	102	ACZ	08/93-07/94				DOX-1352		DOX-0116	
2.6 E quattro	Petrol	102	ACZ	08/93-07/94		+ Catalyst		DOX-1381		DOX-0115	
2.6 quattro	Petrol	110	ABC	04/92-06/94				DOX-1352		DOX-0116	
2.6 quattro	Petrol	110	ABC	04/92-06/94		+ Catalyst		DOX-1381		DOX-0115	
2.8 E	Petrol	128	AAH	12/90-06/94				DOX-1352		DOX-0116	
2.8 E	Petrol	128	AAH	12/90-06/94		+ Catalyst		DOX-1381		DOX-0115	
2.8 E quattro	Petrol	128	AAH	12/90-06/94				DOX-1352		DOX-0116	
2.8 E quattro	Petrol	128	AAH	12/90-06/94		+ Catalyst		DOX-1381		DOX-0115	
S4 Turbo quattro	Petrol	169	AAN	08/91-06/94						DOX-0115	
S4 Turbo quattro	Petrol	169	AAN	08/91-06/94		+ Catalyst		DOX-1351		DOX-0115	
A1 (10-)											
1.4 TFSI	Petrol	136	CAVG	01/11-	A				DOX-2041		DOX-0150
1.4 TFSI	Petrol	90	CAXA	05/10-					DOX-2041		DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
AUDI *continued*											
A2 (01-05)											
1.4	Petrol	55	AUA; BBY	06/00-08/05	M						DOX-0119
A3 (96-03)											
1.6	Petrol	74	AEH	09/96-03/97		Ch: >V-095 000		DOX-1552		DOX-0117	
1.6	Petrol	74	AEH	03/97-07/98		Ch: V-095 001>		DOX-1551		DOX-0117	
1.6	Petrol	74	AEH	08/98-05/03	A			DOX-2012		DOX-0150	
1.6	Petrol	74	AKL	08/97-07/98	M			DOX-1551		DOX-0117	
1.6	Petrol	74	AKL	08/97-05/03				DOX-2012		DOX-0150	
1.6	Petrol	74	APF	08/98-05/03					DOX-2008		DOX-0150
1.6	Petrol	75	AVU; BFQ	08/00-05/03					DOX-2000		DOX-0150
1.8	Petrol	92	AGN	09/96-05/97		Ch: >V-106 585		DOX-1551		DOX-0117	
1.8	Petrol	92	AGN	05/97-07/98		Ch: V-106 586>		DOX-1551		DOX-0117	
1.8	Petrol	92	AGN	08/97-06/01				DOX-1551		DOX-0117	
1.8	Petrol	92	APG	08/98-05/03					DOX-2000		DOX-0150
1.8 T	Petrol	110	AGU	12/96-07/97		Ch: >V-150 000		DOX-1173		DOX-0117	
1.8 T	Petrol	110	AGU	08/97-07/98		Ch: W-000 001>		DOX-1551		DOX-0117	
1.8 T	Petrol	110	AGU	08/98-05/03				DOX-1551		DOX-0117	
1.8 T	Petrol	110	AQA	08/98-08/00	M			DOX-2027		DOX-0150	
1.8 T	Petrol	110	ARZ	07/99-08/00				DOX-2027	DOX-2000	DOX-0150	DOX-0150
1.8 T	Petrol	110/132	AUM; AUQ	09/00-05/03					DOX-2027		DOX-0150
1.8 T	Petrol	132	AJQ	12/98-08/00				DOX-2027		DOX-0150	
1.8 T	Petrol	132	APP	07/99-05/00	M			DOX-2027	DOX-2000	DOX-0150	DOX-0150
1.8 T	Petrol	132	ARY	09/00-06/01	A				DOX-2027		DOX-0150
1.8 T quattro	Petrol	110	AGU	08/97-07/98	M	Ch: W-000 001>		DOX-1551		DOX-0117	
1.8 T quattro	Petrol	110/132	AJQ; AQA	08/98-08/00				DOX-2047		DOX-0150	
1.8 T quattro	Petrol	110/132	ARX; ARY	09/00-05/03					DOX-2008		DOX-0150
S3 quattro	Petrol	154	AMK	09/00-04/02		Ch: >1-060 000			DOX-2047		DOX-0150
S3 quattro	Petrol	154	AMK	12/00-04/02		Ch: 1-060 001>			DOX-2008		DOX-0150
S3 quattro	Petrol	154	APY	03/99-04/02				DOX-2015	DOX-2000	DOX-0150	DOX-0150
S3 quattro	Petrol	154	AUL	09/99-08/00				DOX-2015	DOX-2000	DOX-0150	DOX-0150
S3 quattro	Petrol	154	AUL	09/00-12/00		Ch: >1-060 000			DOX-2047		DOX-0150
S3 quattro	Petrol	154	AUL	12/00-04/02		Ch: 1-060 001>			DOX-2008		DOX-0150
S3 quattro	Petrol	165	BAM	10/01-05/03					DOX-2008		DOX-0150
A3 (03-12)											
1.4 TFSI	Petrol	92	CAXC	02/11-	M				DOX-2041		DOX-0150
1.6	Petrol	75	BGU; BSE; BSF	05/03-							DOX-0119
1.6	Petrol	75	BSE	07/08-12/10			L/R				DOX-0119
1.6	Petrol	75	CCSA	07/08-05/10	M		L/R				DOX-0119
1.6 E-Power	Flexfuel	75	CMXA	01/11-	M						DOX-0119
1.6 FSI	Petrol	85	BLF	01/05-09/07	M				DOX-2016		DOX-0150
1.8 TFSI	Petrol	118	CDAA	07/08-					DOX-2041		DOX-0150
1.8 TFSI quattro	Petrol	118	CDAA	07/08-	M				DOX-2016		DOX-0150
2.0 FSI	Petrol	110	AXW; BLR; BLX; BMB; BVY	05/03-06/08		For cyl.: 2-3		DOX-2041		DOX-0150	
2.0 FSI	Petrol	110	AXW; BLX; BMB	05/03-10/05			L/R				DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	01/05-06/08							DOX-0150
2.0 TFSI	Petrol	147	AXX	09/04-08/12					DOX-2016		DOX-0150
2.0 TFSI	Petrol	147	BWA	09/04-08/12					DOX-2016		DOX-0150
2.0 TFSI	Petrol	147	BWA	09/04-08/12					DOX-2041		DOX-0150
2.0 TFSI	Petrol	147	CCZA	07/08-					DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	147	AXX; BWA	09/04-08/12	M				DOX-2016		DOX-0150
2.0 TFSI quattro	Petrol	147	CCZA	07/08-	A				DOX-2016		DOX-0150
3.2 V6 quattro	Petrol	184	BDB	07/03-05/09		Ch: 5-000 001>	L		DOX-2036		DOX-0150
3.2 V6 quattro	Petrol	184	BDB	07/03-05/09		Ch: >4 200 000	L/R		DOX-2041		DOX-0150
3.2 V6 quattro	Petrol	184	BDB	07/03-05/09		Ch: 5-000 001>	R		DOX-2016		DOX-0150
3.2 V6 quattro	Petrol	184	BMJ; BUB	07/03-05/09			L		DOX-2036		DOX-0150
3.2 V6 quattro	Petrol	184	BMJ; BUB	07/03-05/09			R		DOX-2016		DOX-0150
3.2 V6 quattro	Petrol	184	BUB	07/03-05/09	A	For cyl.: 1-3			DOX-2016		DOX-0150
3.2 V6 quattro	Petrol	184	BUB	07/03-05/09	A	For cyl.: 4-6			DOX-2036		DOX-0150
S3 quattro	Petrol	188	BZC; CDLC	11/08-08/12	A						DOX-0150
S3 quattro	Petrol	188/195	BHZ; BZC	11/06-08/12	M						DOX-0150
S3 quattro	Petrol	188/195	CDLA; CDLC	06/08-							DOX-0150
A4 (94-01)											
1.6	Petrol	74	ADP; AHL; ARM	11/94-09/01				DOX-1362		DOX-0117	
1.6	Petrol	74	ANA	07/99-09/01				DOX-1589	DOX-1566	DOX-0121	DOX-0119
1.8	Petrol	85/92/95	ADR; AFY	01/95-09/01				DOX-1362		DOX-0117	
1.8	Petrol	85/92/95	ADR; AFY	01/95-09/01				DOX-2012		DOX-0150	
1.8	Petrol	92	APT; ARG	02/96-09/01				DOX-2012		DOX-0150	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
AUDI *continued*											
A4 (94-01) *continued*											
1.8 quattro	Petrol	85/92	ADR; AFY	01/95-09/01	M			DOX-1362		DOX-0117	
1.8 quattro	Petrol	85/92	ADR; AFY	01/95-09/01	M			DOX-2012		DOX-0150	
1.8 quattro	Petrol	92	APT; ARG	02/99-09/01	M			DOX-2012		DOX-0150	
1.8 T	Petrol	110	AEB	01/95-09/01		Ch: >T-400 000		DOX-2035		DOX-0150	
1.8 T	Petrol	110	AEB	07/96-09/01		Ch: V-000 001>		DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	07/96-09/01		Ch: V-000 001>V-400 000		DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	08/96-09/01		Ch: >V-400 000		DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	08/97-09/01		Ch: W-000 001>		DOX-1173		DOX-0117	
1.8 T	Petrol	110	ANB	02/99-09/01				DOX-2012	DOX-2008	DOX-0150	DOX-0150
1.8 T	Petrol	110	APU	01/95-09/01				DOX-1173		DOX-0117	
1.8 T	Petrol	110	APU	01/95-09/01				DOX-2012		DOX-0150	
1.8 T	Petrol	132	AJL	12/97-07/98		Ch: w-000 001>		DOX-1173		DOX-0117	
1.8 T	Petrol	132	AJL	12/97-12/98				DOX-1173		DOX-0117	
1.8 T quattro	Petrol	110	AEB	01/95-09/01	M	Ch: >T-400 000		DOX-2035		DOX-0150	
1.8 T quattro	Petrol	110	AEB	01/95-09/01	M	Ch: V-000 001>V-400 000		DOX-1173		DOX-0117	
1.8 T quattro	Petrol	110	AEB	01/95-09/01	M	Ch: W-000 001>		DOX-1173		DOX-0117	
1.8 T quattro	Petrol	110	ANB	07/99-09/01	M			DOX-2012	DOX-2008	DOX-0150	DOX-0150
1.8 T quattro	Petrol	110	APU	01/95-09/01	M			DOX-1173		DOX-0117	
1.8 T quattro	Petrol	110	APU	01/95-09/01	M			DOX-2012		DOX-0150	
1.8 T quattro	Petrol	110	ARK	02/99-07/99	M			DOX-2012		DOX-0150	
1.8 T quattro	Petrol	110	AWT	06/00-11/00	M				DOX-2008		DOX-0150
1.8 T quattro	Petrol	132	AJL	12/97-09/01	M			DOX-1173		DOX-0117	
2.4	Petrol	120	AJG	08/97-11/00	M		L/R			DOX-0114	
2.4	Petrol	120/121	APS; APZ; ARJ	02/99-09/01			L/R	DOX-2010		DOX-0150	
2.4	Petrol	121	AGA; ALF	08/97-09/01			L/R			DOX-0114	
2.4 quattro	Petrol	120	APZ	08/97-09/01	M		L/R	DOX-2010		DOX-0114	
2.4 quattro	Petrol	120	APZ	08/97-09/01	M		L/R			DOX-0150	
2.4 quattro	Petrol	121	AGA	08/97-09/01			L/R			DOX-0114	
2.4 quattro	Petrol	121	ALF	08/97-09/01	M		L/R			DOX-0114	
2.4 quattro	Petrol	121	AML	07/99-09/01	M		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.4 quattro	Petrol	121	APS	02/99-09/01			L/R	DOX-2010		DOX-0150	
2.4 quattro	Petrol	121	ARJ	02/99-09/01	M		L/R	DOX-2010		DOX-0150	
2.8	Petrol	142	ACK; ALG	10/96-09/01			L/R			DOX-0114	
2.8	Petrol	142	APR; AQD	01/99-09/01			L/R	DOX-2010		DOX-0150	
2.8 quattro	Petrol	142	ACK; ALG	10/96-09/01			L/R			DOX-0114	
2.8 quattro	Petrol	142	AMX	07/99-09/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.8 quattro	Petrol	142	APR; AQD	02/99-09/01			L/R	DOX-2010		DOX-0150	
2.8 quattro	Petrol	142	APR; AQD	02/99-09/01			L/R	DOX-2035		DOX-0150	
RS4 quattro	Petrol	280	ASJ	05/00-09/01	M		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
RS4 quattro	Petrol	280	AZR	11/00-09/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
S4 quattro	Petrol	195	AGB	09/97-09/01	M		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
A4 (00-04)											
	Petrol	120	BFB	01/06-03/09					DOX-2008		DOX-0150
1.6	Petrol	75	ALZ	11/00-12/04	M			DOX-1589	DOX-1566	DOX-0121	DOX-0119
1.8 T	Petrol	110/120/125	AMB; AVJ; BFB	11/00-12/04					DOX-2008		DOX-0150
1.8 T	Petrol	140	BEX	11/02-12/04					DOX-2008		DOX-0150
1.8 T	Petrol	140	BEX	11/02-12/04					DOX-2030		DOX-0150
1.8 T quattro	Petrol	110	AVJ	11/00-07/02	M				DOX-2008		DOX-0150
1.8 T quattro	Petrol	120	BFB	07/02-12/04					DOX-2008		DOX-0150
1.8 T quattro	Petrol	125	AMB	07/01-12/04	A				DOX-2008		DOX-0150
1.8 T quattro	Petrol	140	BEX	11/02-12/04					DOX-2008		DOX-0150
1.8 T quattro	Petrol	140	BEX	11/02-12/04					DOX-2030		DOX-0150
2.0	Petrol	96	ALT	11/00-12/04					DOX-2008		DOX-0150
2.0 FSI	Petrol	110	AWA	07/02-12/04					DOX-2008		DOX-0150
2.4	Petrol	120/125	AMM; BDV	09/01-12/04			L/R	DOX-2008	DOX-2008	DOX-0150	DOX-0150
3.0	Petrol	162	AVK	09/01-06/02	A		L		DOX-2008		DOX-0150
3.0	Petrol	162	AVK	09/01-06/02	A		L/R				DOX-0150
3.0 quattro	Petrol	162	AVK	09/01-06/02	A		L		DOX-2008		DOX-0150
3.0 quattro	Petrol	162	AVK	09/01-06/02	A		L/R				DOX-0150
S4 quattro	Petrol	253	BBK	03/03-12/04			L/R		DOX-2008		DOX-0150
S4 quattro	Petrol	253	BBK	03/03-12/04			L/R		DOX-2030		DOX-0150
A4 (02-09)											
1.6	Petrol	75	ALZ	11/04-06/08	M			DOX-1589	DOX-1566	DOX-0121	DOX-0119
1.8 T	Petrol	120	BFB	07/02-03/09					DOX-2008		DOX-0150
1.8 T quattro	Petrol	120	BFB	05/03-06/08	M				DOX-2008		DOX-0150
2.0	Petrol	96	ALT	11/04-06/08					DOX-2008		DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
AUDI *continued*											
A4 (02-09) *continued*											
2.0 TFSI	Petrol	125/162	BPJ; BUL	06/05-06/08	M				DOX-2036		DOX-0150
2.0 TFSI	Petrol	147	BGB; BWE	11/04-06/08					DOX-2036		DOX-0150
2.0 TFSI 16V	Petrol	147	BWE	01/06-03/09					DOX-2036		DOX-0150
2.0 TFSI quattro	Petrol	147/162	BGB; BUL; BWE	11/04-06/08					DOX-2036		DOX-0150
2.4	Petrol	120/125	AMM; BDV	04/02-12/05			L/R	DOX-2008	DOX-2008	DOX-0150	DOX-0150
3.0	Petrol	162	ASN	04/02-12/05			L/R		DOX-2008		DOX-0150
3.0	Petrol	162	ASN	04/02-12/05			L/R		DOX-2030		DOX-0150
3.0 quattro	Petrol	162	ASN	05/03-12/05			L/R		DOX-2008		DOX-0150
3.0 quattro	Petrol	162	ASN	05/03-12/05			L/R		DOX-2030		DOX-0150
RS4 quattro	Petrol	309	BNS	09/05-06/08	M	For cyl.: 1-4			DOX-2016		DOX-0150
RS4 quattro	Petrol	309	BNS	09/05-06/08	M	For cyl.: 5-8			DOX-2036		DOX-0150
RS4 quattro	Petrol	309	BNS	06/06-10/08		For cyl.: 5-8 (L)	L		DOX-2036		DOX-0150
RS4 quattro	Petrol	309	BNS	06/06-10/08		For cyl.: 1-4 (R)	R		DOX-2016		DOX-0150
S4 quattro	Petrol	253	BBK	03/04-03/09			L/R		DOX-2008		DOX-0150
S4 quattro	Petrol	253	BBK	03/04-03/09			L/R		DOX-2030		DOX-0150
A4 (07-)											
1.8 TFSI	Petrol	88	CABA	01/08-05/08	M				DOX-2041		DOX-0150
1.8 TFSI	Petrol	88/118	CABB; CDHA; CDHB	11/07-					DOX-2041		DOX-0150
1.8 TFSI quattro	Petrol	118	CDHB	09/08-01/12	M				DOX-2041		DOX-0150
2.0 TFSI	Petrol	132	CFKA	11/09-	M				DOX-2041		DOX-0150
2.0 TFSI	Petrol	132/155	CDNB; CDNC	06/08-					DOX-2041		DOX-0150
2.0 TFSI	Petrol	155	CAEB	01/12-	A				DOX-2041		DOX-0150
2.0 TFSI flexible fuel	Petrol/Ethanol	132	CFKA	11/09-01/12					DOX-2041		DOX-0150
2.0 TFSI flexible fuel quattro	Petrol/Ethanol	132	CFKA	11/09-01/12	M				DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CAEB	01/12-	M				DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CDNC	06/08-					DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CPMA	03/12-	A				DOX-2041		DOX-0150
A4 Allroad (09-)											
2.0 TFSI quattro	Petrol	155	CDNC	04/09-					DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CPMA	03/12-	A				DOX-2041		DOX-0150
A5 (07-)											
1.8 TFSI	Petrol	118/125	CABD; CDHB	10/07-					DOX-2041		DOX-0150
2.0 TFSI	Petrol	132/155	CAEB; CDNB	03/09-	A				DOX-2041		DOX-0150
2.0 TFSI	Petrol	132/155	CDNB; CDNC	06/08-					DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CAEB; CDNC; CPMA	03/09-	A				DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CDNC	06/08-					DOX-2041		DOX-0150
S5 quattro	Petrol	260	CAUA	06/07-02/12	M		L/R		DOX-2041		DOX-0150
A6 (94-97)											
1.8	Petrol	92	ADR	12/95-12/97				DOX-1171		DOX-0117	
1.8 quattro	Petrol	92	ADR	12/95-12/97	M			DOX-1171		DOX-0117	
2.0	Petrol	74	AAE	07/95-06/96	M			DOX-1352		DOX-0116	
2.0	Petrol	74	AAE	07/95-06/96	M	+ Catalyst		DOX-1351		DOX-0115	
2.0	Petrol	85	ABK	06/94-03/97						DOX-0115	
2.0 16V	Petrol	103	ACE	06/94-12/97	M					DOX-0115	
2.0 16V quattro	Petrol	103	ACE	06/94-12/97	M					DOX-0115	
2.3	Petrol	98	AAR	06/94-12/95	M					DOX-0115	
2.3 quattro	Petrol	98	AAR	06/94-12/95	M					DOX-0115	
2.6	Petrol	102/110	ABC; ACZ	06/94-12/97				DOX-1352		DOX-0116	
2.6 quattro	Petrol	110	ABC	06/94-12/97				DOX-1381		DOX-0115	
2.8	Petrol	128	AAH; AEJ	06/94-12/97				DOX-1381		DOX-0115	
2.8	Petrol	142	ACK	12/95-12/97						DOX-0114	
2.8 quattro	Petrol	128	AAH	06/94-12/97				DOX-1381		DOX-0115	
2.8 quattro	Petrol	128	AEJ	07/95-12/97	M			DOX-1381		DOX-0115	
2.8 quattro	Petrol	142	ACK	12/95-12/97						DOX-0114	
S6 Plus quattro	Petrol	240	AHK	04/96-12/97	M		L/R	DOX-1363		DOX-0117	
S6 Turbo quattro	Petrol	169	AAN	06/94-07/97						DOX-0115	
S6 Turbo quattro	Petrol	169	AAN	06/94-07/97						DOX-0150	
S6 Turbo quattro	Petrol	169	AAN	06/94-07/97		+ Catalyst		DOX-1351		DOX-0115	
A6 (97-05)											
1.8	Petrol	85/92	AFY; AJP	05/97-10/98		Ch: >X-036 900		DOX-1362		DOX-0117	
1.8	Petrol	85/92	AFY; AJP	10/98-05/01		Ch: X-036 901>		DOX-2012		DOX-0150	
1.8	Petrol	92	AJP	12/97-07/98						DOX-0117	
1.8	Petrol	92	AQE; ARH	01/99-05/01				DOX-2012		DOX-0150	
1.8 T	Petrol	110	AEB	01/97-01/99				DOX-1173		DOX-0117	
1.8 T	Petrol	110	ANB	01/99-05/01				DOX-2012	DOX-2008	DOX-0150	DOX-0150
1.8 T	Petrol	110	APU; ARK	11/98-05/01				DOX-2012		DOX-0150	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
AUDI *continued*											
A6 (97-05) *continued*											
1.8 T	Petrol	110	ARK	01/99-05/99	M			DOX-2012		DOX-0150	
1.8 T	Petrol	110	AWT	05/00-01/05					DOX-2008		DOX-0150
1.8 T	Petrol	132	AJL	12/97-05/01	M			DOX-1173		DOX-0117	
1.8 T quattro	Petrol	110	ANB	01/99-05/01	M			DOX-2012	DOX-2008	DOX-0150	DOX-0150
1.8 T quattro	Petrol	110	APU; ARK	11/98-05/01	M			DOX-2012		DOX-0150	
1.8 T quattro	Petrol	110	AWT	05/00-01/05	M				DOX-2008		DOX-0150
1.8 T quattro	Petrol	110/132	AEB; AJL	02/97-05/01	M			DOX-1173		DOX-0117	
2.0	Petrol	96	ALT	08/01-01/05					DOX-2008		DOX-0150
2.4	Petrol	100	ALW	07/98-12/98	M	Ch: >X-067 800	L/R			DOX-0114	
2.4	Petrol	100	ARN	01/99-05/01	M		L/R	DOX-2010		DOX-0150	
2.4	Petrol	100	ASM	06/00-01/05	M		L/R	DOX-2008	DOX-2023	DOX-0150	DOX-0150
2.4	Petrol	100	ASM	06/00-01/05	M		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.4	Petrol	100/120	AJG; ALW	12/98-01/99	M	Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.4	Petrol	115/120/121	AGA; AJG; APC; APZ; ARJ	02/97-05/01			L/R	DOX-2010		DOX-0114	
2.4	Petrol	115/120/121	AGA; AJG; APC; APZ; ARJ	02/97-05/01			L/R			DOX-0150	
2.4	Petrol	115/120/121	AGA; AJG; APC; APZ; ARJ	12/98-05/01		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.4	Petrol	115/120/121	AGA; AJG; APC; ARJ	02/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.4	Petrol	120	AMM	06/00-01/05			L/R	DOX-2010	DOX-2023	DOX-0150	DOX-0150
2.4	Petrol	120	AMM	06/00-01/05			L/R		DOX-2035		DOX-0150
2.4	Petrol	120	AMM	06/01-01/05				DOX-2008		DOX-0150	
2.4	Petrol	120	APZ	11/98-12/98	A	Ch: >X-067 800	L/R			DOX-0114	
2.4	Petrol	121	AFM	02/97-03/97	A			DOX-1381		DOX-0115	
2.4	Petrol	121	ALF	06/97-07/98			L/R			DOX-0114	
2.4	Petrol	121	ALF; APS	06/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.4	Petrol	121	ALF; APS	12/98-05/01		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.4	Petrol	121	ALF; APS	12/98-05/01		Ch: X-067 801>	L/R	DOX-2035		DOX-0150	
2.4	Petrol	121	AML	06/00-05/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.4	Petrol	125	BDV	08/01-01/05				DOX-2008		DOX-0150	
2.4	Petrol	125	BDV	08/01-01/05			L/R	DOX-2008	DOX-2008	DOX-0150	DOX-0150
2.4 quattro	Petrol	115	APC	08/98-05/01	A	Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.4 quattro	Petrol	115/120	AJG; APC	08/98-05/01	A	Ch: >X-067 800	L/R			DOX-0114	
2.4 quattro	Petrol	120	AJG	02/97-07/98	A		L/R			DOX-0114	
2.4 quattro	Petrol	120/121	AGA; AJG; APZ; ARJ	02/97-05/01		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.4 quattro	Petrol	120/121	AGA; APZ; ARJ	02/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.4 quattro	Petrol	121	AGA; ARJ	02/97-05/01			L/R	DOX-2010		DOX-0114	
2.4 quattro	Petrol	121	AGA; ARJ	02/97-05/01			L/R			DOX-0150	
2.4 quattro	Petrol	121	ALF	06/97-07/98			L/R			DOX-0114	
2.4 quattro	Petrol	121	ALF; APS	06/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.4 quattro	Petrol	121	ALF; APS	06/97-05/01		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.4 quattro	Petrol	121	ALF; APS	06/97-05/01		Ch: X-067 801>	L/R	DOX-2035		DOX-0150	
2.4 quattro	Petrol	121	AML	06/00-05/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.4 quattro	Petrol	125	BDV	08/01-01/05				DOX-2008		DOX-0150	
2.4 quattro	Petrol	125	BDV	08/01-01/05			L/R		DOX-2008		DOX-0150
2.7 T	Petrol	169	AJK	02/99-05/01			L/R	DOX-2010		DOX-0150	
2.7 T	Petrol	169	AJK	02/99-05/01	M	Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.7 T quattro	Petrol	169	AJK	12/97-07/98	M		L/R			DOX-0114	
2.7 T quattro	Petrol	169	AJK	02/99-05/01			L/R	DOX-2010		DOX-0150	DOX-0150
2.7 T quattro	Petrol	169	AZA	09/00-05/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.7 T quattro	Petrol	184	ARE; BES	08/01-01/05				DOX-2008		DOX-0150	
2.7 T quattro	Petrol	184	ARE; BES	08/01-01/05			L/R		DOX-2008		DOX-0150
2.7 T quattro	Petrol	184	ARE; BES	08/01-01/05			L/R		DOX-2030		DOX-0150
2.8	Petrol	132	AGE	10/97-05/00		Ch: >Y-200 000	L/R			DOX-0114	
2.8	Petrol	140	APR	07/99-07/99	A		L/R	DOX-2010		DOX-0150	
2.8	Petrol	140	APR	07/99-07/99	A		L/R	DOX-2035		DOX-0150	
2.8	Petrol	140	ATX	07/99-05/01			L/R	DOX-2010		DOX-0150	
2.8	Petrol	142	ACK	02/97-07/98			L/R			DOX-0114	
2.8	Petrol	142	ACK	02/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.8	Petrol	142	ACK	12/98-01/99		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.8	Petrol	142	ALG; APR	06/97-05/01			L/R	DOX-2010		DOX-0114	
2.8	Petrol	142	ALG; APR	06/97-05/01			L/R	DOX-2035		DOX-0150	
2.8	Petrol	142	ALG; APR; AQD	12/98-05/01		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.8	Petrol	142	ALG; APR; AQD	12/98-05/01		Ch: X-067 801>	L/R	DOX-2035		DOX-0150	
2.8	Petrol	142	ALG; AQD	06/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.8	Petrol	142	AMX	06/00-05/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.8	Petrol	142	APR	11/98-12/98	M	Ch: >X-067 800	L/R			DOX-0114	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
AUDI *continued*											
A6 (97-05) *continued*											
2.8	Petrol	142	AQD	01/99-05/01	A		L/R	DOX-2010		DOX-0150	
2.8	Petrol	142	AQD	01/99-05/01	A		L/R	DOX-2035		DOX-0150	
2.8 quattro	Petrol	132/142	ACK; AGE	02/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.8 quattro	Petrol	132/142	ACK; AGE	02/97-04/00		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.8 quattro	Petrol	140/142	ATX	07/99-05/01			L/R	DOX-2010		DOX-0150	
2.8 quattro	Petrol	142	ACK	02/97-07/98			L/R			DOX-0114	
2.8 quattro	Petrol	142	ALG	06/97-07/98			L/R			DOX-0114	
2.8 quattro	Petrol	142	ALG; AQD	06/97-12/98		Ch: >X-067 800	L/R			DOX-0114	
2.8 quattro	Petrol	142	ALG; AQD	06/97-07/99		Ch: X-067 801>	L/R	DOX-2010		DOX-0150	
2.8 quattro	Petrol	142	ALG; AQD	06/97-07/99		Ch: X-067 801>	L/R	DOX-2035		DOX-0150	
2.8 quattro	Petrol	142	AMX	06/00-05/01			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.8 quattro	Petrol	142	APR	01/99-05/01			L/R	DOX-2010		DOX-0150	
2.8 quattro	Petrol	142	APR	01/99-05/01			L/R	DOX-2035		DOX-0150	
2.8 quattro	Petrol	142	AQD	01/99-05/01	A		L/R	DOX-2010		DOX-0150	
3.0	Petrol	162	ASN	08/01-01/05			L/R		DOX-2008		DOX-0150
3.0	Petrol	162	ASN	08/01-01/05			L/R		DOX-2030		DOX-0150
3.0 quattro	Petrol	160/162	ASN; BBJ	06/01-01/05			L/R		DOX-2008		DOX-0150
3.0 quattro	Petrol	160/162	ASN; BBJ	06/01-01/05			L/R		DOX-2030		DOX-0150
4.2 quattro	Petrol	220	ARS	04/99-05/01	A		L/R	DOX-2010		DOX-0150	
4.2 quattro	Petrol	220	ASG	06/00-01/05	A		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
RS6 plus quattro	Petrol	353	BRV	04/04-09/04	A		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
RS6 plus quattro	Petrol	353	BRV	04/04-09/04	A		L/R	DOX-2035		DOX-0150	
RS6 quattro	Petrol	331	BCY	07/02-09/04	A		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
RS6 quattro	Petrol	331	BCY	07/02-09/04	A		L/R	DOX-2035		DOX-0150	
S6 quattro	Petrol	250	ANK	09/99-01/05			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
S6 quattro	Petrol	250	AQJ	09/99-01/05			L/R	DOX-2010		DOX-0150	
S6 quattro	Petrol	250	AQJ	09/99-01/05			L/R	DOX-2035		DOX-0150	
A6 (04-11)											
2.0 TFSI	Petrol	125	BPJ	06/05-08/11					DOX-2036		DOX-0150
2.4	Petrol	130	BDW	05/04-10/08		For cyl.: 1-3 & 4-6					DOX-0119
2.4 quattro	Petrol	130	BDW	01/05-10/08		For cyl.: 1-3 & 4-6					DOX-0119
2.8 FSI	Petrol	140/154	BDX; CCDA	11/06-08/11		For cyl.: 1-3 & 4-6					DOX-0119
2.8 FSI	Petrol	162	CCEA	10/08-08/11	A	For cyl.: 1-3 & 4-6					DOX-0119
2.8 FSI quattro	Petrol	140/154/162	BDX; CCDA; CCEA	06/07-08/11	A	For cyl.: 1-3 & 4-6					DOX-0119
3.0	Petrol	160	BBJ	03/05-05/06	A	For cyl.: 4-6			DOX-2000		DOX-0150
3.0	Petrol	160	BBJ	03/05-05/06	A	For cyl.: 4-6			DOX-2036		DOX-0150
3.0	Petrol	160	BBJ	03/05-05/06	A	For cyl.: 1-3 & 4-6			DOX-2041		DOX-0150
3.0 quattro	Petrol	160	BBJ	05/04-05/06	A	For cyl.: 4-6			DOX-2000		DOX-0150
3.0 quattro	Petrol	160	BBJ	05/04-05/06	A	For cyl.: 4-6			DOX-2036		DOX-0150
3.0 quattro	Petrol	160	BBJ	05/04-05/06	A	For cyl.: 1-3 & 4-6			DOX-2041		DOX-0150
3.0 TFSI quattro	Petrol	213	CAJA	10/08-08/11	A	For cyl.: 1-3 & 4-6					DOX-0119
3.2 FSI	Petrol	188	AUK	05/04-10/08		For cyl.: 1-3 & 4-6					DOX-0119
3.2 FSI quattro	Petrol	188	AUK	05/04-10/08		For cyl.: 1-3 & 4-6					DOX-0119
4.2 FSI quattro	Petrol	257	BVJ	06/06-03/11	A				DOX-2041	DOX-0150	DOX-0150
4.2 quattro	Petrol	246	BAT	05/04-05/06	A	For cyl.: 1-4			DOX-2000		DOX-0150
4.2 quattro	Petrol	246	BAT	05/04-05/06	A	For cyl.: 1-4			DOX-2036		DOX-0150
4.2 quattro	Petrol	246	BAT	05/04-05/06	A	For cyl.: 1-4 & 5-8			DOX-2041		DOX-0150
4.2 quattro	Petrol	246	BAT	05/04-05/06	A		L/R			DOX-0150	
RS6 quattro	Petrol	426	BUH	04/08-08/10	A						DOX-0150
S6 quattro	Petrol	320	BXA	03/06-08/11	A	For cyl.: 1-3 & 6-8			DOX-2041		DOX-0150
A6 (10-)											
2.0 TFSI	Petrol	132	CDNB	05/11-					DOX-2041		DOX-0150
2.0 TFSI	Petrol	155	CAEB	03/11-05/13	A				DOX-2041		DOX-0150
A6 Allroad (06-11)											
3.0 TFSI quattro	Petrol	213	CAJA	10/08-08/11	A	For cyl.: 1-3 & 4-6					DOX-0119
3.2 FSI quattro	Petrol	188	AUK	05/06-10/08		For cyl.: 1-3 & 4-6					DOX-0119
4.2 FSI quattro	Petrol	257	BVJ	05/06-12/10	A	For cyl.: 1-4			DOX-2036		DOX-0150
4.2 FSI quattro	Petrol	257	BVJ	05/06-12/10	A	For cyl.: 5-8			DOX-2041		DOX-0150
4.2 FSI quattro	Petrol	257	BVJ	05/06-12/10	A		L/R			DOX-0150	

Lambda Sensors

Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
AUDI *continued*											
A8 (94-02)											
2.8	Petrol	120/128	AAH; AEJ	03/94-03/96			L/R	DOX-1381		DOX-0115	
2.8	Petrol	142	ACK; ALG	04/96-09/02			L/R			DOX-0114	
2.8	Petrol	142	AMX; APR	10/98-09/02			L/R	DOX-2010		DOX-0150	DOX-0150
2.8	Petrol	142	AQD	10/98-09/02			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.8	Petrol	142	AQD	10/98-09/02			L/R	DOX-2035		DOX-0150	
2.8 quattro	Petrol	120/128	AAH; AEJ	03/94-03/96			L/R	DOX-1381		DOX-0115	
2.8 quattro	Petrol	142	ACK; ALG	04/96-09/02			L/R			DOX-0114	
2.8 quattro	Petrol	142	AMX	05/00-09/02	A		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.8 quattro	Petrol	142	APR; AQD	10/98-09/02			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
3.7	Petrol	169	AEW	07/95-12/98	A		L/R	DOX-1171		DOX-0117	
3.7	Petrol	191	AKC	05/00-09/02	A		L/R		DOX-2048	DOX-0150	DOX-0150
3.7	Petrol	191	AQG	11/98-09/02	A		L/R			DOX-0150	
3.7 quattro	Petrol	169	AEW; AKJ	04/97-11/98	A		L/R	DOX-1171		DOX-0117	
3.7 quattro	Petrol	191	AKC	05/00-09/02	A		L/R		DOX-2048	DOX-0150	DOX-0150
3.7 quattro	Petrol	191	AQG	11/98-09/02	A		L/R			DOX-0150	
4.2 quattro	Petrol	175/228	ARU; AUW	02/99-09/02	A		L/R		DOX-2048	DOX-0150	DOX-0150
4.2 quattro	Petrol	180/220	AEM; AKG	03/94-11/98	A		L/R	DOX-1171		DOX-0117	
4.2 quattro	Petrol	220	ABZ	03/94-11/98	A		L/R	DOX-1171		DOX-0117	
4.2 quattro	Petrol	220	ABZ	03/94-11/98	A		L/R			DOX-0150	
4.2 quattro	Petrol	228	AQF	11/98-09/02	A		L/R			DOX-0150	
4.2 quattro	Petrol	228	AUW	05/00-09/02	A		L		DOX-2048		DOX-0150
S 8 quattro	Petrol	250	AHC; AKH	07/96-12/98			L/R	DOX-1171		DOX-0117	
S 8 quattro	Petrol	265	AQH	06/99-09/02			L/R			DOX-0150	
S 8 quattro	Petrol	265	AVP	09/00-09/02			L/R			DOX-0150	DOX-0150
S 8 quattro	Petrol	265	AYS; BCS	09/00-09/02	A		L/R			DOX-0150	DOX-0150
A8 (02-10)											
3.0	Petrol	160/162	ASN; BBJ	07/03-05/06	A		L/R				DOX-0150
3.7 quattro	Petrol	206	BFL	10/02-05/06	A		L/R		DOX-2018		DOX-0150
4.2 FSI quattro	Petrol	257	BVJ	06/06-07/10	A	For cyl.: 5-8			DOX-2036		DOX-0150
4.2 FSI quattro	Petrol	257	BVJ	06/06-07/10	A	For cyl.: 1-4			DOX-2041		DOX-0150
4.2 quattro	Petrol	246	BFM	10/02-05/06	A		L/R		DOX-2018		DOX-0150
6.0 W12 quattro	Petrol	331	BHT; BTE	12/03-07/10	A				DOX-2038		DOX-0150
S8 quattro	Petrol	331	BSM	06/06-07/10	A		L/R		DOX-2016		DOX-0150
A8 (09-)											
4.2 FSI quattro	Petrol	273	CDRA	11/09-	A	For cyl.: 1-4			DOX-2016		DOX-0150
4.2 FSI quattro	Petrol	273	CDRA	11/09-	A	For cyl.: 5-8			DOX-2041		DOX-0150
ALLROAD (00-05)											
2.7 T quattro	Petrol	184	ARE	05/00-06/01		Ch: >1 200 000	L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.7 T quattro	Petrol	184	ARE	05/00-08/05			L/R			DOX-0150	DOX-0150
2.7 T quattro	Petrol	184	ARE	06/01-08/05		Ch: 1 200 001>	L/R	DOX-2008	DOX-2023	DOX-0150	DOX-0150
2.7 T quattro	Petrol	184	BES	07/02-08/05			L/R	DOX-2008	DOX-2023	DOX-0150	DOX-0150
4.2 V8 quattro	Petrol	220	BAS	07/02-08/05	A		L/R		DOX-2008		DOX-0150
4.2 V8 quattro	Petrol	220	BAS	07/02-08/05	A		L/R		DOX-2030		DOX-0150
CABRIOLET (93-00)											
1.8	Petrol	92	ADR	01/97-08/00				DOX-1362		DOX-0117	
2.0 16V	Petrol	103	ACE	06/95-07/96	M					DOX-0115	
2.0 E	Petrol	85	ABK	01/93-07/98	M					DOX-0115	
2.0 E	Petrol	85	ABK	01/93-07/98	M	+ Catalyst		DOX-1351		DOX-0115	
2.3 E	Petrol	98	NG	05/91-07/94						DOX-0115	
2.6	Petrol	110	ABC	01/94-08/00			L/R	DOX-1352		DOX-0116	
2.8	Petrol	128	AAH	11/92-08/00			L/R	DOX-1381		DOX-0115	
COUPE (88-96)											
2.0	Petrol	82/85	3A; AAD; ABK	05/89-12/96						DOX-0115	
2.0	Petrol	83	3A	05/89-03/90						DOX-0115	
2.0	Petrol	83/85	3A; ABK	05/89-01/96		+ Catalyst		DOX-1351		DOX-0115	
2.0 16 V	Petrol	101/103	6A; ACE	01/92-12/96						DOX-0115	
2.3	Petrol	98/100	NG	10/88-07/94						DOX-0115	
2.3 20V	Petrol	123/125	7A	08/89-07/91						DOX-0115	
2.3 20V quattro	Petrol	123	7A	05/90-07/91	M					DOX-0115	
2.3 20V quattro	Petrol	125	7A	11/88-07/91						DOX-0115	
2.3 quattro	Petrol	98/100	NG	11/88-07/94						DOX-0115	
2.6	Petrol	110	ABC	08/92-12/96				DOX-1381		DOX-0115	
2.6 quattro	Petrol	110	ABC	08/92-12/96				DOX-1381		DOX-0115	
2.8	Petrol	128	AAH	09/91-07/92		Ch: >N-015 000		DOX-1352		DOX-0116	
2.8	Petrol	128	AAH	08/92-03/95		Ch: P-000 001>		DOX-1381		DOX-0115	
2.8	Petrol	128	AAH	07/94-03/95				DOX-1381		DOX-0115	
2.8 quattro	Petrol	128	AAH	08/91-01/93	M	Ch: >P-004 500		DOX-1352		DOX-0116	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
AUDI *continued*											
COUPE (88-96) *continued*											
2.8 quattro	Petrol	128	AAH	08/91-05/95	M	Ch: P-004 501>		DOX-1381		DOX-0115	
2.8 quattro	Petrol	128	AAH	08/94-05/95	M			DOX-1381		DOX-0115	
S2 quattro	Petrol	169	ABY	10/92-05/95	M					DOX-0115	
S2 quattro	Petrol	169	ABY	10/92-05/95	M	+ Catalyst		DOX-1351		DOX-0115	
Q3 (11-)											
2.0 TFSI quattro	Petrol	125/155	CCZC; CPSA	06/11-	A				DOX-2041		DOX-0150
Q5 (08-)											
2.0 TFSI quattro	Petrol	132	CDNB	08/09-	M				DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CAEB	05/10-	A				DOX-2041		DOX-0150
2.0 TFSI quattro	Petrol	155	CDNC	11/08-					DOX-2041		DOX-0150
Q7 (06-)											
3.6 FSI	Petrol	206	BHK	08/06-05/10			L		DOX-2016		DOX-0150
3.6 FSI	Petrol	206	BHK	08/06-05/10			R		DOX-2036		DOX-0150
4.2 FSI	Petrol	257	BAR	03/06-05/10	A						DOX-0150
4.2 FSI	Petrol	257	BAR	06/09-05/10	A		L/R				DOX-0150
QUATTRO (80-91)											
2.2 20V	Petrol	162	RR	08/89-07/91						DOX-0115	
R8 (07-)											
4.2 FSI quattro	Petrol	309	BYH	04/07-09/10		For cyl.: 5-8			DOX-2036		DOX-0150
4.2 FSI quattro	Petrol	309	BYH	04/07-09/10		For cyl.: 1-4					DOX-0150
5.2 FSI quattro	Petrol	386	BUJ	04/09-		For cyl.: 6-10			DOX-2036		DOX-0150
5.2 FSI quattro	Petrol	386	BUJ	04/09-		For cyl.: 1-5					DOX-0150
5.2 FSI quattro	Petrol	386	BUJ	02/10-		For cyl.: 1-5					DOX-0150
5.2 FSI quattro	Petrol	386	BUJ	02/10-		For cyl.: 6-10					DOX-0150
TT (98-06)											
1.8 T	Petrol	110/120	AUM; BVP	01/01-06/06	M				DOX-2027		DOX-0150
1.8 T	Petrol	132	AJQ	10/98-06/06	M			DOX-2027		DOX-0150	
1.8 T	Petrol	132	APP	10/99-06/06	M			DOX-2027	DOX-2000	DOX-0150	DOX-0150
1.8 T	Petrol	132/140	AUQ; BVR	09/00-06/06					DOX-2027		DOX-0150
1.8 T quattro	Petrol	132	AJQ	10/98-06/06	M			DOX-2047		DOX-0150	
1.8 T quattro	Petrol	132	AUQ	06/05-06/06					DOX-2027		DOX-0150
1.8 T quattro	Petrol	132/140/176	ARY; BFV; BVR	09/00-06/06					DOX-2008		DOX-0150
1.8 T quattro	Petrol	165	APX	10/98-06/06	M			DOX-2015		DOX-0150	
1.8 T quattro	Petrol	165	BAM	09/00-06/06	M	Ch: >1-034 000			DOX-2047		DOX-0150
1.8 T quattro	Petrol	165	BAM	09/00-06/06	M	Ch: 1-034 001>			DOX-2008		DOX-0150
3.2 VR6 quattro	Petrol	184	BHE	07/03-06/06			L		DOX-2018		DOX-0150
3.2 VR6 quattro	Petrol	184	BHE	07/03-06/06			R		DOX-2000		DOX-0150
TT (06-)											
1.8 TFSI	Petrol	118	CDAA	06/08-	M						DOX-0150
2.0 quattro	Petrol	195	CDLA	05/08-							DOX-0150
2.0 TFSI	Petrol	147/155	BWA; CESA	08/06-							DOX-0150
2.0 TFSI quattro	Petrol	147/155	CCZA; CESA; CETA	06/08-	A						DOX-0150
2.0 TFSI quattro	Petrol	200	CDLB	05/08-							DOX-0150
2.5 TFSI RS quattro	Petrol	250	CEPA	07/09-	M				DOX-2041		DOX-0150
V8 (88-94)											
3.6 quattro	Petrol	180	PT	04/93-07/93	M					DOX-0115	
3.6 quattro	Petrol	180	PT	04/93-07/93	M	+ Catalyst		DOX-1351		DOX-0115	
3.6 quattro	Petrol	184	PT	10/88-07/93						DOX-0115	
3.6 quattro	Petrol	184	PT	10/88-07/93		+ Catalyst		DOX-1351		DOX-0115	
4.2 quattro	Petrol	206	ABH	10/91-07/93						DOX-0115	
4.2 quattro	Petrol	206	ABH	10/91-07/93		+ Catalyst		DOX-1351		DOX-0115	
BMW											
1 (E81, E87)											
116 i	Petrol	85	N45B16	03/07-08/07	M				DOX-2046		DOX-0150
116 i	Petrol	90	N43 B20 A; N43B16A; N43B16O0	03/07-09/12					DOX-2046		DOX-0150
118 i	Petrol	105	N43B20U0	09/06-09/12					DOX-2046		DOX-0150
120 i	Petrol	125	N43B20O0	09/06-09/12					DOX-2046		DOX-0150
130 i	Petrol	190	N52B30A	09/09-09/12			L		DOX-2046		DOX-0150
130 i	Petrol	190	N52B30A	09/09-09/12			R		DOX-2026		DOX-0150
130 i	Petrol	195	N52B30A	09/06-12/06		For cyl.: 1-3 & 4-6					DOX-0150
130 i	Petrol	195	N52B30A; N52B30O1	09/06-09/09		For cyl.: 4-6			DOX-2026		DOX-0150
130 i	Petrol	195	N52B30A; N52B30O1	09/06-09/09		For cyl.: 1-3			DOX-2046		DOX-0150
130 i	Petrol	195	N52B30O1	01/07-09/09		For cyl.: 1-3 (L)	L		DOX-2046		DOX-0150
130 i	Petrol	195	N52B30O1	01/07-09/09		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
130 i	Petrol	195	N52B30O1	03/07-09/09		For cyl.: 1-3					DOX-0150
130 i	Petrol	195	N52B30O1	03/07-09/09		For cyl.: 4-6					DOX-0150

Lambda Sensors

Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
BMW *continued*											
1 (E82)											
120 i	Petrol	125	N43 B20 A; N46 B20 B	09/09-					DOX-2046		DOX-0150
125 i	Petrol	160	N53 B30 A	03/08-			L		DOX-2046		DOX-0150
125 i	Petrol	160	N53 B30 A	03/08-			R		DOX-2026		DOX-0150
135 i	Petrol	225	N54B30O0	10/07-		For cyl.: 1-3 (L)	L		DOX-2046		DOX-0150
135 i	Petrol	225	N54B30O0	10/07-		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
M	Petrol	250	N54 B30 A	04/11-06/12	M		L		DOX-2046		DOX-0150
M	Petrol	250	N54 B30 A	04/11-06/12	M		R		DOX-2026		DOX-0150
1 (E88)											
118 i	Petrol	105	N43 B20 A	03/08-					DOX-2046		DOX-0150
120 i	Petrol	125	N43 B20 A	03/08-					DOX-2046		DOX-0150
125 i	Petrol	160	N52 B30 A	03/08-			L		DOX-2046		DOX-0150
125 i	Petrol	160	N52 B30 A	03/08-			R		DOX-2026		DOX-0150
135 i	Petrol	225	N54B30O0	03/08-			L		DOX-2046		DOX-0150
135 i	Petrol	225	N54B30O0	03/08-			R		DOX-2026		DOX-0150
3 (E30)											
316 i	Petrol	73/75	M40 B16	07/88-09/93				DOX-1364		DOX-0118	
318 i	Petrol	75/77	M10 B18	09/82-08/88						DOX-0120	
318 i	Petrol	75/77	M10 B18	09/82-08/88						DOX-0125	
318 i	Petrol	83/85	M40 B18	09/87-09/93				DOX-1364		DOX-0118	
320 i	Petrol	93	M20 B20	09/87-12/92	M			DOX-1364		DOX-0118	
320 i	Petrol	95	M20 B20	12/85-07/91				DOX-1364		DOX-0118	
325 e 2.7	Petrol	90	M20 B27	12/86-08/87						DOX-0118	
325 i	Petrol	125/126	M20 B25	09/85-03/93				DOX-1364		DOX-0118	
325 i X	Petrol	125/126	M20 B25	03/86-12/87						DOX-0118	
3 (E36)											
316 g	Bi-Fuel	75	M43 B16	03/94-08/00				DOX-1318		DOX-0118	
316 i	Petrol	73	M40 B16	09/90-09/93				DOX-1364		DOX-0118	
316 i	Petrol	75	M43 B16	07/93-08/00				DOX-1318		DOX-0118	
316 i	Petrol	75	M43 B16	07/93-08/00				DOX-1364		DOX-0118	
318 i	Petrol	83	M40 B18	12/90-10/93				DOX-1364		DOX-0118	
318 i	Petrol	85	M43 B18	10/93-10/99				DOX-1318		DOX-0118	
318 i	Petrol	85	M43 B18	10/93-10/99				DOX-1364		DOX-0118	
318 is	Petrol	103	M42 B18	03/92-06/96				DOX-1317		DOX-0118	
318 is	Petrol	103	M42 B18	03/92-06/96				DOX-1364		DOX-0118	
318 is	Petrol	103	M44 B19	09/95-02/98				DOX-1174		DOX-0117	
318 is	Petrol	103	M44 B19	09/98-04/99	A		L/R	DOX-1174		DOX-0117	
318 ti	Petrol	103	M42 B18	11/94-08/95				DOX-1317		DOX-0118	
318 ti	Petrol	103	M44 B19	01/96-08/00				DOX-1174		DOX-0117	
320 i	Petrol	110	M50B20	09/90-02/98						DOX-0118	
320 i	Petrol	110	M50B20	09/90-02/98	A			DOX-1319		DOX-0118	
320 i	Petrol	110	M50B20	09/90-02/98	M			DOX-1317		DOX-0118	
320 i	Petrol	110	M52B20	09/90-10/99			L/R	DOX-1368			
323 i	Petrol	125	M52 B25 (Vanos)	06/95-10/99			L/R	DOX-1368			
323 i 2.5	Petrol	125	M52 B25 (Vanos)	09/95-02/98			L/R	DOX-1368			
323 ti	Petrol	125	M52 B25 (Vanos)	08/97-08/00			L/R	DOX-1368	DOX-1368		
325 i	Petrol	141	M50B25	09/90-07/95	M			DOX-1317		DOX-0118	
325 i	Petrol	141	M50B25	09/90-09/95	A			DOX-1319		DOX-0118	
328 i	Petrol	142	M52B28	09/95-10/99			L/R	DOX-1368			
3 (E46)											
316 i	Petrol	77	M43 B19 (194E1)	09/98-02/05				DOX-1174	DOX-1175	DOX-0117	DOX-0117
316 i	Petrol	85	N42B18; N42B18VVT	02/02-02/05		Euro 2, Euro 3 and Euro 4					DOX-0117
316 ti	Petrol	85	N42B18VVT	06/01-02/04		Euro 2, Euro 3 and Euro 4					DOX-0117
318 Ci	Petrol	105	N42B20A; N42B20VVT	09/01-03/04		Euro 2, Euro 3 and Euro 4					DOX-0117
318 Ci	Petrol	87	M43 B19	11/99-09/01				DOX-1174	DOX-1175	DOX-0117	DOX-0117
318 i	Petrol	105	N42B20A; N42B20VVT	09/01-02/05		Euro 2, Euro 3 and Euro 4					DOX-0117
318 i	Petrol	87	M43B19E46	02/98-09/01				DOX-1174	DOX-1175	DOX-0117	DOX-0117
318 ti	Petrol	105	N42B20VVT	09/01-02/04		Euro 2, Euro 3 and Euro 4					DOX-0117
320 Ci	Petrol	110	M52B20	08/99-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
320 Ci	Petrol	125	M54B22	09/00-05/06		For cyl.: 1-3 & 4-6				DOX-0117	
320 Ci	Petrol	125	M54B22	09/00-07/06		For cyl.: 1-3		DOX-1099		DOX-0117	
320 Ci	Petrol	125	M54B22	09/00-07/06		For cyl.: 1-3 & 4-6				DOX-0117	
320 Ci	Petrol	125	M54B22	09/00-07/06			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
320 i	Petrol	110	M52B20	03/98-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
BMW *continued*											
3 (E46) *continued*											
320 i	Petrol	125	M54B22	09/00-02/05		For cyl.: 1-3		DOX-1099		DOX-0117	
320 i	Petrol	125	M54B22	09/00-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
320 i	Petrol	125	M54B22	09/00-02/05			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
320 i	Petrol	125	M54B22	09/01-02/05		For cyl.: 1-3				DOX-0117	
320 i	Petrol	125	M54B22	09/01-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
323 Ci	Petrol	125	M52 B25 (Vanos)	04/99-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
323 i	Petrol	125	M52B25	03/98-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
325 Ci	Petrol	141	M54 256 S5	09/00-08/05		For cyl.: 1-3				DOX-0117	
325 Ci	Petrol	141	M54 256 S5	09/00-08/05		For cyl.: 1-3 & 4-6				DOX-0117	
325 Ci	Petrol	141	M54 256 S5	09/00-05/06		For cyl.: 1-3		DOX-1099		DOX-0117	
325 Ci	Petrol	141	M54 256 S5	09/00-05/06		For cyl.: 1-3 & 4-6				DOX-0117	
325 Ci	Petrol	141	M54 256 S5	09/00-05/06			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
325 i	Petrol	141	M54B25	09/00-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
325 i	Petrol	141	M54B25	09/01-12/02		For cyl.: 1-3 & 4-6				DOX-0117	
325 i	Petrol	141	M54B25; M54B256S5	09/00-02/05		For cyl.: 1-3		DOX-1099		DOX-0117	
325 i	Petrol	141	M54B25; M54B256S5	09/00-02/05			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
325 i	Petrol	141	M54B256S5	01/03-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
325 ti	Petrol	141	M54B25	06/01-02/05		For cyl.: 1-3		DOX-1099		DOX-0117	
325 ti	Petrol	141	M54B25	06/01-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
325 ti	Petrol	141	M54B25	06/01-02/05			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
325 xi	Petrol	141	M54 256 S5	09/00-02/05			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
328 Ci	Petrol	142	M52 B28	04/99-06/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
328 i	Petrol	142	M52 B28	02/98-06/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
330 Ci	Petrol	170	M54 306 S3	06/00-05/06		For cyl.: 1-3 & 4-6				DOX-0117	
330 Ci	Petrol	170	M54 306 S3	06/00-08/06		For cyl.: 1-3		DOX-1099		DOX-0117	
330 Ci	Petrol	170	M54 306 S3	06/00-08/06			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
330 i	Petrol	170	M54B30	01/03-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
330 i	Petrol	170	M54B30 (306S3)	06/00-12/02		For cyl.: 1-3				DOX-0117	
330 i	Petrol	170	M54B30 (306S3)	06/00-12/02		For cyl.: 1-3 & 4-6				DOX-0117	
330 i	Petrol	170	M54B30 (306S3)	09/01-02/05		For cyl.: 1-3				DOX-0117	
330 i	Petrol	170	M54B30 (306S3)	09/01-02/05		For cyl.: 1-3 & 4-6				DOX-0117	
330 i	Petrol	170	M54B30 (306S3); M54B30	06/00-02/05		For cyl.: 1-3		DOX-1099		DOX-0117	
330 i	Petrol	170	M54B30 (306S3); M54B30	06/00-02/05			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
330 xi	Petrol	170	M54 306 S3	06/00-02/05			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
3 (E90)											
316 i	Petrol	85/90	N43 B16 A; N43B16A	02/07-12/11					DOX-2046		DOX-0150
316 i	Petrol	90	N43 B16 A	09/08-12/11	M				DOX-2046		DOX-0150
318 i	Petrol	105	N43 B20 A	09/07-12/11					DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	09/07-12/11					DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	09/07-12/11			L		DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	05/08-12/11	M				DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N52B25O0; N53B30U0	01/05-12/11			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N52B25O0; N53B30U0	01/05-12/11			R		DOX-2026		DOX-0150
325 i xDrive	Petrol	160	N53 B30 A	09/08-12/11			L		DOX-2046		DOX-0150
325 i xDrive	Petrol	160	N53 B30 A	09/08-12/11			R		DOX-2026		DOX-0150
325 xi	Petrol	160	N52 B25 A; N53 B30 A	09/05-12/11			L		DOX-2046		DOX-0150
325 xi	Petrol	160	N52 B25 A; N53 B30 A	09/05-12/11			R		DOX-2026		DOX-0150
330 i	Petrol	190/200	N52B30A (N52N); N52B30O0; N53B30O0	01/05-12/11			L		DOX-2046		DOX-0150
330 i	Petrol	190/200	N52B30A (N52N); N52B30O0; N53B30O0	01/05-12/11			R		DOX-2026		DOX-0150
330 i xDrive	Petrol	200	N53 B30 A	09/08-12/11			L		DOX-2046		DOX-0150
330 i xDrive	Petrol	200	N53 B30 A	09/08-12/11			R		DOX-2026		DOX-0150
330 xi	Petrol	190/200	N52 B30 A; N53 B30 A	09/05-09/08			L		DOX-2046		DOX-0150
330 xi	Petrol	190/200	N52 B30 A; N53 B30 A	09/05-09/08			R		DOX-2026		DOX-0150
335 i	Petrol	220/225	N54B30O0	10/06-12/11			L		DOX-2046		DOX-0150
335 i	Petrol	220/225	N54B30O0	10/06-12/11			R		DOX-2026		DOX-0150
335 i xDrive	Petrol	225	N54B30O0	09/08-12/11			L		DOX-2046		DOX-0150
335 i xDrive	Petrol	225	N54B30O0	09/08-12/11			R		DOX-2026		DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
BMW *continued*											
3 (E90) *continued*											
335 xi	Petrol	225	N54B30O0	09/07-09/08			L		DOX-2046		DOX-0150
335 xi	Petrol	225	N54B30O0	09/07-09/08			R		DOX-2026		DOX-0150
M3 4.0	Petrol	309	S65 B40	12/07-12/11	M		L/R		DOX-2037		DOX-0150
3 (E91)											
316 i	Petrol	90	N43 B16 A	09/08-	M				DOX-2046		DOX-0150
318 i	Petrol	105	N43 B20 A	09/07-					DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	09/07-					DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	03/08-			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N52B25O0; N53B30U0	09/05-			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N52B25O0; N53B30U0	09/05-			R		DOX-2026		DOX-0150
325 i xDrive	Petrol	160	N53 B30 A	09/08-	M		L		DOX-2046		DOX-0150
325 i xDrive	Petrol	160	N53 B30 A	09/08-	M		R		DOX-2026		DOX-0150
325 xi	Petrol	160	N52 B25 C; N53 B30 A	09/05-			L		DOX-2046		DOX-0150
325 xi	Petrol	160	N52 B25 C; N53 B30 A	09/05-			R		DOX-2026		DOX-0150
330 i	Petrol	190/200	N52B30O0; N53 B30	09/05-			L		DOX-2046		DOX-0150
330 i	Petrol	190/200	N52B30O0; N53 B30	09/05-			R		DOX-2026		DOX-0150
330 i xDrive	Petrol	200	N53 B30 A	09/08-			L		DOX-2046		DOX-0150
330 i xDrive	Petrol	200	N53 B30 A	09/08-			R		DOX-2026		DOX-0150
330 xi	Petrol	190/200	N52 B30 A; N53 B30 A	09/05-08/08			L		DOX-2046		DOX-0150
330 xi	Petrol	190/200	N52 B30 A; N53 B30 A	09/05-08/08			R		DOX-2026		DOX-0150
335 i	Petrol	225	N54B30O0	09/06-			L		DOX-2046		DOX-0150
335 i	Petrol	225	N54B30O0	09/06-			R		DOX-2026		DOX-0150
335 i xDrive	Petrol	225	N54B30O0	09/08-			L		DOX-2046		DOX-0150
335 i xDrive	Petrol	225	N54B30O0	09/08-			R		DOX-2026		DOX-0150
335 xi	Petrol	225	N54B30O0	09/07-08/08			L		DOX-2046		DOX-0150
335 xi	Petrol	225	N54B30O0	09/07-08/08			R		DOX-2026		DOX-0150
3 (E92)											
320 i	Petrol	125	N43 B20 A	03/07-					DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	09/09-			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N52B25O0; N53B30A (N53); N53B30U0	09/06-			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N52B25O0; N53B30A (N53); N53B30U0	09/06-			R		DOX-2026		DOX-0150
325 i xDrive	Petrol	160	N53 B30 A	02/10-			L		DOX-2046		DOX-0150
325 i xDrive	Petrol	160	N53 B30 A	02/10-			R		DOX-2026		DOX-0150
325 xi	Petrol	160	N52B25A; N52B25O0; N53 B30 A	09/06-			L		DOX-2046		DOX-0150
325 xi	Petrol	160	N52B25A; N52B25O0; N53 B30 A	09/06-			R		DOX-2026		DOX-0150
330 i	Petrol	200	N52B30A (N52N); N52B30A; N53B30A (N53); N53B30O0	09/06-			L		DOX-2046		DOX-0150
330 i	Petrol	200	N52B30A (N52N); N52B30A; N53B30A (N53); N53B30O0	09/06-			R		DOX-2026		DOX-0150
330 i xDrive	Petrol	200	N53 B30 A	09/08-			L		DOX-2046		DOX-0150
330 i xDrive	Petrol	200	N53 B30 A	09/08-			R		DOX-2026		DOX-0150
330 xi	Petrol	200	N52 B30 A	09/06-08/07			L		DOX-2046		DOX-0150
330 xi	Petrol	200	N52 B30 A	09/06-08/07			R		DOX-2026		DOX-0150
335 i	Petrol	225	N54B30O0	09/06-			L		DOX-2046		DOX-0150
335 i	Petrol	225	N54B30O0	09/06-			R		DOX-2026		DOX-0150
335 i xDrive	Petrol	225	N54B30O0	09/08-			L		DOX-2046		DOX-0150
335 i xDrive	Petrol	225	N54B30O0	09/08-			R		DOX-2026		DOX-0150
M	Petrol	309	S65 B40	09/07-	M		L/R		DOX-2037		DOX-0150
3 (E93)											
320 i	Petrol	125	N43 B20 A	03/07-					DOX-2046		DOX-0150
320 i	Petrol	125	N43 B20 A	09/09-			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N53B30A (N53); N53B30U0	03/07-			L		DOX-2046		DOX-0150
325 i	Petrol	160	N52B25A; N53B30A (N53); N53B30U0	03/07-			R		DOX-2026		DOX-0150
330 i	Petrol	200	N52B30A (N52N); N53B30A (N53); N53B30O0	03/07-			L		DOX-2046		DOX-0150
330 i	Petrol	200	N52B30A (N52N); N53B30A (N53); N53B30O0	03/07-			R		DOX-2026		DOX-0150
335 i	Petrol	225	N54B30O0	03/07-			L		DOX-2046		DOX-0150
335 i	Petrol	225	N54B30O0	03/07-			R		DOX-2026		DOX-0150
M3	Petrol	309	S65 B40	02/08-	M		L/R		DOX-2037		DOX-0150
5 (E34)											
518 i	Petrol	83	M40 B18	10/93-09/95				DOX-1364		DOX-0118	
518 i	Petrol	85	M43 B18	09/94-09/96	M			DOX-1364		DOX-0118	
520 i	Petrol	110	M50B20	11/91-06/92				DOX-1369		DOX-0118	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
BMW *continued*											
5 (E34) *continued*											
520 i	Petrol	95	M20 B20	01/88-07/90				DOX-1364		DOX-0118	
520 i 24V	Petrol	110	M50B20	03/90-06/92				DOX-1369		DOX-0118	
525 i	Petrol	125	M20 B25	01/88-08/90				DOX-1364		DOX-0118	
525 i	Petrol	141	M50B25	11/91-09/96				DOX-1369		DOX-0118	
525 i 24V	Petrol	141	M50B25	03/90-09/95				DOX-1369		DOX-0118	
525 ix	Petrol	141	M50B25	02/92-03/96				DOX-1369		DOX-0118	
525 iX 24V	Petrol	141	M52 B25 (Vanos)	10/91-09/95				DOX-1369		DOX-0118	
530 i	Petrol	138	M30 B30	01/88-06/90						DOX-0120	
535 i	Petrol	155	M30 B35	01/88-04/93						DOX-0120	
M 3.6	Petrol	232	S38 B36	10/88-12/91	M					DOX-0120	
M 3.6 CAT	Petrol	232	S38 B36	10/88-12/91	M					DOX-0120	
M 3.8	Petrol	250	S38 B38	03/92-09/95	M					DOX-0120	
5 (E39)											
520 i	Petrol	100	M52 B(20 6 S3) Vanos	04/99-05/04			L/R	DOX-1174		DOX-0117	
520 i	Petrol	110	M52B20	07/96-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
520 i	Petrol	110	M52B20	07/96-09/00			L/R	DOX-1368			
520 i	Petrol	125	M54 B22	09/00-05/04			L/R	DOX-1099	DOX-1175	DOX-0117	DOX-0117
520 i	Petrol	125	M54 B22	09/00-05/04			L/R	DOX-1174		DOX-0117	
523 i	Petrol	125	M52B25	11/95-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
523 i	Petrol	125	M52B25	11/95-09/00			L/R	DOX-1368			
525 i	Petrol	141	M54B25	09/00-05/04			L/R	DOX-1099	DOX-1175	DOX-0117	DOX-0117
525 i	Petrol	141	M54B25	09/00-05/04			L/R	DOX-1174		DOX-0117	
528 i	Petrol	142	M52B28	11/95-09/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
528 i	Petrol	142	M52B28	11/95-09/00			L/R	DOX-1368			
530 i	Petrol	170	M54B30 (306S3)	09/00-05/04			L/R	DOX-1099	DOX-1175	DOX-0117	DOX-0117
530 i	Petrol	170	M54B30 (306S3)	09/00-05/04			L/R	DOX-1174		DOX-0117	
535 i	Petrol	173/180	M62B35	04/96-06/03			L/R	DOX-1174		DOX-0117	DOX-0117
540 i	Petrol	210	448S1 (M62B44); 448S2 (M62B44)	04/96-05/04			L/R	DOX-1174		DOX-0117	DOX-0117
M 4.9	Petrol	294	S62B50	07/99-06/03	M		L/R	DOX-1174		DOX-0117	DOX-0117
5 (E60)											
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 1-3 (L)	L/R		DOX-1175		DOX-0117
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 4-6 (R)	L/R		DOX-1175		DOX-0117
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 1-3 (L)	L/R	DOX-1099		DOX-0117	
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 4-6 (R)	L/R	DOX-1099		DOX-0117	
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 1-3 (L)	L/R	DOX-1174		DOX-0117	
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 4-6 (R)	L/R	DOX-1174		DOX-0117	
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 1-3 (L)	L/R				DOX-0117
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 4-6 (R)	L/R				DOX-0117
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 1-3 (L)	L/R			DOX-0117	
520 i	Petrol	125	M54B22	07/03-03/05		For cyl.: 4-6 (R)	L/R			DOX-0117	
523 i	Petrol	130	N52B25UL	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
523 i	Petrol	130	N52B25UL	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
523 i	Petrol	140	N52 B25 A	01/07-03/10		For cyl.: 4-6			DOX-2039		DOX-0150
523 i	Petrol	140	N52 B25 A	01/07-03/10		For cyl.: 1-3			DOX-2046		DOX-0150
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 1-3 (L)	L/R		DOX-1175		DOX-0117
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 4-6 (R)	L/R		DOX-1175		DOX-0117
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 1-3 (L)	L/R	DOX-1099		DOX-0117	
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 4-6 (R)	L/R	DOX-1099		DOX-0117	
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 1-3 (L)	L/R	DOX-1174		DOX-0117	
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 4-6 (R)	L/R	DOX-1174		DOX-0117	
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 1-3 (L)	L/R				DOX-0117
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 4-6 (R)	L/R				DOX-0117
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 1-3 (L)	L/R			DOX-0117	
525 i	Petrol	141	M54B256S5	09/03-02/05		For cyl.: 4-6 (R)	L/R			DOX-0117	
525 i	Petrol	160	N52B25O0	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
525 i	Petrol	160	N52B25O0	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
525 i	Petrol	160	N53B30U0	01/07-03/10		For cyl.: 4-6			DOX-2039		DOX-0150
525 i	Petrol	160	N53B30U0	01/07-03/10		For cyl.: 1-3			DOX-2046		DOX-0150
525 i xDrive	Petrol	160	N53 B30 A	09/08-03/10		For cyl.: 4-6			DOX-2039		DOX-0150
525 i xDrive	Petrol	160	N53 B30 A	09/08-03/10		For cyl.: 1-3			DOX-2046		DOX-0150
525 i xDrive	Petrol	160	N53 B30 A	09/08-03/10		For cyl.: 1-3 & 4-6					DOX-0150
525 xi	Petrol	160	N52 B25 A	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
525 xi	Petrol	160	N52 B25 A	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 1-3 (L)	L/R		DOX-1175		DOX-0117
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 4-6 (R)	L/R		DOX-1175		DOX-0117
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 1-3 (L)	L/R	DOX-1099		DOX-0117	

Lambda Sensors

Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
BMW *continued*											
5 (E60) *continued*											
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 4-6 (R)	L/R	DOX-1099		DOX-0117	
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 1-3 (L)	L/R	DOX-1174		DOX-0117	
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 4-6 (R)	L/R	DOX-1174		DOX-0117	
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 1-3 (L)	L/R			DOX-0117	DOX-0117
530 i	Petrol	170	M54B30 (306S3)	07/03-02/05		For cyl.: 4-6 (R)	L/R			DOX-0117	DOX-0117
530 i	Petrol	190	N52B30O0	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
530 i	Petrol	190	N52B30O0	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
530 i	Petrol	200	N53B30O0	01/07-03/10		For cyl.: 4-6			DOX-2039		DOX-0150
530 i	Petrol	200	N53B30O0	01/07-03/10		For cyl.: 1-3			DOX-2046		DOX-0150
530 i xDrive	Petrol	200	N53 B30 A	09/08-03/10		For cyl.: 4-6			DOX-2039		DOX-0150
530 i xDrive	Petrol	200	N53 B30 A	09/08-03/10		For cyl.: 1-3			DOX-2046		DOX-0150
530 xi	Petrol	190	N52 B30 A	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
530 xi	Petrol	190	N52 B30 A	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
540 i	Petrol	225	N62 B40 A	01/07-03/10			L		DOX-2046		DOX-0150
540 i	Petrol	225	N62 B40 A	01/07-03/10			R		DOX-2037		DOX-0150
540 i	Petrol	225	N62B40TU	08/05-12/06	M	For cyl.: 1-4 (R)	R		DOX-2037		DOX-0150
550 i	Petrol	270	N62 B48 B	07/05-12/06		For cyl.: 5-8 (L)	L		DOX-2046		DOX-0150
550 i	Petrol	270	N62 B48 B	07/05-12/06		For cyl.: 1-4 (R)	R		DOX-2037		DOX-0150
550 i	Petrol	270	N62 B48 B	01/07-03/10			L		DOX-2046		DOX-0150
550 i	Petrol	270	N62 B48 B	01/07-03/10			R		DOX-2037		DOX-0150
5 (E61)											
523 i	Petrol	130	N52B25UL	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
523 i	Petrol	130	N52B25UL	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
523 i	Petrol	140	N52 B25 A	01/07-09/10		For cyl.: 4-6			DOX-2039		DOX-0150
523 i	Petrol	140	N52 B25 A	01/07-09/10		For cyl.: 1-3			DOX-2046		DOX-0150
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 1-3 (L)	L/R		DOX-1175		DOX-0117
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 4-6 (R)	L/R		DOX-1175		DOX-0117
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 1-3 (L)	L/R	DOX-1099		DOX-0117	
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 4-6 (R)	L/R	DOX-1099		DOX-0117	
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 1-3 (L)	L/R	DOX-1174		DOX-0117	
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 4-6 (R)	L/R	DOX-1174		DOX-0117	
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 1-3 (L)	L/R				DOX-0117
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 4-6 (R)	L/R				DOX-0117
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 1-3 (L)	L/R			DOX-0117	
525 i	Petrol	141	M54B256S5	06/04-02/05		For cyl.: 4-6 (R)	L/R			DOX-0117	
525 i	Petrol	160	N52B25O0	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
525 i	Petrol	160	N52B25O0	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
525 i	Petrol	160	N53B30U0	01/07-09/10		For cyl.: 4-6			DOX-2039		DOX-0150
525 i	Petrol	160	N53B30U0	01/07-09/10		For cyl.: 1-3			DOX-2046		DOX-0150
525 i xDrive	Petrol	160	N53 B30 A	09/08-09/08		For cyl.: 4-6			DOX-2039		DOX-0150
525 i xDrive	Petrol	160	N53 B30 A	09/08-09/08		For cyl.: 1-3			DOX-2046		DOX-0150
525 xi	Petrol	160	N52 B25 A	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
525 xi	Petrol	160	N52 B25 A	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
530 i	Petrol	190	N52B30O0	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
530 i	Petrol	190	N52B30O0	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
530 i	Petrol	200	N53B30O0	01/07-09/10		For cyl.: 4-6			DOX-2039		DOX-0150
530 i	Petrol	200	N53B30O0	01/07-09/10		For cyl.: 1-3			DOX-2046		DOX-0150
530 i xDrive	Petrol	200	N53 B30 A	09/08-09/10		For cyl.: 4-6			DOX-2039		DOX-0150
530 i xDrive	Petrol	200	N53 B30 A	09/08-09/10		For cyl.: 1-3			DOX-2046		DOX-0150
530 xi	Petrol	190	N52 B30 A	07/05-12/06		For cyl.: 1-3 (L)	L		DOX-2037		DOX-0150
530 xi	Petrol	190	N52 B30 A	07/05-12/06		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
550 i	Petrol	270	N62B48O1	01/07-09/10			L		DOX-2046		DOX-0150
550 i	Petrol	270	N62B48O1	01/07-09/10			R		DOX-2037		DOX-0150
550 i	Petrol	270	N62B48TU	07/05-12/06		For cyl.: 5-8 (L)	L		DOX-2046		DOX-0150
550 i	Petrol	270	N62B48TU	07/05-12/06		For cyl.: 1-4 (R)	R		DOX-2037		DOX-0150
5 (F10)											
523 i	Petrol	150	N53 B30 A	03/10-09/11	A	For cyl.: 1-3			DOX-2046		DOX-0150
523 i	Petrol	150	N53 B30 A	03/10-09/11	A	For cyl.: 1-3, - PS					DOX-0150
523 i	Petrol	150	N53 B30 A	03/10-09/11	A	For cyl.: 4-6, + PS			DOX-2039		DOX-0150
523 i	Petrol	150	N53 B30 A	03/10-09/11	A	For cyl.: 1-3 & 4-6, + PS					DOX-0150
528 i	Petrol	190	N53 B30 A	03/10-09/11	A	For cyl.: 4-6			DOX-2026		DOX-0150
528 i	Petrol	190	N53 B30 A	03/10-09/11	A	For cyl.: 1-3			DOX-2046		DOX-0150
550 i	Petrol	300	N63 B44 A	03/10-	A		L/R		DOX-2046		DOX-0150
550 i xDrive	Petrol	300	N63 B44 A	09/10-	A		L/R		DOX-2046		DOX-0150

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		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
BMW *continued*											
5 (F11)											
523 i	Petrol	150	N53 B30 A	09/10-	A	For cyl.: 1-3, -PS			DOX-2046		DOX-0150
528 i	Petrol	190	N53 B30 A	09/10-	A	For cyl.: 4-6			DOX-2026		DOX-0150
528 i	Petrol	190	N53 B30 A	09/10-	A	For cyl.: 1-3			DOX-2046		DOX-0150
5 GRAN TURISMO (F07)											
550 i	Petrol	300	N63 B44 A	10/09-	A		L/R		DOX-2046		DOX-0150
550 i xDrive	Petrol	300	N63 B44 A	09/10-	A		L/R		DOX-2046		DOX-0150
6 (E63)											
630 i	Petrol	190	N52B30O0	09/04-08/07		For cyl.: 4-6			DOX-2039		DOX-0150
630 i	Petrol	190	N52B30O0	09/04-08/07		For cyl.: 1-3			DOX-2046		DOX-0150
630 i	Petrol	200	N53 B30	07/07-03/11			L		DOX-2046		DOX-0150
630 i	Petrol	200	N53 B30	07/07-03/11			R		DOX-2039		DOX-0150
650 i	Petrol	270	N62 B48 B	07/05-08/07		For cyl.: 1-4			DOX-2037		DOX-0150
650 i	Petrol	270	N62 B48 B	07/05-08/07		For cyl.: 5-8			DOX-2046		DOX-0150
650 i	Petrol	270	N62 B48 B	09/07-03/11			L		DOX-2046		DOX-0150
650 i	Petrol	270	N62 B48 B	09/07-03/11			R		DOX-2037		DOX-0150
6 (E64)											
630 i	Petrol	190	N52B30O0	09/04-08/07		For cyl.: 4-6			DOX-2039		DOX-0150
630 i	Petrol	190	N52B30O0	09/04-08/07		For cyl.: 1-3			DOX-2046		DOX-0150
630 i	Petrol	200	N53 B30	07/07-03/11			L		DOX-2046		DOX-0150
630 i	Petrol	200	N53 B30	07/07-03/11			R		DOX-2039		DOX-0150
650 i	Petrol	270	N62 B48 B	07/05-08/07		For cyl.: 1-4			DOX-2037		DOX-0150
650 i	Petrol	270	N62 B48 B	07/05-08/07		For cyl.: 5-8			DOX-2046		DOX-0150
650 i	Petrol	270	N62 B48 B	09/07-03/11			L		DOX-2046		DOX-0150
650 i	Petrol	270	N62 B48 B	09/07-03/11			R		DOX-2037		DOX-0150
7 (E32)											
730 i,iL	Petrol	138/145	M30 B30	09/87-03/94						DOX-0120	
735 i,iL	Petrol	155/162	M30 B35 (Motronic,9.2:1); M30 B35	09/86-09/92						DOX-0120	
7 (E38)											
728 i,iL	Petrol	142	M52B28	08/95-11/01			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
728 i,iL	Petrol	142	M52B28	08/95-11/01			L/R	DOX-1368			
735 i,iL	Petrol	173	M62B35	01/96-11/01			L/R	DOX-1174		DOX-0117	DOX-0117
740 i,iL	Petrol	210	448S1 (M62B44)	01/96-11/01			L/R	DOX-1174		DOX-0117	DOX-0117
750 i,iL	Petrol	240	M73 B54	12/94-11/01	A		L/R	DOX-1174		DOX-0117	DOX-0117
7 (E65, E66)											
730 i,Li	Petrol	170	M54B30	09/03-02/05	A	For cyl.: 1-3 & 4-6		DOX-1099	DOX-1175	DOX-0117	DOX-0117
730 i,Li	Petrol	170	M54B30	09/03-02/05	A	For cyl.: 1-3 & 4-6		DOX-1174		DOX-0117	
730 i,Li	Petrol	190	N52B30O0	03/05-10/08	A	For cyl.: 4-6			DOX-2026		DOX-0150
730 i,Li	Petrol	190	N52B30O0	03/05-10/08	A	For cyl.: 1-3			DOX-2037		DOX-0150
740 i,Li	Petrol	225	N62 B40 A	07/05-10/08	A	For cyl.: 1-4			DOX-2037		DOX-0150
740 i,Li	Petrol	225	N62 B40 A	07/05-10/08	A	For cyl.: 5-8			DOX-2046		DOX-0150
750 i,Li	Petrol	270	N62 B48 B	07/05-10/08	A	For cyl.: 1-4			DOX-2037		DOX-0150
750 i,Li	Petrol	270	N62 B48 B	07/05-10/08	A	For cyl.: 5-8			DOX-2046		DOX-0150
760 i,Li	Petrol	327	N73 B60	09/06-10/08	A				DOX-2037		DOX-0150
7 (F01, F02)											
740 i	Petrol	240	N54 B30 A	10/08-	A		L		DOX-2046		DOX-0150
740 i	Petrol	240	N54 B30 A	10/08-	A		R		DOX-2039		DOX-0150
750 i	Petrol	300	N63 B44 A	10/08-	A		L/R		DOX-2046		DOX-0150
750 i xDrive	Petrol	300	N63 B44 A	09/09-	A		L/R		DOX-2046		DOX-0150
760 i	Petrol	400	N74 B60 A	09/09-	A		L/R		DOX-2046		DOX-0150
8 (E31)											
840 Ci	Petrol	210	448S1 (M62B44)	01/96-12/99	A		L/R	DOX-1174		DOX-0117	
840 i	Petrol	210	M60 B40	04/94-02/96	A		L/R	DOX-1318		DOX-0118	
840 i	Petrol	210	M60 B40	04/94-02/96	M		L/R	DOX-1319		DOX-0118	
850 Ci	Petrol	240	M73 B54	09/94-12/99	A		L/R	DOX-1174		DOX-0117	
850 CSi	Petrol	280	M70 B56	04/93-07/96	M		L/R	DOX-1364		DOX-0118	
X1 (E84)											
sDrive 18 i	Petrol	110	N46 B20 B	01/10-			L		DOX-2046		DOX-0150
xDrive 25 i	Petrol	160	N52 B30 A	01/10-	A		L		DOX-2046		DOX-0150
xDrive 25 i	Petrol	160	N52 B30 A	01/10-	A		R		DOX-2026		DOX-0150
xDrive 28 i	Petrol	190	N52 B30 A	10/09-	A		L		DOX-2046		DOX-0150
xDrive 28 i	Petrol	190	N52 B30 A	10/09-	A		R		DOX-2026		DOX-0150
X3 (E83)											
2.5 i	Petrol	141	M54B256S5	01/04-07/06		For cyl.: 1-3 & 4-6		DOX-1174	DOX-1175	DOX-0117	DOX-0117
2.5 si	Petrol	160	N52 B25 A	09/06-09/10			L		DOX-2046		DOX-0150

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Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
BMW *continued*											
X3 (E83) *continued*											
2.5 si	Petrol	160	N52 B25 A	09/06-09/10			R		DOX-2026		DOX-0150
3.0 i xDrive	Petrol	170	M54B30 (306S3)	01/04-07/06		For cyl.: 1-3 & 4-6		DOX-1174	DOX-1175	DOX-0117	DOX-0117
xDrive 25 i	Petrol	160	N52 B25 A	09/08-09/10		For cyl.: 1-3 (L)	L		DOX-2046		DOX-0150
xDrive 25 i	Petrol	160	N52 B25 A	09/08-09/10		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
xDrive 30 i	Petrol	200	N52 B30 A	09/08-09/10		For cyl.: 1-3 (L)	L		DOX-2046		DOX-0150
xDrive 30 i	Petrol	200	N52 B30 A	09/08-09/10		For cyl.: 4-6 (R)	R		DOX-2026		DOX-0150
X5 (E53)											
3.0 i	Petrol	170	M54B30 (306S3)	05/00-11/06			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
4.4 i	Petrol	210	448S2 (M62B44)	05/00-08/03	A		L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
4.4 i	Petrol	235	N62B44A	12/03-11/06	A	For cyl.: 1-4					DOX-0117
4.6 is	Petrol	255	468S1 (M62B46)	02/02-11/06	A		L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
4.8 is	Petrol	265	N62 B48 A	04/04-11/06	A	For cyl.: 1-4					DOX-0117
X5 (E70)											
M	Petrol	408	S63 B44 A	03/10-	A		L/R		DOX-2037		DOX-0150
xDrive 30 i	Petrol	200	N52 B30 A	09/08-03/10	A	For cyl.: 4-6			DOX-2026		DOX-0150
xDrive 30 i	Petrol	200	N52 B30 A	09/08-03/10	A	For cyl.: 1-3			DOX-2046		DOX-0150
xDrive 48 i	Petrol	261	N62 B48 B	09/08-	A	For cyl.: 1-4 & 5-8			DOX-2037		DOX-0150
xDrive 50 i	Petrol	300	N63 B44 A	06/10-	A		L/R		DOX-2046		DOX-0150
X6 (E71)											
M	Petrol	408	S63 B44 A	03/10-	A		L/R		DOX-2037		DOX-0150
xDrive 35 i	Petrol	225	N54B30O0	09/08-	A		L		DOX-2046		DOX-0150
xDrive 35 i	Petrol	225	N54B30O0	09/08-	A		R		DOX-2039		DOX-0150
xDrive 50 i	Petrol	300	N63 B44 A	09/08-	A		L/R		DOX-2046		DOX-0150
Z1											
2.5	Petrol	125	M20 B25	03/89-06/91	M			DOX-1364		DOX-0118	
Z3 (E36)											
1.8	Petrol	85	M43 B18	10/95-10/98				DOX-1318		DOX-0118	
1.9	Petrol	103	M44 B19	10/95-03/99				DOX-1174		DOX-0117	
1.9	Petrol	85/87	M43 194 E1; M43B19	07/98-06/02	M			DOX-1174		DOX-0117	
2.0	Petrol	110	M52B20	04/99-10/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
2.2	Petrol	125	M54B22	08/00-06/02		For cyl.: 1-3		DOX-1099		DOX-0117	
2.2	Petrol	125	M54B22	08/00-06/02		For cyl.: 1-3 & 4-6				DOX-0117	
2.2	Petrol	125	M54B22	08/00-06/02			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
2.8	Petrol	141	M52 B28; M52B28	09/98-06/00			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
3.0	Petrol	170	M54 306 S3	06/00-06/02			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
3.0	Petrol	170	M54B30 (306S3)	06/00-06/02		For cyl.: 1-3		DOX-1099		DOX-0117	
3.0	Petrol	170	M54B30 (306S3)	06/00-06/02		For cyl.: 1-3 & 4-6				DOX-0117	
3.0	Petrol	170	M54B30 (306S3)	06/00-06/02			L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
Z4 (E85)											
2.2 i	Petrol	125	M54B22	03/04-01/06		For cyl.: 1-3 & 4-6			DOX-1175		DOX-0117
2.2 i	Petrol	125	M54B22	03/04-01/06		For cyl.: 1-3		DOX-1099		DOX-0117	
2.2 i	Petrol	125	M54B22	03/04-01/06		For cyl.: 1-3 & 4-6		DOX-1174		DOX-0117	DOX-0117
2.5 i	Petrol	130	N52 B25 A	01/06-08/08		For cyl.: 4-6			DOX-2026		DOX-0150
2.5 i	Petrol	130	N52 B25 A	01/06-08/08		For cyl.: 1-3			DOX-2046		DOX-0150
2.5 i	Petrol	141	M54B256S5	02/03-01/06		For cyl.: 1-3 & 4-6			DOX-1175		DOX-0117
2.5 i	Petrol	141	M54B256S5	02/03-01/06		For cyl.: 1-3		DOX-1099		DOX-0117	
2.5 i	Petrol	141	M54B256S5	02/03-01/06		For cyl.: 1-3 & 4-6		DOX-1174		DOX-0117	DOX-0117
2.5 si	Petrol	160	N52 B25 A	01/06-08/08		For cyl.: 4-6			DOX-2026		DOX-0150
2.5 si	Petrol	160	N52 B25 A	01/06-08/08		For cyl.: 1-3			DOX-2046		DOX-0150
3.0 i	Petrol	170	M54B30	02/03-01/06		For cyl.: 1-3 & 4-6			DOX-1175		DOX-0117
3.0 i	Petrol	170	M54B30	02/03-01/06		For cyl.: 1-3		DOX-1099		DOX-0117	
3.0 i	Petrol	170	M54B30	02/03-01/06		For cyl.: 1-3 & 4-6		DOX-1174		DOX-0117	DOX-0117
3.0 si	Petrol	195	N52B30A	01/06-08/08		For cyl.: 4-6			DOX-2026		DOX-0150
3.0 si	Petrol	195	N52B30A	01/06-08/08		For cyl.: 1-3			DOX-2046		DOX-0150
Z4 (E86)											
3.0 si	Petrol	195	N52B30A	03/06-08/08		For cyl.: 4-6			DOX-2026		DOX-0150
3.0 si	Petrol	195	N52B30A	03/06-08/08		For cyl.: 1-3			DOX-2046		DOX-0150
Z4 (E89)											
sDrive 23 i	Petrol	150	N52 B25 A	05/09-09/11			L		DOX-2046		DOX-0150
sDrive 23 i	Petrol	150	N52 B25 A	05/09-09/11			R		DOX-2026		DOX-0150
sDrive 30 i	Petrol	190	N52 B30 A	05/09-			L		DOX-2046		DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
BMW *continued*											
Z4 (E89) *continued*											
sDrive 30 i	Petrol	190	N52 B30 A	05/09-			R		DOX-2026		DOX-0150
sDrive 35 i	Petrol	225	N54 B30 A	05/09-	M		L		DOX-2046		DOX-0150
sDrive 35 i	Petrol	225	N54 B30 A	05/09-	M		R		DOX-2026		DOX-0150
sDrive 35 is	Petrol	250	N54 B30 A	09/10-	M		L		DOX-2046		DOX-0150
sDrive 35 is	Petrol	250	N54 B30 A	09/10-	M		R		DOX-2026		DOX-0150
Z8 (E52)											
4.9	Petrol	294	S62B50	06/00-06/03	M		L/R	DOX-1174		DOX-0117	
CHEVROLET											
AVALANCHE (07-)											
5.3 Flex-Fuel	Petrol/Ethanol	235	LY5	01/07-				DOX-0301		DOX-0114	
5.3 Flex-Fuel AWD	Petrol/Ethanol	227		01/07-				DOX-0301		DOX-0114	
CAPTIVA (06-)											
3.2 4WD	Petrol	169	10 HM	06/06-09/09	A		L/R		DOX-2050		DOX-0150
CORVETTE (83-97)											
5.6	Petrol	179		09/88-07/91				DOX-1501		DOX-0116	
5.7	Petrol	179/182/186	L98	09/88-09/91				DOX-1501		DOX-0116	
REZZO											
2.0	Petrol	89/90	T20SED	03/05-06/08						DOX-0123	
CHRYSLER											
300 M (98-04)											
2.7 V6 24V	Petrol	149/150	EER	11/98-04/03	A		L/R	DOX-1076	DOX-1076	DOX-0119	DOX-0119
3.5 V6 24V	Petrol	185/187	EGG	07/98-04/03	A		L/R	DOX-1076	DOX-1076	DOX-0119	DOX-0119
GS DAYTONA SHELBY											
2.2 i Turbo	Petrol	130	EDR	10/87-08/88				DOX-1594		DOX-0115	
LE BARON (86-96)											
2.5 i	Petrol	75	EDM	09/86-08/88				DOX-1594		DOX-0115	
NEON (99-)											
1.6	Petrol	85	EJD	11/01-09/05	M				DOX-1076		DOX-0119
2.0 16V	Petrol	98	420H	08/99-09/05					DOX-1055		DOX-0119
2.0 16V	Petrol	98	420H	08/99-09/05					DOX-1076		DOX-0119
2.0 16V	Petrol	98	420H	08/99-09/05					DOX-1157		DOX-0119
2.0 16V R/T	Petrol	110	ECH	10/01-09/05	M				DOX-1055		DOX-0119
PT CRUISER											
2.0	Petrol	104	ECC	06/00-12/02					DOX-1055		DOX-0119
2.4	Petrol	110	EDZ	06/00-12/02					DOX-1055		DOX-0119
SEBRING (01-07)											
2.0	Petrol	104	ECC	04/01-10/04					DOX-1076		DOX-0119
2.4	Petrol	112	EDZ	04/01-10/04					DOX-1076		DOX-0119
2.7 V6 24V	Petrol	149	EES	04/01-10/04	A		L/R	DOX-1076	DOX-1076	DOX-0119	DOX-0119
SEBRING (01-)											
2.0	Petrol	104	ECC	04/01-10/04					DOX-1076		DOX-0119
2.4	Petrol	112	EDZ	04/01-10/04					DOX-1076		DOX-0119
2.7 V6 24V	Petrol	149	EES	04/01-10/04	A		L/R	DOX-1076	DOX-1076	DOX-0119	DOX-0119
STRATUS											
2.0 16V	Petrol	98	ECB	10/97-12/00	M			DOX-1076		DOX-0119	
2.0 LE	Petrol	96	C00	10/97-12/00				DOX-1076		DOX-0119	
2.4 16V	Petrol	112	EDZ	10/97-12/00				DOX-1076		DOX-0119	
VOYAGER (95-01)											
2.0 i	Petrol	98	C00	01/95-03/01	M			DOX-1053		DOX-0119	
2.4 AWD	Petrol	111	EDZ	10/98-03/01	M			DOX-1053		DOX-0119	
2.4 i	Petrol	111	B00	10/98-03/01	A			DOX-1053		DOX-0119	
VOYAGER (00-08)											
2.4	Petrol	108	EDZ	03/01-07/04				DOX-1061	DOX-1056	DOX-0119	DOX-0119
3.3	Petrol	128	EGA	03/01-07/04	A				DOX-1056		DOX-0119
3.3 AWD	Petrol	128	EGA	03/01-07/04	A				DOX-1056		DOX-0119
3.8	Petrol	160	EGH	03/01-06/04	A				DOX-1056		DOX-0119
3.8 AWD	Petrol	160	EGH	03/01-06/04	A				DOX-1056		DOX-0119
CITROËN											
AX											
1.4 GTi	Petrol	69	KFZ (TU3FJ2)	06/91-07/96	M			DOX-1536		DOX-0120	
10	Petrol	37	CDZ (TU9M)	05/91-07/98	M			DOX-1536		DOX-0120	
11	Petrol	44	TU1M (HDZ)	07/89-07/96	M			DOX-1536		DOX-0120	
14	Petrol	55	TU3M (KDY); TU3MC (KDX)	07/90-07/96	M			DOX-1536		DOX-0120	
14 4x4	Petrol	55	TU3M (KDY); TU3MC (KDX)	08/91-07/96	M			DOX-1536		DOX-0120	
14 GT	Petrol	59	KDZ (TU3M/Z)	01/89-06/90	M					DOX-0120	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
CITROËN *continued*											
BERLINGO (96-08)											
1.1 i	Petrol	44	TU1JP (HFX)	01/01-08/05	M			DOX-2001	DOX-1538	DOX-0150	DOX-0119
1.1 i	Petrol	44	TU1JP (HFX)	01/01-08/05	M			DOX-2045	DOX-2005	DOX-0150	DOX-0150
1.1 i	Petrol	44	TU1JP (HFX)	01/01-08/05	M				DOX-2009		DOX-0150
1.1 i	Petrol	44	TU1M+ (HDZ); TU1M+ (HDZG)	07/96-12/02	M			DOX-1535		DOX-0120	
1.4	Petrol	53	KFW (TU3JP)	11/02-10/05	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 bivalent	Bi-Fuel	48	KFW (TU3JP)	04/03-05/08	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 GNC	Gas	48	KFW (TU3JP)	04/03-05/08	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	55	TU3A (KFW)	09/05-05/08	M				DOX-1538		DOX-0119
1.4 i	Petrol	55	TU3JP (K6C)	01/00-12/02	M			DOX-1535		DOX-0120	
1.4 i	Petrol	55	TU3JP (KFW)	09/00-05/08	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	55	TU3JP (KFX)	07/96-12/02	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	55	TU3JP (KFX)	07/96-12/02	M			DOX-2001	DOX-2001	DOX-0150	DOX-0150
1.4 i	Petrol	55	TU3JP (KFX)	07/96-12/02	M				DOX-2045		DOX-0150
1.4 i bivalent	Bi-Fuel	55	KFW (TU3JP)	04/03-05/08	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.6 16V	Petrol	80/81	NFU (TU5JP4)	10/00-05/08	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.8 i	Petrol	66	LFX (XU7JB)	05/97-12/02	M			DOX-1537		DOX-0104	
1.8 i 4WD	Petrol	66	LFX (XU7JB)	04/97-12/02	M			DOX-1537		DOX-0104	
BERLINGO (08-)											
1.6	Petrol	66/80	NFR (TU5JP4B); NFU (TU5JP4)	04/08-	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
BX											
1.9 TZi	Petrol	92	D6A (XU9J2)	02/92-02/93	M					DOX-0120	
14	Petrol	55	KDY (TU3M); TU3M (KDY); TU3M (KDZ)	07/89-02/93	M					DOX-0120	
16	Petrol	53/55/65	B1E (XU51C); XU5CP (BAZ); XU5M (BDY); XU5M (BDZ)	09/88-12/94	M					DOX-0120	
16 E	Petrol	65	XU5M (BDY)	03/91-02/93						DOX-0120	
16 E	Petrol	65	XU5M (BDZ)	09/89-03/91	M					DOX-0120	
19	Petrol	75	159A	07/86-05/89						DOX-0120	
19	Petrol	75/80/88	D2A (XU92C); DDZ (XU9M); DKZ (XU9JA)	07/86-12/94	M					DOX-0120	
19 4x4	Petrol	80	DDZ (XU9M)	10/90-05/91	M					DOX-0120	
19 E	Petrol	80	DDZ (XU9M)	06/88-02/93	M					DOX-0120	
19 E 4x4	Petrol	80	D2F	04/89-02/93	M					DOX-0120	
19 GTi	Petrol	88/90	D6A (XU9J2); DKZ (XU9JA)	07/86-02/93						DOX-0120	
19 GTi 16V	Petrol	108/116	D6C (XU9J4); DFW (XU9J4)	09/87-02/93	M					DOX-0120	
19 GTi 4x4	Petrol	88	DKZ (XU9JA)	07/89-02/93	M					DOX-0120	
C1											
1.0	Petrol	50	1KR-FE	06/05-11/08	M			DOX-2028		DOX-0150	
C2											
1.1	Petrol	44	HFX (TU1JP)	09/03-01/10	M			DOX-2001	DOX-1538	DOX-0150	DOX-0119
1.1	Petrol	44	HFX (TU1JP)	09/03-01/10	M			DOX-2045		DOX-0150	
1.4	Petrol	54	KFV (TU3JP)	09/03-04/05	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4	Petrol	55	KFV (TU3JP)	10/06-01/10	M				DOX-1538		DOX-0119
1.4 16V	Petrol	65	KFU (ET3J4)	06/06-01/10	M			DOX-2001		DOX-0150	
1.6	Petrol	80	NFU (TU5JP4)	09/03-01/10	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6 VTS	Petrol	90	NFS (TU5JP4S)	01/05-01/10	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
C3 (02-09)											
1.1 i	Petrol	44	HFX (TU1JP)	02/02-10/09	M			DOX-2001	DOX-1538	DOX-0150	DOX-0119
1.1 i	Petrol	44	HFX (TU1JP)	02/02-10/09	M			DOX-2045		DOX-0150	
1.4 16V	Petrol	65	KFU (ET3J4)	12/03-10/09	M			DOX-2001		DOX-0150	
1.4 i	Petrol	54	KFV (TU3JP)	02/02-10/09				DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	54	KFV (TU3JP)	11/05-10/09	M			DOX-2001		DOX-0150	
1.4 i	Petrol	54	KFV (TU3JP)	11/05-10/09	M			DOX-2045		DOX-0150	
1.4 i Bivalent	Bi-Fuel	54	KFV (TU3JP)	05/05-10/09	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.6 16V	Petrol	80	NFU (TU5JP4)	02/02-10/09				DOX-2001	DOX-2005	DOX-0150	DOX-0150
C3 (09-)											
1.1	Petrol	44	HFX (TU1JP)	11/09-	M				DOX-1538		DOX-0119
1.1 BiFuel	Bi-Fuel	44	TU1AL (HFX)	11/10-01/11	M				DOX-1538		DOX-0119
1.4	Petrol	54	KFT (TU3A); KFV (TU3A)	11/09-	M				DOX-1538		DOX-0119
C3 Pluriel (03-)											
1.4	Petrol	54	KFV (TU3JP)	05/03-01/11	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 Hybrid	Petrol	54	KFV (TU3JP)	09/05-01/11	M				DOX-1538		DOX-0119
1.6	Petrol	80	NFU (TU5JP4)	05/03-01/11	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.6	Petrol	80	NFU (TU5JP4)	05/03-01/11	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
C4											
1.4 16V	Petrol	65	KFU (ET3J4)	11/04-01/11	M			DOX-2001		DOX-0150	
1.6 16V	Petrol	80	NFU (TU5JP4)	11/04-12/10				DOX-2001	DOX-2005	DOX-0150	DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
CITROËN *continued*											
C4 *continued*											
1.6 16V	Petrol	80	NFU (TU5JP4)	11/04-12/10				DOX-2045		DOX-0150	
1.6 16V Bio-Flex	Flexfuel	80	NFU (TU5JP4)	09/07-07/08	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	11/04-08/05	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	103	RFJ (EW10A)	11/04-07/08				DOX-2001		DOX-0150	
2.0 16V	Petrol	130	RFK (EW10J4S)	11/04-01/11	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
2.0 16V	Petrol	130	RFK (EW10J4S)	11/04-01/11	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
C4 Grand Picasso											
1.8 i 16V	Petrol	92	6FY (EW7A)	10/06-	M			DOX-2001		DOX-0150	
2.0 i 16V	Petrol	103	RFJ (EW10A)	10/06-				DOX-2001		DOX-0150	
C4 Picasso (07-)											
1.8 i 16V	Petrol	92	6FY (EW7A)	02/07-	M			DOX-2001		DOX-0150	
2.0 i 16V	Petrol	103	RFJ (EW10A)	02/07-				DOX-2001		DOX-0150	
C5 (01-04)											
1.8 16V	Petrol	85	6FZ (EW7J4)	03/01-08/04				DOX-1534	DOX-1539	DOX-0121	DOX-0119
1.8 16V	Petrol	85	6FZ (EW7J4)	06/01-08/04	M			DOX-1534	DOX-1539	DOX-0121	DOX-0119
2.0 16V	Petrol	100	RFN (EW10J4)	03/01-08/04				DOX-2001	DOX-2034	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	03/01-08/04				DOX-2045		DOX-0150	
3.0 V6	Petrol	152	XFX (ES9J4S)	03/01-08/04			L/R	DOX-2001	DOX-2005	DOX-0150	DOX-0150
3.0 V6	Petrol	152	XFX (ES9J4S)	03/01-08/04			L/R	DOX-2045		DOX-0150	
C5 (04-08)											
1.8 16V	Petrol	85	6FZ (EW7J4)	09/04-12/05	M			DOX-2001	DOX-2034	DOX-0150	DOX-0150
1.8 16V	Petrol	85	6FZ (EW7J4)	09/04-12/05	M			DOX-2045		DOX-0150	
1.8 16V	Petrol	92	6FY (EW7A)	09/05-03/08	M			DOX-2001		DOX-0150	
2.0 16V	Petrol	103	RFJ (EW10A)	09/04-03/08				DOX-2001		DOX-0150	
3.0 V6	Petrol	152	XFV (ES9A); XFX (ES9J4S)	09/04-06/08	A		L		DOX-2005		DOX-0150
3.0 V6	Petrol	152	XFV (ES9A); XFX (ES9J4S)	09/04-06/08	A		L/R	DOX-2001		DOX-0150	DOX-0150
3.0 V6	Petrol	152	XFV (ES9A); XFX (ES9J4S)	09/04-06/08	A		L/R	DOX-2045		DOX-0150	
C5 (08-)											
1.8 16V	Petrol	92	6FY (EW7A)	02/08-	M			DOX-2001		DOX-0150	
2.0 16V	Petrol	103	RFJ (EW10A)	02/08-				DOX-2001		DOX-0150	
2.0 16V BioFlex	Flexfuel	103	RFJ (EW10A)	02/08-	M			DOX-2001		DOX-0150	
3.0 V6	Petrol	155	XFU (ES9A)	02/08-	A		L/R	DOX-2001	DOX-2005	DOX-0150	DOX-0150
3.0 V6	Petrol	155	XFU (ES9A)	02/08-	A		L/R	DOX-2045		DOX-0150	
C6											
3.0 V6	Petrol	155	ES9A (XFV)	09/05-	A		L/R	DOX-2001	DOX-2005	DOX-0150	DOX-0150
3.0 V6	Petrol	155	ES9A (XFV)	09/05-	A		L/R	DOX-2045		DOX-0150	
C8											
2.0	Petrol	100	RFN (EW10J4)	07/02-10/05				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0	Petrol	100	RFN (EW10J4)	07/02-10/05					DOX-2045		DOX-0150
2.0 16V	Petrol	104	RFJ (EW10A)	02/06-				DOX-2001		DOX-0150	
2.2	Petrol	116	3FZ (EW12J4)	07/02-09/05	M			DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.2	Petrol	116	3FZ (EW12J4)	07/02-09/05	M				DOX-2045		DOX-0150
3.0 V6	Petrol	150	XFX (ES9J4S)	07/02-09/05	A			DOX-2001	DOX-2005	DOX-0150	DOX-0150
C15											
1.1	Petrol	44	HDZ (TU1M)	09/89-07/96	M			DOX-1535		DOX-0120	
1.1 i	Petrol	44	HDZ (TU1M)	09/89-12/96	M			DOX-1535		DOX-0120	
1.4 E	Petrol	44	150D (XY7)	05/87-07/89	M					DOX-0120	
1.4 i	Petrol	55	TU3M (KDY)	05/91-12/96	M			DOX-1535		DOX-0120	
DS4											
2.0 HDi 165	Diesel	120	RHH (DW10CTED4)	04/11-	M				DOX-1539		DOX-0119
EVASION											
1.8	Petrol	73/76	LFZ (XU7JP); XU7JP (LFW)	07/96-07/02	M				DOX-1536		DOX-0120
2.0	Petrol	89	RFU (XU10J2/C)	06/94-07/02	M				DOX-1536		DOX-0120
2.0 16V	Petrol	100	RFN (EW10J4)	05/00-07/02				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	05/00-07/02					DOX-2045		DOX-0150
2.0 16V	Petrol	97	RFV (XU10J4R)	10/98-04/00	M			DOX-2045	DOX-1536	DOX-0150	DOX-0120
2.0 16V	Petrol	97	RFV (XU10J4R)	10/98-04/00	M				DOX-2009		DOX-0150
2.0 Turbo C.T.	Petrol	108	RGX (XU10J2TE)	06/94-07/02	M				DOX-1536		DOX-0120
JUMPER (94-02)											
2.0	Petrol	80	RFW (XU10J2U)	02/94-12/95	M	Ch: >15267330				DOX-0120	
2.0	Petrol	80	RFW (XU10J2U)	03/94-08/98	M	Ch: 15267331>		DOX-1536		DOX-0120	
2.0	Petrol	80	RFW (XU10J2U)	05/97-12/01	M			DOX-1536		DOX-0120	
2.0 4x4	Petrol	80	RFW (XU10J2U)	07/97-01/02	M			DOX-1536		DOX-0120	
JUMPER (02-)											
2.0	Petrol	81	XU10J2	04/02-06/06	M			DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0	Petrol	81	XU10J2	04/02-06/06	M			DOX-2045		DOX-0150	
2.0 bivalent	Bi-Fuel	81	XU10J2	02/03-06/06	M			DOX-2001	DOX-2009	DOX-0150	DOX-0150

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
CITROËN *continued*											
JUMPER (02-) *continued*											
2.0 bivalent	Bi-Fuel	81	XU10J2	02/03-06/06	M			DOX-2045		DOX-0150	
JUMPY (95-06)											
1.6	Petrol	58	160A; 220 A2.000; 1580 SPI	10/95-12/03	M			DOX-1536		DOX-0120	
1.6 i	Petrol	58	160A	10/95-12/03	M			DOX-1536		DOX-0120	
2.0	Petrol	100	RFN (EW10J4)	09/00-10/06				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0	Petrol	100	RFN (EW10J4)	09/00-10/06					DOX-2045		DOX-0150
2.0 i 16V	Petrol	102	EW10J4 (RFN)	09/00-12/06	M			DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 i 16V	Petrol	102	EW10J4 (RFN)	09/00-12/06	M				DOX-2045		DOX-0150
JUMPY (07-)											
2.0 i	Petrol	103	RFH (EW10A)	01/07-	M			DOX-2001		DOX-0150	
NEMO											
1.4	Petrol	54	KFV (TU3A); TU3A (KFV)	02/08-	M				DOX-1538		DOX-0119
SAXO											
1.0 X	Petrol	33/37	CDZ (TU9M)	09/96-06/03	M			DOX-1535		DOX-0120	
1.1 X,SX	Petrol	40/44	HDZ (TU1M); TU1M+ (HDZ); TU1M+ (HDZG)	05/96-09/03	M			DOX-1535		DOX-0120	
1.1 X,SX	Petrol	44	TU1JP (HFX)	05/96-09/03	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.1 X,SX	Petrol	44	TU1JP (HFX)	05/96-09/03	M			DOX-2045		DOX-0150	
1.4 VTS	Petrol	55	TU3JP (KFW)	05/98-06/03	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 VTS	Petrol	55	TU3JP (KFW)	09/99-06/03	A			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.4 VTS	Petrol	55	TU3JP (KFX)	05/96-06/03				DOX-1535		DOX-0120	
1.4 VTS	Petrol	55	TU3JP (KFX)	01/98-06/03	M			DOX-1537	DOX-2001	DOX-0104	DOX-0150
1.4 VTS	Petrol	55	TU3JP (KFX)	01/98-06/03	M			DOX-2001	DOX-2045	DOX-0150	DOX-0150
1.6	Petrol	66	NFZ (TU5JP)	02/96-08/99				DOX-1535		DOX-0120	
1.6	Petrol	66	NFZ (TU5JP)	09/99-06/03	M			DOX-2001		DOX-0150	
1.6	Petrol	74	NFT	02/01-12/03	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6	Petrol	74	NFT	02/01-12/03	M			DOX-2045		DOX-0150	
1.6	Petrol	88	NFX (TU5JP4)	02/96-12/03	M			DOX-1535	DOX-1538	DOX-0119	DOX-0119
1.6	Petrol	88	NFX (TU5JP4)	02/96-12/03	M			DOX-1538		DOX-0120	
1.6 VTL,VTR	Petrol	65	NFZ (TU5JP)	05/96-06/03	M			DOX-1535		DOX-0120	
1.6 VTL,VTR	Petrol	65	NFZ (TU5JP)	05/96-06/03	M			DOX-2001		DOX-0150	
1.6 VTS	Petrol	87	NFX (TU5JP4)	06/96-08/99	M			DOX-1535		DOX-0120	
XANTIA (93-98)											
1.6 i	Petrol	65	BFZ (XU5JP)	08/93-01/98	M			DOX-1535		DOX-0120	
1.8 i	Petrol	66	LFX (XU7JB)	04/97-01/98	M			DOX-1537		DOX-0104	
1.8 i	Petrol	74	LFZ (XU7JP)	03/93-01/98				DOX-1535		DOX-0120	
1.8 i	Petrol	74	LFZ (XU7JP)	12/97-01/98	M						DOX-0120
1.8 i 16V	Petrol	81	LFY (XU7JP4)	06/95-01/98	M			DOX-1535		DOX-0104	
1.8 i 16V	Petrol	81	LFY (XU7JP4)	06/95-01/98	M			DOX-1537		DOX-0120	
2.0 i	Petrol	89	RFX (XU10J2C)	03/93-01/98				DOX-1535		DOX-0120	
2.0 i 16V	Petrol	110/112	RFT (XU10J4/Z); RFY (XU10J4/Z)	03/93-01/98	M					DOX-0120	
2.0 i 16V	Petrol	97	RFV (XU10J4R)	06/95-01/98	M			DOX-1536		DOX-0120	
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	06/95-01/98	M			DOX-1535		DOX-0120	
XANTIA (98-03)											
1.6 i SX	Petrol	65	BFZ (XU5JP)	01/98-03/01	M			DOX-1535		DOX-0120	
1.8 i	Petrol	66	LFX (XU7JB)	01/98-05/02	M			DOX-1537		DOX-0104	
1.8 i 16V	Petrol	81	LFY (XU7JP4)	01/98-05/02				DOX-1537		DOX-0104	
1.8 i 16V	Petrol	81	LFY (XU7JP4)	01/98-05/02	M			DOX-1537	DOX-2009	DOX-0104	DOX-0150
1.8 i 16V	Petrol	81	LFY (XU7JP4)	01/98-05/02	M			DOX-2001		DOX-0150	
2.0 i	Petrol	89	RFX (XU10J2C)	01/98-05/02	A			DOX-1535		DOX-0120	
2.0 i 16V	Petrol	97	RFV (XU10J4R)	01/98-05/02				DOX-1536		DOX-0120	
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	01/98-05/02	M			DOX-1535		DOX-0120	
XM (89-94)											
2.0	Petrol	94	R6A	05/89-06/94						DOX-0120	
2.0 i	Petrol	79	RDZ (XU10MZ)	11/89-04/94	M					DOX-0120	
2.0 i	Petrol	89	RFZ (XU10J2)	01/90-06/94						DOX-0120	
2.0 i Turbo	Petrol	104	RGY (XU10J2TE/Z)	09/92-06/94						DOX-0120	
XM (94-00)											
2.0 i 16V	Petrol	97	RFV (XU10J4R)	04/96-10/00				DOX-1536		DOX-0120	
2.0 Turbo	Petrol	108	RGX (XU10J2TE); XU10J2TE (RGY)	05/94-10/00				DOX-1536		DOX-0120	
XSARA											
1.4 i	Petrol	55	KFW (TU3JP); KFX (TU3JP)	03/98-08/00	M			DOX-1537		DOX-0104	
1.4 i	Petrol	55	TU3JP (KFW)	09/00-08/05	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	55	TU3JP (KFX)	04/97-08/00	M			DOX-1535	DOX-2001	DOX-0120	DOX-0150
1.4 i	Petrol	55	TU3JP (KFX)	04/97-08/00	M			DOX-2001	DOX-2045	DOX-0150	DOX-0150
1.6 16V	Petrol	80	NFU (TU5JP4)	09/00-08/05				DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6 16V	Petrol	80	NFU (TU5JP4)	09/00-08/05				DOX-2045	DOX-2009	DOX-0150	DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
CITROËN *continued*											
XSARA *continued*											
1.6 i	Petrol	65	NFZ (TU5JP)	04/97-09/00	M			DOX-1535		DOX-0120	
1.6 i	Petrol	65	NFZ (TU5JP)	06/98-09/00				DOX-2001		DOX-0150	
1.8 i	Petrol	66	LFX (XU7JB)	04/97-09/00	M			DOX-1537		DOX-0104	
1.8 i	Petrol	74	LFZ (XU7JP)	02/98-09/00	A			DOX-1536		DOX-0120	
1.8 i 16V	Petrol	81	LFY (XU7JP4)	04/97-09/00	M			DOX-1537		DOX-0104	
1.8 i Aut.	Petrol	74	LFZ (XU7JP)	04/97-09/00				DOX-1536		DOX-0120	
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/05				DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/05				DOX-2045		DOX-0150	
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/05	M			DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/05	M			DOX-2045		DOX-0150	
2.0 16V	Petrol	97	RFV (XU10J4R)	07/98-09/00				DOX-1535		DOX-0120	
2.0 i 16V	Petrol	120	RFS (XU10J4RS)	02/98-03/05	M			DOX-1536	DOX-2005	DOX-0120	DOX-0150
2.0 i 16V	Petrol	120	RFS (XU10J4RS)	02/98-03/05	M			DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0 i 16V	Petrol	120	RFS (XU10J4RS)	02/98-03/05	M			DOX-2045		DOX-0150	
XSARA PICASSO											
1.6	Petrol	65/70	NFV (TU5JP); NFZ (TU5JP)	12/99-01/07	M			DOX-2001		DOX-0150	
1.6 16V	Petrol	80	NFU (TU5JP4)	09/05-05/07	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.8 16V	Petrol	85	6FZ (EW7J4)	02/00-12/05	M			DOX-1534	DOX-1539	DOX-0121	DOX-0119
2.0 16V	Petrol	100	RFN (EW10J4)	01/03-12/05	A			DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	01/03-12/05	A			DOX-2045		DOX-0150	
ZX											
1.1	Petrol	44	HDZ (TU1M)	05/92-06/97	M			DOX-1535		DOX-0120	
1.1	Petrol	44	HDZ (TU1M)	05/92-06/97	M			DOX-1536		DOX-0120	
1.4 i	Petrol	55	TU3JP (KFX)	07/96-10/97	M			DOX-1535		DOX-0120	
1.4 i	Petrol	55	TU3M (KDY)	03/91-06/97	M					DOX-0120	
1.4 i	Petrol	55	TU3MC (KDX)	09/92-06/97	M					DOX-0120	
1.4 i	Petrol	55	TU3MC (KDX)	09/94-06/97	M	- ABS, - PS		DOX-1536		DOX-0120	
1.4 i	Petrol	55	TU3MC (KDX)	09/94-06/97	M	+ ABS, + PS		DOX-1535		DOX-0120	
1.6	Petrol	66	XU5JP (BFZ)	07/94-06/97	M			DOX-1536		DOX-0120	
1.6 i	Petrol	65	XU5JP (BFZ)	09/92-06/97				DOX-1536		DOX-0120	
1.6 i	Petrol	65	XU5JP (BFZ)	02/94-10/97	M			DOX-1536		DOX-0120	
1.6 i	Petrol	65	XU5M (BDY)	03/91-06/97						DOX-0120	
1.8	Petrol	76	XU7JP (LFZ)	07/94-10/97				DOX-1536		DOX-0120	
1.8	Petrol	82	LFY (XU7JP4)	03/97-10/97	M			DOX-1536		DOX-0120	
1.8 i	Petrol	74	LFZ (XU7JP)	07/92-10/97				DOX-1536		DOX-0120	
1.8 i	Petrol	74	LFZ (XU7JP)	07/95-10/97	M			DOX-1536		DOX-0120	
1.8 i 16V	Petrol	81	LFY (XU7JP4)	01/96-02/98	M			DOX-1536		DOX-0120	
1.9	Petrol	93	D6E (XU9JA)	03/91-08/92	M					DOX-0120	
1.9 i	Petrol	88	DKZ (XU9JA)	03/91-08/93						DOX-0120	
2.0	Petrol	90	RFX (XU10J2C)	07/94-10/97				DOX-1536		DOX-0120	
2.0	Petrol	90/122	RFS (XU10J4RS); RFX (XU10J2C)	07/94-10/97	M			DOX-1536		DOX-0120	
2.0 i	Petrol	89	RFX (XU10J2C)	07/92-06/97				DOX-1536		DOX-0120	
2.0 i 16V	Petrol	112	XU10J4 (RFY)	07/92-10/94	M					DOX-0120	
2.0 i 16V	Petrol	120	RFS (XU10J4RS)	05/96-06/97	M			DOX-1536		DOX-0120	
DACIA											
DUSTER											
1.6 16V	Petrol	77	K4M690	04/10-	M					DOX-0121	
LOGAN											
1.4	Petrol	55	K7J 710	09/04-	M					DOX-0121	
1.6	Petrol	64	K7M 710	09/04-	M					DOX-0121	
1.6 16V	Petrol	77	K4M690	10/06-	M					DOX-0121	
LOGAN MCV											
1.4	Petrol	55	K7J 710	02/07-	M					DOX-0121	
1.6	Petrol	64	K7M 710	02/07-	M					DOX-0121	
1.6 16V	Petrol	77	K4M690	02/07-	M					DOX-0121	
SANDERO											
1.6	Petrol	64	K7M 710	06/08-	M					DOX-0121	
DAEWOO											
ARANOS											
1.5	Petrol	66	V15L	07/96-11/97	M			DOX-1000		DOX-0125	
1.8	Petrol	70	Y18L	01/95-11/97	M			DOX-1000		DOX-0125	
2.0	Petrol	77	C20LE	01/95-11/97	M			DOX-1000		DOX-0125	
ESPERO											
1.5 16V	Petrol	66	A15MF	02/95-06/99	M			DOX-1000		DOX-0125	
1.8	Petrol	66/70	C18LE	02/95-06/99	M			DOX-1000		DOX-0125	
2.0	Petrol	77	C20LE	02/95-06/99				DOX-1000		DOX-0125	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
DAEWOO *continued*											
LANOS											
1.4	Petrol	55	A14SMS	05/97-				DOX-1599		DOX-0119	
1.4	Petrol	55	A14SMS	09/97-07/05	M	Ch: 595889>				DOX-0123	
1.5	Petrol	63	A15SMS	05/97-09/03					DOX-1599		DOX-0119
1.5	Petrol	63	A15SMS	09/97-07/05		Ch: 595889>				DOX-0123	
1.6 16V	Petrol	78	A16DMS	09/97-07/05		Ch: 595889>				DOX-0123	
LEGANZA											
2.0 16V	Petrol	98	X 20 SED	06/97-12/02		Euro 2		DOX-1000		DOX-0125	
2.0 16V	Petrol	98	X 20 SED	06/97-12/02		Euro 3				DOX-0123	
2.2 16V	Petrol	100	T22SED	04/99-12/02						DOX-0119	
2.2 16V	Petrol	100	T22SED	04/99-12/02						DOX-0123	
MATIZ											
0.8	Petrol	38	F8CV	09/98-09/00		Euro 2		DOX-1599		DOX-0119	
0.8	Petrol	38	F8CV	09/98-01/05		Euro 3				DOX-0123	
1.0	Petrol	47	B10S	01/03-01/05	M	Euro 3				DOX-0123	
NEXIA											
1.5	Petrol	55	G15MF	02/95-08/97	M			DOX-1000		DOX-0125	
1.5 16V	Petrol	66	A15MF	02/95-08/97				DOX-1000		DOX-0125	
NUBIRA (97-03)											
1.6 16V	Petrol	66	A16DMS	06/99-09/04	M					DOX-0123	
1.6 16V	Petrol	78	A16DMS	05/97-05/99		Ch: 580670>				DOX-0123	
1.6 16V	Petrol	78	A16DMS	09/97-		Ch: >580669		DOX-1000		DOX-0125	
1.6 16V	Petrol	78	A16DMS	06/99-09/04						DOX-0123	
2.0	Petrol	81	C20SED	06/99-07/03	A			DOX-1000		DOX-0125	
2.0 16V	Petrol	98	DTEC20	09/97-	M	Ch: >642920		DOX-1000		DOX-0125	
2.0 16V	Petrol	98	DTEC20; X 20 SED	05/97-05/99		Ch: 642921>				DOX-0123	
2.0 16V	Petrol	98	X 20 SED	05/97-05/99	A	Ch: 642921>				DOX-0123	
2.0 16V	Petrol	98	X 20 SED	09/97-06/03	M			DOX-1000		DOX-0125	
2.0 16V	Petrol	98	X 20 SED	09/97-		Ch: >642920		DOX-1000		DOX-0125	
2.0 16V	Petrol	98	X 20 SED	06/99-09/04						DOX-0123	
2.0 16V	Petrol	98	X20NED	06/99-06/03				DOX-1000		DOX-0125	
2.0 16V	Petrol	98	X20S	09/97-05/99	M			DOX-1000		DOX-0125	
2.0 16V	Petrol	98	X20SED	06/99-06/03						DOX-0123	
REZZO											
1.6	Petrol	77	A16DMS	02/02-07/05	M					DOX-0123	
2.0	Petrol	89	X 20 SED	09/01-07/05	M					DOX-0123	
2.0	Petrol	89/94	T20SED; X 20 SED	09/00-07/05						DOX-0123	
DAIHATSU											
APPLAUSE (97-00)											
1.6 16V	Petrol	73	HD-E	07/97-05/00				DOX-1405		DOX-0125	
CHARADE (93-00)											
1.3 16V	Petrol	55	HCE	09/97-11/99	M			DOX-1405		DOX-0125	
1.3 i 16V	Petrol	62	HC	01/93-11/99				DOX-1405		DOX-0125	
1.5 i 16V	Petrol	66	HEE	08/94-				DOX-1405		DOX-0125	
COPEN											
0.7	Petrol	50	JBDET	09/03-02/06	M				DOX-1403	DOX-0113	DOX-0109
1.3	Petrol	64	K3-VE	03/06-	M				DOX-0236	DOX-0113	DOX-0109
CUORE (98-03)											
1.0 i	Petrol	41	EJ-DE	07/00-05/03				DOX-0204	DOX-1403	DOX-0109	DOX-0109
1.0 i	Petrol	41	EJ-DE	07/00-05/03						DOX-0125	
CUORE (03-07)											
1.0	Petrol	43	EJ-VE	05/03-08/07					DOX-1403		DOX-0109
FEROZA Hard Top											
1.6 i 16V	Petrol	70	HD-E	10/88-	M			DOX-1404		DOX-0125	
FEROZA Soft Top											
1.6 i 16V	Petrol	70	HD-E	10/88-	M			DOX-1404		DOX-0125	
GRAN MOVE											
1.5 16V	Petrol	66	HEEG	10/96-07/98				DOX-1405		DOX-0125	
1.6 16V	Petrol	67	HDEP	06/98-07/02				DOX-0205	DOX-0205	DOX-0109	DOX-0109
1.6 16V	Petrol	67	HDEP	06/98-07/02				DOX-1405		DOX-0125	
MATERIA											
1.3	Petrol	67	K3-VE	10/06-					DOX-0236	DOX-0113	DOX-0109
1.5	Petrol	76	3SZ-VE	10/06-					DOX-0236	DOX-0113	DOX-0109
1.5 ECO 4WD	Petrol	76	3SZ-VE	10/06-	M				DOX-0236	DOX-0113	DOX-0109
MOVE (94-02)											
1.0 i	Petrol	41	EJ-DE	07/00-09/02				DOX-0204	DOX-1403	DOX-0109	DOX-0109
SIRION (98-05)											
1.0 i	Petrol	43	EJ-VE	09/00-01/05				DOX-0204	DOX-1403	DOX-0109	DOX-0109

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
DAIHATSU *continued*											
SIRION (98-05) *continued*											
1.0 i 4WD	Petrol	43	EJ-VE	09/00-01/05				DOX-0204	DOX-1403	DOX-0109	DOX-0109
1.3 Sport	Petrol	75	K3-VE2	08/00-01/05				DOX-0236	DOX-0236	DOX-0109	DOX-0109
1.3 Sport 4WD	Petrol	75	K3-VE2	08/00-03/05				DOX-0236	DOX-0236	DOX-0109	DOX-0109
SIRION (05-)											
1.0	Petrol	51	1KR-FE	01/05-	M			DOX-0254	DOX-0236	DOX-0106	DOX-0109
1.3	Petrol	64	K3-VE	01/05-					DOX-0236	DOX-0113	DOX-0109
1.3 4WD	Petrol	64	K3-VE	04/05-					DOX-0237	DOX-0113	DOX-0109
1.5	Petrol	76	3SZ-VE	03/08-					DOX-0236	DOX-0113	DOX-0109
TERIOS (97-05)											
1.3	Petrol	63	K3-VE	09/01-10/05				DOX-0236	DOX-0204	DOX-0109	DOX-0109
1.3 4WD	Petrol	61	HE-EJ	10/97-10/00				DOX-1404		DOX-0125	
1.3 4WD	Petrol	63	K3-VE	10/00-10/05				DOX-0236	DOX-0204	DOX-0109	DOX-0109
TERIOS (05-)											
1.3 DVVT 4x4	Petrol	63	K3-VE	05/06-11/06	M				DOX-0204	DOX-0113	DOX-0109
1.5	Petrol	77	3SZ-VE	05/06-					DOX-0204	DOX-0113	DOX-0109
1.5 4WD	Petrol	77	3SZ-VE	05/06-					DOX-0204	DOX-0113	DOX-0109
TREVIS											
1.0	Petrol	43	EJ-VE	06/06-					DOX-1403		DOX-0109
YRV											
1.0	Petrol	43	EJ-VE	02/01-06/07	M			DOX-0204	DOX-1403	DOX-0109	DOX-0109
1.3	Petrol	64	K3-VE	02/01-06/07				DOX-0236	DOX-0236	DOX-0109	DOX-0109
1.3	Petrol	64	K3-VE	02/01-06/07						DOX-0113	
1.3 4WD	Petrol	64	K3-VE	02/01-06/07				DOX-0236	DOX-0236	DOX-0109	DOX-0109
1.3 4WD	Petrol	64	K3-VE	02/01-06/07						DOX-0113	
1.3 GTti	Petrol	95	K3-VET	07/02-06/07	A				DOX-0236	DOX-0113	DOX-0109
FIAT											
500 (07-)											
1.4	Petrol	74	169 A3.000	10/07-06/12	M			DOX-2006		DOX-0150	
1.4 Abarth	Petrol	99/118	312 A1.000	08/08-	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
500 C (09-)											
1.4	Petrol	74	169 A3.000	09/09-06/12	M			DOX-2006		DOX-0150	
1.4 Abarth	Petrol	103	312 A3.000	06/10-	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
BARCHETTA											
1.8 16V	Petrol	96	183A1000	04/95-05/98	M	Ch: >37640		DOX-1370		DOX-0119	
1.8 16V	Petrol	96	183A1000	05/98-09/00	M	Ch: 37640>		DOX-1547		DOX-0119	
1.8 16V	Petrol	96	188A6000	09/00-05/05	M			DOX-1541	DOX-1541	DOX-0121	DOX-0121
BRAVA (95-01)											
1.2 16V 80	Petrol	59	188 A5.000	10/00-10/01	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.2 16V 80	Petrol	60	182 B2.000	12/98-12/02	M			DOX-2006		DOX-0150	
1.4	Petrol	55	182 A5.000	10/95-09/98	M	Ch: 4029960>		DOX-1544		DOX-0120	
1.4 12 V	Petrol	59	182 A3.000	10/95-08/98	M	Ch: 4029960>		DOX-1544		DOX-0120	
1.4 12 V	Petrol	59	182 A3.000	10/96-08/98	M			DOX-1544		DOX-0120	
1.6 16V	Petrol	66	182 A6.000	10/95-09/98	M			DOX-1355		DOX-0119	
1.6 16V	Petrol	76	182 A4.000	02/96-10/01				DOX-1355		DOX-0119	
1.6 16V	Petrol	76	182 A4.000	02/96-10/01				DOX-1548		DOX-0119	
1.6 16V	Petrol	76	182 B6.000	01/99-03/02	M			DOX-1542	DOX-1543	DOX-0121	DOX-0121
1.8 GT 16V	Petrol	83	182 A2.000	10/95-09/98	M					DOX-0119	
1.8 GT 16V	Petrol	83	182 A2.000	10/98-07/99	M	Ch: >4873621				DOX-0119	
1.8 GT 16V	Petrol	83	182 A2.000	07/99-10/01	M	Ch: 4873621>		DOX-1547		DOX-0119	
BRAVO (95-02)											
1.2 16V 80	Petrol	59	188 A5.000	10/00-10/01	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.2 16V 80	Petrol	60	182 B2.000	12/98-10/00	M			DOX-2006		DOX-0150	
1.4	Petrol	55/59	182 A3.000; 182 A5.000	10/95-09/98	M	Ch: 4029960>		DOX-1544		DOX-0120	
1.4	Petrol	59	182 A3.000	02/96-09/98	M			DOX-1544		DOX-0120	
1.6 16V	Petrol	66	182 A6.000	10/95-09/98	M			DOX-1355		DOX-0119	
1.6 16V	Petrol	76	182 A4.000	03/96-10/01				DOX-1355		DOX-0119	
1.6 16V	Petrol	76	182 A4.000	03/96-10/01				DOX-1548		DOX-0119	
1.6 16V	Petrol	76	182 A4.000	10/98-10/01	M			DOX-1542	DOX-1543	DOX-0121	DOX-0121
1.8 GT	Petrol	83	182 A2.000	10/95-09/98	M					DOX-0119	
1.8 GT	Petrol	83	182 A2.000	10/98-07/99	M	Ch: >4873621				DOX-0119	
1.8 GT	Petrol	83	182 A2.000	07/99-10/01	M	Ch: 4873621>		DOX-1547		DOX-0119	
2.0 HGT 20V	Petrol	108	182 A1.000	10/95-07/98	M			DOX-1545		DOX-0120	
2.0 HGT 20V	Petrol	113	182 B7.000	07/98-10/01	M			DOX-1545		DOX-0120	
2.0 HGT 20V	Petrol	113	182 B7.000	07/98-10/01	M			DOX-2020		DOX-0150	
BRAVO (06-)											
1.4	Petrol	66	192 B2.000	04/07-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150

Lambda Sensors

Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
FIAT *continued*											
BRAVO (06-) *continued*											
1.4 LPG	Petrol/Petroleum Gas (LPG)	66	192 B2.000	11/09-	M			DOX-2006		DOX-0150	
1.4 T-Jet	Petrol	88/110	198 A1.000; 198 A4.000	09/07-	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
CINQUECENTO											
1.1 Sporting	Petrol	40	176 B2.000	10/94-01/98	M			DOX-1544		DOX-0120	
COUPE											
1.8 16V	Petrol	96	183 A1.000	03/96-09/96	M					DOX-0119	
1.8 16V	Petrol	96	183 A1.000	07/96-05/98	M	Eng No: >1070426				DOX-0119	
1.8 16V	Petrol	96	183 A1.000	05/98-08/00	M	Eng No: 1070426>		DOX-1549		DOX-0119	
2.0 16V	Petrol	102	836 A3.000	11/93-08/96	M			DOX-1351		DOX-0115	
2.0 16V	Petrol	102	836 A3.000	11/93-08/96	M			DOX-1545		DOX-0120	
2.0 20V	Petrol	108	182 A1.000	08/96-04/98	M			DOX-1545		DOX-0120	
2.0 20V	Petrol	113	182 B3.000	04/98-08/00	M			DOX-2020		DOX-0150	
2.0 20V Turbo	Petrol	162	175 A3.000	08/96-08/00	M			DOX-1545		DOX-0120	
CROMA (85-96)											
2000 16V	Petrol	101	154 E1.000	08/92-08/96	M	Ch: >14972				DOX-0120	
2000 16V	Petrol	101	154 E1.000	02/95-08/96	M	Ch: 14972>		DOX-1545		DOX-0120	
2500 V6	Petrol	119	834 G.000	06/93-02/95	M	Ch: >14972				DOX-0120	
DOBLO (01-)											
1.2	Petrol	48	223 A5.000	03/01-12/05	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2	Petrol	48	223 A5.000	03/01-12/05	M				DOX-2025		DOX-0150
1.4	Petrol	57	350 A1.000	10/05-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.6 16V	Petrol	76	182 B6.000	10/01-12/05	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.6 16V	Petrol	76	182 B6.000	10/01-12/05	M				DOX-2025		DOX-0150
DOBLO (10-)											
1.4	Petrol	70	843 A1.000	02/10-	M			DOX-2006		DOX-0150	
1.4 Natural Power	Bi-Fuel	88	198 A4.000	02/10-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
2.0 D Multijet	Diesel	99	263 A1.000	02/10-	M			DOX-1547		DOX-0119	
DUCATO (94-02)											
2.0	Petrol	80	RFW	03/94-12/01	M	Ch: 5267331>		DOX-1536		DOX-0120	
2.0	Petrol	80	RFW	01/02-04/02	M			DOX-2005	DOX-2009	DOX-0150	DOX-0150
2.0 4x4	Petrol	80	RFW	11/94-11/01	M	Ch: 5267331>		DOX-1536		DOX-0120	
2.0 Panorama/Combinato	Petrol	80	RFW	03/94-12/01	M	Ch: 5267331>		DOX-1536		DOX-0120	
DUCATO (02-06)											
2.0	Petrol	81	RFL	04/02-06/06	M			DOX-2005	DOX-2009	DOX-0150	DOX-0150
2.0 4x4	Petrol	81	RFL	05/02-07/06	M			DOX-2005	DOX-2009	DOX-0150	DOX-0150
2.0 Bipower	Bi-Fuel	81	RFL	11/02-06/06	M			DOX-2005	DOX-2009	DOX-0150	DOX-0150
FIORINO (77-88)											
1.5	Petrol	55	149 C1.000	07/90-08/93	M			DOX-1351		DOX-0115	
FIORINO (88-01)											
1.4	Petrol	49	146 D5.000	05/94-09/00	M			DOX-1351		DOX-0115	
1.4	Petrol	49	146 D5.000	05/94-09/00	M			DOX-1545		DOX-0120	
1.5 iE	Petrol	55	149 C1.000	07/90-10/92	M			DOX-1351		DOX-0115	
1.6	Petrol	55	146C6000	01/94-09/00	M			DOX-1351		DOX-0115	
1.6	Petrol	55	146D6000	01/94-09/00	M			DOX-1545		DOX-0120	
70 i.e. 1.4	Petrol	49	146C5000	05/94-09/00	M			DOX-1351		DOX-0115	
70 i.e. 1.4	Petrol	49	146D5000	05/94-09/00	M			DOX-1545		DOX-0120	
75 i.e. 1.5	Petrol	55	149 C1.000	07/90-06/93	M			DOX-1351		DOX-0115	
75 i.e. 1.6	Petrol	55	146C6000	10/93-09/00	M			DOX-1351		DOX-0115	
75 i.e. 1.6	Petrol	55	146D6000	10/93-09/00	M			DOX-1545		DOX-0120	
GRANDE PUNTO (05-)											
1.2	Petrol	48	199 A4.000	10/05-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	55/57	199 A7.000; 350 A1.000	10/05-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 16V	Petrol	70	199 A6.000	10/05-12/09	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 Abarth	Petrol	114/132	199 A8.000; 199A8000	12/07-06/10	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.4 LPG	Petrol/Petroleum Gas (LPG)	57	350 A1.000	12/08-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 Natural Power	Bi-Fuel	57	350 A1.000	07/08-12/09	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 T-Jet	Petrol	88	198 A4.000	09/07-12/09	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
IDEA											
1.2 16V	Petrol	59	188 A5.000	01/04-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	57/66	192 B2.000; 350 A1.000	12/03-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 16V	Petrol	70	843 A1.000	01/04-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
FIAT *continued*											
LINEA											
1.4	Petrol	57	350 A1.000	06/07-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 T-Jet	Petrol	88	198 A4.000	09/07-	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
MAREA											
1.2 16V	Petrol	60	182 B2.000	02/99-05/02	M			DOX-2006		DOX-0150	
1.4 80 12V	Petrol	59	182 A3.000	09/96-01/99	M			DOX-1544		DOX-0120	
1.6	Petrol	76	182 B6.000	09/00-08/02				DOX-1542	DOX-1543	DOX-0121	DOX-0121
1.6 100 16V	Petrol	76	182 A4.000	09/96-01/99		Ch: 176690>		DOX-1548		DOX-0119	
1.6 100 16V	Petrol	76	182 A4.000	09/96-01/99		Ch: 5054799>		DOX-1548		DOX-0119	
1.6 100 16V	Petrol	76	182 A4.000	09/96-05/02		Ch: >176690		DOX-1355		DOX-0119	
1.6 100 16V	Petrol	76	182 A4.000	09/96-05/02		Ch: >5054799		DOX-1355		DOX-0119	
1.6 100 16V	Petrol	76	182 A4.000	02/99-05/02				DOX-1548		DOX-0119	
1.6 100 16V Bipower	Bi-Fuel	76	185A3000	04/99-05/02	M			DOX-1355		DOX-0119	
1.6 100 16V Bipower	Bi-Fuel	76	185A3000	04/99-05/02	M			DOX-1548		DOX-0119	
1.8 115 16V	Petrol	83	182 A2.000	09/96-01/99	M					DOX-0119	
1.8 115 16V	Petrol	83	182 A2.000	02/99-05/02	M	Ch: >2018321				DOX-0119	
1.8 115 16V	Petrol	83	182 A2.000	02/99-05/02	M	Ch: >270957				DOX-0119	
1.8 115 16V	Petrol	83	182 A2.000	02/99-05/02	M	Ch: 2018321>		DOX-1547		DOX-0119	
1.8 115 16V	Petrol	83	182 A2.000	02/99-05/02	M	Ch: 270957>		DOX-1547		DOX-0119	
2.0 150 20V	Petrol	108	182 A1.000	09/96-04/99	M			DOX-1545		DOX-0120	
2.0 150 20V	Petrol	110	185 A8.000	01/01-05/02	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
2.0 155 20V	Petrol	113	182 B7.000	04/99-02/03	M			DOX-2020		DOX-0150	
MULTIPLA											
1.6	Petrol	76	182 B6.000	09/00-06/04	M			DOX-1542	DOX-1543	DOX-0121	DOX-0121
1.6 100 16V	Petrol	76	182 A4.000	04/99-06/04	M			DOX-1549		DOX-0119	
1.6 16V Bipower	Bi-Fuel	76	182 B6.000	10/01-06/10	M			DOX-1542	DOX-1543	DOX-0121	DOX-0121
1.6 16V Bipower	Bi-Fuel	76	186 A4.000	04/99-06/03	M			DOX-1549		DOX-0119	
1.6 16V Blupower	Gas	70	186 A3.000	04/99-06/03	M			DOX-1549		DOX-0119	
PALIO											
1.2	Petrol	44/59	188 A5.000; 188A4000	02/01-09/02	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2	Petrol	54	178 B5.000	09/97-02/01	M			DOX-1547		DOX-0119	
1.6 16V	Petrol	74	178 B3.000	09/97-02/01	M			DOX-1548		DOX-0119	
1.6 16V	Petrol	74	178 B3.000	09/97-02/01	M			DOX-1549		DOX-0119	
1.6 16V	Petrol	76	182 B6.000	02/01-09/02	M			DOX-1542	DOX-2020	DOX-0121	DOX-0150
PANDA (80-04)											
1.1	Petrol	37	156 C.046	05/91-03/95	M			DOX-1351		DOX-0115	
1.1	Petrol	37	156 C.046	05/91-03/95	M					DOX-0120	
900	Petrol	29	1170 A1.046	04/92-12/96	M	Eng No: >9117331				DOX-0120	
900	Petrol	29	1170 A1.046	04/92-12/96	M	Eng No: 9117331>		DOX-1545		DOX-0120	
1000	Petrol	32/37	156 A2.100; 156 A3.000	01/86-02/91	M			DOX-1351		DOX-0115	
1000 4x4	Petrol	32/33	156A2246	01/86-12/94	M			DOX-1351		DOX-0115	
1000 i.e	Petrol	33	156 A2.246	01/93-08/03	M			DOX-1351		DOX-0115	
1000 i.e. CAT	Petrol	33	141C2000	01/93-08/98	M			DOX-1545		DOX-0120	
1000 i.e. CAT	Petrol	33	156A2246	10/87-08/98	M			DOX-1351		DOX-0115	
1100	Petrol	37	156 C.046	05/91-12/99				DOX-1351		DOX-0115	
1100	Petrol	37	156 C.046	05/91-12/99						DOX-0120	
1100	Petrol	40	176B2000	02/95-09/03				DOX-1545		DOX-0120	
1100	Petrol	40	187A1000	12/00-09/03	M			DOX-1541		DOX-0121	
1100 4x4	Petrol	40	176 B2.000	02/95-08/03	M			DOX-1545		DOX-0120	
1100 Trekking 4x4	Petrol	37	156 C.046	10/91-08/03	M			DOX-1351		DOX-0115	
1100 Trekking 4x4	Petrol	37	156 C.046	10/91-08/03	M					DOX-0120	
PANDA (03-12)											
1.1	Petrol	40	187 A1.000	09/03-06/10	M					DOX-0121	DOX-0121
1.2	Petrol	44	188 A4.000	09/03-06/10	M			DOX-2006	DOX-2006	DOX-0121	DOX-0121
1.2	Petrol	44	188 A4.000	09/03-06/10	M					DOX-0150	DOX-0150
1.2	Petrol	51	169 A4.000	03/10-06/10	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2 4x4	Petrol	44	188 A4.000	08/09-06/10	M					DOX-0121	DOX-0121
1.2 4x4	Petrol	51	169 A4.000	11/09-06/10	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2 Bi-Power / Natural Power	Bi-Fuel	44	188 A4.000	06/07-06/10	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2 LPG	Petrol/Petroleum Gas (LPG)	44	188 A4.000	08/09-06/10	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	74	169 A3.000	10/06-06/10	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 Bi-Power / Natural Power	Bi-Fuel	57	350 A1.000	09/10-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 Natural Power	Bi-Fuel	57	350 A1.000	07/10-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
FIAT *continued*											
PUNTO (93-00)											
1.1	Petrol	40	176 B2.000	04/96-09/99	M	Eng No: 5795654>		DOX-1545		DOX-0120	
1.1	Petrol	40	176 B2.000	04/96-02/00	M	Eng No: >5795654				DOX-0120	
1.2 16V	Petrol	63	176 B9.000	04/97-09/99	M			DOX-1544		DOX-0120	
1.4 GT Turbo	Petrol	96	176 B6.000	09/96-09/99	M	Eng No: >9240632				DOX-0120	
1.4 GT Turbo	Petrol	96	176 B6.000	09/96-09/99	M	Eng No: 9240632>		DOX-1545		DOX-0120	
1.4 GT Turbo	Petrol	98	176 A4.000	01/94-09/96	M	Eng No: >5795654				DOX-0120	
1.4 GT Turbo	Petrol	98	176 A4.000	01/94-09/96	M	Eng No: 5795654>		DOX-1545		DOX-0120	
55 1.1	Petrol	40	176A6000; 176B2000	09/93-09/99	M	Eng No: >5795654				DOX-0120	
55 1.1	Petrol	40	176A6000; 176B2000	09/93-09/99	M	Eng No: 5795654>		DOX-1545		DOX-0120	
60 1.2	Petrol	43	176 A7.000	04/94-04/97	M	Eng No: 9575654>		DOX-1545		DOX-0120	
60 1.2	Petrol	43	176 A7.000	04/94-06/00	M	Eng No: >9575654				DOX-0120	
60 1.2	Petrol	43/44	176 A7.000; 176A7000	01/94-09/99	M	Eng No: >5795654				DOX-0120	
60 1.2	Petrol	43/44	176 A7.000; 176A7000	01/94-09/99	M	Eng No: 5795654>		DOX-1545		DOX-0120	
60 1.2	Petrol	44	176B1000	03/94-09/99	A	Eng No: >5795654				DOX-0120	
60 1.2	Petrol	44	176B1000	03/94-09/99	A	Eng No: 5795654>		DOX-1545		DOX-0120	
60 1.2	Petrol	44	176B4000	03/94-09/99		Eng No: 5795654>		DOX-1545		DOX-0120	
60 1.2	Petrol	44	176B4000	05/95-09/99		Eng No: 9575654>		DOX-1545		DOX-0120	
60 1.2	Petrol	44	176B4000	05/95-06/00		Eng No: >9575654				DOX-0120	
60 1.2	Petrol	44	176B4000	06/95-09/99		Eng No: >5795654				DOX-0120	
75 1.2	Petrol	54	176 A8.000	10/93-09/99	M	Eng No: >5795654				DOX-0120	
75 1.2	Petrol	54	176 A8.000	10/93-09/99	M	Eng No: 5795654>		DOX-1545		DOX-0120	
75 1.2	Petrol	54	176 A8.000	01/98-09/99	M			DOX-1546		DOX-0114	
85 16V 1.2	Petrol	63	176 B9.000	04/97-09/99	M			DOX-1544		DOX-0120	
PUNTO (99-10)											
1.2 16V 80	Petrol	59	188 A5.000	09/99-06/03				DOX-2006		DOX-0150	
1.2 16V 80	Petrol	59	188 A5.000	07/03-08/09	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2 60	Petrol	44	188 A4.000	09/99-08/09	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2 Natural Power	Bi-Fuel	44	188 A4.000	09/03-08/09	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	70	843 A1.000	09/03-08/09	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.8 130 HGT	Petrol	96	183A1000	09/99-06/03	M			DOX-1548		DOX-0119	
1.8 130 HGT	Petrol	96	188A6000	09/99-08/09	M		L	DOX-1541		DOX-0121	
PUNTO EVO (08-12)											
1.2	Petrol	48	199 A4.000	10/09-06/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	55/57	199 A7.000; 350 A1.000	07/09-06/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 LPG	Petrol/Petroleum Gas (LPG)	57	350 A1.000	10/09-06/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 Natural Power	Bi-Fuel	57	350 A1.000	10/09-06/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
SCUDO (96-06)											
1.6	Petrol	58	220 A 2.000	02/96-12/03	M			DOX-1536		DOX-0120	
2.0	Petrol	100	RFN (EW10J4)	09/00-12/06	M			DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	06/00-12/06				DOX-2001	DOX-2001	DOX-0150	DOX-0150
SEICENTO (98-)											
0.9	Petrol	29	1170 A1.046	01/98-08/00				DOX-1545		DOX-0120	
0.9	Petrol	29	1170 A1.046	09/00-08/05	M			DOX-1545		DOX-0120	
1.1	Petrol	40	176 B2.000; 176B2000	01/98-08/00	M			DOX-1544		DOX-0120	
1.1	Petrol	40	187A1000	09/00-08/05	M			DOX-1541	DOX-1541	DOX-0121	DOX-0121
SIENA											
1.2	Petrol	44	188A4000	04/02-	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2	Petrol	59	188 A5.000	01/02-				DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.6	Petrol	76	182 B6.000	01/02-12/11	M			DOX-2020		DOX-0150	
1.6 16V	Petrol	78	178 B3.000	10/99-12/01	M			DOX-1548		DOX-0119	
STILO											
1.2 16V	Petrol	59	188 A5.000	02/02-12/03	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 16V	Petrol	66/70	192 B2.000; 843 A1.000	01/04-01/08	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
FIAT *continued*											
STILO *continued*											
1.6 16V	Petrol	76	182 B6.000	10/01-01/08	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
1.8 16V	Petrol	98	192 A4.000	10/01-01/08	M		L/R	DOX-1541		DOX-0121	
2.4 20V	Petrol	125	192 A2.000	10/01-11/06	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
STRADA											
1.2	Petrol	44	188 A4.000	04/03-05/06	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2	Petrol	54	178 B5.000	06/99-03/03	M			DOX-1547		DOX-0119	
TEMPRA											
1.4 i.e.	Petrol	51	160A1046	03/92-08/96	M			DOX-1351		DOX-0115	
1.4 i.e.	Petrol	51	836A4000	03/92-08/96	M	Ch: 6073158>		DOX-1545		DOX-0120	
1.4 i.e.	Petrol	51	836A4000	03/92-08/96	M	Ch: 7559353>		DOX-1545		DOX-0120	
1.4 i.e.	Petrol	51	836A4000	01/95-08/96	M	Ch: >6073158				DOX-0120	
1.4 i.e.	Petrol	51	836A4000	01/95-08/96	M	Ch: >7559353				DOX-0120	
1.6 i.e.	Petrol	55	159A3048	03/93-06/94	A			DOX-1351		DOX-0115	
1.6 i.e.	Petrol	55	835C1000	06/92-08/96	M	Ch: 6073158>		DOX-1545		DOX-0120	
1.6 i.e.	Petrol	55	835C1000	06/92-08/96	M	Ch: 7559353>		DOX-1545		DOX-0120	
1.6 i.e.	Petrol	55	835C1000	03/93-08/96	M	Ch: >6073158				DOX-0120	
1.6 i.e.	Petrol	55	835C1000	03/93-08/96	M	Ch: >7559353				DOX-0120	
1.6 i.e.	Petrol	55/57	159 A3.046; 159A3046; 159A3048	06/90-08/96				DOX-1351		DOX-0115	
1.8 i.e.	Petrol	66/74/ 76/77	159 A4.046; 835 C2.000; 835 C4.000; 836 A5.000	03/92-08/96	M					DOX-0120	
TIPO											
1.4	Petrol	52	160A1046	01/88-12/89	M			DOX-1351		DOX-0115	
1.4 i.e.	Petrol	51	836A4000	07/94-04/95	M			DOX-1545		DOX-0120	
1.4 i.e.	Petrol	51/57	159 A2.000; 160A1046	05/89-12/94	M			DOX-1351		DOX-0115	
1.6 i.e.	Petrol	55	835C1000	03/93-04/95	M					DOX-0120	
1.6 i.e.	Petrol	55/57/ 66	149 C2.046; 159 A3.046; 159A3048	02/88-06/94	A			DOX-1351		DOX-0115	
1.8 i.e.	Petrol	66/74/ 76	159 A4.000; 835 C2.000; 835 C4.000	04/93-04/95	M					DOX-0120	
1.8 i.e.	Petrol	77	159 A4.046	10/90-02/93	M			DOX-1351		DOX-0115	
1.8 i.e.16V Sport	Petrol	100	160 A5.000	11/89-06/92	M			DOX-1351		DOX-0115	
2.0 16V	Petrol	107	160 A8.046	07/91-02/93	M			DOX-1351		DOX-0115	
2.0 i.e.	Petrol	80/83	159 A5.046; 159 A6.046	03/90-04/95				DOX-1351		DOX-0115	
2.0 i.e. 16V Sport	Petrol	102	836 A3.000	03/93-12/94	M			DOX-1351		DOX-0115	
ULYSSE (94-02)											
1.8	Petrol	73	LFW	05/97-08/02	M			DOX-1536		DOX-0120	
2.0	Petrol	89	RFU (XU10J2C)	06/94-08/02	M			DOX-1536		DOX-0120	
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/02				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 16V	Petrol	97	RFV	10/98-09/00	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 Turbo	Petrol	108	RGX (XU10J2CTE)	06/94-08/02	M			DOX-1536		DOX-0120	
ULYSSE (02-11)											
2.0	Petrol	100	RFN (EW10J4)	08/02-10/05				DOX-2001	DOX-2001	DOX-0150	DOX-0150
3.0	Petrol	150	XFW	08/02-09/05	A		L	DOX-2005	DOX-2005	DOX-0150	DOX-0150
3.0	Petrol	150	XFW	08/02-09/05	A		R	DOX-2001	DOX-2001	DOX-0150	DOX-0150
UNO (83-10)											
1.3 Turbo i.e.	Petrol	74	146 A2.246	09/89-03/91	M			DOX-1351		DOX-0115	
1.4 Turbo i.e.	Petrol	82/87	146 A8.000; 146 A8.046	09/89-09/93	M			DOX-1351		DOX-0115	
45 1.0	Petrol	32/37	156A2246	10/89-12/93	M			DOX-1351		DOX-0115	
45 i.e. 1.0	Petrol	33	156 A2.246	10/89-12/93	M			DOX-1351		DOX-0115	
50 1.1	Petrol	37	156 C.046	01/90-12/93	M			DOX-1351		DOX-0115	
50 i.e. 1.1	Petrol	36	146 C3.000	06/92-12/93	M			DOX-1351		DOX-0115	
70 i.e. 1.4	Petrol	51/53	146 C1.000; 160 A1.046	09/89-12/93				DOX-1351		DOX-0115	
70 i.e. 1.4	Petrol	53	146 C1.000	09/89-12/93	M			DOX-1351		DOX-0115	
70 S 1.4	Petrol	52	160 A1.048	09/89-10/92	A			DOX-1351		DOX-0115	
75 i.e. 1.5	Petrol	55	149C1000	10/85-12/93				DOX-1351		DOX-0115	
FORD											
C-MAX (07-)											
1.6	Petrol	74	HWDA; HWDB; SHDA; SHDB; SHDC	02/07-08/10	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.6 Ti	Petrol	77	DCTIVCT (C16HDEZ)	12/10-	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.8	Petrol	92	HE (PFIMI4)	02/07-08/10	M			DOX-2004		DOX-0150	
1.8 Flexifuel	Petrol/E thanol	92	Q7DA	02/07-08/10	M			DOX-2004		DOX-0150	
2.0	Petrol	107	AODA/B (HE)	02/07-08/10				DOX-2004		DOX-0150	
COUGAR											
2.0 16V	Petrol	96	EDB (ZH20)	08/98-02/01	M			DOX-1371		DOX-0119	
2.5 ST 200	Petrol	151	SGA	06/00-02/01	M		R	DOX-1361		DOX-0119	
2.5 ST 200	Petrol	151	SGA	06/00-02/01	M		R	DOX-1372		DOX-0121	
2.5 V6 24V	Petrol	125	LCBA	08/98-06/00			L	DOX-1372		DOX-0121	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
FORD *continued*											
COUGAR *continued*											
2.5 V6 24V	Petrol	125	LCBA; LCBE (MP25)	08/98-09/00			R	DOX-1361		DOX-0119	
2.5 V6 24V	Petrol	125	LCBE (MP25)	06/00-02/01			L/R	DOX-1372		DOX-0121	
ESCORT IV (85-90)											
1.4	Petrol	54	FU (HL14)	01/86-07/90	M					DOX-0115	
1.4	Petrol	54	FU (HL14)	01/86-07/90	M					DOX-0120	
1.6 i	Petrol	75	LJB	08/89-07/90	M					DOX-0115	
1.6 XR3i	Petrol	77	LRB (HL16EFI); R7 (HL16EFI)	01/86-07/90	M					DOX-0115	
ESCORT V (90-94)											
1.3	Petrol	46	JBD	12/92-12/94	M					DOX-0114	
1.4	Petrol	52	F6F (HL14CFI); F6G (HL14CFI)	12/92-12/94	M					DOX-0114	
1.8 16V	Petrol	77	RDA	02/92-12/92	M			DOX-1353		DOX-0114	
1.8 16V	Petrol	77	RDA	02/92-12/92	M					DOX-0119	
1.8 16V XR3i	Petrol	77	RDA	02/92-12/92				DOX-1353		DOX-0114	
1.8 16V XR3i	Petrol	77	RDA	02/92-12/92						DOX-0119	
1.8 16V XR3i	Petrol	77/96	RDA; RQB	02/92-12/92	M			DOX-1353		DOX-0114	
1.8 16V XR3i	Petrol	77/96	RDA; RQB	02/92-12/92	M					DOX-0119	
RS 2000	Petrol	110	N7A	05/91-12/92	M		R	DOX-1353		DOX-0114	
RS 2000	Petrol	110	N7A	05/91-12/92	M		R			DOX-0119	
ESCORT VI (92-95)											
1.3	Petrol	44	J6A (BL13CFI)	09/92-01/95	M					DOX-0114	
1.4	Petrol	52	F4B (HL14EFI); F6F (HL14CFI); F6F; F6G (HL14CFI); F6G	09/92-01/95	M					DOX-0114	
1.6 16V XR3i	Petrol	66	L1E	12/92-01/95	M			DOX-1353		DOX-0114	
1.6 i 16V	Petrol	65	L1H	01/94-01/95				DOX-1353		DOX-0114	
1.6 i 16V	Petrol	66	L1E	09/92-01/95				DOX-1353		DOX-0114	
1.6 i 16V	Petrol	66	L1E	09/92-01/95	M					DOX-0119	
1.8 16V XR3i	Petrol	96	RQB	09/92-01/95	M			DOX-1353		DOX-0114	
1.8 i 16V	Petrol	77	RDA	09/92-01/95	M			DOX-1353		DOX-0114	
1.8 i 16V	Petrol	77	RDA	09/92-01/95	M					DOX-0119	
1.8 XR3i 16V 4x4	Petrol	77/96	RDA; RQB	08/93-01/95	M			DOX-1353		DOX-0114	
RS 2000 4x4	Petrol	110	N7A	08/93-01/95	M		R	DOX-1353		DOX-0114	
ESCORT VII (95-98)											
1.3	Petrol	44	J4 (BL13EFIN); J6A (BL13CFI)	01/95-10/98	M					DOX-0114	
1.4	Petrol	55	F4B	01/95-10/98	M					DOX-0114	
1.6 16V	Petrol	66	L1E	01/95-10/98	A			DOX-1353		DOX-0119	
1.6 16V 4x4	Petrol	66	L1E	01/95-08/96	M			DOX-1353		DOX-0114	
1.6 16V 4x4	Petrol	66	L1E	01/95-08/96	M					DOX-0119	
1.8 16V	Petrol	77/85	RDA; RKC	01/95-10/98	M			DOX-1353		DOX-0114	
1.8 16V	Petrol	77/85	RDA; RKC	01/95-10/98	M					DOX-0119	
RS 2000	Petrol	110	N7A	08/95-08/96	M		R	DOX-1353		DOX-0114	
RS 2000 4x4	Petrol	110	N7A	08/95-08/96	M		R	DOX-1353		DOX-0114	
RS 2000 4x4	Petrol	110	N7A	08/95-08/96	M		R			DOX-0119	
ESCORT VII (95-02)											
1.3	Petrol	44	J4 (BL13EFIN); J6A (BL13CFI)	01/95-02/99	M					DOX-0114	
1.4	Petrol	54	F4B	01/95-09/01	M			DOX-1371		DOX-0114	
1.4	Petrol	54	F4B	01/95-09/01	M					DOX-0119	
1.4	Petrol	55	F4B (HL14EFI); F4B	01/95-02/99	M					DOX-0114	
1.6 16V	Petrol	66	L1E	01/95-07/00				DOX-1353		DOX-0114	
1.6 16V	Petrol	66	L1E	01/95-07/00						DOX-0119	
1.6 16V XR3i	Petrol	65/66	L1E; L1H	02/95-03/98				DOX-1353		DOX-0114	
1.6 16V XR3i	Petrol	65/66	L1E; L1H	02/95-03/98						DOX-0119	
1.6 i 16V	Petrol	66	L1K (ZH16EEC1)	01/95-02/99	A			DOX-1353		DOX-0114	
1.6 i 16V	Petrol	66	L1K (ZH16EEC1)	01/95-02/99	A					DOX-0119	
1.8 16V	Petrol	77/85	RDA; RKC	01/95-02/99	M			DOX-1353		DOX-0114	
1.8 16V	Petrol	77/85	RDA; RKC	01/95-02/99	M					DOX-0119	
1.8 16V XR3i	Petrol	77	RDA	02/95-08/95	M			DOX-1353		DOX-0114	
1.8 16V XR3i	Petrol	85	RKC	04/96-03/98	M			DOX-1353		DOX-0114	
1.8 16V XR3i	Petrol	85	RKC	04/96-03/98	M					DOX-0119	
FIESTA III (89-97)											
1.1	Petrol	37	G6A	12/92-12/95	M					DOX-0114	
1.3	Petrol	44	J6B	12/92-02/96	M					DOX-0114	
1.3	Petrol	44	J6B (BL13CFI)	12/92-07/95						DOX-0114	
1.3 CAT	Petrol	44	J6B	12/92-07/95						DOX-0114	
1.4	Petrol	52	F6E	12/92-01/94	M					DOX-0114	
1.4 CAT	Petrol	54	F4A	02/94-07/95	M					DOX-0114	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
FORD *continued*											
FIESTA III (89-97) *continued*											
1.6 i 16V	Petrol	65	L1G	01/94-07/95	M			DOX-1353		DOX-0114	
1.6 i 16V	Petrol	65	L1G	01/94-07/95	M					DOX-0119	
FIESTA IV (95-02)											
1.25 i 16V	Petrol	55	DHA (ZH12)	08/95-08/99				DOX-2013		DOX-0150	
1.25 i 16V	Petrol	55	DHA (ZH12)	09/98-09/99	M			DOX-1371		DOX-0119	
1.25 i 16V	Petrol	55	DHB (ZH12); DHC (ZH12)	08/99-01/02	M	Euro 3		DOX-1371		DOX-0119	
1.25 i 16V	Petrol	55	DHB (ZH12); DHC (ZH12)	08/99-01/02	M	Euro 3		DOX-1372		DOX-0121	
1.25 i 16V	Petrol	55	DHD (ZH12)	10/99-01/02	A	Euro 3		DOX-2013		DOX-0150	
1.3	Petrol	44	J4C	10/96-09/02	M					DOX-0114	
1.3 i	Petrol	37/44	J4C (BL13EFIN); JJA (BL13EFIL)	08/95-08/99	M			DOX-1371		DOX-0114	
1.3 i	Petrol	37/44	J4C (BL13EFIN); JJA (BL13EFIL)	08/95-08/99	M					DOX-0119	
1.3 i	Petrol	37/44	J4J (BL13EFIN); J4L (BL13EFIN); JJC (BL13EFIL); JJE (BL13EFIL)	08/99-01/02	M					DOX-0114	
1.4 i	Petrol	66	FHA	04/96-10/99	M			DOX-2013		DOX-0150	
1.4 i 16V	Petrol	66	FHA (ZH14); FHE (ZH14)	04/96-01/02	M			DOX-2013		DOX-0150	
1.6 16V Sport	Petrol	76	L1T	02/00-01/02	M			DOX-1371		DOX-0119	
FIESTA V (01-10)											
1.25 16V	Petrol	51/55	DU (FUJAUJB); M7JA/M7JB)	02/03-11/08	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.3	Petrol	44/51	BAJA; EFI (A9AJA/A9AJB)	03/02-11/08	M			DOX-1372	DOX-1371	DOX-0121	DOX-0119
1.4 16V	Petrol	59	FXJA/B); FXJAXJB)	03/02-11/08	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.6 16V	Petrol	74	FYJAYJB)	03/02-11/08				DOX-1371		DOX-0119	
1.6 16V	Petrol	74	FYJAYJB)	03/02-11/08	M				DOX-1371		DOX-0119
ST150	Petrol	110	N4JB	03/05-11/08	M			DOX-2004		DOX-0150	
FOCUS C-MAX (03-07)											
1.6	Petrol	74	HWDA/B	10/03-03/07	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.8	Petrol	88/92	CSDA (HE); DURA18	10/03-03/07	M			DOX-2004		DOX-0150	
2.0	Petrol	107	AODA/B (HE)	03/04-03/07				DOX-2004		DOX-0150	
FOCUS I (98-05)											
1.4 16V	Petrol	55	FXDA (ZH14SE); FXDC (ZH14SED4)	10/98-11/04	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.4 16V	Petrol	55	FXDA (ZH14SE); FXDC (ZH14SED4)	10/98-11/04	M			DOX-2004		DOX-0150	
1.6 16V	Petrol	74	FYDA (ZH16SE)	10/98-11/04				DOX-2004	DOX-1371	DOX-0150	DOX-0119
1.6 16V	Petrol	74	FYDC (ZH16SED4)	10/98-11/04				DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.8 16V	Petrol	85	EYDA (ZH18E)	02/99-11/04				DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.8 16V	Petrol	85	EYDA (ZH18E); EYDC (ZH18ED4)	10/98-11/04	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
2.0 16V	Petrol	96	EDDA (ZH20E); EDDC (ZH20ED4)	10/98-11/04	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
2.0 16V	Petrol	96	EDDA (ZH20E); EDDC (ZH20ED4)	10/98-11/04	M			DOX-1372		DOX-0121	
RS	Petrol	158	HMDA	10/02-11/04	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
ST170	Petrol	127	ALDA	03/02-11/04	M			DOX-1372	DOX-1371	DOX-0121	DOX-0119
FOCUS II (04-10)											
1.4	Petrol	59	FXJA/B)	11/04-04/10	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.6	Petrol	74	FYJA/B); HWDA/B	11/04-09/11				DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.6	Petrol	74	HWDA/B	11/04-04/08	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.6 Ti	Petrol	85	HXDA (ZH16TIVCT)	12/07-04/10	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150
1.8 Flexifuel	Petrol/Ethanol	92/96	Q7DA (DURA18FLEX); Q7DA	01/06-08/10	M			DOX-2004		DOX-0150	
2.0	Petrol	107	AODA/B (HE)	11/04-09/11				DOX-2004		DOX-0150	
2.5 ST	Petrol	166	HYDA	10/05-12/07	M				DOX-2021		DOX-0150
FUSION											
1.25	Petrol	55	DU (FUJAUJB)	08/04-	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.4	Petrol	59	FXJA/B); FXJAXJB)	08/02-07/10	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.6	Petrol	74	FYJA/B); FYJAYJB)	08/02-07/10				DOX-1371		DOX-0119	
1.6	Petrol	74	FYJA/B); FYJAYJB)	08/02-07/10	M				DOX-1371		DOX-0119
GALAXY (92-06)											
2.0 i	Petrol	85	NSE (DL20)	11/95-05/06				DOX-2013		DOX-0150	
2.0 i	Petrol	85	NSE (DL20)	01/01-05/06	M			DOX-2004		DOX-0150	
2.3 16V	Petrol	103	E5SB	09/01-08/02				DOX-2004		DOX-0150	
2.3 16V	Petrol	107	Y5 (DH23)	01/97-08/01				DOX-2004		DOX-0150	
2.3 16V	Petrol	107	Y5 (DH23)	01/97-08/01				DOX-2013		DOX-0150	
2.8 i V6	Petrol	128	PW (W28)	11/95-04/00				DOX-2010		DOX-0150	
2.8 i V6 4x4	Petrol	128	PW (W28)	11/97-04/00	M			DOX-2010		DOX-0150	
GRAND C-MAX											
1.6 Ti	Petrol	77	DCTIVCT (C16HDEZ)	12/10-	M			DOX-2004	DOX-2055	DOX-0150	DOX-0150

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
FORD *continued*											
KA (96-08)											
1.3 i	Petrol	36/44	J4K (BL13EFIN); JJD (BL13EFIL)	06/98-11/08	M			DOX-1371		DOX-0114	
1.3 i	Petrol	36/44	J4K (BL13EFIN); JJD (BL13EFIL)	06/98-11/08	M					DOX-0119	
1.3 i	Petrol	36/44	J4M (BL13EFIN); JJF (BL13EFIL)	06/98-11/08	M			DOX-1371		DOX-0114	
1.3 i	Petrol	36/44	J4M (BL13EFIN); JJF (BL13EFIL)	06/98-11/08	M			DOX-1372		DOX-0119	
1.3 i	Petrol	36/44	J4M (BL13EFIN); JJF (BL13EFIL)	06/98-11/08	M					DOX-0121	
1.3 i	Petrol	37/44	J4D (BL13EFIN); JJB	09/96-11/08	M					DOX-0114	
1.3 i	Petrol	44/51	BAJA; EFI (A9AJA/A9AJB)	08/02-11/08	M			DOX-1372	DOX-1371	DOX-0121	DOX-0119
1.6 i	Petrol	70	CDA/B/C (BL16EFI)	07/03-11/08	M			DOX-1372	DOX-1371	DOX-0121	DOX-0119
KUGA											
2.5 4x4	Petrol	147	HYDB	03/09-					DOX-2021		DOX-0150
MONDEO I (93-96)											
1.6 i 16V	Petrol	65/66	L1F; L1J	02/93-08/96	M			DOX-1361		DOX-0119	
1.8 i 16V	Petrol	82/85	RKA; RKB	02/93-08/96				DOX-1361		DOX-0119	
1.8 i 16V 4x4	Petrol	85	RKA	01/95-08/96	M			DOX-1361		DOX-0119	
2.0 i 16V	Petrol	97/100	NGA	01/93-08/96				DOX-1361		DOX-0119	
2.0 i 16V 4x4	Petrol	97/100	NGA	12/94-08/96	M			DOX-1361		DOX-0119	
2.5 i 24V	Petrol	125	SEA	07/94-08/96			L/R	DOX-1372		DOX-0121	
MONDEO II (96-00)											
1.6 i	Petrol	66	L1J	09/96-11/00	M			DOX-1361		DOX-0119	
1.6 i	Petrol	66	L1J	09/96-11/00	M			DOX-1371		DOX-0119	
1.6 i 16V	Petrol	70	L1 (ZH16EECV)	05/98-11/00	M			DOX-1371		DOX-0119	
1.8 i	Petrol	85	RKJ (ZH18M)	09/96-11/00				DOX-1361		DOX-0119	
1.8 i	Petrol	85	RKJ (ZH18M)	09/96-11/00				DOX-1371		DOX-0119	
2.0 i	Petrol	96	NGA	05/98-11/00				DOX-1371		DOX-0119	
2.5 24V	Petrol	125	SEA	09/96-11/00			L/R	DOX-1361		DOX-0119	
2.5 24V	Petrol	125	SEA	09/96-11/00			L/R	DOX-1372		DOX-0121	
2.5 24V	Petrol	125	SEC (MP25N)	05/00-11/00			L/R	DOX-1372		DOX-0121	
2.5 ST 200	Petrol	151	SGA	05/99-11/00	M		L/R	DOX-1361		DOX-0119	
2.5 ST 200	Petrol	151	SGA	05/99-11/00	M		L/R	DOX-1372		DOX-0121	
ORION I (83-86)											
1.6 i	Petrol	77	LRA (HL16EFI)	07/83-03/86	M					DOX-0115	
ORION II (85-90)											
1.4 CAT	Petrol	54	F6B (HL14CFI)	07/87-07/90	M					DOX-0115	
1.4 CAT	Petrol	54	F6B (HL14CFI)	07/87-07/90	M					DOX-0120	
1.6 i	Petrol	77	LRB	03/86-07/90	M					DOX-0115	
ORION III (90-93)											
1.3	Petrol	44	J6A (BL13CFI)	12/92-12/93	M					DOX-0114	
1.4	Petrol	52	F6F; F6G	12/92-12/93	M					DOX-0114	
1.6 i 16V	Petrol	66	L1E (ZH16EECU)	07/92-12/93	M			DOX-1353		DOX-0114	
1.6 i 16V	Petrol	66	L1E (ZH16EECU)	07/92-12/93	M					DOX-0119	
1.8 i 16V	Petrol	77/96	RDA; RQB	01/92-12/93	M			DOX-1353		DOX-0114	
1.8 i 16V	Petrol	77/96	RDA; RQB	01/92-12/93	M					DOX-0119	
PUMA											
1.4 16V	Petrol	66	FHD (ZH14S); FHF (ZH14S)	11/97-10/00	M			DOX-2013		DOX-0150	
1.6 16V	Petrol	76	L1W	08/00-12/01	M			DOX-2013		DOX-0150	
1.7 16V	Petrol	92	MHA (ZH17)	03/97-12/01	M			DOX-2013		DOX-0150	
ST 160	Petrol	118	MHA (ZH17)	10/99-10/00	M			DOX-2013		DOX-0150	
SCORPIO I (85-94)											
2.0 i	Petrol	85	N9F	01/93-09/94						DOX-0114	
2.0 i	Petrol	85	N9F (DL20EFIC); N9F	01/93-09/94	M					DOX-0114	
2.0 i	Petrol	85	NRA (TL20INJ)	04/85-10/89						DOX-0115	
2.0 i	Petrol	85	NRA (TL20INJ)	04/85-10/89						DOX-0120	
2.0 i	Petrol	88	N9D	01/90-12/91	A					DOX-0115	
2.0 i	Petrol	88	N9D	01/90-12/91	A					DOX-0120	
2.0 i	Petrol	88	N9D	01/93-09/94						DOX-0114	
2.0 i	Petrol	92	N9B	05/89-01/90						DOX-0120	
2.4 i	Petrol	92	ARD	01/93-10/94			L/R			DOX-0114	
2.4 i	Petrol	96	ARC	09/86-09/88			L/R			DOX-0115	
2.4 i CAT	Petrol	92	ARD	01/93-09/94			L/R			DOX-0114	
2.9 24V	Petrol	143	BOA	08/93-09/94	A		L/R			DOX-0114	
2.9 i	Petrol	107	BRD (TV29)	01/92-09/94	A		L/R			DOX-0114	
2.9 i	Petrol	107	BRE (TV29); BRF (TV29)	01/92-09/94	M		L/R			DOX-0114	
2.9 i	Petrol	107	BRF (TV29)	01/93-12/94			L/R			DOX-0114	
2.9 i	Petrol	110	BRC	09/86-06/89			L/R			DOX-0115	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
FORD *continued*											
SCORPIO I (85-94) *continued*											
2.9 i 24V	Petrol	143	BOA	08/93-09/94	A		L/R			DOX-0114	
2.9 i 4x4	Petrol	107	BRF (TV29)	01/93-10/94	M		L/R			DOX-0114	
2.9 i 4x4	Petrol	110	BRC	09/86-09/94	M		L/R			DOX-0114	
2.9 i 4x4	Petrol	110	BRC	09/86-09/94	M		L/R			DOX-0115	
2.9 i CAT	Petrol	107	BRE	01/92-09/94	M		L/R			DOX-0114	
SCORPIO II (94-98)											
2.0 i	Petrol	85	NSD	10/94-10/94						DOX-0114	
2.0 i	Petrol	85	NSD	10/94-08/98	M			DOX-2013		DOX-0150	
2.0 i 16V	Petrol	100	N3A	10/94-08/98				DOX-2013		DOX-0150	
2.3 i 16V	Petrol	108	Y5A	06/96-08/98				DOX-2013		DOX-0150	
2.9 i	Petrol	110	BRG	02/95-08/96			L/R			DOX-0114	
SIERRA (87-93)											
1.6	Petrol	53	LSF	01/88-01/90	M					DOX-0120	
1.6 i	Petrol	59	L6B	10/89-01/90	M					DOX-0120	
1.8	Petrol	64	R6A (HL18CFI)	04/92-02/93	M			DOX-1353		DOX-0119	
2.0 4x4	Petrol	92	N9C	05/89-01/90	M					DOX-0120	
2.0 i	Petrol	85	N4A (TL20EFI)	01/87-06/90						DOX-0115	
2.0 i	Petrol	85	N4A (TL20EFI)	01/87-06/90						DOX-0120	
2.0 i	Petrol	85	N4A (TL20EFI)	01/87-06/90	M					DOX-0115	
2.0 i	Petrol	85	N4A (TL20EFI)	01/87-06/90	M					DOX-0120	
2.0 i	Petrol	88/92	N9B; N9C	05/89-01/90						DOX-0120	
2.0 i	Petrol	92	N9C	05/89-01/90	M					DOX-0120	
2.9	Petrol	107	B4B	08/88-11/89	M					DOX-0115	
2.9 4x4	Petrol	107/110	B4A; B4B; B4C	08/88-11/89	M					DOX-0115	
2.9 i	Petrol	107/110	B4B; B4C	08/88-11/89	M					DOX-0115	
2.9 i XR 4x4	Petrol	107/110	B4A; B4B	08/88-11/89	M					DOX-0115	
STREET KA											
1.6	Petrol	70	CDA/B/C (BL16EFI)	05/03-07/05	M			DOX-1372	DOX-1371	DOX-0121	DOX-0119
TOURNEO (12-)											
1.8 16V	Petrol	85	EYPA (ZH18)	06/02-06/06	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
TRANSIT (91-94)											
2.0	Petrol	72	NCA	11/92-08/94	M					DOX-0114	
2.0 i	Petrol	72	NCA	09/91-07/94	M					DOX-0114	
2.9 i	Petrol	107	BRT	10/92-09/94	M					DOX-0114	
TRANSIT (94-00)											
2.0	Petrol	84	NSF; NSG	06/94-03/00	M			DOX-2013		DOX-0150	
TRANSIT (00-06)											
2.3 16V	Petrol	107	E5FA	04/01-05/06	M			DOX-2004		DOX-0150	
2.3 16V [RWD]	Petrol	107	E5FA; E5FC	08/00-05/06	M			DOX-2004		DOX-0150	
TRANSIT CONNECT (02-)											
1.8 16V	Petrol	85	EYPA (ZH18)	06/02-06/06	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
TRANSIT TOURNEO (94-00)											
2.0	Petrol	84	NSH	11/94-12/99	M			DOX-2013		DOX-0150	
HONDA											
ACCORD VII (97-05)											
2.0	Petrol	108	F20B6	12/99-12/02				DOX-1452			
2.0 i	Petrol	108	F20B6	10/98-01/01				DOX-1452			
2.0 i 16V	Petrol	108	F20B5	09/99-06/02					DOX-1456	DOX-0113	DOX-0109
3.0 V6 24V	Petrol	147	J30A1	02/98-06/02	A			DOX-1459		DOX-0109	
ACCORD VIII (03-08)											
2.0	Petrol	114	K20A6	02/03-05/08				DOX-1424			
2.4	Petrol	140	K24A; K24A3	02/03-05/08				DOX-1424			
CIVIC IV (87-95)											
1.3 16 V	Petrol	55	D13B2	09/89-09/91	M	+ Catalyst		DOX-1004		DOX-0125	
1.5 i 16V	Petrol	66/69	D15B2	10/87-09/91		+ Catalyst		DOX-1004		DOX-0125	
1.5 i 16V	Petrol	69	D15B2	01/88-11/91		+ Catalyst	L/R	DOX-1004		DOX-0125	
1.6 4x4	Petrol	85	D16A7	01/88-08/91	M		L/R	DOX-1004		DOX-0125	
1.6 i 16V	Petrol	80/81/96	D16A6; D16A7; D16A9; D16Z2	09/87-09/91	M			DOX-1004		DOX-0125	
1.6 i 16V	Petrol	81	D16Z2	09/90-09/91				DOX-1004		DOX-0125	
1.6 i 16V 4WD	Petrol	80	D16A6	01/88-12/89	M		L/R	DOX-1004		DOX-0125	
1.6 i 16V 4WD	Petrol	81	D16A6	08/89-06/92			L/R	DOX-1004		DOX-0125	
1.6 i 16V 4x4	Petrol	80	D16A6	10/89-08/90	M			DOX-1004		DOX-0125	
CIVIC V (91-97)											
1.5 i LSi	Petrol	74	D15B7	01/94-11/95		+ Catalyst		DOX-1409		DOX-0109	
1.6 16V Vtec	Petrol	92	D16Z6	10/91-11/95		+ Catalyst	L/R	DOX-1459		DOX-0109	
1.6 4x4	Petrol	92	D16Z7	01/92-10/95		+ Catalyst		DOX-1459		DOX-0109	
1.6 i Vtec	Petrol	92	D16Z9	01/94-09/95		+ Catalyst		DOX-1459		DOX-0109	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
HONDA *continued*											
CIVIC VI (93-01)											
1.4 16V	Petrol	55/66	D14A7; D14A8	04/98-02/01						DOX-0109	
1.4 i	Petrol	55	D14A3	11/95-02/01	M					DOX-0125	
1.4 i	Petrol	55	D14A5	09/95-06/96	M			DOX-1409		DOX-0109	
1.4 i	Petrol	66	D14A2	01/95-06/96				DOX-1409		DOX-0109	
1.4 i	Petrol	66	D14A2	01/95-06/96				DOX-1411		DOX-0125	
1.4 i	Petrol	66	D14A4	11/95-02/01						DOX-0125	
1.4 i S	Petrol	66	D14A4	11/95-02/01						DOX-0125	
1.5 i	Petrol	84	D15Z6	11/95-02/01				DOX-1411		DOX-0125	
1.6 16V	Petrol	85	D16B2	01/97-02/01						DOX-0109	
1.6 16V	Petrol	85	D16B2	09/98-02/01	M			DOX-1409		DOX-0109	
1.6 i	Petrol	77	D16Y7	03/96-03/00				DOX-1409		DOX-0109	
1.6 i	Petrol	77	D16Y7	03/96-03/00				DOX-1459		DOX-0109	
1.6 i	Petrol	83	D16Y3	01/95-01/97				DOX-1411		DOX-0109	
1.6 i	Petrol	83	D16Y3	01/95-01/97						DOX-0125	
1.6 i	Petrol	83	D16Y3	07/95-06/96	M			DOX-1409		DOX-0109	
1.6 i	Petrol	84	D16Y5	11/95-02/01	A			DOX-1459		DOX-0109	
1.6 i Vtec	Petrol	92	D16Y8	11/95-02/01				DOX-1409		DOX-0109	
1.6 i Vtec	Petrol	93	D16Y2	01/95-06/96	M			DOX-1409		DOX-0109	
1.6 i Vtec	Petrol	93	D16Y2	01/95-06/96	M			DOX-1459		DOX-0109	
1.6 VTi	Petrol	118	B16A2	11/95-02/01	M			DOX-1409		DOX-0109	
CIVIC VII (00-05)											
1.3 IMA	Petrol	61	LDA1	01/04-09/05	M			DOX-0306			
1.3 IMA	Petrol	61	LDA1	01/04-09/05	M			DOX-1457			
1.4	Petrol	66	D14Z5	12/00-09/05	M			DOX-0306	DOX-1456	DOX-0113	DOX-0109
1.4	Petrol	66	D14Z5	12/00-09/05	M			DOX-1453		DOX-0113	
1.4	Petrol	66	D14Z5	12/00-09/05	M			DOX-1457			
1.4 iS	Petrol	66	D14Z5; D14Z6	02/01-09/05						DOX-0121	DOX-0109
1.6	Petrol	81	D16V1	02/01-09/05				DOX-1453	DOX-1456	DOX-0113	DOX-0109
1.6 i	Petrol	81	D16V1	02/01-09/05						DOX-0121	DOX-0109
1.7 i	Petrol	88	D17A8	05/01-12/05						DOX-0121	DOX-0109
1.7 i VTEC	Petrol	92	D17A9	05/01-12/05						DOX-0121	DOX-0109
2.0 i Sport	Petrol	118	K20A3	01/04-09/04	M	- ESP		DOX-1461			
CIVIC VIII (05-)											
1.3 Hybrid	Petrol/Electro	70	LDA2	01/06-06/09	A			DOX-1454			
1.4	Petrol	61	L13A7	01/06-				DOX-1454			
1.8	Petrol	103	R18A1; R18A2	01/07-				DOX-1454			
CONCERTO (89-96)											
1.5 i 16V	Petrol	66	D15B2	08/89-03/95		+ Catalyst		DOX-1004		DOX-0125	
1.6	Petrol	96	D16A9	10/89-10/92		+ Catalyst		DOX-1004		DOX-0125	
1.6 i 16V	Petrol	82/90	D16A8; D16Z2	08/89-09/94		+ Catalyst		DOX-1004		DOX-0125	
CR-V (95-02)											
2.0 16V	Petrol	108	B20Z1	01/99-02/02				DOX-1409		DOX-0109	
2.0 16V	Petrol	108	B20Z1	01/99-02/02	A					DOX-0109	
2.0 16V	Petrol	94	B20B	01/97-01/99	A					DOX-0109	
CR-V (02-06)											
2.0	Petrol	110	K20A4	07/02-09/06				DOX-1415		DOX-0121	DOX-0119
CR-V (06-12)											
2.0 i 4WD	Petrol	110	R20A2	01/07-04/10				DOX-1454			
CRX (87-92)											
1.6 i 16V	Petrol	79/91/96	D16A6; D16A9; D16Z5	10/87-02/92	M			DOX-1004		DOX-0125	
CRX (92-98)											
1.6 ESi	Petrol	92	D16Y8	07/95-12/98				DOX-1409		DOX-0109	
1.6 ESi	Petrol	92	D16Y8	07/95-12/98				DOX-1459		DOX-0109	
1.6 ESi	Petrol	92	D16Y8; D16Z6	07/94-12/98		+ Catalyst		DOX-1459		DOX-0109	
1.6 ESi	Petrol	92	D16Z6; D16Z7	03/92-12/98				DOX-1459		DOX-0109	
1.6 i VTi	Petrol	118	B16A2	09/95-12/98	M			DOX-1409		DOX-0109	
FR-V											
1.7	Petrol	92	D17A2	08/04-	M					DOX-0121	
1.8	Petrol	103	R18A1	01/07-04/10				DOX-1454			
HR-V											
1.6 16V	Petrol	77	D16W1	03/99-09/05				DOX-1409		DOX-0109	
1.6 16V	Petrol	77	D16W1	03/99-09/05				DOX-1455		DOX-0109	
1.6 16V 4WD	Petrol	77	D16W1	03/99-09/05				DOX-1409		DOX-0109	
1.6 16V 4WD	Petrol	77	D16W1	03/99-09/05				DOX-1455		DOX-0109	
1.6 16V 4WD	Petrol	91	D16W5	10/99-09/05	M			DOX-1409		DOX-0109	
1.6 16V 4WD	Petrol	91	D16W5	10/99-09/05	M			DOX-1455		DOX-0109	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
HONDA *continued*											
JAZZ II (02-08)											
1.2	Petrol	57	L12A1	03/02-07/08	M			DOX-2053	DOX-2031	DOX-0150	DOX-0150
1.4	Petrol	61	L13A1	03/02-07/08	M			DOX-2053	DOX-2031	DOX-0150	DOX-0150
JAZZ III (08-)											
1.2	Petrol	66	L12B1	07/08-	M			DOX-1460			
1.4 i	Petrol	73	L13Z1	07/08-				DOX-1460			
LEGEND I (86-90)											
2.7 i 24V	Petrol	124	C27A1	10/87-12/90		+ Catalyst	L	DOX-1004		DOX-0125	
LEGEND II (91-96)											
3.2 i 24V	Petrol	151	C32A2	01/91-02/96			L/R			DOX-0109	
3.2 i 24V	Petrol	151	C32A2	01/91-02/96			R	DOX-1459		DOX-0109	
LEGEND III (96-)											
3.5 i 24V	Petrol	151	C35A2	09/98-08/06	A		L/R			DOX-0109	
3.5 i 24V	Petrol	151	C35A2	09/98-08/06	A		R	DOX-1459		DOX-0109	
3.5 i 24V	Petrol	151	C35A2	09/99-08/06	A						DOX-0109
LOGO											
1.3	Petrol	48	D13B7	03/99-04/01				DOX-1459	DOX-1456	DOX-0109	DOX-0109
NSX (94-05)											
3.0 24V Vtec	Petrol	201	C30A3	03/95-06/97	M			DOX-1459		DOX-0109	
3.0 24V Vtec	Petrol	201	C30A3	03/95-06/97	M		L			DOX-0113	
3.0 24V Vtec	Petrol	201	C30A3	06/90-06/97	M			DOX-1459		DOX-0109	
3.0 24V Vtec	Petrol	201	C30A3	06/90-06/97	M		L			DOX-0113	
3.0 24V Vtec Automatic	Petrol	188	C30A4	03/95-06/97	A			DOX-1459		DOX-0109	
3.0 24V Vtec Automatic	Petrol	188	C30A4	03/95-06/01	A		L			DOX-0113	
3.0 24V Vtec Automatic	Petrol	188	C30A4	09/99-06/01	A		L/R			DOX-0109	DOX-0109
3.0 24V Vtec Automatik	Petrol	188	C30A4	06/90-06/97	A			DOX-1459		DOX-0109	
3.0 24V Vtec Automatik	Petrol	188	C30A4	06/90-09/05	A		L			DOX-0113	
3.0 24V Vtec Automatik	Petrol	188	C30A4	07/97-06/01	A	+ Catalyst	L	DOX-1459		DOX-0109	
3.0 24V Vtec Automatik	Petrol	188	C30A4	07/97-06/01	A	+ Catalyst	L/R			DOX-0109	
3.0 24V Vtec Automatik	Petrol	188	C30A4	09/99-09/05	A		L/R			DOX-0109	DOX-0109
3.2 24V Vtec	Petrol	206	C32B2	07/97-09/05	M		L/R			DOX-0109	DOX-0109
3.2 24V Vtec	Petrol	206	C32B2	07/97-09/05	M		L/R			DOX-0113	
PRELUDE III (86-92)											
2.0	Petrol	84	B20A4	08/87-09/91		+ Catalyst		DOX-1004		DOX-0125	
2.0 EX	Petrol	80	B20A3	09/87-09/91		+ Catalyst		DOX-1004		DOX-0125	
2.0 i EX 16V	Petrol	101	B20A5	09/87-09/89	A	+ Catalyst	R			DOX-0125	
PRELUDE V (96-00)											
2.0 16V	Petrol	98	F20A4	10/96-10/00						DOX-0109	
STREAM (01-05)											
1.7 16V	Petrol	92	D17A2	05/01-09/05	M					DOX-0121	
HYUNDAI											
ACCENT (94-00)											
1.3	Petrol	44	G4EH	10/94-02/97	M			DOX-1373		DOX-0116	
1.3	Petrol	55	G4EH	10/94-09/99				DOX-1373		DOX-0115	
1.3	Petrol	55	G4EH	10/94-09/99						DOX-0116	
1.3	Petrol	55	G4EH	10/94-09/99	M			DOX-1373		DOX-0115	
1.3	Petrol	55	G4EH	10/94-09/99	M					DOX-0116	
1.3 i 12V	Petrol	62	G4EH	10/94-01/00				DOX-1373		DOX-0115	
1.3 i 12V	Petrol	62	G4EH	10/94-01/00						DOX-0116	
1.5 i 12V	Petrol	65	G4EK	10/94-01/00				DOX-1373		DOX-0115	
1.5 i 12V	Petrol	65	G4EK	10/94-01/00						DOX-0116	
ATOS											
1.0 i	Petrol	40	G4HC	02/98-06/01						DOX-0125	
1.0 i	Petrol	40	G4HC	08/00-06/01	M			DOX-1354		DOX-0119	
ATOS PRIME											
1.0 i	Petrol	40	G4HC	12/99-07/01				DOX-1354		DOX-0119	
1.0 i	Petrol	40	G4HC	12/99-07/01						DOX-0125	
COUPE (96-02)											
1.6 i 16V	Petrol	84	4G61	12/96-05/00						DOX-0114	
2.0 16V	Petrol	102	G4GF	08/96-12/01				DOX-1365	DOX-1365	DOX-0114	DOX-0117
2.0 16V	Petrol	102	G4GF	08/96-12/01						DOX-0117	
LANTRA											
1.5 12V	Petrol	65	G4EK	12/96-09/00						DOX-0114	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
HYUNDAI *continued*											
LANTRA *continued*											
1.5 12V	Petrol	65	G4EK	12/96-09/00						DOX-0115	
1.5 12V	Petrol	65	G4EK	04/97-07/00	M					DOX-0114	
1.5 12V	Petrol	65	G4EK	04/97-07/00	M					DOX-0115	
1.6 16V	Petrol	84	4G61	02/96-09/00						DOX-0114	
1.8 16V	Petrol	94	G4GM	02/96-09/00						DOX-0114	
2.0 16V	Petrol	102	G4GF	06/97-09/00						DOX-0114	
JAGUAR											
S-TYPE											
2.5 V6	Petrol	147	AJV625	04/02-10/07		Ch: N41472>N52047	L/R	DOX-0428	DOX-0429		
2.5 V6	Petrol	147	AJV625	04/02-10/07		Ch: N52048>	L/R	DOX-0426	DOX-0427		
3.0 V6	Petrol	175	AJ-V6	01/99-12/03		Ch: N52048>	L/R	DOX-0426	DOX-0427		
3.0 V6	Petrol	175	AJ-V6	01/99-10/07		Ch: N41472>N52047	L/R	DOX-0428	DOX-0429		
4.0 V8	Petrol	203	AJ-V8	01/99-04/02	A	Ch: N41472>N52047	L/R	DOX-0428	DOX-0429		
4.0 V8	Petrol	203	AJ-V8	01/99-04/02	A	Ch: N52048>	L/R	DOX-0426	DOX-0427		
4.2 V8	Petrol	219	AJV842	04/02-10/07	A	Ch: N41472>N52047	L/R	DOX-0428	DOX-0429		
4.2 V8	Petrol	219	AJV842	04/02-10/07	A	Ch: N52048>	L/R	DOX-0426	DOX-0427		
R 4,2 V8	Petrol	291	AJV842	04/02-10/07	A	Ch: N41472>N52047	L/R	DOX-0428			
R 4,2 V8	Petrol	291	AJV842	04/02-10/07	A	Ch: N52048>	L/R	DOX-0426	DOX-0427		
X-TYPE											
2.0 V6	Petrol	115	AJV620	03/02-02/08			L/R	DOX-0430	DOX-1196		DOX-0113
2.5	Petrol	144	AJV625	02/04-12/09			L/R	DOX-0430	DOX-1196		DOX-0113
2.5 V6	Petrol	144	AJV625	06/01-11/09			L/R	DOX-0430	DOX-1196		DOX-0113
3.0	Petrol	169	AJ-V6	02/04-12/09			L/R	DOX-0430	DOX-1196		DOX-0113
3.0 V6	Petrol	169	AJ-V6	06/01-11/07			L/R	DOX-0430	DOX-1196		DOX-0113
KIA											
CARENS (00-02)											
1.8 i	Petrol	81	T8	11/00-07/02	M	Euro 3		DOX-1176	DOX-1177	DOX-0117	DOX-0117
PRIDE											
1.3	Petrol	47	B3EGI	08/99-07/00				DOX-1005		DOX-0125	
1.3 16V	Petrol	44	B3	10/94-07/00	M			DOX-1005		DOX-0125	
1.3 16V	Petrol	47	B3	10/96-07/00				DOX-1005		DOX-0125	
1.3 i	Petrol	51	B3EGI	10/94-07/00	M			DOX-1005		DOX-0125	
RETONA											
2.0 16V	Petrol	94	FE (16V)	05/00-05/00	M			DOX-1176		DOX-0117	
RIO (00-05)											
1.3	Petrol	55	MITECHSOH	09/00-02/05						DOX-0121	DOX-0121
1.3	Petrol	60	MITECHS82	01/03-02/05	M					DOX-0121	DOX-0121
1.5 16V	Petrol	72	MITECHDOH	08/00-02/05						DOX-0121	DOX-0121
SEPHIA											
1.6 i	Petrol	59	B6	09/93-10/97				DOX-1005		DOX-0125	
SHUMA (01-04)											
1.8	Petrol	84	T8	04/03-08/04		Euro 3		DOX-1176	DOX-1177	DOX-0117	DOX-0117
SPORTAGE (94-03)											
2.0 i 16V	Petrol	94	FE (16V)	10/00-09/02	A			DOX-1176	DOX-1176	DOX-0117	DOX-0117
2.0 i 16V 4WD	Petrol	94	FE (16V)	11/98-09/02				DOX-1176	DOX-1176	DOX-0117	DOX-0117
LADA											
KALINA											
1.4 16V	Petrol	66	VAZ-11194	11/08-						DOX-0150	
1.4 16V LPG	Petrol/Petroleum Gas (LPG)	65	VAZ-11194	11/08-						DOX-0150	
1.6	Petrol	60	VAZ-21114; VAZ-21124	10/04-						DOX-0150	
1.6 16V	Petrol	66		10/04-						DOX-0150	
NIVA											
1600	Petrol	54	BA3 2121	01/87-03/95						DOX-0150	
1700 i	Petrol	59	BA3 21214	06/96-						DOX-0150	
1700 i 1.7 4x4	Petrol	61		09/10-						DOX-0150	
PRIORA (2170/2171/2172) (08-)											
1.6	Petrol	72	VAZ-21126	12/08-						DOX-0150	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
LADA *continued*											
PRIORA (2170/2171/2172) (08-) *continued*											
1.6 LPG	Petrol/Petroleum Gas (LPG)	71		12/08-						DOX-0150	
SAMARA											
1.5	Petrol	57	VAZ-2111	04/96-						DOX-0150	
LANCIA											
DEDRA											
1.6 16V	Petrol	76	182 A4.000	12/97-07/99	M			DOX-1548		DOX-0119	
1.6 i.e.	Petrol	55	835 C1.000	04/93-06/94	M					DOX-0120	
1.6 i.e.	Petrol	57	835 A1.046	08/89-03/93	M			DOX-1351		DOX-0115	
1.8 16V LE	Petrol	83	182 A2.000	03/96-07/99	M					DOX-0119	
1.8 GT 16V	Petrol	96	183 A1.000	03/96-07/99	M					DOX-0119	
1.8 i.e.	Petrol	66/77	835 A2.046; 835 C5.000	09/89-06/94	M			DOX-1351		DOX-0115	
1.8 i.e.	Petrol	74	836 A5.000	07/94-07/99	M			DOX-1545		DOX-0120	
2.0 16V	Petrol	102	836 A3.000	11/95-07/99	M					DOX-0119	
2.0 i.e.	Petrol	83	835 A5.046	12/90-07/99				DOX-1351		DOX-0115	
2.0 Integrale	Petrol	102	836 A3.000	11/95-06/96	M					DOX-0119	
DELTA (93-99)											
1.4 i.e.	Petrol	51	160A1046	10/94-08/99	M			DOX-1351		DOX-0115	
1.4 i.e.	Petrol	51	836A4000	07/95-08/99	M			DOX-1545		DOX-0120	
1.6 i.e.	Petrol	55	835 C1.000	06/93-08/99	M			DOX-1545		DOX-0120	
1.6 i.e.	Petrol	66	182 A6.000	03/96-08/99	M	Ch: >3297145		DOX-1355		DOX-0119	
1.6 i.e.	Petrol	66	182 A6.000	03/96-08/99	M	Ch: 3297145>		DOX-1548		DOX-0119	
1.6 i.e. 16V	Petrol	76	182 A4.000	01/96-08/99	M	Ch: >3297145		DOX-1355		DOX-0119	
1.6 i.e. 16V	Petrol	76	182 A4.000	01/96-08/99	M	Ch: 3297145>		DOX-1548		DOX-0119	
1.8 i.e.	Petrol	66/76	835 C2.000; 835C4000; 836A6000	06/93-08/99	M			DOX-1545		DOX-0120	
1.8 i.e. 16V	Petrol	83	182 A2.000	03/96-08/99	M					DOX-0119	
1.8 i.e. 16V GT	Petrol	96	183 A1.000	03/96-08/99	M			DOX-1549		DOX-0119	
2.0 16V	Petrol	102	836 A3.000	06/93-08/99	M			DOX-1351		DOX-0115	
DELTA (08-)											
1.4	Petrol	88/110	198 A1.000; 198 A4.000	09/08-04/11	M			DOX-2006	DOX-2020	DOX-0150	DOX-0150
KAPPA											
2.0 16V Turbo	Petrol	151	838 A4.000	07/95-10/01	M			DOX-1545		DOX-0120	
2.0 20V	Petrol	107	838 A1.000	10/94-10/01				DOX-1545		DOX-0120	
2.0 20V	Petrol	114	838 A6.000	07/96-10/01		Ch: >2095794		DOX-1545		DOX-0120	
2.0 20V	Petrol	114	838 A6.000	07/96-10/01		Ch: 2095794>		DOX-2020		DOX-0150	
2.0 20V	Petrol	114	838 A6.000	07/96-10/01	M	Ch: >2095794		DOX-1545		DOX-0120	
2.0 20V	Petrol	114	838 A6.000	07/96-10/01	M	Ch: 2095794>		DOX-2020		DOX-0150	
2.0 20V Turbo	Petrol	162	175 A3.000	06/98-10/00	M			DOX-1545		DOX-0120	
2.0 20V Turbo	Petrol	162	175 A3.000	06/98-10/01	M	Ch: >2084573		DOX-1545		DOX-0120	
2.0 20V Turbo	Petrol	162	175 A3.000	06/98-10/01	M	Ch: 2084573>		DOX-1545		DOX-0120	
2.4 20V	Petrol	129	838 A2.000	07/96-10/01				DOX-1545		DOX-0120	
2.4 20V	Petrol	129	838 A2.000	03/97-10/00	M			DOX-1545		DOX-0120	
2.4 20V	Petrol	129	838 A2.000	03/97-10/00	M			DOX-2020		DOX-0150	
2.4 20V	Petrol	129	838A2000	08/94-10/01	M			DOX-1545		DOX-0120	
3.0 24V	Petrol	150	838 B.000	08/94-10/01		Ch: >2088054		DOX-1545		DOX-0120	
3.0 24V	Petrol	150	838 B.000	08/94-10/01		Ch: 2088054>		DOX-2025		DOX-0150	
3.0 24V	Petrol	150	838 B.000	11/96-10/00	A	Ch: 7002899>		DOX-2025		DOX-0150	
3.0 24V	Petrol	150	838 B.000	03/97-03/01		Ch: >7002899		DOX-1545		DOX-0120	
LYBRA											
1.6 16V	Petrol	76	182 A4.000	07/99-10/05	M			DOX-1548		DOX-0119	
1.8 16V	Petrol	96	839A4000	07/99-10/05	M			DOX-1549		DOX-0119	
1.8 16V	Petrol	96	839A7000; 839A9000	07/99-10/05	M		R	DOX-1541		DOX-0121	
2.0 20V	Petrol	110	185 A8.000	09/00-10/05	M		L/R	DOX-2006		DOX-0150	
2.0 20V	Petrol	113	182 B7.000	07/99-09/00				DOX-2020		DOX-0150	
MUSA											
1.4	Petrol	57/70	350 A1.000; 843 A 1.000	10/04-04/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
PHEDRA											
2.0	Petrol	100	RFN (EW10J4)	09/02-06/10				DOX-2001	DOX-2001	DOX-0150	DOX-0150
3.0 V6	Petrol	150	ES9 J4S	09/02-09/05	A		L	DOX-2005	DOX-2005	DOX-0150	DOX-0150
3.0 V6	Petrol	150	ES9 J4S	09/02-09/05	A		R	DOX-2001	DOX-2001	DOX-0150	DOX-0150
THEMA (86-94)											
2000 16V	Petrol	112	834 F1.000	08/92-12/93						DOX-0120	
2000 16V	Petrol	112	834 F1.000	09/92-07/94	M					DOX-0120	
2000 16V Turbo	Petrol	148	834 F2.000	10/92-07/94	M					DOX-0120	
2000 i.e. 16V	Petrol	104	834 B2.246	02/89-05/92				DOX-1351		DOX-0115	
2000 i.e. 16V	Petrol	104	834 B2.246	02/89-05/92	M			DOX-1351		DOX-0115	

Lambda Sensors

Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
LANCIA *continued*											
THEMA (86-94) *continued*											
2000 i.e. 16V Turbo	Petrol	130	834 C1.246	04/89-08/92	M			DOX-1351		DOX-0115	
2000 Turbo 16V	Petrol	148	834 F2.000	11/92-07/94	M					DOX-0120	
3000 V6	Petrol	126	834 F.000	08/92-07/94						DOX-0120	
3000 V6	Petrol	126	834 F.000	09/92-07/94	M					DOX-0120	
THESIS											
2.0 Turbo	Petrol	136	841 E.000	07/02-06/05	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
2.4	Petrol	125	841 D.000	07/02-06/05				DOX-2006	DOX-2006	DOX-0150	DOX-0150
3.0 V6	Petrol	158	841 A.000	07/02-03/05	A	For cyl.: 4-6		DOX-2006		DOX-0150	
Y											
1.1	Petrol	40	176 B2.000	04/97-08/00	M			DOX-1545		DOX-0120	
1.2	Petrol	44	188A4000	09/00-09/03	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2	Petrol	44	840A3000	03/96-09/03				DOX-1545		DOX-0120	
1.2 16V	Petrol	59	188 A5.000	10/00-09/03	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.2 16V	Petrol	63	176 B9.000	04/97-08/00	M			DOX-1544		DOX-0120	
1.4 12V	Petrol	55/59	840 A2.000; 840 A4.000	03/96-08/00	M			DOX-1545		DOX-0120	
Y10											
1.1 Avenue	Petrol	40	176 B2.000	01/95-12/95				DOX-1545		DOX-0120	
1.1 Avenue All-wheel Drive	Petrol	40	176 B2.000	01/95-12/95	M			DOX-1545		DOX-0120	
1.1 i.e. Fire	Petrol	37	156 C.046	07/89-12/94				DOX-1351		DOX-0115	
1.1 i.e. Fire	Petrol	37	156 C.046	07/89-12/94						DOX-0120	
1.1 i.e. Fire All-wheel Drive	Petrol	37	156 C.046	09/92-12/94	M			DOX-1351		DOX-0115	
1.1 i.e. Fire All-wheel Drive	Petrol	37	156 C.046	09/92-12/94	M					DOX-0120	
1.3 i.e. Fire	Petrol	53	146A5046	09/92-12/95	M			DOX-1351		DOX-0115	
YPSILON (843) (03-11)											
1.2	Petrol	44/59	188 A4.000; 188 A5.000	10/03-04/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4	Petrol	57	350 A1.000	02/06-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 16V	Petrol	70	843 A 1.000	10/03-12/11				DOX-2006	DOX-2006	DOX-0150	DOX-0150
1.4 LPG	Petrol/Petroleum Gas (LPG)	57	350 A1.000	11/10-12/11	M			DOX-2006	DOX-2006	DOX-0150	DOX-0150
ZETA											
2.0 16V	Petrol	100	RFN	01/01-09/02				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 16V	Petrol	97	RFV (XU10J4R)	05/98-07/00	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	05/95-05/00	M			DOX-1536		DOX-0120	
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	05/95-05/00	M			DOX-2009		DOX-0150	
LAND ROVER											
DISCOVERY I (89-98)											
2.0 16 V 4x4	Petrol	99	20T4HG	09/93-06/97	M					DOX-0120	
DISCOVERY III (04-)											
4.4 4x4	Petrol	220	448PN	11/04-06/09	A		L		DOX-0414		DOX-0109
4.4 4x4	Petrol	220	448PN	11/04-06/09	A		L/R	DOX-0416		DOX-0109	DOX-0109
4.4 4x4	Petrol	220	448PN	11/04-06/09	A	Ch: 5A303209>	R		DOX-0415		
FREELANDER (98-06)											
1.8 16V 4x4	Petrol	86	18 K4F	11/00-10/06	M	Ch: >WA600477				DOX-0120	
1.8 16V 4x4	Petrol	86	18 K4F	11/00-10/06	M	Ch: 1A323729>2A399806		DOX-2017		DOX-0150	
1.8 16V 4x4	Petrol	86	18 K4F	11/00-10/06	M	Ch: WA600478>1A323728				DOX-0120	
1.8 i 16V 4x4	Petrol	88	18 K4F	02/98-10/06	M	Ch: >WA600477				DOX-0120	
1.8 i 16V 4x4	Petrol	88	18 K4F	02/98-10/06	M	Ch: 1A323729>2A399806		DOX-2017		DOX-0150	
1.8 i 16V 4x4	Petrol	88	18 K4F	02/98-10/06	M	Ch: WA600478>1A323728				DOX-0120	
RANGE ROVER III (02-12)											
4.2 4x4	Petrol	291	428PS	05/05-06/09	A		L/R		DOX-0413		DOX-0109
4.4 4x4	Petrol	210/225	448PN; M62B44	03/02-06/09	A		L/R	DOX-1174	DOX-1175	DOX-0117	DOX-0117
RANGE ROVER SPORT (05-)											
4.2 4x4	Petrol	287	428PS	06/05-08/09	A		R		DOX-0415		
4.4 4x4	Petrol	220	448PN	06/05-08/09	A		L/R	DOX-0416	DOX-0415	DOX-0109	
LEXUS											
GS (93-97)											
300	Petrol	156	2JZ-GE	08/95-08/97	A				DOX-0204		DOX-0109
GS (97-05)											
300	Petrol	161	2JZ-GE	10/00-03/05	A	For cyl.: 1-3 & 4-6				DOX-0109	DOX-0109

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		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
LEXUS *continued*											
GS (97-05) *continued*											
300 T3	Petrol	163	2JZ-GE	08/97-10/00	A	For cyl.: 1-3 & 4-6				DOX-0109	DOX-0109
430	Petrol	208	3UZ-FE	11/00-03/05	A		L/R			DOX-0109	DOX-0109
GS (05-11)											
300	Petrol	183	3GR-FSE	04/05-11/11	A		L/R				DOX-0106
300	Petrol	183	3GR-FSE	04/05-11/11	A		L/R				DOX-0109
430	Petrol	208	3UZ-FE	04/05-09/08	A		L/R			DOX-0109	DOX-0109
450h	Petrol/Electro	218	2GR-FSE	02/06-11/11	A		L/R				DOX-0109
460	Petrol	255	1UR-FSE	05/08-11/11	A		R				DOX-0109
GX (09-)											
470	Petrol	218	1UR-FE	11/09-	A		L/R				DOX-0109
IS C (09-)											
250	Petrol	153	4GR-FSE	04/09-			L/R				DOX-0109
IS I (99-05)											
200	Petrol	114	1G-FE	04/99-07/05		For cyl.: 1-3		DOX-0205		DOX-0109	
200	Petrol	114	1G-FE	04/99-07/05		For cyl.: 1-3 & 4-6		DOX-0231		DOX-0109	
200	Petrol	114	1G-FE	04/99-07/05		For cyl.: 1-3 & 4-6				DOX-0109	DOX-0109
200	Petrol	114	1G-FE	10/02-07/05	M	For cyl.: 1-3		DOX-0205		DOX-0109	
200	Petrol	114	1G-FE	10/02-07/05	M	For cyl.: 1-3 & 4-6		DOX-0231		DOX-0109	
200	Petrol	114	1G-FE	10/02-07/05	M	For cyl.: 1-3				DOX-0109	DOX-0109
200	Petrol	114	1G-FE	10/02-07/05	M	For cyl.: 1-3 & 4-6				DOX-0109	DOX-0109
300	Petrol	157	2JZ-GE	09/01-07/05	A			DOX-0205		DOX-0109	DOX-0109
300	Petrol	157	2JZ-GE	09/01-07/05	A			DOX-0236		DOX-0109	
IS II (05-)											
250	Petrol	153	4GR-FSE	10/05-			L/R				DOX-0109
IS F	Petrol	311	2UR-GSE	11/07-	A		L/R				DOX-0109
LS (94-00)											
400	Petrol	194/209	1UZ-FE	12/94-10/00	A		L/R	DOX-0269		DOX-0109	DOX-0109
LS (00-06)											
430	Petrol	207	3UZ-FE	10/00-08/06	A		L/R			DOX-0109	DOX-0109
LS (06-)											
460	Petrol	280	1UR-FSE	08/06-	A		L/R			DOX-0106	DOX-0109
460	Petrol	280	1UR-FSE	08/06-	A		L/R			DOX-0109	
460 AWD	Petrol	270	1UR-FSE	12/08-09/09	A		L/R			DOX-0109	DOX-0109
600h	Petrol	290	2UR-FSE	08/07-	A		L/R				DOX-0109
LX (98-08)											
470	Petrol	170	2UZ-FE	08/02-08/07	A		L/R	DOX-0269	DOX-0226	DOX-0109	DOX-0110
RX (03-08)											
300	Petrol	150	1MZ-FE	05/03-01/06	A		L/R				DOX-0109
350 AWD	Petrol	203	2GR-FE	02/06-12/08	A		L/R				DOX-0109
400h AWD	Petrol	155	3MZ-FE	03/05-12/08	A		L/R				DOX-0109
RX (08-)											
350 AWD	Petrol	204	2GR-FE	12/08-	A		L/R				DOX-0109
450h AWD	Petrol/Electro	183	2GR-FXE	12/08-	A		L/R				DOX-0109
SC (01-10)											
430	Petrol	210	3UZ-FE	05/01-07/10	A		L/R			DOX-0109	DOX-0109
MAZDA											
2 (03-07)											
1.25	Petrol	55	FUJA	04/03-01/08	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.4	Petrol	59	FXJA	04/03-01/08	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
1.6	Petrol	74	FYJA	04/03-01/08	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
2 (07-)											
1.3	Petrol	63	ZJ-VE	10/07-01/08	M			DOX-1371	DOX-1371	DOX-0119	DOX-0119
3 (00-09)											
1.4	Petrol	62	ZJ-VE	10/03-12/08	M			DOX-0331	DOX-0332	DOX-0113	DOX-0109
1.6	Petrol	77	B6ZE; Z6	10/03-12/08				DOX-0331	DOX-0332	DOX-0113	DOX-0109
2.0	Petrol	104	LF17	04/04-02/06						DOX-0121	
3 (09-)											
1.6 MZR	Petrol	77	Z6	06/09-					DOX-0332		DOX-0109
5 (05-10)											
1.8	Petrol	85	L823	03/05-	M						DOX-0121
2.0	Petrol	107	LFF7	03/05-12/07	M						DOX-0121
2.0 CD	Diesel	81/105	MZRCD20; RF7J	03/05-12/07	M				DOX-0360		

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MAZDA *continued*											
6 (02-07)											
1.8	Petrol	88	L813	08/02-03/05						DOX-0121	DOX-0119
2.0	Petrol	104	LF17; LF18	06/02-03/05						DOX-0121	DOX-0119
2.3	Petrol	122	L3C1	06/02-03/05						DOX-0121	DOX-0119
2.3 AWD	Petrol	119	L3C1	11/02-03/05						DOX-0121	DOX-0119
323 C IV (89-94)											
1.3	Petrol	49	B3E	09/89-07/94	M			DOX-0300		DOX-0125	
1.3 16V	Petrol	54	B3 (16V)	09/89-07/94	M			DOX-0300		DOX-0125	
1.6	Petrol	62	B6E	09/89-06/91				DOX-0300		DOX-0125	
1.6 16V	Petrol	65	B6	03/91-05/94				DOX-0300		DOX-0125	
1.8 16V 4WD	Petrol	76	BP	11/91-12/93	M			DOX-0300		DOX-0125	
1.8 16V GT	Petrol	94	BP (DOHC)	09/89-03/93	M			DOX-0300		DOX-0125	
1.8 16V Turbo 4WD	Petrol	136	BP Turbo	01/93-07/94	M			DOX-0300		DOX-0125	
323 C V (94-98)											
1.5 16V	Petrol	65	Z5-DE	08/94-09/96				DOX-1031		DOX-0116	
1.5 16V	Petrol	65	Z5-DE	08/94-09/96				DOX-1356		DOX-0119	
1.8 16V	Petrol	84	BP-ZE	08/94-09/96				DOX-1435		DOX-0109	
323 F IV (89-94)											
1.6	Petrol	62	B6E	09/89-06/91				DOX-0300		DOX-0125	
1.6 16V	Petrol	65	B6	03/91-05/94				DOX-0300		DOX-0125	
1.8 16V GT	Petrol	94	BP (DOHC)	08/89-07/94	M			DOX-0300		DOX-0125	
1.8 4WD	Petrol	76	BPC	01/91-04/94	M			DOX-0300		DOX-0125	
323 F V (94-98)											
1.5 16V	Petrol	65	Z5-DE	07/94-09/96	M			DOX-1031		DOX-0116	
1.5 16V	Petrol	65	Z5-DE	07/94-09/96	M			DOX-1356		DOX-0119	
1.5 16V	Petrol	65	Z5-DE	10/96-09/98				DOX-1356		DOX-0119	
1.8 16V	Petrol	84	BP-ZE	08/94-09/98				DOX-1435		DOX-0109	
323 F VI (98-04)											
1.5 16V	Petrol	65	ZL	09/98-09/00				DOX-1356		DOX-0119	
1.6	Petrol	70/72	ZM	01/01-10/03				DOX-1374		DOX-0121	DOX-0119
1.9 16V	Petrol	84	FP55	09/98-09/00	M			DOX-1375		DOX-0119	
2.0	Petrol	96	FS7	01/01-10/03				DOX-1358	DOX-1357	DOX-0121	DOX-0119
323 P V (96-)											
1.5 16V	Petrol	65	Z5-DE	10/96-06/98				DOX-1356		DOX-0119	
323 S IV (89-94)											
1.3	Petrol	49	B386	09/89-06/91	M			DOX-0300		DOX-0125	
1.3 16V	Petrol	54	B3 (16V)	04/91-07/94	M			DOX-0300		DOX-0125	
1.6	Petrol	62	B6E	09/89-06/91				DOX-0300		DOX-0125	
1.6 16V	Petrol	65	B6	08/89-05/94				DOX-0300		DOX-0125	
323 S V (94-98)											
1.5 16V	Petrol	65	Z5-DE	08/94-09/98				DOX-1031		DOX-0116	
1.5 16V	Petrol	65	Z5-DE	08/94-09/98				DOX-1356		DOX-0119	
1.8 16V	Petrol	84	BP-ZE	08/94-09/98				DOX-1435		DOX-0109	
323 S VI (98-04)											
1.5 16V	Petrol	65	ZL	09/98-09/00				DOX-1356		DOX-0119	
1.6	Petrol	72	ZM	01/01-10/03				DOX-1374		DOX-0121	DOX-0119
2.0	Petrol	96	FS7	01/01-10/03				DOX-1358	DOX-1357	DOX-0121	DOX-0119
626 II (82-87)											
2.0	Petrol	88	FE (8V)	01/86-09/87	M					DOX-0125	
2.0 i Turbo	Petrol	87	FET	01/86-06/87	M					DOX-0125	
626 IV (91-97)											
1.8	Petrol	66	FP16	08/94-04/97	M			DOX-1370		DOX-0119	
1.8	Petrol	77	FP	08/91-04/97				DOX-1370		DOX-0119	
1.8 i	Petrol	66	FP16	08/94-04/97	M			DOX-1370		DOX-0119	
1.8 i	Petrol	77	FP	01/92-04/97				DOX-1370		DOX-0119	
2.0 i	Petrol	85	FS	08/91-04/97				DOX-1370		DOX-0119	
2.0 i 4WD	Petrol	85	FS	04/92-04/97	M			DOX-1370		DOX-0119	
626 V (97-02)											
1.8	Petrol	66/74	FP9A; FPY3	02/98-05/02	M			DOX-1375		DOX-0119	DOX-0119
2.0	Petrol	85/100	FS2C	05/97-05/02				DOX-1375		DOX-0119	DOX-0119
2.0 H.P.	Petrol	100	FS2C	02/98-05/02				DOX-1375		DOX-0119	DOX-0119
DEMIO											
1.3 16V	Petrol	46	B3 ME	08/98-03/03	M			DOX-1374		DOX-0116	DOX-0119
1.3 16V	Petrol	46	B3 ME	08/98-03/03	M					DOX-0121	
1.3 i 16V	Petrol	53	B3 (16V)	08/98-04/00	M					DOX-0116	
1.5 16V	Petrol	55	B5 E	04/00-03/03				DOX-1374		DOX-0121	DOX-0119
MPV (95-99)											
3.0 i V6	Petrol	109/113	JE94	05/96-09/99						DOX-0109	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
MAZDA *continued*											
MPV (99-06)											
2.0	Petrol	88	FS	08/00-07/02	M			DOX-0318	DOX-0316	DOX-0109	DOX-0113
2.0	Petrol	90	FS-DS	09/99-08/00	M			DOX-0318	DOX-0316	DOX-0109	DOX-0113
2.0	Petrol	90	FS-DS	09/99-08/00	M			DOX-0319		DOX-0109	
2.3	Petrol	104	L3	07/02-02/06				DOX-0325		DOX-0113	
2.3	Petrol	104	L3	07/02-02/06	M				DOX-0318		DOX-0109
2.5 V6	Petrol	125	GY-DE	09/99-03/02	M		L	DOX-0319		DOX-0109	
2.5 V6	Petrol	125	GY-DE	09/99-03/02	M		R	DOX-0320		DOX-0109	
3.0 i V6	Petrol	147	AJ	03/02-02/06	A		L/R	DOX-0333	DOX-0324	DOX-0113	DOX-0109
MX-3											
1.6 i	Petrol	65	B69	07/91-01/94				DOX-0300		DOX-0125	
1.6 i	Petrol	79	B6D	01/94-02/98	M			DOX-1031		DOX-0116	
1.6 i	Petrol	79	B6D	01/94-02/98	M			DOX-1356		DOX-0119	
1.8 i V6	Petrol	95/98	K819; K838	01/92-02/98	M		L/R	DOX-1435		DOX-0109	DOX-0109
MX-5 (90-98)											
1.6	Petrol	66	B69J	01/95-04/98	M			DOX-1435		DOX-0109	
1.6	Petrol	85	B64F	05/90-08/93	M					DOX-0125	
1.8	Petrol	96	BPF1	02/94-04/98	M			DOX-1435		DOX-0109	
MX-5 (98-05)											
1.6 16V	Petrol	81	B6D	05/98-03/05				DOX-0317		DOX-0109	DOX-0109
1.6 16V	Petrol	81	B6D	05/98-03/05				DOX-0323		DOX-0113	
1.8 16V	Petrol	102	BPD	11/00-03/05	A			DOX-0322	DOX-0321	DOX-0113	DOX-0109
1.8 16V	Petrol	103	BP-ZE	05/98-08/00				DOX-0317		DOX-0109	
1.8 16V	Petrol	107	BPD	11/00-03/05	M			DOX-0322		DOX-0113	DOX-0109
1.8 16V	Petrol	107	BPD	11/00-03/05	M			DOX-0323		DOX-0113	
MX-5 (05-)											
1.8	Petrol	93	MZR18	03/05-	M				DOX-0334		DOX-0109
2.0	Petrol	118	MZR20	03/05-					DOX-0334		DOX-0109
MX-6 (87-97)											
2.0	Petrol	85	FS	02/92-02/97				DOX-1370		DOX-0119	
PREMACY											
1.9	Petrol	74/84	FP	07/99-03/05	M			DOX-1358	DOX-1357	DOX-0119	DOX-0119
1.9	Petrol	74/84	FP	07/99-03/05	M			DOX-1375		DOX-0121	
1.9	Petrol	84	FP	08/00-06/01				DOX-1358	DOX-1357	DOX-0121	DOX-0119
2.0	Petrol	96	FS7E	11/01-03/05	M			DOX-1358	DOX-1357	DOX-0121	DOX-0119
2.0	Petrol	96	FS7G	11/01-03/05	A			DOX-1358	DOX-1357	DOX-0121	DOX-0119
RX 8 (03-12)											
	Petrol	141/170	N3H1; N3H113B; N3H3; N3H313B; N3H8; N3H813B; N3J1; N3J113B	05/03-03/08		Euro 3		DOX-1449	DOX-0330		DOX-0109
2.6 Wankel	Petrol	141/170/177	13B-MSP	10/03-03/08		Euro 3		DOX-1449	DOX-0330		DOX-0109
MERCEDES-BENZ											
190 (W201)											
2.0	Petrol	75/77	M 102.924	09/84-06/89				DOX-1377		DOX-0116	
E 2.0	Petrol	87/90	M 102.961; M 102.962	10/82-09/88				DOX-1377		DOX-0116	
E 2.3	Petrol	97/100	M 102.985	09/86-08/91				DOX-1377		DOX-0116	
E 2.3-16	Petrol	136	M 102.983	08/84-01/87				DOX-1377		DOX-0116	
E 2.5-16	Petrol	143	M 102.991	03/89-08/93	A			DOX-1377		DOX-0116	
E 2.6	Petrol	118/122	M 103.942	09/86-08/93				DOX-1377		DOX-0116	
E Evolution II 2.5	Petrol	173	M 102.992	05/90-08/93				DOX-1377		DOX-0116	
A-CLASS (W168) (97-04)											
A 140	Petrol	60	M 166.940	07/97-08/04				DOX-2007	DOX-2007	DOX-0150	DOX-0150
A 160	Petrol	75	M 166.960	07/97-08/04				DOX-2007	DOX-2007	DOX-0150	DOX-0150
A 190	Petrol	92	M 166.990	03/99-08/04				DOX-2007	DOX-2007	DOX-0150	DOX-0150
A 210	Petrol	103	M 166.995	03/02-08/04				DOX-2007	DOX-2007	DOX-0150	DOX-0150
A-CLASS (W169) (04-12)											
A 150	Petrol	70	M 266.920	04/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150
A 160	Petrol	70	M 266.920	04/09-06/12			L/R	DOX-2044	DOX-2044	DOX-0150	DOX-0150
A 170	Petrol	85	M 266.940	04/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150
A 180	Petrol	85	M 266.940	04/09-06/12			L/R	DOX-2044	DOX-2044	DOX-0150	DOX-0150
A 200	Petrol	100	M 266.960	04/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150
A 200	Petrol	100	M 266.960	04/08-06/12			L/R	DOX-2044	DOX-2044	DOX-0150	DOX-0150
A 200 TURBO	Petrol	142	M 266.980	04/08-06/12			L/R	DOX-2044	DOX-2044	DOX-0150	DOX-0150
B-CLASS (W245) (05-11)											
B 150	Petrol	70	M 266.920	03/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150
B 170	Petrol	85	M 266.940	03/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150
B 200	Petrol	100	M 266.960	03/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150
B 200 TURBO	Petrol	142	M 266.980	03/05-03/08				DOX-2044	DOX-2044	DOX-0150	DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MERCEDES-BENZ *continued*											
C CLASS (S204) (07-)											
C 63 AMG	Petrol	336	M 156.985	02/08-02/11	A		L/R		DOX-2044		DOX-0150
C 180 Kompressor	Petrol	115	M 271.910	01/08-02/11	M				DOX-2011		DOX-0150
C 180 Kompressor	Petrol	115	M 271.952	08/07-02/11					DOX-2011		DOX-0150
C 200 Kompressor	Petrol	135	M 271.950	08/07-02/11					DOX-2011		DOX-0150
C 230	Petrol	150	M 272.921	08/07-02/11			L/R		DOX-2044		DOX-0150
C 280	Petrol	170	M 272.947	08/07-02/11			L/R		DOX-2044		DOX-0150
C 350	Petrol	200	M 272.961	08/07-02/11	A		L/R		DOX-2044		DOX-0150
C CLASS (W204) (07-)											
C 63 AMG	Petrol	336	M 156.985	02/08-02/11	A		L/R		DOX-2044		DOX-0150
C 180 Kompressor	Petrol	115	M 271.910; M 271.952	05/07-02/11					DOX-2011		DOX-0150
C 200 Kompressor	Petrol	135	M 271.950	01/07-02/11					DOX-2011		DOX-0150
C 230	Petrol	150	M 272.921	01/07-02/11			L/R		DOX-2044		DOX-0150
C 230 4-matic	Petrol	150	M 272.911	07/07-02/11			L/R		DOX-2024		DOX-0150
C 280	Petrol	170	M 272.947	01/07-06/09			L/R		DOX-2044		DOX-0150
C 280 4-matic	Petrol	170	M 272.948	07/07-06/09	A		L/R		DOX-2024		DOX-0150
C 350	Petrol	200	M 272.961	01/07-02/11	A		L/R		DOX-2044		DOX-0150
C 350 4-matic	Petrol	200	M 272.971	07/07-02/11	A		L/R		DOX-2024		DOX-0150
C 350 CGI	Petrol	215	M 272.982	09/08-02/11	A		R		DOX-2044		DOX-0150
C-CLASS (CL203) (01-08)											
C 160 Kompressor	Petrol	90	M 271.921	01/04-02/08					DOX-2011		DOX-0150
C 180	Petrol	95	M 111.951	03/01-05/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	03/01-05/02				DOX-2033	DOX-2011	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	03/01-05/02		Euro 4		DOX-2033	DOX-2007	DOX-0150	DOX-0150
C 180 Kompressor	Petrol	105	M 271.946	05/02-02/08					DOX-2011		DOX-0150
C 200 CGI Kompressor	Petrol	125	M 271.942	01/04-02/08					DOX-2011		DOX-0150
C 200 Kompressor	Petrol	120	M 111.955	03/01-05/02				DOX-2007	DOX-2011	DOX-0150	DOX-0150
C 200 Kompressor	Petrol	120	M 271.940	05/02-02/08					DOX-2011		DOX-0150
C 230	Petrol	150	M 272.920	01/05-02/08			L/R		DOX-2044		DOX-0150
C 230 Kompressor	Petrol	141	M 271.948	05/02-02/08					DOX-2011		DOX-0150
C 230 Kompressor	Petrol	145	M 111.981	03/01-05/02				DOX-2007	DOX-2011	DOX-0150	DOX-0150
C 320	Petrol	160	M 112.946	09/02-02/08			L	DOX-2011		DOX-0150	
C 320	Petrol	160	M 112.946	09/02-02/08			L/R		DOX-2026	DOX-0150	DOX-0150
C 320	Petrol	160	M 112.946	09/02-02/08			R	DOX-2007		DOX-0150	
C 350	Petrol	200	M 272.960	01/05-02/08	A		L/R		DOX-2044		DOX-0150
C-CLASS (S202) (96-01)											
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: >F980773	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: F980774>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: F980774>	L	DOX-2037		DOX-0150	
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: >F980773	L/R			DOX-0117	DOX-0117
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: F980774>	L/R			DOX-0150	DOX-0150
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: >F980773	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: F980774>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
C 43 AMG	Petrol	225	M 113.944	08/97-03/01	A	Ch: F980774>	R	DOX-2049		DOX-0150	
C 180 T	Petrol	90	111921	06/96-09/00		Eng No: >4126		DOX-1314		DOX-0114	
C 180 T	Petrol	90	111921	06/96-09/00		Eng No: >7268		DOX-1314		DOX-0114	
C 180 T	Petrol	90	111921	06/96-09/00		Eng No: 4127>		DOX-1314		DOX-0114	
C 180 T	Petrol	90	111921	06/96-09/00		Eng No: 7269>		DOX-1314		DOX-0114	
C 180 T	Petrol	95	M 111.952	09/00-03/01					DOX-2007		DOX-0150
C 200 T	Petrol	100	111945	06/96-03/01		Eng No: >1912		DOX-1314		DOX-0114	
C 200 T	Petrol	100	111945	06/96-03/01		Eng No: >3752		DOX-1314		DOX-0114	
C 200 T	Petrol	100	111945	06/96-03/01		Eng No: 1913>		DOX-1314		DOX-0114	
C 200 T	Petrol	100	111945	06/96-03/01		Eng No: 3753>		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	120	M 111.956	09/00-03/01				DOX-2007	DOX-2007	DOX-0150	DOX-0150
C 200 T Kompressor	Petrol	120	M 111.956	09/00-03/01				DOX-2011		DOX-0150	
C 200 T Kompressor	Petrol	141	M 111.944	11/96-03/01		Eng No: >1912		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	11/96-03/01		Eng No: >3752		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	11/96-03/01		Eng No: 1913>		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	11/96-03/01		Eng No: 3753>		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	11/96-03/01		Eng No: 3873>		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	11/96-03/01		Eng No: 55>		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	06/97-03/01		Eng No: >3872		DOX-1314		DOX-0114	
C 200 T Kompressor	Petrol	141	M 111.944	06/97-03/01		Eng No: >54		DOX-1314		DOX-0114	
C 230 T	Petrol	110	M 111.974	06/96-06/98		Eng No: >1871		DOX-1314		DOX-0114	
C 230 T	Petrol	110	M 111.974	06/96-06/98		Eng No: >4991		DOX-1314		DOX-0114	
C 230 T	Petrol	110	M 111.974	06/96-06/98		Eng No: 1872>		DOX-1314		DOX-0114	
C 230 T	Petrol	110	M 111.974	06/96-06/98		Eng No: 4992>		DOX-1314		DOX-0114	
C 230 T Kompressor	Petrol	142	M 111.975	06/97-09/00		Eng No: >555		DOX-1314		DOX-0114	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
MERCEDES-BENZ *continued*											
C-CLASS (S202) (96-01) *continued*											
C 230 T Kompressor	Petrol	142	M 111.975	06/97-09/00		Eng No: >5799		DOX-1314		DOX-0114	
C 230 T Kompressor	Petrol	142	M 111.975	06/97-09/00		Eng No: 556>		DOX-1314		DOX-0114	
C 230 T Kompressor	Petrol	142	M 111.975	06/97-09/00		Eng No: 5800>		DOX-1314		DOX-0114	
C 240 T	Petrol	125	M 112.910	06/97-09/00			L	DOX-1105		DOX-0117	
C 240 T	Petrol	125	M 112.910	06/97-09/00		Ch: >F980773	L		DOX-1104		DOX-0117
C 240 T	Petrol	125	M 112.910	06/97-09/00		Ch: F980774>	L		DOX-2037		DOX-0150
C 240 T	Petrol	125	M 112.910	06/97-09/00			L/R			DOX-0117	
C 240 T	Petrol	125	M 112.910	06/97-09/00		Ch: >F980773	L/R				DOX-0117
C 240 T	Petrol	125	M 112.910	06/97-09/00		Ch: F980774>	L/R				DOX-0150
C 240 T	Petrol	125	M 112.910	06/97-09/00			R	DOX-1099		DOX-0117	
C 240 T	Petrol	125	M 112.910	06/97-09/00		Ch: >F980773	R		DOX-1103		DOX-0117
C 240 T	Petrol	125	M 112.910	06/97-09/00		Ch: F980774>	R		DOX-2033		DOX-0150
C 240 T	Petrol	125	M 112.915	09/00-03/01			L		DOX-2037		DOX-0150
C 240 T	Petrol	125	M 112.915	09/00-03/01		Ch: >F980773	L	DOX-1105		DOX-0117	
C 240 T	Petrol	125	M 112.915	09/00-03/01		Ch: F980774>	L	DOX-2011		DOX-0150	
C 240 T	Petrol	125	M 112.915	09/00-03/01		Ch: F980774>	L	DOX-2037		DOX-0150	
C 240 T	Petrol	125	M 112.915	09/00-03/01			L/R			DOX-0150	DOX-0150
C 240 T	Petrol	125	M 112.915	09/00-03/01		Ch: F980774>	L/R			DOX-0150	
C 240 T	Petrol	125	M 112.915	09/00-03/01			R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
C 240 T	Petrol	125	M 112.915	09/00-03/01			R	DOX-2049		DOX-0150	
C 280 T	Petrol	145	M 112.920	06/97-03/01		Ch: >F980773	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
C 280 T	Petrol	145	M 112.920	06/97-03/01		Ch: F980774>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
C 280 T	Petrol	145	M 112.920	06/97-03/01		Ch: F980774>	L	DOX-2037		DOX-0150	
C 280 T	Petrol	145	M 112.920	06/97-03/01		Ch: >F980773	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
C 280 T	Petrol	145	M 112.920	06/97-03/01		Ch: F980774>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
C 280 T	Petrol	145	M 112.920	06/97-03/01		Ch: F980774>	R	DOX-2049		DOX-0150	
C-CLASS (S203) (01-07)											
C 32 AMG Kompressor	Petrol	260	M 112.961	03/01-12/03	A		L	DOX-2011		DOX-0150	
C 32 AMG Kompressor	Petrol	260	M 112.961	03/01-12/03	A		L/R		DOX-2026	DOX-0150	DOX-0150
C 32 AMG Kompressor	Petrol	260	M 112.961	03/01-12/03	A		R	DOX-2007		DOX-0150	
C 55 AMG	Petrol	270	M 113.988	02/04-08/07	A		L	DOX-2011		DOX-0150	
C 55 AMG	Petrol	270	M 113.988	02/04-08/07	A		L/R		DOX-2026	DOX-0150	DOX-0150
C 55 AMG	Petrol	270	M 113.988	02/04-08/07	A		R	DOX-2007		DOX-0150	
C 180	Petrol	95	M 111.951	03/01-05/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	03/01-05/02				DOX-2033	DOX-2011	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	03/01-05/02		Euro 4		DOX-2033	DOX-2007	DOX-0150	DOX-0150
C 180 Kompressor	Petrol	105	M 271.946	05/02-08/07					DOX-2011		DOX-0150
C 200 CGI Kompressor	Petrol	125	M 271.942	07/03-08/07					DOX-2011		DOX-0150
C 200 Kompressor	Petrol	120	M 111.955	03/01-05/02				DOX-2007	DOX-2011	DOX-0150	DOX-0150
C 200 Kompressor	Petrol	120	M 271.940	05/02-08/07					DOX-2011		DOX-0150
C 230	Petrol	150	M 272.920	01/05-08/07			L/R		DOX-2044		DOX-0150
C 230 Kompressor	Petrol	141	M 271.948	02/04-08/07					DOX-2011		DOX-0150
C 240	Petrol	125	M 112.912	03/01-08/07			L	DOX-2011		DOX-0150	
C 240	Petrol	125	M 112.912	03/01-08/07			L/R		DOX-2026	DOX-0150	DOX-0150
C 240	Petrol	125	M 112.912	03/01-08/07			R	DOX-2007		DOX-0150	
C 240 4-matic	Petrol	125	M 112.916	07/02-08/07	A		L	DOX-2011	DOX-2039	DOX-0150	DOX-0150
C 240 4-matic	Petrol	125	M 112.916	07/02-08/07	A		R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 280	Petrol	170	M 272.940	07/05-08/07	A		L/R		DOX-2044		DOX-0150
C 280 4-matic	Petrol	170	M 272.941	06/05-08/07	A		L		DOX-2011		DOX-0150
C 280 4-matic	Petrol	170	M 272.941	06/05-08/07	A		R		DOX-2007		DOX-0150
C 320	Petrol	160	M 112.946	03/01-08/07	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 320	Petrol	160	M 112.946	03/01-08/07	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
C 320 4-matic	Petrol	160	M 112.953	07/02-08/07	A		L	DOX-2011	DOX-2039	DOX-0150	DOX-0150
C 320 4-matic	Petrol	160	M 112.953	07/02-08/07	A		R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 350	Petrol	200	M 272.960	07/05-08/07			L/R		DOX-2044		DOX-0150
C 350 4-matic	Petrol	200	M 272.970	07/05-08/07	A		L		DOX-2011		DOX-0150
C 350 4-matic	Petrol	200	M 272.970	07/05-08/07	A		R		DOX-2007		DOX-0150
C-CLASS (W202) (93-00)											
C 36 AMG	Petrol	206	M 104.941 (AMG 3.6)	05/94-05/00		Ch: A436536>		DOX-1098		DOX-0117	
C 36 AMG	Petrol	206	M 104.941 (AMG 3.6)	05/94-05/00		Ch: F483848>		DOX-1098		DOX-0117	
C 36 AMG	Petrol	206	M 104.941 (AMG 3.6)	09/94-05/00		Ch: >A436535				DOX-0120	
C 36 AMG	Petrol	206	M 104.941 (AMG 3.6)	09/94-05/00		Ch: >F483847				DOX-0120	
C 43 AMG	Petrol	225	M 113.944	08/97-05/00	A		L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
C 43 AMG	Petrol	225	M 113.944	08/97-05/00	A		R	DOX-1099	DOX-1103	DOX-0117	DOX-0117

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MERCEDES-BENZ *continued*											
C-CLASS (W202) (93-00) *continued*											
C 180	Petrol	90	111921	03/93-05/00		Eng No: >117655				DOX-0120	
C 180	Petrol	90	111921	03/93-05/00		Eng No: >50883				DOX-0120	
C 180	Petrol	90	111921	03/93-05/00		Eng No: 117656>		DOX-1183		DOX-0120	
C 180	Petrol	90	111921	03/93-05/00		Eng No: 50884>		DOX-1183		DOX-0120	
C 200	Petrol	100	111945	01/94-05/00		Eng No: >14845				DOX-0120	
C 200	Petrol	100	111945	01/94-05/00		Eng No: >15981				DOX-0120	
C 200	Petrol	100	111945	01/94-05/00		Eng No: 14846>		DOX-1183		DOX-0120	
C 200	Petrol	100	111945	01/94-05/00		Eng No: 15982>		DOX-1183		DOX-0120	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Eng No: >3872		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Eng No: >54		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Ch: >A436535, Eng No: 3873>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Ch: >A436535, Eng No: 55>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Ch: >F483847, Eng No: 3873>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Ch: >F483847, Eng No: 55>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	132	M 111.944	10/95-05/00	A	Ch: F483848>		DOX-1183		DOX-0120	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00		Ch: A436536>		DOX-1183		DOX-0120	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Eng No: >3872		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Eng No: >54		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Ch: >A436535, Eng No: 3873>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Ch: >A436535, Eng No: 55>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Ch: >F483847, Eng No: 3873>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Ch: >F483847, Eng No: 55>		DOX-1314		DOX-0114	
C 200 Kompressor	Petrol	141	M 111.944	11/96-05/00	M	Ch: F483848>		DOX-1183		DOX-0120	
C 220	Petrol	110	M 111.961	03/93-05/00		Eng No: >17341				DOX-0120	
C 220	Petrol	110	M 111.961	03/93-05/00		Eng No: >50895				DOX-0120	
C 220	Petrol	110	M 111.961	03/93-05/00		Eng No: 17342>		DOX-1183		DOX-0120	
C 220	Petrol	110	M 111.961	03/93-05/00		Eng No: 50896>		DOX-1183		DOX-0120	
C 230	Petrol	110	M 111.974	06/96-06/97		Eng No: >1871		DOX-1314		DOX-0114	
C 230	Petrol	110	M 111.974	06/96-06/97		Eng No: >4991		DOX-1314		DOX-0114	
C 230	Petrol	110	M 111.974	06/96-06/97		Eng No: 1872>		DOX-1314		DOX-0114	
C 230	Petrol	110	M 111.974	06/96-06/97		Eng No: 4992>		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Eng No: >555		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Eng No: >5799		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Ch: >A436535, Eng No: 556>		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Ch: >A436535, Eng No: 5800>		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Ch: >F483847, Eng No: 556>		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Ch: >F483847, Eng No: 5800>		DOX-1314		DOX-0114	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Ch: A436536>		DOX-1183		DOX-0120	
C 230 Kompressor	Petrol	142	M 111.975	10/95-05/00		Ch: F483848>		DOX-1183		DOX-0120	
C 240	Petrol	125	M 112.910	06/97-05/00			L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
C 240	Petrol	125	M 112.910	06/97-05/00			R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
C 280	Petrol	142	M 104.941	05/93-05/00		Ch: >A436535				DOX-0120	
C 280	Petrol	142	M 104.941	05/93-05/00		Ch: >F483847				DOX-0120	
C 280	Petrol	142	M 104.941	05/93-05/00		Ch: A436536>		DOX-1098		DOX-0117	
C 280	Petrol	142	M 104.941	05/93-05/00		Ch: F483848>		DOX-1098		DOX-0117	
C 280	Petrol	145	M 112.920	06/97-05/00			L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
C 280	Petrol	145	M 112.920	06/97-05/00			R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
C-CLASS (W203) (00-07)											
C 32 AMG Kompressor	Petrol	260	M 112.961	02/01-12/03	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 32 AMG Kompressor	Petrol	260	M 112.961	02/01-12/03	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
C 55 AMG	Petrol	270	M 113.988	02/04-02/07	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 55 AMG	Petrol	270	M 113.988	02/04-02/07	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	10/00-05/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	10/00-05/02				DOX-2033	DOX-2011	DOX-0150	DOX-0150
C 180	Petrol	95	M 111.951	10/00-05/02		Euro 4		DOX-2033	DOX-2007	DOX-0150	DOX-0150
C 180 Kompressor	Petrol	105	M 271.946	05/02-02/07					DOX-2011		DOX-0150
C 200 CGI Kompressor	Petrol	125	M 271.942	07/03-02/07					DOX-2011		DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
MERCEDES-BENZ *continued*											
C-CLASS (W203) (00-07) *continued*											
C 200 Kompressor	Petrol	120	M 111.955	05/00-05/02				DOX-2007	DOX-2011	DOX-0150	DOX-0150
C 200 Kompressor	Petrol	120	M 271.940	05/02-02/07					DOX-2011		DOX-0150
C 230	Petrol	150	M 272.920	01/05-02/07			L/R		DOX-2044		DOX-0150
C 230 Kompressor	Petrol	141	M 271.948	02/04-02/07					DOX-2011		DOX-0150
C 240	Petrol	125	M 112.912	05/00-02/07			L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 240	Petrol	125	M 112.912	05/00-02/07			R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
C 240 4-matic	Petrol	125	M 112.916	07/02-02/07	A		L	DOX-2011	DOX-2039	DOX-0150	DOX-0150
C 240 4-matic	Petrol	125	M 112.916	07/02-02/07	A		R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 280	Petrol	170	M 272.940	07/05-02/07			L/R		DOX-2044		DOX-0150
C 280 4-matic	Petrol	170	M 272.941	06/05-02/07	A		L		DOX-2011		DOX-0150
C 280 4-matic	Petrol	170	M 272.941	06/05-02/07	A		R		DOX-2007		DOX-0150
C 320	Petrol	160	M 112.946	05/00-02/07	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 320	Petrol	160	M 112.946	05/00-02/07	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
C 320 4-matic	Petrol	160	M 112.953	07/02-02/07	A		L	DOX-2011	DOX-2039	DOX-0150	DOX-0150
C 320 4-matic	Petrol	160	M 112.953	07/02-02/07	A		R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
C 350	Petrol	200	M 272.960	07/05-02/07			L/R		DOX-2044		DOX-0150
C 350 4-matic	Petrol	200	M 272.970	07/05-02/07	A		L		DOX-2011		DOX-0150
C 350 4-matic	Petrol	200	M 272.970	07/05-02/07	A		R		DOX-2007		DOX-0150
CLK (A208) (98-02)											
200	Petrol	100	111945	03/98-03/02		Eng No: >1912		DOX-1314		DOX-0114	
200	Petrol	100	111945	03/98-03/02		Eng No: >3752		DOX-1314		DOX-0114	
200	Petrol	100	111945	03/98-03/02		Eng No: 1913>		DOX-1314		DOX-0114	
200	Petrol	100	111945	03/98-03/02		Eng No: 3753>		DOX-1314		DOX-0114	
200 Kompressor	Petrol	120	M 111.956	06/00-03/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
200 Kompressor	Petrol	141	M 111.944	03/98-06/00		Eng No: >3872		DOX-1314		DOX-0114	
200 Kompressor	Petrol	141	M 111.944	03/98-06/00		Eng No: >54		DOX-1314		DOX-0114	
200 Kompressor	Petrol	141	M 111.944	03/98-06/00		Eng No: 3873>		DOX-1314		DOX-0114	
200 Kompressor	Petrol	141	M 111.944	03/98-06/00		Eng No: 55>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	03/98-06/00		Eng No: >555		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	03/98-06/00		Eng No: >5799		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	03/98-06/00		Eng No: 556>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	03/98-06/00		Eng No: 5800>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	145	M 111.982	06/00-03/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
230 Kompressor	Petrol	145	M 111.982	06/00-03/02				DOX-2011		DOX-0150	
320	Petrol	160	M 112.940	03/98-03/02	A	Ch: >T054271	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
320	Petrol	160	M 112.940	03/98-03/02	A	Ch: T054272>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
320	Petrol	160	M 112.940	03/98-03/02	A	Ch: T054272>	L	DOX-2037		DOX-0150	
320	Petrol	160	M 112.940	03/98-03/02	A	Ch: >T054271	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
320	Petrol	160	M 112.940	03/98-03/02	A	Ch: T054272>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
320	Petrol	160	M 112.940	03/98-03/02	A	Ch: T054272>	R	DOX-2049		DOX-0150	
430	Petrol	205	M 113.943	09/98-03/02	A	Ch: T054272>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
430	Petrol	205	M 113.943	09/98-03/02	A	Ch: T054272>	L	DOX-2037		DOX-0150	
430	Petrol	205	M 113.943	09/98-03/02	A	Ch: T054272>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
430	Petrol	205	M 113.943	09/98-03/02	A	Ch: T054272>	R	DOX-2049		DOX-0150	
430	Petrol	205	M 113.943	06/99-03/02	A	Ch: >T054271	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
430	Petrol	205	M 113.943	06/99-03/02	A	Ch: >T054271	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
CLK (A209) (03-10)											
CLK 55 AMG	Petrol	270	M 113.987	02/03-06/09	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
CLK 55 AMG	Petrol	270	M 113.987	02/03-06/09	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
CLK 63 AMG	Petrol	354	M 156.982	04/06-06/09	A		L/R		DOX-2044		DOX-0150
CLK 200 Kompressor	Petrol	120	M 271.940	02/03-11/05					DOX-2011		DOX-0150
CLK 240	Petrol	125	M 112.912	02/03-05/05			L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
CLK 240	Petrol	125	M 112.912	02/03-05/05			R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
CLK 280	Petrol	170	M 272.940	01/05-06/09			L/R		DOX-2044		DOX-0150
CLK 320	Petrol	160	M 112.955	02/03-05/05	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
CLK 320	Petrol	160	M 112.955	02/03-05/05	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
CLK 350	Petrol	200	M 272.960	01/05-06/09			L/R		DOX-2044		DOX-0150
CLK 500	Petrol	225	M 113.968	02/03-06/09	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
CLK 500	Petrol	225	M 113.968	02/03-06/09	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
CLK (C208) (97-02)											
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: F136790>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: F136790>	L	DOX-2037		DOX-0150	
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: T000731>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: T000731>	L	DOX-2037		DOX-0150	
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: F136790>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: F136790>	R	DOX-2049		DOX-0150	
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: T000731>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MERCEDES-BENZ *continued*											
CLK (C208) (97-02) *continued*											
55 AMG	Petrol	255	113984	08/99-02/02	A	Ch: T000731>	R	DOX-2049		DOX-0150	
55 AMG	Petrol	255	113984	08/99-06/02	A	Ch: >F136789	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
55 AMG	Petrol	255	113984	08/99-06/02	A	Ch: >T000730	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
55 AMG	Petrol	255	113984	08/99-06/02	A	Ch: >F136789	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
55 AMG	Petrol	255	113984	08/99-06/02	A	Ch: >T000730	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
200	Petrol	100	111945	06/97-02/02		Eng No: 1913>		DOX-1314		DOX-0114	
200	Petrol	100	111945	06/97-02/02		Eng No: 3753>		DOX-1314		DOX-0114	
200	Petrol	100	111945	06/97-06/02		Eng No: >1912		DOX-1314		DOX-0114	
200	Petrol	100	111945	06/97-06/02		Eng No: >3752		DOX-1314		DOX-0114	
200 Kompressor	Petrol	120	M 111.956	06/00-02/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
200 Kompressor	Petrol	141	M 111.944	06/97-06/00		Eng No: >3872		DOX-1314		DOX-0114	
200 Kompressor	Petrol	141	M 111.944	06/97-06/00		Eng No: >54		DOX-1314		DOX-0114	
200 Kompressor	Petrol	141	M 111.944	06/97-06/00		Eng No: 3873>		DOX-1314		DOX-0114	
200 Kompressor	Petrol	141	M 111.944	06/97-06/00		Eng No: 55>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	06/97-06/00		Eng No: >555		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	06/97-06/00		Eng No: >5799		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	06/97-06/00		Eng No: 556>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	111975	06/97-06/00		Eng No: 5800>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	145	M 111.982	06/00-02/02				DOX-2007	DOX-2007	DOX-0150	DOX-0150
230 Kompressor	Petrol	145	M 111.982	06/00-02/02				DOX-2011		DOX-0150	
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: F136790>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: F136790>	L	DOX-2037		DOX-0150	
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: T000731>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: T000731>	L	DOX-2037		DOX-0150	
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: F136790>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: F136790>	R	DOX-2049		DOX-0150	
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: T000731>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
320	Petrol	160	M 112.940	06/97-02/02	A	Ch: T000731>	R	DOX-2049		DOX-0150	
320	Petrol	160	M 112.940	06/97-06/02	A	Ch: >F136789	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
320	Petrol	160	M 112.940	06/97-06/02	A	Ch: >T000730	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
320	Petrol	160	M 112.940	06/97-06/02	A	Ch: >F136789	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
320	Petrol	160	M 112.940	06/97-06/02	A	Ch: >T000730	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: F136790>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: F136790>	L	DOX-2037		DOX-0150	
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: T000731>	L	DOX-2011	DOX-2037	DOX-0150	DOX-0150
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: T000731>	L	DOX-2037		DOX-0150	
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: F136790>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: F136790>	R	DOX-2049		DOX-0150	
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: T000731>	R	DOX-2039	DOX-2033	DOX-0150	DOX-0150
430	Petrol	205	M 113.943	07/98-02/02	A	Ch: T000731>	R	DOX-2049		DOX-0150	
430	Petrol	205	M 113.943	07/98-06/02	A	Ch: >F136789	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
430	Petrol	205	M 113.943	07/98-06/02	A	Ch: >T000730	L	DOX-1105	DOX-1104	DOX-0117	DOX-0117
430	Petrol	205	M 113.943	07/98-06/02	A	Ch: >F136789	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
430	Petrol	205	M 113.943	07/98-06/02	A	Ch: >T000730	R	DOX-1099	DOX-1103	DOX-0117	DOX-0117
CLK (C209) (02-09)											
55 AMG	Petrol	270	M 113.987	09/02-05/09	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
55 AMG	Petrol	270	M 113.987	09/02-05/09	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
63 AMG	Petrol	354	M 156.982	04/06-05/09	A		L/R		DOX-2044		DOX-0150
200 CGI	Petrol	125	M 271.942	07/03-05/09					DOX-2011		DOX-0150
200 Kompressor	Petrol	120	M 271.940	09/02-05/09					DOX-2011		DOX-0150
240	Petrol	125	M 112.912	06/02-05/05			L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
240	Petrol	125	M 112.912	06/02-05/05			R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
280	Petrol	170	M 272.940	01/05-05/09			L/R		DOX-2044		DOX-0150
320	Petrol	160	M 112.955	06/02-05/05	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
320	Petrol	160	M 112.955	06/02-05/05	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
350	Petrol	200	M 272.960	01/05-05/09			L/R		DOX-2044		DOX-0150
500	Petrol	225	M 113.968	06/02-05/09	A		L	DOX-2011	DOX-2026	DOX-0150	DOX-0150
500	Petrol	225	M 113.968	06/02-05/09	A		R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
CLS (C219) (04-10)											
CLS 55 AMG	Petrol	350	M 113.990	01/05-01/08	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
CLS 63 AMG	Petrol	378	M 156.983	04/06-01/08	A		L/R		DOX-2024		DOX-0150
CLS 350	Petrol	200/215	M 272.964; M 272.985	10/04-01/08	A		L/R		DOX-2044		DOX-0150
CLS 500	Petrol	225	M 113.967	10/04-01/08	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
COUPE (C124) (87-93)											
220 CE	Petrol	110	M 111.960	10/92-05/93						DOX-0120	
230 CE	Petrol	97	M 102.982	03/87-06/92				DOX-1376		DOX-0115	
230 CE	Petrol	97	M 102.982	03/87-06/92						DOX-0116	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
MERCEDES-BENZ *continued*											
COUPE (C124) (87-93) *continued*											
300 CE	Petrol	132/138	M 103.983	03/87-05/93				DOX-1376		DOX-0116	
E-CLASS (A124) (93-98)											
E 200	Petrol	100	M 111.940	06/93-03/98						DOX-0120	
E 220	Petrol	110	M 111.960	06/93-03/98						DOX-0120	
E-CLASS (C124) (93-97)											
E 200	Petrol	100	M 111.940	06/93-06/97						DOX-0120	
E 220	Petrol	110	M 111.960	06/93-06/97						DOX-0120	
E-CLASS (S124) (92-96)											
E 200 T	Petrol	100	M 111.940	06/93-02/96						DOX-0120	
E-CLASS (S210) (96-03)											
E 55 T AMG	Petrol	260	M 113.980	08/97-06/99	A		L/R	DOX-1105		DOX-0117	
E 200 T	Petrol	100	M 111.942	06/96-08/00				DOX-1093		DOX-0114	
E 200 T Kompressor	Petrol	120	M 111.957	08/00-03/03				DOX-2011	DOX-2007	DOX-0150	DOX-0150
E 200 T Kompressor	Petrol	137	M 111.947	06/97-03/03				DOX-1093		DOX-0114	
E 230 T	Petrol	110	M 111.970	06/96-06/97				DOX-1314		DOX-0114	
E 240 T	Petrol	125	M 112.911	06/97-03/03			L/R	DOX-1105		DOX-0117	
E 240 T	Petrol	125	M 112.911	06/97-03/03	M		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
E 240 T	Petrol	125	M 112.911	06/97-03/03	M		L/R	DOX-2011		DOX-0150	
E 240 T	Petrol	125	M 112.914	08/00-03/03			L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
E 240 T	Petrol	125	M 112.914	08/00-03/03			L/R	DOX-2011		DOX-0150	
E 280 T	Petrol	150	M 112.921	12/96-03/03			L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 280 T	Petrol	150	M 112.921	12/96-03/03			L/R	DOX-2007		DOX-0150	
E 280 T	Petrol	150	M 112.921	12/96-03/03			L/R	DOX-2011		DOX-0150	
E 280 T 4-matic	Petrol	150	M 112.921	12/96-06/99	A		L/R	DOX-1105		DOX-0117	
E 320 T	Petrol	165	M 112.941	12/96-03/03	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 320 T	Petrol	165	M 112.941	12/96-03/03	A		L/R	DOX-2007		DOX-0150	
E 320 T	Petrol	165	M 112.941	12/96-03/03	A		L/R	DOX-2011		DOX-0150	
E 320 T 4-matic	Petrol	165	M 112.941	12/96-06/99	A		L/R	DOX-1105		DOX-0117	
E 420 T	Petrol	205	M 119.985	06/96-06/97	A	Ch: >A132401	L/R	DOX-1105		DOX-0117	
E 420 T	Petrol	205	M 119.985	06/96-06/97	A	Ch: >J020294	L/R	DOX-1105		DOX-0117	
E 420 T	Petrol	205	M 119.985	06/96-06/97	A	Ch: A132402>	L/R	DOX-1105		DOX-0117	
E 420 T	Petrol	205	M 119.985	06/96-06/97	A	Ch: J020295>	L/R	DOX-1105		DOX-0117	
E 430 T	Petrol	205	M 113.940	06/97-03/03	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 430 T	Petrol	205	M 113.940	06/97-03/03	A		L/R	DOX-2007		DOX-0150	
E 430 T	Petrol	205	M 113.940	06/97-03/03	A		L/R	DOX-2011		DOX-0150	
E 430 T 4-matic	Petrol	205	M 113.940	05/99-03/03	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 430 T 4-matic	Petrol	205	M 113.940	05/99-03/03	A		L/R	DOX-2007		DOX-0150	
E 430 T 4-matic	Petrol	205	M 113.940	05/99-03/03	A		R	DOX-2011		DOX-0150	
E-CLASS (S211) (03-09)											
E 55 T AMG Kompressor	Petrol	350	M 113.990	07/03-03/06	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 63 AMG	Petrol	378	M 156.983	03/06-07/09	A		L/R		DOX-2024		DOX-0150
E 200 Kompressor	Petrol	135	M 271.956	04/06-07/09					DOX-2011		DOX-0150
E 200 T Kompressor	Petrol	120	M 271.941	03/03-03/06					DOX-2011		DOX-0150
E 240 T	Petrol	130	M 112.913	03/03-05/05			L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 240 T 4-matic	Petrol	130	M 112.917	07/03-06/05	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
E 280 T	Petrol	170	M 272.943	03/05-07/09			L/R		DOX-2044		DOX-0150
E 280 T 4-matic	Petrol	170	M 272.943	07/05-07/09	A		L/R		DOX-2007		DOX-0150
E 320 T	Petrol	165	M 112.949	03/03-03/06	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 320 T 4-matic	Petrol	165	M 112.954	07/03-03/06	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
E 350 T	Petrol	200	272964	03/05-07/09			L/R		DOX-2044		DOX-0150
E 350 T 4-matic	Petrol	200	272972	03/05-07/09	A		L/R		DOX-2007		DOX-0150
E 500 T	Petrol	225	M 113.967	10/03-03/06	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 500 T	Petrol	285	M 273.960	04/06-07/09	A		L/R		DOX-2044		DOX-0150
E 500 T 4-matic	Petrol	225	M 113.969	10/03-03/06	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
E 500 T 4-matic	Petrol	285	M 273.962	04/06-07/09	A		L/R		DOX-2007		DOX-0150
E-CLASS (W124) (84-95)											
200	Petrol	80	M 102.922	12/85-09/89	A			DOX-1376		DOX-0115	
200	Petrol	80	M 102.922	12/85-09/89	A					DOX-0116	
200 E	Petrol	100	M 111.940	10/92-06/93						DOX-0120	
200 E	Petrol	87	M 102.963	09/88-08/92				DOX-1376		DOX-0115	
200 E	Petrol	87	M 102.963	09/88-08/92						DOX-0116	
230 E	Petrol	97	M 102.982	12/84-03/92	M			DOX-1376		DOX-0115	
230 E	Petrol	97	M 102.982	12/84-03/92	M					DOX-0116	
230 E	Petrol	97	M 102.982	06/89-09/92				DOX-1376		DOX-0115	
230 E	Petrol	97	M 102.982	06/89-09/92						DOX-0116	
260 E	Petrol	118/122	M 103.940	09/85-08/92				DOX-1376		DOX-0115	
260 E	Petrol	118/122	M 103.940	09/85-08/92						DOX-0116	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MERCEDES-BENZ *continued*											
E-CLASS (W124) (84-95) *continued*											
300 E	Petrol	132/138	M 103.983	06/85-08/92				DOX-1376		DOX-0115	
300 E	Petrol	132/138	M 103.983	06/85-08/92						DOX-0116	
300 E	Petrol	138	M 103.980	01/85-08/85	M			DOX-1376		DOX-0115	
300 E	Petrol	138	M 103.980	01/85-08/85	M					DOX-0116	
E-CLASS (W124) (93-95)											
E 200	Petrol	100	M 111.940	06/93-06/95						DOX-0120	
E-CLASS (W210) (95-02)											
E 50 AMG	Petrol	255	M 119.985 (AMG 5.0)	02/96-08/97	A	Ch: >A132401	L/R	DOX-1105		DOX-0117	
E 50 AMG	Petrol	255	M 119.985 (AMG 5.0)	02/96-08/97	A	Ch: >J020294	L/R	DOX-1105		DOX-0117	
E 50 AMG	Petrol	255	M 119.985 (AMG 5.0)	02/96-08/97	A	Ch: A132402>	L/R	DOX-1105		DOX-0117	
E 50 AMG	Petrol	255	M 119.985 (AMG 5.0)	02/96-08/97	A	Ch: J020295>	L/R	DOX-1105		DOX-0117	
E 55 AMG	Petrol	260	M 113.980	08/97-03/02	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 55 AMG	Petrol	260	M 113.980	08/97-03/02	A		L/R	DOX-2007		DOX-0150	
E 55 AMG	Petrol	260	M 113.980	08/97-03/02	A		L/R	DOX-2011		DOX-0150	
E 200	Petrol	100	M 111.942	06/95-08/00				DOX-1093		DOX-0114	
E 200 Kompressor	Petrol	120	M 111.957	08/00-03/02				DOX-2011	DOX-2007	DOX-0150	DOX-0150
E 200 Kompressor	Petrol	137	M 111.947	06/97-03/02				DOX-1093		DOX-0114	
E 230	Petrol	110	M 111.970	06/95-06/97				DOX-1314		DOX-0114	
E 240	Petrol	125	M 112.911	06/97-08/00			L/R	DOX-1105		DOX-0117	
E 240	Petrol	125	M 112.911	02/00-08/00	M		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
E 240	Petrol	125	M 112.911	02/00-08/00	M		L/R	DOX-2011		DOX-0150	
E 240	Petrol	125	M 112.914	08/00-03/02			L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
E 240	Petrol	125	M 112.914	08/00-03/02			L/R	DOX-2011		DOX-0150	
E 280	Petrol	142	M 104.945	01/96-06/97	A			DOX-1102		DOX-0118	
E 280	Petrol	142	M 104.945	01/96-06/97	M		R	DOX-1105		DOX-0117	
E 280	Petrol	150	M 112.921	06/99-03/02	M		R	DOX-1105		DOX-0117	
E 280	Petrol	150	M 112.921	06/00-03/02			L/R	DOX-2011		DOX-0150	
E 280	Petrol	150	M 112.921	06/00-03/02	M		L	DOX-2007		DOX-0150	
E 280 4-matic	Petrol	150	M 112.921	12/96-06/99	A		L/R	DOX-1105		DOX-0117	
E 320	Petrol	162	M 104.995	06/95-06/97	A			DOX-1102		DOX-0118	
E 320	Petrol	165	M 112.941	06/97-03/02	A			DOX-1102		DOX-0118	
E 320	Petrol	165	M 112.941	06/97-03/02	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 320	Petrol	165	M 112.941	06/97-03/02	A		L/R	DOX-2007		DOX-0150	
E 320	Petrol	165	M 112.941	06/97-03/02	A		L/R	DOX-2011		DOX-0150	
E 320 4-matic	Petrol	165	M 112.941	06/97-06/99	A		L/R	DOX-1105		DOX-0117	
E 420	Petrol	205	M 119.985	01/96-06/97	A	Ch: >A132401	L/R	DOX-1105		DOX-0117	
E 420	Petrol	205	M 119.985	01/96-06/97	A	Ch: >J020294	L/R	DOX-1105		DOX-0117	
E 420	Petrol	205	M 119.985	01/96-06/97	A	Ch: A132402>	L/R	DOX-1105		DOX-0117	
E 420	Petrol	205	M 119.985	01/96-06/97	A	Ch: J020295>	L/R	DOX-1105		DOX-0117	
E 430	Petrol	205	M 113.940	06/97-03/02	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 430	Petrol	205	M 113.940	06/97-03/02	A		L/R	DOX-2007		DOX-0150	
E 430	Petrol	205	M 113.940	06/97-03/02	A		L/R	DOX-2011		DOX-0150	
E 430 4-matic	Petrol	205	M 113.940	05/99-03/02	A		L/R	DOX-1105	DOX-2007	DOX-0117	DOX-0150
E 430 4-matic	Petrol	205	M 113.940	05/99-03/02	A		L/R	DOX-2007		DOX-0150	
E 430 4-matic	Petrol	205	M 113.940	05/99-03/02	A		R	DOX-2011		DOX-0150	
E-CLASS (W211) (02-08)											
E 55 AMG Kompressor	Petrol	350	M 113.990	10/02-03/06	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 63 AMG	Petrol	378	M 156.983	03/06-12/08	A		L/R		DOX-2024		DOX-0150
E 200 Kompressor	Petrol	120/135	M 271.941; M 271.956	11/02-12/08					DOX-2011		DOX-0150
E 200 NGT	Bi-Fuel	120	M 271.941	04/06-12/08	A				DOX-2011		DOX-0150
E 230	Petrol	150	M 272.922	09/07-12/08	M		L/R		DOX-2044		DOX-0150
E 240	Petrol	130	112913	03/02-05/05			L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 240 4-matic	Petrol	130	M 112.917	03/03-06/05	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
E 280	Petrol	170	M 272.943	03/05-12/08			L/R		DOX-2044		DOX-0150
E 280 4-matic	Petrol	170	M 272.943	01/06-12/08	A		L/R		DOX-2007		DOX-0150
E 320	Petrol	165	M 112.949	03/02-03/06	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 320 4-matic	Petrol	165	M 112.954	03/03-03/06	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
E 350	Petrol	200	M 272.964	03/05-12/08			L/R		DOX-2044		DOX-0150
E 350 4-matic	Petrol	200	272972	03/05-12/08	A		L/R		DOX-2007		DOX-0150
E 350 CGI	Petrol	215	M 272.985	09/07-12/08	A		L/R		DOX-2044		DOX-0150
E 500	Petrol	225	M 113.967	03/02-03/06	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
E 500	Petrol	285	M 273.960	04/06-12/08	A		L/R		DOX-2044		DOX-0150
E 500 4-matic	Petrol	225	M 113.969	10/03-03/06	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
E 500 4-matic	Petrol	285	M 273.962	04/06-12/08	A		L/R		DOX-2007		DOX-0150
G-CLASS (W463) (89-)											
G 55 AMG	Petrol	350	M 113.993	06/04-	A		L/R	DOX-2007	DOX-2011	DOX-0150	DOX-0150
G 320	Petrol	158	M 112.945	07/97-	A		L/R	DOX-1105	DOX-2011	DOX-0117	DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
MERCEDES-BENZ *continued*											
G-CLASS (W463) (89-) *continued*											
G 320	Petrol	158	M 112.945	07/97-	A		L/R	DOX-2007		DOX-0150	
G 500	Petrol	218	M 113.962	04/98-	A		L/R	DOX-1105	DOX-2011	DOX-0117	DOX-0150
G 500	Petrol	218	M 113.962	04/98-	A		L/R	DOX-2007		DOX-0150	
G 500	Petrol	218	M 113.962	04/98-	A	Ch: >144225	L/R		DOX-2011		DOX-0150
G 500	Petrol	218	M 113.962	04/98-	A	Ch: 144246>	L/R		DOX-2011		DOX-0150
GL-CLASS (X164) (06-)											
GL 450	Petrol	250	M 273.923	09/06-	A		L		DOX-2024		DOX-0150
GL 450	Petrol	250	M 273.923	09/06-	A		R		DOX-2044		DOX-0150
GL 500	Petrol	285	M 273.963	09/06-	A		L		DOX-2024		DOX-0150
GL 500	Petrol	285	M 273.963	09/06-	A		R		DOX-2044		DOX-0150
KOMBI (S124) (85-93)											
200 T	Petrol	77	M 102.922	01/86-09/89				DOX-1376		DOX-0116	
200 TE	Petrol	100	M 111.940	10/92-06/93						DOX-0120	
200 TE	Petrol	87	M 102.963	09/88-08/92				DOX-1376		DOX-0116	
230 TE	Petrol	100	M 102.982	03/86-08/92	M			DOX-1376		DOX-0116	
230 TE	Petrol	97	M 102.982	03/86-08/92				DOX-1376		DOX-0116	
300 TE	Petrol	132/138	M 103.983	01/86-08/92				DOX-1376		DOX-0116	
M-CLASS (W163) (98-05)											
ML 55 AMG	Petrol	255	M 113.981	02/00-08/04	A		L/R	DOX-1100	DOX-1098	DOX-0117	DOX-0117
ML 230	Petrol	110	M 111.977	02/98-05/00	M			DOX-1314		DOX-0114	
ML 320	Petrol	160	M 112.942	02/98-08/02	A		L/R	DOX-1100	DOX-2007	DOX-0117	DOX-0150
ML 320	Petrol	160	M 112.942	02/98-08/02	A		L/R	DOX-2007		DOX-0150	
ML 320	Petrol	160	M 112.942	02/98-08/02	A	Ch: >A051463	L/R		DOX-1100		DOX-0117
ML 320	Petrol	160	M 112.942	02/98-08/02	A	Ch: A051464>	L/R		DOX-1098		DOX-0117
ML 350	Petrol	173	M 112.970	02/03-06/05	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
ML 430	Petrol	200	M 113.942	02/98-05/01	A		L/R	DOX-1100	DOX-1098	DOX-0117	DOX-0117
ML 430	Petrol	200	M 113.942	02/98-05/01	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
ML 500	Petrol	215	113965	09/01-08/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
M-CLASS (W164) (05-)											
ML 63 AMG 4-matic	Petrol	375	M 156.980	01/06-04/08	A		L/R		DOX-2024		DOX-0150
ML 350 4-matic	Petrol	200	272967	07/05-04/08	A		L		DOX-2024		DOX-0150
ML 350 4-matic	Petrol	200	272967	07/05-04/08	A		L/R				DOX-0150
ML 350 4-matic	Petrol	200	272967	07/05-04/08	A		R		DOX-2044		DOX-0150
ML 500 4-matic	Petrol	225	M 113.964	07/05-04/08	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
R-CLASS (W251, V251) (06-)											
R 63 AMG	Petrol	375	M 156.980	02/06-05/07	A		L/R		DOX-2024		DOX-0150
R 500 4-matic	Petrol	225	M 113.971	01/06-04/08	A		L/R	DOX-2011	DOX-2026	DOX-0150	DOX-0150
S-CLASS (C140) (92-99)											
SEC/CL 420	Petrol	205	119971	10/94-02/99	A	Ch: A290167>	L/R	DOX-1097		DOX-0117	
SEC/CL 500	Petrol	235	M 119.970	10/92-02/99	A	Ch: A290167>	L	DOX-1105		DOX-0117	
SEC/CL 500	Petrol	235	M 119.970	10/92-02/99	A	Ch: A290167>	L/R	DOX-1097		DOX-0117	
SEC/CL 600	Petrol	290	120982	09/92-02/99	A	Ch: A290167>	L/R	DOX-1098		DOX-0117	
S-CLASS (C215) (99-06)											
CL 55 AMG	Petrol	265	M 113.986	10/99-03/06	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
CL 55 AMG Kompressor	Petrol	368	M 113.991	06/02-03/06	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
CL 65 AMG	Petrol	450	M 275.980	09/03-03/06	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
CL 500	Petrol	225	M 113.960	08/99-03/06	A		L/R	DOX-1097	DOX-1100	DOX-0117	DOX-0117
CL 500	Petrol	225	M 113.960	08/99-03/06	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
CL 600	Petrol	270/368	M 137.970; M 275.950	08/99-03/06	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S-CLASS (W140) (91-98)											
300 SE 2.8	Petrol	145	M 104.944	01/93-06/93		Ch: A328811>		DOX-1100		DOX-0117	
300 SE,SEL/S320	Petrol	170	104990	03/91-06/93		Ch: A328811>		DOX-1100		DOX-0117	
300 SE,SEL/S320	Petrol	170	104990	03/91-10/98		Ch: >A290166				DOX-0120	
300 SE,SEL/S320	Petrol	170	104994	03/91-10/98	A	Ch: A328811>		DOX-1100		DOX-0117	
300 SE,SEL/S320	Petrol	170	104994	07/93-10/98	A	Ch: >A290166				DOX-0120	
400 SE,SEL/S420	Petrol	210	M 119.971	02/91-06/93	A	Ch: A290167>	L/R	DOX-1097		DOX-0117	
500 SE,SEL	Petrol	240	M 119.970	02/91-06/93	A	Ch: A290167>	L	DOX-1105		DOX-0117	
500 SE,SEL	Petrol	240	M 119.970	02/91-06/93	A	Ch: A290167>	L/R	DOX-1097		DOX-0117	
600 SE,SEL	Petrol	300	120980	04/91-12/92	A	Ch: A290167>	L/R	DOX-1098		DOX-0117	
S 280	Petrol	142	M 104.944	02/93-10/98		Ch: A328811>		DOX-1100		DOX-0117	
S 420	Petrol	205	M 119.971	01/93-10/98	A	Ch: A290167>	L/R	DOX-1097		DOX-0117	
S 500	Petrol	235	119970	01/93-10/98	A	Ch: A290167>	L	DOX-1105		DOX-0117	
S 500	Petrol	235	119970	01/93-10/98	A	Ch: A290167>	L/R	DOX-1097		DOX-0117	
S-CLASS (W220) (98-05)											
S 55 AMG	Petrol	265	M 113.986	01/00-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 55 AMG Kompressor	Petrol	368	M 113.991	06/02-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150

Lambda Sensors

Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MERCEDES-BENZ *continued*											
S-CLASS (W220) (98-05) *continued*											
S 65 AMG	Petrol	450	M 275.980	03/04-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 280	Petrol	150	M 112.922	03/99-09/04	A		L/R	DOX-1097	DOX-1100	DOX-0117	DOX-0117
S 280	Petrol	150	M 112.922	03/99-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 320	Petrol	165	M 112.944	10/98-09/04	A		L/R	DOX-1097	DOX-1100	DOX-0117	DOX-0117
S 320	Petrol	165	M 112.944	10/98-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 350	Petrol	180	M 112.972	09/02-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 350 4-matic	Petrol	180	M 112.975	06/03-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 430	Petrol	205	M 113.941	10/98-09/04	A		L/R	DOX-1097	DOX-1100	DOX-0117	DOX-0117
S 430	Petrol	205	M 113.941	10/98-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 430 4-matic	Petrol	205	M 113.948	09/02-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 500	Petrol	225	M 113.960	10/98-09/04	A		L/R	DOX-1097	DOX-1100	DOX-0117	DOX-0117
S 500	Petrol	225	M 113.960	10/98-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 500 4-matic	Petrol	225	M 113.966	09/02-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 600	Petrol	270/368	M 137.970; M 275.950	01/00-09/04	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S-CLASS (W221) (05-)											
S 65 AMG	Petrol	450	M 275.982	04/06-06/09	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
S 350	Petrol	200	M 272.965	10/05-06/09	A		L/R		DOX-2024		DOX-0150
S 450	Petrol	250	M 273.922	12/05-06/09	A		L/R		DOX-2024		DOX-0150
S 500	Petrol	285	M 273.961	10/05-06/09	A		L/R		DOX-2024		DOX-0150
SL (R129) (89-01)											
280	Petrol	142	M 104.943	08/93-10/01		Ch: F140422>		DOX-1100		DOX-0117	
320	Petrol	170	M 104.991	09/93-10/01	A	Ch: F140422>		DOX-1100		DOX-0117	
500	Petrol	235	119972; 119982	09/92-10/01	A	Ch: F125158>	L	DOX-1105		DOX-0117	
500	Petrol	235	119972; 119982	09/92-10/01	A	Ch: F125158>	R	DOX-1100		DOX-0117	
600	Petrol	290	120981; 120983	07/92-10/01	A	Ch: F125158>	L/R	DOX-1098		DOX-0117	
SL (R230) (01-12)											
55 AMG	Petrol	350/380	M 113.992; M 113.995	10/01-01/08	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
65 AMG	Petrol	450	M 275.981	03/04-01/08	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
350	Petrol	180	M 112.973	03/03-10/05			L/R	DOX-2007	DOX-2039	DOX-0150	DOX-0150
350	Petrol	200	M 272.966	03/06-01/08	A		L/R		DOX-2044		DOX-0150
500	Petrol	225	M 113.963	10/01-10/05	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
500	Petrol	285	M 273.965	03/06-01/08	A		L/R		DOX-2044		DOX-0150
600	Petrol	368/380	M 275.951; M 275.954	04/03-01/08	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
SLK (R170) (96-04)											
32 AMG Kompressor	Petrol	260	M 112.960	10/01-12/03	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
200	Petrol	100	M 111.946	09/96-03/00		Eng No: >13735		DOX-1093		DOX-0114	
200	Petrol	100	M 111.946	09/96-03/00		Eng No: >6646		DOX-1093		DOX-0114	
200	Petrol	100	M 111.946	09/96-03/00		Eng No: 13736>		DOX-1314		DOX-0114	
200	Petrol	100	M 111.946	09/96-03/00		Eng No: 6647>		DOX-1314		DOX-0114	
200 Kompressor	Petrol	120	M 111.958	03/00-12/03				DOX-2007	DOX-2007	DOX-0150	DOX-0150
200 Kompressor	Petrol	120	M 111.958	03/00-12/03		Euro 4		DOX-2007		DOX-0150	
200 Kompressor	Petrol	141	M 111.943	10/96-03/00	M			DOX-1093		DOX-0114	
200 Kompressor	Petrol	141	M 111.943	10/96-03/00	M			DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	M 111.973	09/96-03/00		Eng No: >13520		DOX-1093		DOX-0114	
230 Kompressor	Petrol	142	M 111.973	09/96-03/00		Eng No: >41031		DOX-1093		DOX-0114	
230 Kompressor	Petrol	142	M 111.973	09/96-03/00		Eng No: 13521>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	142	M 111.973	09/96-03/00		Eng No: 41032>		DOX-1314		DOX-0114	
230 Kompressor	Petrol	145	M 111.983	03/00-12/03				DOX-2007	DOX-2007	DOX-0150	DOX-0150
320	Petrol	160	M 112.947	03/00-12/03			L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
SLK (R171) (04-11)											
55 AMG	Petrol	265	M 113.989	06/04-12/07	A		L/R	DOX-2011	DOX-2039	DOX-0150	DOX-0150
200 Kompressor	Petrol	120	M 271.944	03/04-12/07					DOX-2011		DOX-0150
280	Petrol	170	M 272.942	01/05-12/07			L/R		DOX-2044		DOX-0150
350	Petrol	200	M 272.963	06/04-12/07			L/R		DOX-2044		DOX-0150
SLR (R199) (04-)											
5.4	Petrol	460	M 155.980	04/04-07/09	A		L/R	DOX-2007	DOX-2026	DOX-0150	DOX-0150
SPRINTER 2-t (901, 902) (95-06)											
214	Petrol	105	111979; M 111.979	02/95-05/06	M			DOX-1183		DOX-0120	
SPRINTER 3-t (903) (95-06)											
314	Petrol	105	111979; M 111.984	02/95-05/06	M			DOX-1183		DOX-0120	
SPRINTER 4-t (904) (96-06)											
414	Petrol	105	M 111.979	02/96-05/06	M			DOX-1183		DOX-0120	
VANEO (414) (02-05)											
1.6	Petrol	75	M 166.961	02/02-07/05				DOX-2007	DOX-2007	DOX-0150	DOX-0150
1.9	Petrol	92	M 166.991	02/02-07/05				DOX-2007	DOX-2007	DOX-0150	DOX-0150
V-CLASS (638/2) (96-03)											
V 200	Petrol	95	111948	02/97-12/02	M			DOX-1183		DOX-0120	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
MERCEDES-BENZ *continued*											
V-CLASS (638/2) (96-03) *continued*											
V 200	Petrol	95	111950	02/97-12/02	M			DOX-1105		DOX-0117	
V 230	Petrol	105	M 111.978	10/96-12/02	M			DOX-1105		DOX-0117	
V 230	Petrol	105	M 111.978	10/96-12/02	M			DOX-1183		DOX-0120	
V 280	Petrol	128	M 104.900	08/97-12/02	A			DOX-1183		DOX-0120	
V 280	Petrol	128	M 104.900	08/97-12/02	M		L/R	DOX-1105		DOX-0117	
VIANO (W639) (03-)											
3,0	Petrol	140	M 112.951	09/03-	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
3.2	Petrol	160	M 112.951	09/03-	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
3.7	Petrol	170	M 112.976	06/04-	A		L/R		DOX-2024		DOX-0150
VITO (638) (96-03)											
113 2.0	Petrol	95	111948	02/96-07/03				DOX-1183		DOX-0120	
113 2.0	Petrol	95	111950	03/99-07/03				DOX-1105		DOX-0117	
114 2.3	Petrol	105	M 111.978	12/96-07/03				DOX-1183		DOX-0120	
VITO / MIXTO Box (W639)											
119	Petrol	140	M 112.951	09/03-	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
122	Petrol	160	M 112.951	09/03-01/06	A		L/R	DOX-2007	DOX-2007	DOX-0150	DOX-0150
MG											
MG TF											
115	Petrol	85	16 K4F	03/02-04/05	M			DOX-2017	DOX-2017	DOX-0150	DOX-0150
120	Petrol	88	18 K4F	03/02-04/05	A			DOX-2017	DOX-2017	DOX-0150	DOX-0150
135	Petrol	100	18 K4F	03/02-04/05	M			DOX-2017	DOX-2017	DOX-0150	DOX-0150
160	Petrol	118	18 K4K	03/02-04/05	M			DOX-2017	DOX-2017	DOX-0150	DOX-0150
MG ZR											
105	Petrol	76	14 K4F	06/01-04/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
120	Petrol	86	18 K4F	06/01-04/05				DOX-2017		DOX-0150	
160	Petrol	118	18 K4K	06/01-04/05	M			DOX-2017		DOX-0150	
MG ZS											
1.6	Petrol	79/82	16 K4F	11/01-04/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
120	Petrol	86	18 K4F	07/01-04/05				DOX-2017	DOX-2042	DOX-0150	DOX-0150
180	Petrol	130	25 K4F	07/01-04/05	M				DOX-2042		DOX-0150
180	Petrol	130	25 K4F	07/01-04/05	M		L/R			DOX-0119	
MG ZT											
1.8 16V	Petrol	88	18 K4F	01/03-04/05	M					DOX-0119	
1.8 16V	Petrol	88	18 K4F	01/03-04/05	M	Ch: 310026>					DOX-0119
1.8 T 16V	Petrol	118	18 K4G	01/03-04/05	M					DOX-0119	
1.8 T 16V	Petrol	118	18 K4G	01/03-04/05	M	Ch: 310026>					DOX-0119
160	Petrol	118	25 K4F	01/03-04/05	M	Ch: 310026>					DOX-0119
160	Petrol	118	25 K4F	01/03-04/05	M		L/R			DOX-0119	
180	Petrol	130	25 K4F	01/03-04/05		Ch: 310026>					DOX-0119
180	Petrol	130	25 K4F	01/03-04/05			L/R			DOX-0119	
180	Petrol	130	25 K4F	01/03-04/05	M	Ch: 310026>					DOX-0119
180	Petrol	130	25 K4F	01/03-04/05	M		L/R			DOX-0119	
190	Petrol	140	25 K4F	10/01-04/05	M	Ch: 310026>					DOX-0119
190	Petrol	140	25 K4F	10/01-04/05	M		L/R			DOX-0119	
MGF											
1,8 i VVC	Petrol	118	18 K4K	10/01-03/02	M	Ch: >522572				DOX-0120	
1,8 i VVC	Petrol	118	18 K4K	10/01-03/02	M	Ch: 522573>		DOX-2017	DOX-2017	DOX-0150	DOX-0150
1.6	Petrol	82	16 K4F	02/00-03/02	M	Ch: >522572				DOX-0120	
1.6	Petrol	82	16 K4F	02/00-03/02	M	Ch: 522573>		DOX-2017	DOX-2017	DOX-0150	DOX-0150
1.8 i 16V	Petrol	88	18 K4F	03/95-03/02	M	Ch: >522572				DOX-0120	
1.8 i 16V	Petrol	88	18 K4F	03/95-03/02	M	Ch: 522573>		DOX-2017	DOX-2017	DOX-0150	DOX-0150
1.8 i VVC	Petrol	107	18 K4K	03/95-03/02	M	Ch: >522572				DOX-0120	
1.8 i VVC	Petrol	107	18 K4K	03/95-03/02	M	Ch: 522573>		DOX-2017	DOX-2017	DOX-0150	DOX-0150
MINI											
MINI (R50, R53) (01-07)											
Cooper	Petrol	85	W10B16A	06/01-09/06						DOX-0121	DOX-0121
Cooper S	Petrol	120	W11B16A	03/02-06/04	M					DOX-0121	DOX-0121
Cooper S	Petrol	125	W11B16A	07/04-09/06						DOX-0121	DOX-0121
One	Petrol	66	W10B16A	06/01-09/06						DOX-0121	DOX-0121
Works	Petrol	155	W11B16A	11/03-09/06	M					DOX-0121	DOX-0121
MINI Convertible (R52) (04-07)											
Cooper	Petrol	85	W10B16A	07/04-11/06						DOX-0121	DOX-0121
Cooper S	Petrol	125	W11B16A	07/04-11/06						DOX-0121	DOX-0121
John Cooper Works	Petrol	155	W11B16A	07/04-11/06	M					DOX-0121	DOX-0121
One	Petrol	66	W10B16A	07/04-11/06	M					DOX-0121	DOX-0121

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MITSUBISHI											
3000 GT											
3.0 i 24V 4WD	Petrol	210	6G72 (DOHC 24V)	06/92-08/99						DOX-0109	
3.0 i 24V 4WD	Petrol	210	6G72 (DOHC 24V)	06/94-08/99	M			DOX-1160	DOX-1161	DOX-0109	DOX-0109
ASX											
1.8 4WD	Petrol	102	4B10	02/10-	A					DOX-0113	
1.8 DI-D	Diesel	110	4N13	06/10-	M					DOX-0113	
1.8 DI-D 4WD	Diesel	110	4N13	06/10-						DOX-0113	
CARISMA											
1.6	Petrol	66	4G92	09/96-02/99	M					DOX-0114	
1.6	Petrol	66/73	4G92	07/95-06/00						DOX-0114	
1.6	Petrol	76	4G92	09/00-12/03	M			DOX-0313	DOX-0421	DOX-0113	DOX-0109
1.8	Petrol	85	4G93	07/95-12/02				DOX-1359		DOX-0114	
1.8 16V	Petrol	103	4G93	07/95-04/97	M					DOX-0114	
1.8 16V GDI	Petrol	92	4G93 (GDI)	09/97-02/99				DOX-1359		DOX-0114	
1.8 16V GDI	Petrol	92	4G93 (GDI)	07/00-12/03	A			DOX-0422	DOX-0420	DOX-0113	DOX-0109
1.8 GDI	Petrol	90	4G93 (GDI)	10/00-12/03	M			DOX-0422	DOX-0420	DOX-0113	DOX-0109
COLT III (88-92)											
1.3	Petrol	51	4G13 (8V)	04/88-05/92	M			DOX-1003		DOX-0123	
1.3	Petrol	51	4G13 (8V)	04/88-05/92	M			DOX-1433		DOX-0125	
1.3 12V	Petrol	55	4G13 (12V)	04/88-05/92	M			DOX-1003		DOX-0123	
1.3 12V	Petrol	55	4G13 (12V)	04/88-05/92	M			DOX-1433		DOX-0125	
1.5	Petrol	66	4G15 (12V)	07/90-05/92				DOX-1433		DOX-0123	
1.5	Petrol	66	4G15 (12V)	07/90-05/92	M			DOX-1433		DOX-0123	
1.5 GLXi	Petrol	62	4G15	04/88-05/92				DOX-1003		DOX-0123	
1.5 GLXi	Petrol	62	4G15	04/88-05/92				DOX-1430		DOX-0125	
1.5 GLXi	Petrol	62	4G15	04/88-05/92				DOX-1432		DOX-0123	
1.5 GLXi	Petrol	62	4G15	04/88-05/92				DOX-1433		DOX-0123	
1.6 GTi 16V	Petrol	91	4G61	04/88-05/90	M			DOX-1003		DOX-0109	
1.8 GTi 16V	Petrol	100	4G67	06/90-05/92	M			DOX-1003		DOX-0109	
COLT IV (92-96)											
1.3 GLi 12V	Petrol	55	4G13 (12V)	04/92-04/96	M			DOX-1060		DOX-0119	
1.6	Petrol	66	4G92	11/95-04/96	M			DOX-1161		DOX-0109	
1.6 4WD	Petrol	84	4G92	08/93-08/95	M			DOX-1163		DOX-0109	
1.6 GLXi 16V	Petrol	83	4G92	04/92-04/96				DOX-1163		DOX-0109	
1.8 GTi 16V	Petrol	103	4G93	04/92-04/96	M			DOX-1163		DOX-0109	
COLT V (95-03)											
1600 GLX	Petrol	66	4G92	05/96-09/00				DOX-0313	DOX-0341	DOX-0109	DOX-0109
1600 GLX	Petrol	66	4G92	05/96-09/00				DOX-1441		DOX-0113	
1600 GLX	Petrol	66	4G92	05/96-09/00				DOX-1447			
ECLIPSE (89-95)											
1.8	Petrol	68	4G37	12/89-03/94	M			DOX-1432		DOX-0123	
2.0 i 16V	Petrol	110	4G63 (DOHC 16V)	04/91-03/94				DOX-1167		DOX-0109	
2.0 i 16V 4WD	Petrol	110	4G63 (DOHC 16V)	04/91-03/94	M			DOX-1167		DOX-0109	
ECLIPSE (94-99)											
2000 GS 16V	Petrol	107	4G63 (DOHC 16V)	12/95-04/99	M			DOX-1167		DOX-0109	
2000 GT 16V	Petrol	157	4G637L	12/95-04/99	M			DOX-1163	DOX-1436	DOX-0109	DOX-0109
GALANT IV (87-92)											
1.8	Petrol	63	4G37	11/87-08/90				DOX-1003		DOX-0125	
2.0	Petrol	80	4G63 (SOHC 8V)	11/87-10/92				DOX-1431		DOX-0123	
2.0	Petrol	80	4G63 (SOHC 8V)	11/87-10/92				DOX-1432		DOX-0125	
2.0 4WD	Petrol	80	4G63 (SOHC 8V)	12/88-10/92	M			DOX-1431		DOX-0123	
2.0 4WD	Petrol	80	4G63 (SOHC 8V)	12/88-10/92	M			DOX-1432		DOX-0125	
2.0 GTi 16V	Petrol	106	4G63 (DOHC 16V)	11/87-05/90	M			DOX-1167		DOX-0109	
2.0 GTi 16V 4WD	Petrol	106	4G63 (DOHC 16V)	06/88-05/91	M			DOX-1167		DOX-0109	
GALANT IV (87-93)											
1.8	Petrol	66	4G37	11/88-10/92				DOX-1003		DOX-0123	
1.8	Petrol	66	4G37	11/88-10/92				DOX-1432		DOX-0125	
2.0	Petrol	80	4G63 (SOHC 8V)	04/89-10/92				DOX-1431		DOX-0123	
2.0	Petrol	80	4G63 (SOHC 8V)	04/89-10/92				DOX-1432		DOX-0125	
2.0 4WD	Petrol	80	4G63 (SOHC 8V)	04/89-10/92	M			DOX-1431		DOX-0123	
2.0 4WD	Petrol	80	4G63 (SOHC 8V)	04/89-10/92	M			DOX-1432		DOX-0125	
2.0 GTI 16V	Petrol	106	4G63 (DOHC 16V)	11/88-05/90	M			DOX-1167		DOX-0109	
2.0 GTI 16V 4x4	Petrol	106	4G63 (DOHC 16V)	11/89-05/91	M			DOX-1167		DOX-0109	
GALANT V (92-96)											
1.8	Petrol	85	4G93	02/94-08/96				DOX-1163		DOX-0109	
1.8 GLSI	Petrol	93	4G93 (GDI)	11/92-08/96				DOX-1163		DOX-0109	
2.0	Petrol	90	4G63 (SOHC 8V)	04/93-03/95	A			DOX-1163		DOX-0109	
2.0 GLSI	Petrol	101	4G63 (SOHC 8V)	11/92-08/96	M			DOX-1163		DOX-0109	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MITSUBISHI *continued*											
GALANT V (92-96) *continued*											
2.0 GLSI 4WD	Petrol	101	4G63 (SOHC 8V)	11/92-08/96	M			DOX-1438		DOX-0109	
2.0 V6-24	Petrol	110	6A12	11/92-08/96						DOX-0109	
2.5 V6-24 4WD	Petrol	125	6G73	11/92-08/96	M			DOX-1438		DOX-0109	
GALANT VI (96-04)											
2.0	Petrol	100	4G63 (SOHC 16V)	09/96-02/00				DOX-1438		DOX-0109	DOX-0109
2.0	Petrol	98	4G63 (SOHC 16V)	09/00-05/03				DOX-0340	DOX-0345	DOX-0113	DOX-0109
2.4 GDI	Petrol	106	4G64 (GDI)	09/00-05/03				DOX-0346	DOX-0345	DOX-0113	DOX-0109
2.4 GDI	Petrol	110	4G64 (GDI)	02/99-02/00				DOX-1436		DOX-0109	DOX-0109
2.5 V6 24V	Petrol	118	6A13	09/00-05/03			L		DOX-0342		DOX-0109
2.5 V6 24V	Petrol	118	6A13	09/00-05/03			R	DOX-0313	DOX-0341	DOX-0113	DOX-0109
2.5 V6 24V	Petrol	120	6A13	09/96-02/00				DOX-1438		DOX-0109	DOX-0109
GRANDIS (04-)											
2.4	Petrol	121	4G69	04/04-			L	DOX-0349	DOX-1440	DOX-0113	DOX-0109
2.4	Petrol	121	4G69	04/04-			R	DOX-0335	DOX-1440	DOX-0113	DOX-0109
L 200 (86-96)											
2.6 4WD	Petrol	76	G54B	11/89-05/95	M					DOX-0125	
L 200 (96-07)											
2.0	Petrol	90	4G63 (SOHC 8V)	06/96-06/01	M			DOX-1157		DOX-0119	
2.4 4WD	Petrol	97	4G64 (SOHC 16V)	06/96-12/07	M			DOX-0313	DOX-0344	DOX-0109	DOX-0109
2.4 4WD	Petrol	97	4G64 (SOHC 16V)	06/96-12/07	M			DOX-1161		DOX-0113	
L 300 (80-94)											
2.0	Petrol	64/66	4G63 (SOHC 8V); G63B	11/86-10/88	M			DOX-1430		DOX-0125	
2.0	Petrol	82	4G63 (SOHC 8V)	06/94-05/02	M			DOX-1433		DOX-0109	
2.0	Petrol	82	4G63 (SOHC 8V)	06/94-05/02	M			DOX-1440		DOX-0123	
2.0 i	Petrol	83	4G63 (DOHC 16V)	07/96-08/97	M			DOX-1440		DOX-0109	
L 300 (94-08)											
2.0	Petrol	85	4G63 (DOHC 16V)	07/94-04/00	M			DOX-1433		DOX-0109	
2.0	Petrol	85	4G63 (DOHC 16V)	07/94-04/00	M			DOX-1440		DOX-0123	
L 400 (95-05)											
2.0	Petrol	85	4G63 (SOHC 8V)	06/96-03/01	M			DOX-1157	DOX-0341	DOX-0119	DOX-0109
2.0	Petrol	85	4G63 (SOHC 8V)	06/96-03/01	M			DOX-1433		DOX-0123	
2.0 16V	Petrol	85	4G63 (DOHC 16V)	05/95-02/98	M			DOX-1157		DOX-0119	
2.4	Petrol	97	4G64 (SOHC 16V)	06/96-06/01	M			DOX-1157		DOX-0119	
2.4 i 4WD	Petrol	97	4G64 (SOHC 16V)	05/95-11/98	M			DOX-1157		DOX-0119	
LANCER EVO											
2.0 16V EVO	Petrol	206	4G63 Turbo	01/98-09/00	M			DOX-0314		DOX-0109	
LANCER III (83-92)											
1.5	Petrol	55	4G15	09/85-05/86	M			DOX-1431		DOX-0125	
1.5	Petrol	55	4G15	09/85-12/87				DOX-1003		DOX-0125	
1.5 12V	Petrol	66	4G15 (12V)	09/90-12/91				DOX-1433		DOX-0123	
1.8 4WD	Petrol	63	4G37	03/89-05/90	M			DOX-1003		DOX-0125	
1.8 4WD	Petrol	69	4G37	08/90-06/92	M			DOX-1432		DOX-0123	
LANCER IV (88-94)											
1.3	Petrol	44	4G13 (8V)	06/90-05/92	M			DOX-1433		DOX-0123	
1.3 12V	Petrol	55	4G13 (12V)	07/90-05/94	M			DOX-1060		DOX-0119	
1.3 12V	Petrol	55	4G13 (12V)	07/90-05/94	M			DOX-1433		DOX-0123	
1.5	Petrol	62	4G15	06/91-05/92				DOX-1433		DOX-0123	
1.5 12V	Petrol	66	4G15 (12V)	05/89-05/92				DOX-1432		DOX-0123	
1.5 12V	Petrol	66	4G15 (12V)	05/89-05/92				DOX-1433		DOX-0123	
1.6 16V	Petrol	83	4G92	06/92-05/94				DOX-1163		DOX-0109	
1.6 4WD	Petrol	84	4G92	06/92-11/93	M			DOX-1163		DOX-0109	
1.6 GTi	Petrol	91	4G61	05/88-05/90	M			DOX-1003		DOX-0109	
1.8 4WD	Petrol	71	4G37	09/89-06/92	M			DOX-1003		DOX-0125	
1.8 GTi 16V	Petrol	100	4G67	11/89-05/92	M			DOX-1003		DOX-0109	
1.8 GTi 16V	Petrol	103	4G93	06/92-12/93	M			DOX-1163		DOX-0109	
LANCER V (92-96)											
1.3	Petrol	55	4G13 (12V)	06/92-12/96	M			DOX-1060		DOX-0119	
1.6 16V	Petrol	83	4G92	06/92-12/96				DOX-1163		DOX-0109	
1.6 16V 4WD	Petrol	83	4G92	06/92-11/93	M			DOX-1163		DOX-0109	
1.8 16V	Petrol	103	4G93	06/92-12/93	M			DOX-1163		DOX-0109	
LANCER V (92-03)											
1.6 16V	Petrol	83	4G92	12/92-06/00				DOX-1163	DOX-0345	DOX-0109	DOX-0109
1.6 16V	Petrol	83	4G92	12/94-06/00	M			DOX-1163		DOX-0109	DOX-0109
LANCER VI (95-04)											
1.6 16V	Petrol	66	4G92	12/97-06/01	M			DOX-1441		DOX-0109	
1.6 16V	Petrol	66	4G92	12/97-06/01	M			DOX-1447			

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MITSUBISHI *continued*											
LANCER VII (03-07)											
2.0	Petrol	99	4G63 (DOHC 16V)	09/03-	M				DOX-1437		DOX-0109
OUTLANDER (03-06)											
2.0	Petrol	100	4G63 (DOHC 16V)	05/03-10/06	M				DOX-1439		DOX-0109
2.0 4WD	Petrol	100	4G63 (DOHC 16V)	05/03-10/06	M				DOX-1439		DOX-0109
2.0 Turbo 4WD	Petrol	148	4G63 T (DOHC 16V)	04/04-10/06	M			DOX-0315	DOX-1439	DOX-0113	DOX-0109
2.4 4WD	Petrol	118	4G69	11/03-10/06			L	DOX-0349	DOX-0314	DOX-0113	DOX-0109
2.4 4WD	Petrol	118	4G69	11/03-10/06			R	DOX-0335	DOX-0314	DOX-0113	DOX-0109
2.4 4WD	Petrol	119	4G69	09/03-10/06	A		L	DOX-0349	DOX-0314	DOX-0113	DOX-0109
2.4 4WD	Petrol	119	4G69	09/03-10/06	A		R	DOX-0335	DOX-0314	DOX-0113	DOX-0109
OUTLANDER (06-)											
3.0 4WD	Petrol	162	6B31	11/06-05/09	A		L		DOX-1160	DOX-0113	DOX-0109
3.0 4WD	Petrol	162	6B31	11/06-05/09	A		R		DOX-1170	DOX-0113	DOX-0109
PAJERO I (82-91)											
3.0 i 4WD	Petrol	105	6G72 (SOHC 12V)	11/88-05/91						DOX-0123	
3.0 V6	Petrol	104	6G72 (SOHC 12V)	11/88-11/90						DOX-0123	
PAJERO II (90-00)											
2.4	Petrol	82	4G64 (12V)	04/91-05/94	M					DOX-0123	
3.0 V6	Petrol	110	6G72 (SOHC 12V)	11/93-05/94				DOX-1157		DOX-0109	
3.0 V6 24V	Petrol	130	6G72 (SOHC 24V)	06/97-10/99						DOX-0109	
3.0 V6 24V	Petrol	130	6G72 (SOHC 24V)	06/97-10/99	A			DOX-1160		DOX-0109	
3.0 V6 24V	Petrol	130	6G72 (SOHC 24V)	06/97-10/99	M			DOX-1161		DOX-0109	
3.0 V6 24V	Petrol	133	6G72 (SOHC 24V)	06/94-04/00						DOX-0109	
3.0 V6 24V	Petrol	133	6G72 (SOHC 24V)	06/94-04/00	A			DOX-1160		DOX-0109	
3.0 V6 24V	Petrol	133	6G72 (SOHC 24V)	06/94-04/00	M			DOX-1157		DOX-0119	
3.0 V6 24V	Petrol	133	6G72 (SOHC 24V)	06/94-04/00	M			DOX-1161		DOX-0109	
3.0 V6 4WD	Petrol	110	6G72 (SOHC 12V)	10/91-05/94				DOX-1157		DOX-0119	
3.5 V6 24V	Petrol	143	6G74	07/97-10/99				DOX-1160	DOX-1170	DOX-0109	DOX-0109
3.5 V6 24V	Petrol	153	6G74B	06/94-05/97				DOX-1160		DOX-0109	
PAJERO III (00-07)											
3.5 V6 GDI	Petrol	149	6G74B	04/00-05/01	A			DOX-0336		DOX-0109	
3.5 V6 GDI	Petrol	149	6G74B	04/00-08/06				DOX-0335	DOX-0344	DOX-0113	DOX-0109
PAJERO IV (06-)											
3.8 V6	Petrol	182/184	6G75	02/07-	A		L		DOX-1161	DOX-0113	DOX-0109
3.8 V6	Petrol	182/184	6G75	02/07-	A		R		DOX-1170	DOX-0113	DOX-0109
PAJERO PININ											
1.8	Petrol	84	4G93	11/01-06/05					DOX-0337		DOX-0109
1.8 GDI	Petrol	88	4G93 (GDI)	10/99-06/05				DOX-0341		DOX-0109	
2.0 GDI	Petrol	95	4G94 (GDI)	10/00-06/05				DOX-0313	DOX-0337	DOX-0113	DOX-0109
PAJERO SPORT (97-09)											
3.0 V6	Petrol	125	6G72 (SOHC 24V)	06/00-02/09			L		DOX-0344		DOX-0109
3.0 V6	Petrol	125	6G72 (SOHC 24V)	06/00-02/09			R	DOX-0343	DOX-0336	DOX-0113	DOX-0109
3.0 V6	Petrol	130	6G72 (SOHC 24V)	11/98-08/99	M			DOX-1441		DOX-0109	
3.0 V6	Petrol	130	6G72 (SOHC 24V)	11/98-05/00						DOX-0109	
3.0 V6	Petrol	130	6G72 (SOHC 24V)	09/99-05/00	A			DOX-0344		DOX-0109	
3.0 V6	Petrol	130	6G72 (SOHC 24V)	06/00-02/09	A		L		DOX-0344		DOX-0109
3.0 V6	Petrol	130	6G72 (SOHC 24V)	06/00-02/09	A		R	DOX-0343	DOX-0336	DOX-0113	DOX-0109
SIGMA (90-96)											
3.0	Petrol	125	6G72 (SOHC 12V)	06/92-10/94						DOX-0109	
3.0 V6	Petrol	130/151	6G72 (DOHC 24V); 6G72 (SOHC 12V)	12/92-05/94						DOX-0109	
SPACE RUNNER (91-99)											
1.8	Petrol	85	4G93	06/96-08/99				DOX-1163		DOX-0109	
1.8	Petrol	90	4G93	10/91-08/99				DOX-1016		DOX-0109	
1.8	Petrol	90	4G93	10/91-08/99				DOX-1163		DOX-0123	
1.8 4WD	Petrol	85	4G93	06/96-08/99	M			DOX-1163		DOX-0109	
1.8 4WD	Petrol	90	4G93	10/91-08/99	M			DOX-1016		DOX-0109	
1.8 4WD	Petrol	90	4G93	10/91-08/99	M			DOX-1163		DOX-0123	
SPACE RUNNER (99-02)											
2.0	Petrol	100	4G63 (DOHC 16V)	08/99-08/02				DOX-0311	DOX-0312	DOX-0109	DOX-0109
2.0	Petrol	100	4G63 (DOHC 16V)	08/99-08/02				DOX-0347	DOX-0345	DOX-0113	DOX-0109
2.4 GDI	Petrol	110	4G64 (GDI)	08/99-08/02				DOX-0311	DOX-0312	DOX-0109	DOX-0109
2.4 GDI	Petrol	110	4G64 (GDI)	08/99-08/02				DOX-0347	DOX-0345	DOX-0113	DOX-0109
SPACE STAR											
1.3 16V	Petrol	60	4G13 (16V)	09/00-03/01	M			DOX-0313	DOX-0421	DOX-0113	DOX-0109
1.3 16V	Petrol	61	4G13 (16V)	12/98-05/00	M					DOX-0114	DOX-0114
1.3 16V	Petrol	63	4G13 (16V)	06/98-06/04	M			DOX-0313	DOX-0421	DOX-0113	DOX-0109
1.3 16V	Petrol	63	4G13 (16V)	06/98-06/04	M					DOX-0114	DOX-0114
1.6 16V	Petrol	72	4G18	01/01-06/04				DOX-0313	DOX-0421	DOX-0113	DOX-0109

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
MITSUBISHI *continued*											
SPACE STAR *continued*											
1.8 GDI	Petrol	87	4G93 (GDI)	10/98-05/00	M			DOX-1359		DOX-0114	
1.8 GDI	Petrol	90	4G93 (GDI)	10/98-05/00	M			DOX-1359		DOX-0114	
1.8 GDI	Petrol	90	4G93 (GDI)	06/00-08/02				DOX-0422	DOX-0420	DOX-0113	DOX-0109
1.8 MPI	Petrol	82	4G93	10/02-06/04	A				DOX-0421		DOX-0109
SPACE WAGON (84-92)											
2.0 GLX	Petrol	62	G63B	06/86-05/88	M			DOX-1431		DOX-0125	
2.0 GLXi	Petrol	74	4G63 (SOHC 8V)	06/88-04/91				DOX-1430		DOX-0125	
2.0 GLXi 4WD	Petrol	74	4G63 (SOHC 8V)	06/88-04/91	M			DOX-1430		DOX-0125	
SPACE WAGON (91-98)											
1.8	Petrol	90	4G93	10/91-05/92				DOX-1016		DOX-0123	
1.8 4WD	Petrol	90	4G93	10/91-05/92				DOX-1016		DOX-0123	
2.0	Petrol	98	4G63 (DOHC 16V)	10/92-10/98				DOX-1163		DOX-0109	DOX-0109
2.0 4WD	Petrol	98	4G63 (DOHC 16V)	10/92-10/98				DOX-1163		DOX-0109	
2.4 i	Petrol	102	4G64 (SOHC 16V)	10/92-05/96				DOX-1163		DOX-0109	DOX-0109
SPACE WAGON (98-04)											
2.0 GDI	Petrol	98	4G63 (DOHC 16V)	04/02-01/04	M			DOX-0347	DOX-0345	DOX-0113	DOX-0109
2.4 GDI	Petrol	108	4G64 (GDI)	09/00-01/04	A			DOX-0347	DOX-0345	DOX-0113	DOX-0109
2.4 GDI	Petrol	110	4G64 (GDI)	10/98-04/02	A			DOX-0347	DOX-0312	DOX-0113	DOX-0109
2.4 GDI 4WD	Petrol	108	4G64 (GDI)	09/00-04/02	M			DOX-0347	DOX-0345	DOX-0113	DOX-0109
2.4 GDI 4WD	Petrol	110	4G64 (GDI)	10/98-01/04	M			DOX-0311	DOX-0312	DOX-0109	DOX-0109
2.4 GDI 4WD	Petrol	110	4G64 (GDI)	10/98-01/04	M			DOX-0347	DOX-0345	DOX-0113	DOX-0109
NISSAN											
100 NX (90-94)											
1.6	Petrol	66	GA16DS	10/90-10/92				DOX-1008		DOX-0125	
1.6 SR	Petrol	75	GA16DE	09/93-10/94						DOX-0116	
ALMERA (95-00)											
1.4	Petrol	64	GA14DE	09/95-03/00	M					DOX-0116	
1.4 GX,LX	Petrol	55	GA14DE	09/95-01/00	M					DOX-0116	
1.4 S,GX,LX	Petrol	55	GA14DE	09/95-03/00	M					DOX-0116	
1.6	Petrol	73/75	GA16DE	07/95-03/00						DOX-0116	
1.6 SLX	Petrol	66	GA16DE	09/95-01/00						DOX-0116	
1.6 SR,SLX	Petrol	66	GA16DE	09/95-03/00						DOX-0116	
ALMERA (00-)											
1.5	Petrol	66	QG15DE	03/00-01/03	M			DOX-1378	DOX-1367	DOX-0115	DOX-0119
1.5	Petrol	66	QG15DE	03/00-01/03	M			DOX-1379	DOX-1380	DOX-0150	DOX-0120
1.5	Petrol	66	QG15DE	03/00-01/03	M			DOX-2014		DOX-0150	
1.5	Petrol	72	QG15DE	02/03-11/06	M			DOX-2014	DOX-1380	DOX-0121	DOX-0119
1.5	Petrol	72	QG15DE	02/03-11/06	M					DOX-0150	
1.8	Petrol	84	QG18DE	01/00-01/03				DOX-1378	DOX-1367	DOX-0115	DOX-0119
1.8	Petrol	84	QG18DE	01/00-01/03				DOX-1379	DOX-1380	DOX-0150	DOX-0120
1.8	Petrol	84	QG18DE	01/00-01/03				DOX-2014		DOX-0150	
1.8	Petrol	85	QG18DE	02/03-11/06				DOX-2014	DOX-1380	DOX-0121	DOX-0119
1.8	Petrol	85	QG18DE	02/03-11/06						DOX-0150	
ALMERA TINO (00-)											
1.8	Petrol	84	QG18DE	08/00-01/03	M			DOX-1378	DOX-1367	DOX-0115	DOX-0120
1.8	Petrol	84	QG18DE	08/00-01/03	M			DOX-1379		DOX-0115	
1.8	Petrol	85	QG18DE	12/02-11/05				DOX-2014	DOX-1380	DOX-0150	DOX-0119
BLUEBIRD (83-92)											
1.8 i 16V	Petrol	95	CA18D	02/89-12/90	M			DOX-1008		DOX-0125	
2.0 i	Petrol	77	CA20E	12/85-12/90				DOX-1006		DOX-0125	
2.0 i	Petrol	77	CA20E	12/85-12/90				DOX-1008		DOX-0125	
2.0 i	Petrol	85	CA20E	09/88-09/90	A			DOX-1006		DOX-0125	
2.0 i	Petrol	85	CA20E	09/88-09/90	A			DOX-1008		DOX-0125	
BLUEBIRD (85-90)											
1.8 i 16V	Petrol	95	CA18D	02/89-12/90	M			DOX-1008		DOX-0125	
2.0	Petrol	75	CA20S	12/85-12/87				DOX-1006		DOX-0125	
2.0	Petrol	75	CA20S	12/85-12/87				DOX-1008		DOX-0125	
2.0 i	Petrol	77	CA20E	12/85-12/90				DOX-1006		DOX-0125	
2.0 i	Petrol	77	CA20E	12/85-12/90				DOX-1008		DOX-0125	
MICRA (82-92)											
1.2	Petrol	40/44	MA12S	07/86-07/92	M			DOX-1006		DOX-0125	
1.2	Petrol	40/44	MA12S	07/86-07/92	M			DOX-1008		DOX-0125	
1.2	Petrol	44	MA12S	07/86-07/92				DOX-1008		DOX-0125	
MICRA (92-03)											
1.0 i 16V	Petrol	40	CG10DE	08/92-09/00						DOX-0115	
1.0 i 16V	Petrol	44	CG10DE	09/00-02/03						DOX-0114	DOX-0114
1.3 i 16V	Petrol	55	CG13DE	08/92-09/00						DOX-0115	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
NISSAN *continued*											
MICRA (92-03) *continued*											
1.4 i 16V	Petrol	60	CGA3DE	09/00-02/03						DOX-0114	DOX-0114
MICRA (03-10)											
1.0 16V	Petrol	48	CG10DE	01/03-05/05	M			DOX-2014	DOX-1366	DOX-0121	DOX-0120
1.0 16V	Petrol	48	CG10DE	01/03-05/05	M					DOX-0150	
1.2 16V	Petrol	48	CR12DE	06/05-06/10	M				DOX-2014		DOX-0150
1.2 16V	Petrol	48/59	CG12DE	01/03-05/05				DOX-2014	DOX-1366	DOX-0121	DOX-0120
1.2 16V	Petrol	48/59	CG12DE	01/03-05/05						DOX-0150	
1.2 16V	Petrol	59	CR12DE	06/05-06/10					DOX-2014		DOX-0150
1.4 16V	Petrol	65	CR14DE	01/03-06/10				DOX-2014	DOX-1366	DOX-0121	DOX-0120
1.4 16V	Petrol	65	CR14DE	01/03-06/10					DOX-2014	DOX-0150	DOX-0150
MICRA C+C (05-)											
1.4 16V	Petrol	65	CR14DE	08/05-04/09	M				DOX-2014		DOX-0150
NOTE (06-)											
1.4	Petrol	65	CR14DE	03/06-	M				DOX-2014		DOX-0150
PATHFINDER (05-)											
4.0 4WD	Petrol	198	VQ40DE	09/05-09/06	A		L		DOX-2014		DOX-0150
PRAIRIE PRO											
2.0 i	Petrol	72	CA20E	10/88-04/92				DOX-1006		DOX-0125	
2.0 i	Petrol	72	CA20E	10/88-04/92				DOX-1008		DOX-0125	
2.0 i 4x4	Petrol	72	CA20E	10/88-03/92				DOX-1006		DOX-0125	
2.0 i 4x4	Petrol	72	CA20E	10/88-03/92				DOX-1008		DOX-0125	
2.4 i	Petrol	98	KA24E	04/92-07/94				DOX-1008		DOX-0125	
2.4 i 4x4	Petrol	98	KA24E	04/92-07/94	M			DOX-1008		DOX-0125	
PRIMERA (90-98)											
1.6	Petrol	71/75	GA16DE; GA16DS	06/90-01/96	M					DOX-0116	
1.6 i	Petrol	66	GA16DS	07/90-04/93	M			DOX-1008		DOX-0125	
1.6 i	Petrol	75	GA16DE	03/94-03/98	M					DOX-0116	
PRIMERA (96-02)											
1.6 16V	Petrol	66/73/78	GA16DE; QG16DE	06/96-07/02	M					DOX-0116	
1.8 16V	Petrol	84	QG18DE	08/99-02/02	M			DOX-1378		DOX-0115	DOX-0120
1.8 16V	Petrol	84	QG18DE	08/99-02/02	M			DOX-1379		DOX-0115	
2.0 16V	Petrol	103	SR20DE	03/01-12/01	A			DOX-1379		DOX-0115	
2.0 16V	Petrol	103	SR20DE	09/01-02/02	M						DOX-0120
2.0 16V	Petrol	110	SR20DE	09/96-02/02	M			DOX-1379		DOX-0115	DOX-0120
2.0 16V	Petrol	110	SR20DE	09/96-02/02	M					DOX-0116	
2.0 16V	Petrol	85	SR20De	06/96-02/02	A			DOX-1379		DOX-0115	DOX-0120
2.0 16V	Petrol	85	SR20De	06/96-02/02	A					DOX-0116	
2.0 16V	Petrol	96	SR20DE	09/96-02/02				DOX-1379		DOX-0115	DOX-0120
2.0 16V	Petrol	96	SR20DE	09/96-02/02						DOX-0116	
PRIMERA (02-)											
1.6	Petrol	78/80	QG16DE	01/02-	M			DOX-2014	DOX-1380	DOX-0121	DOX-0119
1.6	Petrol	78/80	QG16DE	01/02-	M					DOX-0150	
1.6 Visia	Petrol	80	QG16DE	01/02-	M			DOX-2014	DOX-1380	DOX-0121	DOX-0119
1.6 Visia	Petrol	80	QG16DE	01/02-	M					DOX-0150	
1.8	Petrol	85	QG18DE	03/02-				DOX-2014	DOX-1380	DOX-0121	DOX-0119
1.8	Petrol	85	QG18DE	03/02-						DOX-0150	
2.0	Petrol	103	QR20DE	03/02-06/06						DOX-0121	DOX-0119
2.0	Petrol	103	QR20DE	07/02-06/06	M					DOX-0121	DOX-0119
SUNNY (82-91)											
1.4 LX	Petrol	55	GA14S	10/90-08/91	M			DOX-1008		DOX-0125	
1.6 i 12V	Petrol	66	GA16i	10/88-10/90				DOX-1008		DOX-0125	
1.6 i 12V 4x4	Petrol	66	GA16i	10/88-08/90	M			DOX-1008		DOX-0125	
1.8 GTI 16V	Petrol	92	CA18D	01/89-10/90	M			DOX-1008		DOX-0125	
SUNNY (90-03)											
1.4 i	Petrol	55	GA14DS	10/90-05/95				DOX-1008		DOX-0125	
1.4 i 16V	Petrol	64	GA14DE	10/90-06/95						DOX-0116	
1.4 i 16V	Petrol	64	GA14DE	10/90-06/95	M					DOX-0116	
1.6	Petrol	75	GA16DE	07/95-12/96	M					DOX-0116	
1.6 i	Petrol	66	GA16DS	10/90-05/95				DOX-1008		DOX-0125	
1.6 i	Petrol	66	GA16DS	06/91-07/95	M			DOX-1008		DOX-0125	
1.6 i 16V	Petrol	66	GA16DE	10/92-07/95	M			DOX-1008		DOX-0125	
1.6 i 16V	Petrol	75	GA16DE	10/92-05/95						DOX-0116	
1.6 i 16V 4WD	Petrol	66	GA16DS	10/90-05/95	M			DOX-1008		DOX-0116	
1.6 i 16V 4WD	Petrol	66	GA16DS	10/90-05/95	M					DOX-0125	
1.6 i 16V 4x4	Petrol	75	GA16DE	10/92-12/96	M					DOX-0116	
1.6 L	Petrol	75	GA16DE	11/92-04/96	M					DOX-0116	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
NISSAN *continued*											
TERRANO I											
2.4 i 4WD	Petrol	76	Z24i	10/87-02/93	M			DOX-1008		DOX-0125	
VANETTE (86-95)											
2.4 i	Petrol	74/77	Z24i	10/86-03/93	M			DOX-1006		DOX-0125	
2.4 i	Petrol	74/77	Z24i	10/86-03/93	M			DOX-1008		DOX-0125	
X-TRAIL (01-07)											
2.0 4x4	Petrol	103	QR20DE	07/01-03/07						DOX-0121	DOX-0119
2.5 4x4	Petrol	121	QR25DE	09/03-03/07						DOX-0121	DOX-0119
X-TRAIL (07-)											
2.5	Petrol	124	QR25DE	06/07-07/10				DOX-1447			
OPEL											
AGILA (00-07)											
1.0	Petrol	44	Z 10 XEP	08/03-12/07	M				DOX-2050		DOX-0150
1.0	Petrol	44	Z 10 XEP	08/03-12/07	M	Ch: >5G999999		DOX-2003		DOX-0150	
1.0	Petrol	44	Z 10 XEP	08/03-12/07	M	Ch: 6G000001>		DOX-2050		DOX-0150	
1.0 12V	Petrol	43	Z 10 XE	09/00-07/03	M			DOX-2040	DOX-2050	DOX-0150	DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-08/04	M			DOX-2040	DOX-2050	DOX-0150	DOX-0150
1.2 16V Twinport	Petrol	59	Z 12 XEP	07/04-12/07	M			DOX-2050	DOX-2050	DOX-0150	DOX-0150
ASTRA F (91-01)											
1.4	Petrol	60	14 SE	09/92-01/98				DOX-1000		DOX-0125	
1.4 i	Petrol	44	C 14 NZ; C14NZ	09/91-01/98	M			DOX-1000		DOX-0125	
1.4 i 16V	Petrol	66	X 14 XE	01/96-03/01				DOX-1000		DOX-0125	
1.4 Si	Petrol	60	C 14 SE	03/92-03/01				DOX-1000		DOX-0125	
1.6	Petrol	55	16 LZ2; 16 NZR	09/95-09/98				DOX-1000		DOX-0125	
1.6 i	Petrol	52	X 16 SZ	07/95-08/96		Ch: S2531219>		DOX-1000		DOX-0125	
1.6 i	Petrol	52	X 16 SZ	07/95-08/96		Ch: S5223657>		DOX-1000		DOX-0125	
1.6 i	Petrol	52/55	C16NZ; X 16 SZ; X 16 SZR; X16SZR	09/91-03/01				DOX-1000		DOX-0125	
1.6 i	Petrol	55	C 16 NZ; X16SZR	09/91-01/98	M			DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	08/94-01/98						DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	08/94-01/98		Ch: >S2531218				DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	08/94-01/98		Ch: >S5223656				DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	08/94-01/98	A			DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	07/95-01/98		Ch: S2531219>		DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	07/95-01/98		Ch: S5223657>		DOX-1000		DOX-0125	
1.6 Si	Petrol	74	C 16 SE	03/92-12/94				DOX-1000		DOX-0125	
1.8 i	Petrol	66	C 18 NZ	09/91-08/94				DOX-1000		DOX-0125	
2.0 GSI 16V	Petrol	110	C 20 XE	07/94-01/98	M					DOX-0115	
2.0 i	Petrol	85	C 20 NE	09/91-01/98				DOX-1500		DOX-0115	
2.0 i 16V	Petrol	110	C 20 XE	07/94-01/98	M					DOX-0115	
ASTRA F CLASSIC (98-05)											
1.4 i	Petrol	44	X 14 NZ	01/98-12/02	M			DOX-1000		DOX-0125	
1.6 i	Petrol	55	X 16 SZR	09/98-12/02	M			DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	09/98-12/02	M			DOX-1000		DOX-0125	
ASTRA G (98-09)											
1.2 16V	Petrol	48	X 12 XE	02/98-09/00				DOX-1553		DOX-0117	
1.2 16V	Petrol	55	Z 12 XE	09/00-02/04	M			DOX-2040	DOX-2050	DOX-0150	DOX-0150
1.4 16V	Petrol	66	X14XE	02/98-09/00				DOX-1598		DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-06/01		Ch: >12999999		DOX-1598		DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-06/01		Ch: >15999999		DOX-1598		DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-06/01		Ch: >16999999		DOX-1598		DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-06/01		Ch: >18999999		DOX-1598		DOX-0114	
1.4 16V	Petrol	66	X14XE	07/02-02/04		Ch: 22000001>				DOX-0114	
1.4 16V	Petrol	66	X14XE	07/02-02/04		Ch: 25000001>				DOX-0114	
1.4 16V	Petrol	66	X14XE	07/02-02/04		Ch: 26000001>				DOX-0114	
1.4 16V	Petrol	66	X14XE	07/02-02/04		Ch: 28000001>				DOX-0114	
1.4 16V	Petrol	66	Z14XE	02/98-06/01		Ch: >12999999					DOX-0114
1.4 16V	Petrol	66	Z14XE	02/98-06/01		Ch: >15999999					DOX-0114
1.4 16V	Petrol	66	Z14XE	02/98-06/01		Ch: >16999999					DOX-0114
1.4 16V	Petrol	66	Z14XE	02/98-06/01		Ch: >18999999					DOX-0114
1.4 16V	Petrol	66	Z14XE	02/98-02/04						DOX-0114	
1.4 16V	Petrol	66	Z14XE	09/00-07/04		Ch: 22000001>			DOX-1575		DOX-0114
1.4 16V	Petrol	66	Z14XE	09/00-07/04		Ch: 25000001>			DOX-1575		DOX-0114
1.4 16V	Petrol	66	Z14XE	09/00-07/04		Ch: 28000001>			DOX-1575		DOX-0114
1.4 16V	Petrol	66	Z14XE	07/02-02/04		Ch: 26000001>					DOX-0114
1.6	Petrol	55	X 16 SZR	02/98-09/00				DOX-1000		DOX-0125	
1.6	Petrol	55	X 16 SZR	02/98-09/00		Ch: 25000001>		DOX-1000		DOX-0125	
1.6	Petrol	55	X 16 SZR	02/98-09/00		Ch: 26000001>				DOX-0125	
1.6	Petrol	55	X 16 SZR	09/98-09/00	M			DOX-1000		DOX-0125	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
OPEL *continued*											
ASTRA G (98-09) *continued*											
1.6	Petrol	62	Z 16 SE	09/00-06/01		Ch: >12999999					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-06/01		Ch: >15999999					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-06/01		Ch: >16999999					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-06/01		Ch: >18999999					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-02/04		Ch: 22000001>					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-02/04		Ch: 25000001>					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-02/04		Ch: 26000001>					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-02/04		Ch: 28000001>					DOX-0114
1.6	Petrol	62	Z 16 SE	09/00-01/05				DOX-1574		DOX-0114	
1.6	Petrol	62	Z 16 SE	09/00-01/05	M			DOX-1574	DOX-1574	DOX-0114	DOX-0114
1.6	Petrol	76	Z 16 XEP	12/02-10/05	M				DOX-2003		DOX-0150
1.6 16V	Petrol	74	X16XEL	02/98-06/01		Ch: >12999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01		Ch: >15999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01		Ch: >16999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01		Ch: >18999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-02/04				DOX-1575		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-02/04				DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-02/04		Ch: 22000001>				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-02/04		Ch: 25000001>				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-02/04		Ch: 26000001>				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-02/04		Ch: 28000001>		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	Z 16 XE	03/01-06/01	M	Ch: >12999999					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	03/01-06/01	M	Ch: >15999999					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	03/01-06/01	M	Ch: >16999999					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	03/01-06/01	M	Ch: >18999999					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	03/01-10/05	M					DOX-0114	
1.6 16V	Petrol	74	Z 16 XE	07/02-10/05	M	Ch: 22000001>					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	07/02-10/05	M	Ch: 25000001>					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	07/02-10/05	M	Ch: 26000001>					DOX-0114
1.6 16V	Petrol	74	Z 16 XE	07/02-10/05	M	Ch: 28000001>					DOX-0114
1.6 16V	Petrol	74	Z 16 XE; Z16XE	02/98-10/05		Ch: 22000001>		DOX-1575		DOX-0114	DOX-0114
1.6 16V	Petrol	74	Z 16 XE; Z16XE	02/98-10/05		Ch: 25000001>		DOX-1575		DOX-0114	DOX-0114
1.6 16V	Petrol	74	Z 16 XE; Z16XE	02/98-10/05		Ch: 26000001>		DOX-1575		DOX-0114	DOX-0114
1.6 16V	Petrol	74	Z 16 XE; Z16XE	02/98-10/05		Ch: 28000001>		DOX-1575		DOX-0114	DOX-0114
1.6 16V	Petrol	74	Z16XE	02/98-06/01		Ch: >12999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	02/98-06/01		Ch: >15999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	02/98-06/01		Ch: >16999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	02/98-06/01		Ch: >18999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	02/98-02/04						DOX-0114	
1.6 16V	Petrol	76	Z 16 XEP	03/00-06/01	M	Ch: >12999999					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	03/00-06/01	M	Ch: >15999999					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	03/00-06/01	M	Ch: >16999999					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	03/00-06/01	M	Ch: >18999999					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	03/00-05/05	M				DOX-2003	DOX-0114	DOX-0150
1.6 16V	Petrol	76	Z 16 XEP	07/02-01/03	M	Ch: 22000001>					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	07/02-01/03	M	Ch: 25000001>					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	07/02-01/03	M	Ch: 26000001>					DOX-0114
1.6 16V	Petrol	76	Z 16 XEP	07/02-01/03	M	Ch: 28000001>					DOX-0114
1.6 CNG	Petrol/Natural Gas (CNG)	71	Z 16 YNG	03/03-02/04	M					DOX-0114	DOX-0114
1.6 CNG	Petrol/Natural Gas (CNG)	71	Z 16 YNG	03/03-07/04					DOX-1575		DOX-0114
1.6 LPG	Petrol/Petroleum Gas (LPG)	74	Z 16 XE	06/02-01/04		Ch: 22000001>		DOX-1575		DOX-0114	
1.6 LPG	Petrol/Petroleum Gas (LPG)	74	Z 16 XE	06/02-01/04		Ch: 25000001>		DOX-1575		DOX-0114	
1.6 LPG	Petrol/Petroleum Gas (LPG)	74	Z 16 XE	06/02-01/04		Ch: 26000001>		DOX-1575		DOX-0114	
1.6 LPG	Petrol/Petroleum Gas (LPG)	74	Z 16 XE	06/02-01/04		Ch: 28000001>		DOX-1575		DOX-0114	
2.0 16V Turbo	Petrol	140/141	Z 20 LET	09/00-10/02	M			DOX-2040	DOX-2052	DOX-0150	DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
OPEL *continued*											
ASTRA G (98-09) *continued*											
2.0 OPC	Petrol	141	Z 20 LET	03/02-02/04	M			DOX-2040	DOX-2052	DOX-0150	DOX-0150
2.2 16V	Petrol	108	Z 22 SE	09/00-10/05						DOX-0109	DOX-0109
ASTRA H (04-)											
1.2	Petrol	59	Z 12 XEP	08/05-	M				DOX-2050		DOX-0150
1.2	Petrol	59	Z 12 XEP	07/06-	M	Ch: 62000001>		DOX-2050		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/06-	M	Ch: 65000001>		DOX-2050		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/06-	M	Ch: 68000001>		DOX-2050		DOX-0150	
1.4	Petrol	55	Z 14 XEL	04/04-10/04	M	Ch: >52999999		DOX-2003		DOX-0150	
1.4	Petrol	55	Z 14 XEL	04/04-10/04	M	Ch: >55999999		DOX-2003		DOX-0150	
1.4	Petrol	55	Z 14 XEL	04/04-10/04	M	Ch: >58999999		DOX-2003		DOX-0150	
1.4	Petrol	55	Z 14 XEL	04/04-07/05	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.4	Petrol	66	Z 14 XEP	03/04-06/05	M	Ch: >52999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	03/04-06/05	M	Ch: >55999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	03/04-06/05	M	Ch: >58999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	03/04-	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.4	Petrol	66	Z 14 XEP	07/06-	M	Ch: 62000001>		DOX-2050		DOX-0150	
1.4	Petrol	66	Z 14 XEP	07/06-	M	Ch: 65000001>		DOX-2050		DOX-0150	
1.4	Petrol	66	Z 14 XEP	07/06-	M	Ch: 68000001>		DOX-2050		DOX-0150	
1.6	Petrol	77	Z 16 XEP	03/04-					DOX-2003		DOX-0150
1.6	Petrol	77	Z16XEP	09/05-12/06	M				DOX-2003		DOX-0150
1.6	Petrol	85	A 16 XER; Z 16 XER	12/06-					DOX-1569		DOX-0119
1.6 LPG	Petrol/Petroleum Gas (LPG)	85	Z 16 XER	08/09-					DOX-1569		DOX-0119
1.8	Petrol	103	A 18 XER; Z 18 XER	08/05-					DOX-1569		DOX-0119
2.0 Turbo	Petrol	125/147/177	Z 20 LEH; Z 20 LEL; Z 20 LER	03/04-	M			DOX-2040	DOX-2052	DOX-0150	DOX-0150
CALIBRA											
2.0 i 16V	Petrol	110	C 20 XE	07/93-02/94	M	Ch: P1000346>				DOX-0115	
2.0 i 16V	Petrol	110	C 20 XE	07/93-02/94	M	Ch: P9000001>				DOX-0115	
2.0 i 16V 4x4	Petrol	110	C 20 XE	07/93-02/94	M	Ch: P1000346>				DOX-0115	
2.0 i 16V 4x4	Petrol	110	C 20 XE	07/93-02/94	M	Ch: P9000001>				DOX-0115	
2.0 i Turbo 4x4	Petrol	150	C 20 LET	03/92-07/97	M			DOX-1500		DOX-0115	
2.5 i V6	Petrol	125	C25XE; X25XE	04/93-07/97						DOX-0115	
CAMPO											
2.3	Petrol	69	4 ZD1	08/91-08/94	M			DOX-1000		DOX-0125	
2.3 4x4	Petrol	69	4 ZD1	08/91-08/94	M			DOX-1000		DOX-0125	
COMBO (94-01)											
1.2	Petrol	33	C 12 NZ; X 12 SZ	07/94-10/01	M			DOX-1000		DOX-0125	
1.4	Petrol	44/60	C 14 SE; C14NZ; X14SZ	07/94-10/01	M			DOX-1000		DOX-0125	
1.4 16V	Petrol	66	X 14 XE	08/99-10/01	M			DOX-1000		DOX-0125	
COMBO (01-12)											
1.4	Petrol	66	Z 14 XEP	10/04-	M				DOX-2050		DOX-0150
1.4	Petrol	66	Z 14 XEP	10/04-	M	Ch: >53999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	10/04-	M	Ch: >54999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	10/04-	M	Ch: >56999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	10/04-	M	Ch: 63000001>		DOX-2050		DOX-0150	
1.4	Petrol	66	Z 14 XEP	10/04-	M	Ch: 64000001>		DOX-2050		DOX-0150	
1.4	Petrol	66	Z 14 XEP	10/04-	M	Ch: 66000001>		DOX-2050		DOX-0150	
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M				DOX-2050		DOX-0150
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M	Ch: >53999999		DOX-2003		DOX-0150	
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M	Ch: >54999999		DOX-2003		DOX-0150	
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M	Ch: >56999999		DOX-2003		DOX-0150	
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M	Ch: 63000001>		DOX-2050		DOX-0150	
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M	Ch: 64000001>		DOX-2050		DOX-0150	
1.4 16V	Petrol	66	Z 14 XEP	08/05-	M	Ch: 66000001>		DOX-2050		DOX-0150	
1.6	Petrol	64	Z 16 SE	10/01-08/04				DOX-1575	DOX-1575	DOX-0114	DOX-0114
1.6 CNG	CNG	71	Z 16 YNG	04/05-05/06					DOX-1575		DOX-0114
1.6 CNG 16V	CNG	71	Z 16 YNG	04/05-05/06					DOX-1575		DOX-0114
CORSA A (82-93)											
1.2 i	Petrol	33	C 12 NZ	07/91-03/93	M			DOX-1000		DOX-0125	
1.3	Petrol	44	C13N	09/86-10/87	M			DOX-1000		DOX-0125	
1.3 i	Petrol	44	C 13 N	09/86-09/90	M			DOX-1000		DOX-0125	
1.4 i	Petrol	44	C 14 NZ	07/91-03/93	M			DOX-1000		DOX-0125	
1.4 Si	Petrol	60	C 14 SE	09/91-03/93	M			DOX-1000		DOX-0125	
1.6 GSI	Petrol	55/72	C 16 NZ; C 16 SEI	09/89-03/93	M			DOX-1000		DOX-0125	
1.6 GSI CAT	Petrol	74	C 16 SE	02/92-03/93	M			DOX-1000		DOX-0125	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
OPEL *continued*											
CORSA B (93-)											
1.0 i 12V	Petrol	40	X 10 XE	11/96-09/00				DOX-1553		DOX-0117	
1.2 i	Petrol	33	12 NZ; C 12 NZ; X 12 SZ	03/93-09/00	M			DOX-1000		DOX-0125	
1.2 i 16V	Petrol	48	X 12 XE	03/98-09/00				DOX-1553		DOX-0117	
1.4 i	Petrol	44	C14NZ; X 14 SZ	03/93-09/00				DOX-1000		DOX-0125	
1.4 i	Petrol	44	X14SZ	03/93-09/00	M			DOX-1000		DOX-0125	
1.4 i 16V	Petrol	63	C 14 SEL	08/97-09/00	M			DOX-1000		DOX-0125	
1.4 i 16V	Petrol	66/67	X 14 XE	09/94-				DOX-1000		DOX-0125	
1.4 i 16V	Petrol	66/67	X 14 XE	09/94-				DOX-1504		DOX-0125	
1.4 Si	Petrol	60	C 14 SE	03/93-09/00	M			DOX-1000		DOX-0125	
1.6 GSI 16V	Petrol	80	C 16 XE	03/93-09/00				DOX-1000		DOX-0125	
1.6 GSI 16V	Petrol	80	C 16 XE	03/93-09/00				DOX-1504		DOX-0125	
1.6 i 16V	Petrol	78	X 16 XE	09/94-09/00				DOX-1000		DOX-0125	
1.6 i 16V	Petrol	78	X 16 XE	09/94-09/00				DOX-1504		DOX-0125	
CORSA C (00-09)											
1.0	Petrol	43	Z 10 XE	09/00-08/03	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.0	Petrol	44	Z 10 XEP	06/03-07/06	M			DOX-2050	DOX-2003	DOX-0150	DOX-0150
1.2	Petrol	55	Z 12 XE	09/00-08/04	M			DOX-2040		DOX-0150	
1.2	Petrol	55	Z 12 XE	09/00-08/04	M	Ch: 13025251>			DOX-2050		DOX-0150
1.2	Petrol	55	Z 12 XE	09/00-08/04	M	Ch: 14177497>			DOX-2050		DOX-0150
1.2	Petrol	55	Z 12 XE	09/00-08/04	M	Ch: 16079020>			DOX-2050		DOX-0150
1.2	Petrol	55	Z 12 XE	09/00-12/09	M	Ch: >13025250			DOX-2050		DOX-0150
1.2	Petrol	55	Z 12 XE	09/00-12/09	M	Ch: >14177496			DOX-2050		DOX-0150
1.2	Petrol	55	Z 12 XE	09/00-12/09	M	Ch: >16079019			DOX-2050		DOX-0150
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-07/06	M				DOX-2050		DOX-0150
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-07/06	M	Ch: 63000001>		DOX-2050		DOX-0150	
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-07/06	M	Ch: 64000001>		DOX-2050		DOX-0150	
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-07/06	M	Ch: 66000001>		DOX-2050		DOX-0150	
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-12/09	M	Ch: >53999999		DOX-2003		DOX-0150	
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-12/09	M	Ch: >54999999		DOX-2003		DOX-0150	
1.2 Twinport	Petrol	59	Z 12 XEP	07/04-12/09	M	Ch: >56999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XE	09/00-08/03					DOX-1575	DOX-0114	DOX-0114
1.4	Petrol	66	Z 14 XE	09/00-08/03		Ch: 23000001>					DOX-0114
1.4	Petrol	66	Z 14 XE	09/00-08/03		Ch: 24000001>					DOX-0114
1.4	Petrol	66	Z 14 XE	09/00-08/03		Ch: 26000001>					DOX-0114
1.4	Petrol	66	Z 14 XE	09/00-12/09		Ch: >13999999					DOX-0114
1.4	Petrol	66	Z 14 XE	09/00-12/09		Ch: >14999999					DOX-0114
1.4	Petrol	66	Z 14 XE	09/00-12/09		Ch: >16999999					DOX-0114
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-07/06	M				DOX-2050		DOX-0150
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-07/06	M	Ch: 63000001>		DOX-2050		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-07/06	M	Ch: 64000001>		DOX-2050		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-07/06	M	Ch: 66000001>		DOX-2050		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-12/09	M	Ch: >53999999		DOX-2003		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-12/09	M	Ch: >54999999		DOX-2003		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-12/09	M	Ch: >56999999		DOX-2003		DOX-0150	
CORSA C BOX (00-)											
1.2	Petrol	59	Z 12 XEP	07/05-07/06	M				DOX-2050		DOX-0150
1.2	Petrol	59	Z 12 XEP	07/05-07/06	M	Ch: 63000001>		DOX-2050		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/05-07/06	M	Ch: 64000001>		DOX-2050		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/05-07/06	M	Ch: 66000001>		DOX-2050		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/05-	M	Ch: >53999999		DOX-2003		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/05-	M	Ch: >54999999		DOX-2003		DOX-0150	
1.2	Petrol	59	Z 12 XEP	07/05-	M	Ch: >56999999		DOX-2003		DOX-0150	
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M			DOX-2040		DOX-0150	
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M	Ch: 13025251>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M	Ch: 14177497>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M	Ch: 16079020>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-	M	Ch: >13025250			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-	M	Ch: >14177496			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-	M	Ch: >16079019			DOX-2050		DOX-0150
CORSA D (06-)											
1.0	Petrol	44	Z 10 XEP	07/06-	M				DOX-2050		DOX-0150
1.2	Petrol	59	Z 12 XEP	07/06-	M				DOX-2050		DOX-0150
1.4	Petrol	66	Z 14 XEP	07/06-					DOX-2050		DOX-0150
1.4 LPG	Petrol/Petroleum Gas (LPG)	66	Z 14 XEP	07/06-					DOX-2050		DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
OPEL *continued*											
FRONTERA A (92-98)											
2.0 i	Petrol	85	X20SE	04/95-10/98	M					DOX-0115	
2.2 i	Petrol	100	X 22 XE	03/95-07/98				DOX-1593		DOX-0115	
2.2 i	Petrol	100	X 22 XE	03/95-10/98	M					DOX-0115	
KADETT E (84-94)											
1.3 i CAT	Petrol	44	C 13 N	09/85-08/91	M			DOX-1000		DOX-0125	
1.3 N	Petrol	44	13 N	09/84-08/91	M			DOX-1000		DOX-0125	
1.4 i	Petrol	44	C 14 NZ	01/90-08/91	M			DOX-1000		DOX-0125	
1.6 i	Petrol	55	C 16 NZ	08/89-06/91	A			DOX-1000		DOX-0125	
1.6 i	Petrol	55	C 16 NZ	08/91-03/93				DOX-1000		DOX-0125	
1.6 i	Petrol	55	E 16 NZ	09/86-08/91	M			DOX-1000		DOX-0125	
1.6 i CAT	Petrol	55	C16LZ	09/86-08/91	A			DOX-1000		DOX-0125	
1.6 i CAT	Petrol	55	C16NZ	09/86-08/91				DOX-1000		DOX-0125	
1.8 i	Petrol	66	C 18 NT; C18NZ	09/86-08/91	M			DOX-1000		DOX-0125	
MERIVA (03-10)											
1.4 16V Twinport	Petrol	66	Z 14 XEP	07/04-05/10	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.4 16V Twinport LPG	Petrol/Petroleum Gas (LPG)	66	Z 14 XEP	07/04-05/10	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.6	Petrol	64	Z 16 SE	05/03-08/04	M					DOX-0114	DOX-0114
1.6	Petrol	64	Z 16 SE	05/03-09/05				DOX-1575	DOX-1575	DOX-0114	DOX-0114
1.6	Petrol	77	Z 16 XEP	01/06-05/10	M				DOX-2003		DOX-0150
1.6 16V	Petrol	74	Z 16 XE	05/03-07/04	M					DOX-0114	DOX-0114
1.6 16V	Petrol	74	Z 16 XE	05/03-01/06					DOX-1575		DOX-0114
OMEGA A (86-94)											
2.0	Petrol	73/74	C 20 NEF; C 20 NEJ	09/90-01/92				DOX-1500		DOX-0115	
2.0 i	Petrol	73/85	C 20 NEJ	09/86-03/94				DOX-1500		DOX-0115	
2.0 i	Petrol	85	C 20 NE	09/86-03/94	A			DOX-1500		DOX-0115	
2.6 i	Petrol	110	C 26 NE	09/90-03/94						DOX-0115	
2.6 i	Petrol	110	C 26 NE	09/90-03/94	M			DOX-1500		DOX-0115	
3.0	Petrol	115	C 30 LE	03/87-12/87	A					DOX-0115	
3.0	Petrol	130	C 30 NE	07/89-03/94	M	Ch: K1000472>				DOX-0115	
3.0	Petrol	130	C 30 NE	08/90-03/94	M					DOX-0115	
3.0	Petrol	130	C 30 NE	07/91-03/94	M	Ch: M1000001>				DOX-0115	
3.0 24V	Petrol	147/150	C 30 SEJ	09/89-03/94		Ch: M1000001>		DOX-1500		DOX-0115	
3.0 24V Omega 3000	Petrol	150	C 30 SE	09/88-04/94		Ch: M1000001>		DOX-1500		DOX-0115	
3.0 CAT	Petrol	130	C 30 NE	07/89-03/94	M	Ch: K1000472>				DOX-0115	
3.0 CAT	Petrol	130	C 30 NE	07/91-03/94	M	Ch: M1000001>				DOX-0115	
OMEGA B (94-03)											
2.0	Petrol	85	X 20 SE	03/94-09/99				DOX-1593		DOX-0115	
2.5 V6	Petrol	125	X 25 XE	03/94-09/00				DOX-1593		DOX-0115	
2.5 V6	Petrol	125	X 25 XE	03/94-09/00			L/R			DOX-0115	
2.6 V6	Petrol	132	Y 26 SE	09/00-07/03			L/R			DOX-0150	DOX-0150
2.6 V6	Petrol	132	Y 26 SE	09/00-07/03		Ch: >21059096	L/R				DOX-0150
2.6 V6	Petrol	132	Y 26 SE	09/00-07/03	A		L/R	DOX-2040	DOX-2003	DOX-0150	DOX-0150
2.6 V6	Petrol	132	Y 26 SE	09/00-07/03	M		L/R	DOX-2050		DOX-0150	
2.6 V6	Petrol	132	Y 26 SE	09/00-07/03	M	Ch: >21059096	L/R		DOX-2050		DOX-0150
3.0 V6	Petrol	155	X 30 XE	04/94-02/01				DOX-1593		DOX-0115	
3.0 V6	Petrol	155	X 30 XE	04/94-02/01			L/R			DOX-0115	
3.2 V6	Petrol	160	Y 32 SE	02/01-07/03	A		L/R	DOX-2040	DOX-2003	DOX-0150	DOX-0150
SENATOR B (87-93)											
2.6 i	Petrol	110	C 26 NE	09/90-09/93	M			DOX-1500		DOX-0115	
3.0	Petrol	130	30 NE	01/88-09/90	A					DOX-0115	
3.0 24V	Petrol	150	C 30 SE	07/91-09/93		Ch: M1000001>		DOX-1500		DOX-0115	
3.0 i CAT	Petrol	130	C 30 NE	07/90-09/93	M	Ch: K1000472>				DOX-0115	
3.0 i CAT	Petrol	130	C 30 NE	07/91-09/93	M	Ch: M1000001>		DOX-1500		DOX-0115	
SIGNUM											
1.8	Petrol	103	Z 18 XER	09/05-					DOX-1569		DOX-0119
3.2 V6	Petrol	155	Z 32 SE	05/03-09/05			L/R	DOX-2050	DOX-2050	DOX-0150	DOX-0150
SINTRA											
2.2 i 16V	Petrol	104	X 22 XE	11/96-04/99	M					DOX-0115	
3.0 i 24V	Petrol	148	X 30 XE	11/96-04/99				DOX-1593		DOX-0115	
SPEEDSTER											
2.0 Turbo	Petrol	147	Z 20 LET	04/03-09/05	M			DOX-2040	DOX-2052	DOX-0150	DOX-0150
2.2	Petrol	108	Z 22 SE	09/00-09/05	M					DOX-0109	DOX-0109
TIGRA											
1.4	Petrol	66	Z 14 XEP	06/04-06/05	M	Ch: >5E999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	06/04-07/08	M				DOX-2050		DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
OPEL *continued*											
TIGRA *continued*											
1.4	Petrol	66	Z 14 XEP	07/06-07/08	M	Ch: 6,00E+01>		DOX-2050		DOX-0150	
1.4 16V	Petrol	63	X 14 XE	08/97-12/00	M			DOX-1000		DOX-0125	
1.4 16V	Petrol	66	X 14 XE	07/94-12/00				DOX-1000		DOX-0125	
1.4 16V	Petrol	66	X 14 XE	07/94-12/00				DOX-1504		DOX-0125	
1.6 16V	Petrol	78	X 16 XE	07/94-06/95	M	Ch: >S4269627				DOX-0125	
1.6 16V	Petrol	78	X 16 XE	07/94-06/95	M	Ch: >S6011904				DOX-0125	
1.6 16V	Petrol	78	X 16 XE	07/95-08/98	M	Ch: S4269628>		DOX-1000		DOX-0125	
1.6 16V	Petrol	78	X 16 XE	07/95-08/98	M	Ch: S6011905>		DOX-1000		DOX-0125	
VECTRA A (88-95)											
1.6 i	Petrol	52	X 16 SZ	09/93-11/95				DOX-1000		DOX-0125	
1.6 i	Petrol	55	C16NZ	09/88-11/95	A			DOX-1000		DOX-0125	
1.6 i CAT	Petrol	55	C 16 NZ; C 16 NZ2	09/88-11/95	M			DOX-1000		DOX-0125	
1.8 i CAT	Petrol	66	C 18 NZ	03/90-11/95				DOX-1000		DOX-0125	
2.0 i 16V CAT	Petrol	110	C 20 XE	07/93-09/93	M	Ch: P1000001>				DOX-0115	
2.0 i 16V CAT	Petrol	110	C 20 XE	07/93-09/93	M	Ch: P5000001>				DOX-0115	
2.0 i 16V CAT	Petrol	110	C 20 XE	07/93-09/93	M	Ch: P7000001>				DOX-0115	
2.0 i Turbo 4x4	Petrol	150	C 20 LET	06/94-11/95	M			DOX-1500		DOX-0115	
2.5 V6	Petrol	125	C 25 XE	02/93-11/95						DOX-0115	
2000/GT 16V 4x4 CAT	Petrol	110	C 20 XE	07/93-11/95	M	Ch: P1000001>				DOX-0115	
2000/GT 16V 4x4 CAT	Petrol	110	C 20 XE	07/93-11/95	M	Ch: P5000001>				DOX-0115	
2000/GT 16V 4x4 CAT	Petrol	110	C 20 XE	07/93-11/95	M	Ch: P7000001>				DOX-0115	
2000/GT 16V CAT	Petrol	110	C 20 XE	07/93-09/93	M	Ch: P1000001>				DOX-0115	
2000/GT 16V CAT	Petrol	110	C 20 XE	07/93-09/93	M	Ch: P5000001>				DOX-0115	
2000/GT 16V CAT	Petrol	110	C 20 XE	07/93-09/93	M	Ch: P7000001>				DOX-0115	
VECTRA B (95-03)											
1.6 i	Petrol	55	X 16 SZR	10/95-01/99	M			DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X16XEL	10/95-06/98		Ch: >W1285446		DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X16XEL	10/95-06/98		Ch: >W7154258		DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X16XEL	10/95-07/02		Ch: W1285447>		DOX-1598		DOX-0114	
1.6 i 16V	Petrol	74	X16XEL	10/95-07/02		Ch: W7154259>		DOX-1598		DOX-0114	
1.6 i 16V	Petrol	74	X16XEL	07/98-04/02				DOX-1576		DOX-0114	
1.6 i 16V	Petrol	74	X16XEL	07/98-04/02				DOX-1598		DOX-0114	
1.6 i 16V	Petrol	74	Y16XE	10/95-07/02				DOX-1576		DOX-0114	
1.6 i 16V	Petrol	74	Z16XE	10/95-07/02				DOX-1576		DOX-0114	DOX-0114
2.2 i 16V	Petrol	108	C 22 SEL; Z 22 SE	09/00-07/03						DOX-0109	DOX-0109
2.5	Petrol	144	X 25 XE	10/99-06/00		Ch: >V1141943, For right-hand drive vehicles			DOX-1593		DOX-0115
2.5	Petrol	144	X 25 XE	10/99-06/00		Ch: >V5141892, For right-hand drive vehicles			DOX-1593		DOX-0115
2.5	Petrol	144	X 25 XE	10/99-06/00		Ch: >V7078391, For right-hand drive vehicles			DOX-1593		DOX-0115
2.5 i V6	Petrol	125	X 25 XE	10/95-01/99			L/R			DOX-0115	
2.5 i V6	Petrol	125	X 25 XE	10/95-09/00		Ch: >V1141943			DOX-1593		DOX-0115
2.5 i V6	Petrol	125	X 25 XE	10/95-09/00		Ch: >V5141892			DOX-1593		DOX-0115
2.5 i V6	Petrol	125	X 25 XE	10/95-09/00		Ch: >V7078391			DOX-1593		DOX-0115
2.6 i V6	Petrol	125	Y 26 SE	09/00-07/03				DOX-2003	DOX-2040	DOX-0150	DOX-0150
i 500 2.5	Petrol	143	X 25 XE	05/98-01/99	M		L/R			DOX-0115	
i 500 2.5	Petrol	143	X 25 XE	05/98-05/00		Ch: >V1141943, For right-hand drive vehicles			DOX-1593		DOX-0115
i 500 2.5	Petrol	143	X 25 XE	05/98-05/00		Ch: >V5141892, For right-hand drive vehicles			DOX-1593		DOX-0115
i 500 2.5	Petrol	143	X 25 XE	05/98-05/00		Ch: >V7078391, For right-hand drive vehicles			DOX-1593		DOX-0115
VECTRA C (02-)											
1.6	Petrol	74	Z 16 XE	08/05-02/09	M					DOX-0114	DOX-0114
1.6	Petrol	77	Z 16 XEP	01/06-02/09	M				DOX-2003		DOX-0150
1.6 16V	Petrol	74	Z 16 XE	06/04-07/05					DOX-1575		DOX-0114
1.6 16V	Petrol	74	Z 16 XE	06/04-02/09	M					DOX-0114	DOX-0114
1.8	Petrol	103	Z 18 XER	01/06-					DOX-1569		DOX-0119
2.2 16V	Petrol	108	Z 22 SE	04/02-06/04					DOX-1618		DOX-0109
2.2 16V	Petrol	108	Z 22 SE	08/02-06/04		Ch: >41061675					DOX-0109
2.2 16V	Petrol	108	Z 22 SE	08/02-06/04		Ch: >48053424					DOX-0109
3.2 V6	Petrol	155	Z 32 SE	08/02-09/05			L/R	DOX-2050	DOX-2050	DOX-0150	DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
OPEL *continued*											
ZAFIRA (99-05)											
1.6 16V	Petrol	74	X 16 XEL; Z 16 XE	07/03-06/05	M						DOX-0114
1.6 16V	Petrol	74	X16XEL	04/99-06/05		Ch: >12999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/05		Ch: >15999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/05		Ch: >16999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/05		Ch: >18999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	07/02-06/05		Ch: 22000001>				DOX-0114	
1.6 16V	Petrol	74	X16XEL	07/02-06/05		Ch: 25000001>				DOX-0114	
1.6 16V	Petrol	74	X16XEL	07/02-06/05		Ch: 26000001>				DOX-0114	
1.6 16V	Petrol	74	X16XEL	07/02-06/05		Ch: 28000001>				DOX-0114	
1.6 16V	Petrol	74	Z16XE	04/99-06/05						DOX-0114	
1.6 16V	Petrol	74	Z16XE	04/99-06/05		Ch: >12999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05		Ch: >15999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05		Ch: >16999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05		Ch: >18999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05	M	Ch: >12999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05	M	Ch: >15999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05	M	Ch: >16999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	04/99-06/05	M	Ch: >18999999					DOX-0114
1.6 16V	Petrol	74	Z16XE	10/99-06/05		Ch: 22000001>			DOX-1575		DOX-0114
1.6 16V	Petrol	74	Z16XE	10/99-06/05		Ch: 25000001>			DOX-1575		DOX-0114
1.6 16V	Petrol	74	Z16XE	10/99-06/05		Ch: 28000001>			DOX-1575		DOX-0114
1.6 16V	Petrol	74	Z16XE	07/02-06/05		Ch: 26000001>					DOX-0114
1.6 16V	Petrol	74	Z16XE	07/02-06/05	M	Ch: 22000001>					DOX-0114
1.6 16V	Petrol	74	Z16XE	07/02-06/05	M	Ch: 25000001>					DOX-0114
1.6 16V	Petrol	74	Z16XE	07/02-06/05	M	Ch: 26000001>					DOX-0114
1.6 16V	Petrol	74	Z16XE	07/02-06/05	M	Ch: 28000001>					DOX-0114
1.6 CNG	Gas	71	Z 16 YNG	09/01-06/05		Ch: 22000001>			DOX-1575		DOX-0114
1.6 CNG	Gas	71	Z 16 YNG	09/01-06/05		Ch: 2H000001>			DOX-1575		DOX-0114
1.6 CNG	Gas	71	Z 16 YNG	09/01-06/05	M					DOX-0114	DOX-0114
1.6 CNG	Gas	71	Z 16 YNG	09/01-06/05	M	Ch: >12999999					DOX-0114
1.6 CNG	Gas	71	Z 16 YNG	07/02-06/05	M	Ch: 22000001>					DOX-0114
1.8 16V	Petrol	92	Z 18 XE	09/00-06/05				DOX-1569	DOX-1568	DOX-0119	DOX-0119
2.0 OPC	Petrol	141/147	Z 20 LET; Z20LET	09/01-06/05	M			DOX-2040	DOX-2052	DOX-0150	DOX-0150
2.2 16V	Petrol	108	Z 22 SE	09/00-06/05					DOX-1617	DOX-0109	DOX-0109
ZAFIRA (05-11)											
1.6	Petrol	77	Z16XEP	07/05-07/08	M				DOX-2003		DOX-0150
1.6	Petrol	85	A 16 XER; Z 16 XER	01/08-					DOX-1569		DOX-0119
1.8	Petrol	103	A 18 XER; Z 18 XER	07/05-					DOX-1569		DOX-0119
2.0	Petrol	147/177	Z 20 LEH; Z 20 LER	07/05-12/10	M			DOX-2040	DOX-2052	DOX-0150	DOX-0150
PEUGEOT											
106 (91-96)											
1.0	Petrol	33	TU9MPR (CDY)	06/93-06/95	M					DOX-0120	
1.0	Petrol	33/37	CDY (TU9M); CDZ (TU9M); TU9; TU9M (CDY)	06/92-04/96	M			DOX-1535		DOX-0120	
1.1	Petrol	44	HDZ (TU1M)	09/91-04/96	M			DOX-1535		DOX-0104	
1.1	Petrol	44	HDZ (TU1M)	09/91-04/96	M			DOX-1537		DOX-0120	
1.3	Petrol	72	TU2J2	10/93-04/96	M			DOX-1535		DOX-0120	
1.4	Petrol	55	TU3M (KDY)	09/91-06/95	M					DOX-0120	
1.4	Petrol	55/69	KDX (TU3MC); KDY (TU3M); KFZ (TU3J2/Z); TU3FMC (KDX)	09/91-04/96	M			DOX-1535		DOX-0120	
1.6	Petrol	65	NFZ (TU5JP)	06/93-04/96				DOX-1535		DOX-0120	
1.6	Petrol	76	NFY (TU5J2)	01/94-04/96	M			DOX-1535		DOX-0120	
106 (96-04)											
1.0 i	Petrol	33/37	CDY (TU9M); CDZ (TU9M)	05/96-07/03	M			DOX-1535		DOX-0120	
1.1 i	Petrol	40/44	HDY (TU1M); HDZ (TU1M); HFX (TU1JP); TU1M+	05/96-07/03	M			DOX-1535		DOX-0120	
1.1 i	Petrol	44	TU1JP (HFX)	09/00-07/03	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.1 i	Petrol	44	TU1JP (HFX)	09/00-07/03	M			DOX-2045		DOX-0150	
1.4 i	Petrol	55	KFW (TU3JP); KFX (TU3JP)	05/96-07/03	M			DOX-1535		DOX-0104	
1.4 i	Petrol	55	KFW (TU3JP); KFX (TU3JP)	05/96-07/03	M			DOX-1537		DOX-0120	
1.4 i	Petrol	55	KFW (TU3JP); KFX (TU3JP)	05/96-07/03	M			DOX-2001		DOX-0150	
1.4 i	Petrol	55	TU3JP (KFW)	05/98-07/03	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	55	TU3JP (KFX)	05/97-07/03	A			DOX-1535		DOX-0120	
1.6 i	Petrol	65	NFZ (TU5JP)	05/96-07/03				DOX-1535		DOX-0120	
1.6 i	Petrol	74	TU5J2 (NFW)	05/96-07/03	M			DOX-1535		DOX-0120	
1.6 S16	Petrol	87	NFX (TU5J4)	05/96-07/03	M			DOX-1535		DOX-0119	
1.6 S16	Petrol	87	NFX (TU5J4)	05/96-07/03	M			DOX-1536		DOX-0120	
1.6 S16	Petrol	87	NFX (TU5J4)	05/96-07/03	M			DOX-1538		DOX-0119	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
PEUGEOT *continued*											
107											
1.0	Petrol	50	1KR (384 F)	06/05-12/08	M			DOX-2028		DOX-0150	
205 (83-98)											
1.0	Petrol	33	TU9	08/89-09/98	M					DOX-0120	
1.1	Petrol	44	HDZ (TU1M)	07/89-09/98	M					DOX-0120	
1.1 CJ	Petrol	44	HDZ (TU1M)	06/90-12/94	M					DOX-0120	
1.4	Petrol	55/58	TU3M	07/88-09/98	M					DOX-0120	
1.4 CJ	Petrol	55	TU3M	05/91-12/94	M					DOX-0120	
1.6 Aut.	Petrol	65	XU5M (BDY)	05/90-09/98						DOX-0120	
1.6 CJ	Petrol	65	BDY (XU5M3Z)	08/92-12/94	M					DOX-0120	
1.9 CTi	Petrol	92	XU9JAZ (DKZ)	08/90-07/92	A					DOX-0120	
1.9 GTI	Petrol	88	DKZ (XU9JAZ)	08/89-10/94						DOX-0120	
206 (98-)											
1.1	Petrol	40	TU1JP (HFY)	08/98-07/00	M			DOX-1537		DOX-0104	
1.1	Petrol	44	HFX (TU1JP)	07/02-10/05	M			DOX-2001	DOX-1538	DOX-0150	DOX-0119
1.1 i	Petrol	44	HFX (TU1JP); HFZ (TU1JP)	09/98-10/05	M			DOX-1537		DOX-0104	
1.1 i	Petrol	44	TU1JP (HFX)	09/00-06/06	M			DOX-2001	DOX-1538	DOX-0150	DOX-0119
1.4	Petrol	55	KFV (TU3A); KFW (TU3JP)	07/02-02/09	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4	Petrol	55	TU3A (KFW)	10/05-06/10	M				DOX-1538		DOX-0119
1.4 16V	Petrol	65	KFU (ET3J4)	10/03-05/06	M			DOX-2001		DOX-0150	
1.4 i	Petrol	55	TU3A (KFW)	10/05-02/09	M				DOX-1538		DOX-0119
1.4 i	Petrol	55	TU3JP (K6C)	09/98-02/09	M			DOX-1535		DOX-0120	
1.4 i	Petrol	55	TU3JP (KFW)	09/00-02/09				DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 i	Petrol	55	TU3JP (KFX)	09/98-02/09		Euro 2		DOX-1537		DOX-0104	
1.4 i	Petrol	55	TU3JP (KFX)	09/98-02/09	M				DOX-1538		DOX-0119
1.4 i	Petrol	55	TU3JP (KFX)	09/98-02/09	M	Euro 4 (D4)		DOX-1534		DOX-0121	
1.6 16V	Petrol	80	NFU (TU5JP4)	12/00-06/10				DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6 i	Petrol	65	NFZ (TU5JP)	09/98-12/00				DOX-2001		DOX-0150	
2.0 16V	Petrol	100	RFN (EW10J4)	07/02-10/05	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 RC	Petrol	130	RFK (EW10J4S)	07/03-02/09	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 S16	Petrol	100	RFN (EW10J4)	09/00-02/09	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 S16	Petrol	99	RFR (DEW10J4)	04/99-10/00	M			DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0 S16	Petrol	99	RFR (DEW10J4)	04/99-10/00	M			DOX-2045		DOX-0150	
206+ (09-)											
1.1	Petrol	44	TU1A (HFX); TU1AE5 (HFV)	01/09-	M				DOX-1538		DOX-0119
1.4 i	Petrol	54/55	KFT (TU3A); TU3A (KFV)	01/09-	M				DOX-1538		DOX-0119
207											
1.4	Petrol	53/54	KFV (TU3A)	02/06-	M				DOX-1538		DOX-0119
1.4 16V	Petrol	65	KFU (ET3J4)	02/06-				DOX-2001		DOX-0150	
1.6 16V	Petrol	80	NFU (TU5JP4)	02/06-06/07				DOX-2001	DOX-2005	DOX-0150	DOX-0150
306											
1.1	Petrol	44	HDZ (TU1M)	05/93-02/97	M			DOX-1535		DOX-0120	
1.4	Petrol	55	KFW (TU3JP); KFX (TU3JP); TU3MC (KDX)	05/93-05/98	M			DOX-1535		DOX-0120	
1.4	Petrol	55	TU3JP (KFW)	05/00-04/02	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4	Petrol	55	TU3JP (KFX)	03/97-04/02	M			DOX-1535	DOX-2001	DOX-0104	DOX-0150
1.4	Petrol	55	TU3JP (KFX)	03/97-04/02	M			DOX-1537	DOX-2045	DOX-0120	DOX-0150
1.4	Petrol	55	TU3JP (KFX)	03/97-04/02	M			DOX-2001		DOX-0150	
1.4	Petrol	55	TU3JP (KFX)	03/97-04/02	M			DOX-2045		DOX-0150	
1.4 SL	Petrol	55	TU3JP (KFW)	05/00-05/01	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 SL	Petrol	55	TU3JP (KFX)	07/95-05/01	M			DOX-1535	DOX-2001	DOX-0104	DOX-0150
1.4 SL	Petrol	55	TU3JP (KFX)	07/95-05/01	M			DOX-1537	DOX-2045	DOX-0120	DOX-0150
1.4 SL	Petrol	55	TU3JP (KFX)	07/95-05/01	M			DOX-2001		DOX-0150	
1.4 SL	Petrol	55	TU3MC (KDX)	06/94-02/97	M			DOX-1535		DOX-0120	
1.6	Petrol	65	NFZ (TU5JP)	05/93-10/00	M			DOX-1535		DOX-0120	
1.6	Petrol	65	NFZ (TU5JP)	05/93-10/00	M			DOX-2001		DOX-0150	
1.6	Petrol	66	TU5JP (NFZ)	07/00-05/01	M			DOX-2001		DOX-0150	
1.6	Petrol	72	NFT	10/00-04/02				DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6	Petrol	72	NFT	10/00-04/02				DOX-2045		DOX-0150	
1.6 SR	Petrol	65	NFZ (TU5JP)	06/94-10/00	M			DOX-1535		DOX-0120	
1.6 SR	Petrol	65	NFZ (TU5JP)	06/94-10/00	M			DOX-2001		DOX-0150	
1.8	Petrol	74	LFZ (XU7JP)	05/93-04/02				DOX-1535		DOX-0120	
1.8 16V	Petrol	81	LFY (XU7JP4)	03/97-04/02	M			DOX-1537	DOX-2009	DOX-0104	DOX-0150
1.8 16V	Petrol	81	LFY (XU7JP4)	03/97-04/02	M			DOX-2001		DOX-0150	
1.8 16V	Petrol	81	LFY (XU7JP4)	03/97-04/02	M			DOX-2045		DOX-0150	
1.8 ST	Petrol	74	LFZ (XU7JP)	06/94-05/01				DOX-1535		DOX-0120	
2.0	Petrol	89	RFX (XU10J2)	03/94-02/97	M			DOX-1535		DOX-0120	
2.0	Petrol	89/97	RFV (XU10J4R); RFX (XU10J2)	03/94-04/02				DOX-1535		DOX-0120	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
PEUGEOT *continued*											
306 *continued*											
2.0 16V	Petrol	97	RFV (XU10J4R)	03/97-04/02				DOX-1535		DOX-0120	
2.0 S16	Petrol	110/112	RFT (XU10J4); RFY (XU10J4Z)	09/93-02/97	M			DOX-1535		DOX-0120	
2.0 S16	Petrol	120	RFS (XU10J4RS)	03/96-05/01	M			DOX-1535		DOX-0120	
2.0 S16	Petrol	120	RFS (XU10J4RS)	03/96-05/01	M			DOX-1536		DOX-0120	
2.0 ST	Petrol	89	RFX (XU10J2)	07/94-02/97				DOX-1535		DOX-0120	
2.0 XSi	Petrol	89	RFX (XU10J2)	05/93-02/97				DOX-1535		DOX-0120	
2.0 XSi	Petrol	89	RFX (XU10J2)	02/95-02/97	M			DOX-1535		DOX-0120	
307											
1.4	Petrol	55	KFW (TU3JP)	09/01-06/05	M			DOX-1534	DOX-1538	DOX-0120	DOX-0119
1.4	Petrol	55	KFW (TU3JP)	09/01-06/05	M			DOX-1536		DOX-0121	
1.4 16V	Petrol	65	KFU (ET3J4)	11/03-01/08	M			DOX-2001		DOX-0150	
1.6 16V	Petrol	80	NFU (TU5JP4)	03/01-06/05	M			DOX-1360		DOX-0117	
1.6 16V	Petrol	80	NFU (TU5JP4)	03/01-03/09				DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6 16V	Petrol	80	NFU (TU5JP4)	06/05-11/07	A			DOX-2045		DOX-0150	
1.6 BioFlex	Flexfuel	80	NFU (TU5JP4)	09/07-06/08	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
2.0	Petrol	100	RFN (EW10J4)	03/02-06/05				DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	03/01-06/05				DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	103	RFJ (EW10A)	03/05-03/09				DOX-2001		DOX-0150	
2.0 16V	Petrol	130	RFK (EW10J4S)	10/03-03/09	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
308 (07-13)											
1.6 BioFlex	Petrol/Ethanol	80	NFU (TU5JP4)	04/10-	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6 Bioflex	Flexfuel	82	NFU (TU5JP4)	04/10-	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
309 (89-93)											
1.1	Petrol	44	HDZ (TU1M)	08/90-08/93	M					DOX-0120	
1.4	Petrol	55	TU3M (KDY)	08/90-08/93	M					DOX-0120	
1.6	Petrol	65	XU5M (BDY)	07/89-08/93						DOX-0120	
1.6	Petrol	65	XU5M (BDZ)	08/90-07/91	M					DOX-0120	
1.9	Petrol	80	DDZ (XU9M)	10/90-08/93	M					DOX-0120	
1.9 GTI	Petrol	88	DKZ (XU9JAZ)	08/90-08/93						DOX-0120	
1.9 GTI 16V	Petrol	108/116	D6C (XU9J4); DFW (XU9J4Z)	08/89-08/93	M					DOX-0120	
405 (87-93)											
1.6	Petrol	65/66	BDZ (XU5M); XU5M (BDZ)	06/90-08/92						DOX-0120	
1.9	Petrol	80/88/90	D6A (XU9J2); DDZ (XU9M); DKZ (XU9JAZ)	07/88-08/92		Eng No: 8457340>				DOX-0120	
1.9	Petrol	80/88/90	D6A (XU9J2); DDZ (XU9M); DKZ (XU9JAZ)	07/88-12/92		Eng No: >8457340				DOX-0120	
1.9 4x4	Petrol	80	DDZ (XU9M)	07/88-08/92	M	Eng No: 8457340>				DOX-0120	
1.9 4x4	Petrol	80	DDZ (XU9M)	07/88-12/92	M	Eng No: >8457340				DOX-0120	
1.9 Sport MI-16	Petrol	108/116	D6C (XU9J4); DFW (XU9J4Z)	07/87-06/92	M	Eng No: 8457340>				DOX-0120	
1.9 Sport MI-16	Petrol	108/116	D6C (XU9J4); DFW (XU9J4Z)	07/87-12/92	M	Eng No: >8457340				DOX-0120	
1.9 SPort MI-16 4x4	Petrol	108	DFW (XU9J4Z)	04/88-06/92	M	Eng No: 8457340>				DOX-0120	
1.9 SPort MI-16 4x4	Petrol	108	DFW (XU9J4Z)	03/89-12/92	M	Eng No: >8457340				DOX-0120	
405 (92-96)											
1.4	Petrol	55	KDX (TU3MC)	08/92-10/96	M					DOX-0120	
1.6	Petrol	65	XU5JP (BFZ); XU5M (BDY)	08/92-10/96				DOX-1536		DOX-0120	
1.8	Petrol	74	LFZ (XU7JP)	08/92-10/96				DOX-1536		DOX-0120	
2.0	Petrol	89	RFX (XU10J2)	08/92-10/96				DOX-1536		DOX-0120	
2.0 4x4	Petrol	89	RFX (XU10J2)	08/92-10/96	M			DOX-1536		DOX-0120	
2.0 MI-16	Petrol	112	RFY (XU10J4Z)	08/92-10/95	M			DOX-1536		DOX-0120	
2.0 T 16 X4	Petrol	144	RGZ (XU10J4TE/Z)	08/92-10/95	M			DOX-1536		DOX-0120	
2.0 X4	Petrol	89	RFX (XU10J2)	08/92-10/95	M			DOX-1536		DOX-0120	
406											
1.6	Petrol	65	BFZ (XU5JP)	11/95-05/04	M			DOX-1535		DOX-0120	
1.8	Petrol	66	LFX (XU7JB); XU7JB (LFX)	05/97-05/04	M			DOX-1537		DOX-0104	
1.8 16V	Petrol	81	LFY (XU7JP4)	11/95-10/00				DOX-1535	DOX-2009	DOX-0104	DOX-0150
1.8 16V	Petrol	81	LFY (XU7JP4)	11/95-10/00				DOX-1537		DOX-0120	
1.8 16V	Petrol	81	LFY (XU7JP4)	11/95-10/00				DOX-2001		DOX-0150	
1.8 16V	Petrol	85	6FZ (EW7J4)	10/00-05/04				DOX-1534	DOX-1539	DOX-0121	DOX-0119
1.8 16V	Petrol	85	6FZ (EW7J4)	10/00-05/04	M			DOX-1534	DOX-1539	DOX-0121	DOX-0119
2.0 16V	Petrol	100	RFN (EW10J4)	08/00-12/04				DOX-1536	DOX-2005	DOX-0120	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	08/00-12/04				DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.0 16V	Petrol	97	RFV (XU10J4R)	11/95-04/04				DOX-1536		DOX-0120	
2.0 16V	Petrol	99	RFR (DEW10J4)	01/99-10/00				DOX-2001	DOX-2005	DOX-0150	DOX-0150

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
PEUGEOT *continued*											
406 *continued*											
2.0 16V	Petrol	99	RFR (DEW10J4)	01/99-10/00				DOX-2045		DOX-0150	
2.0 16V	Petrol	99	RFR (DEW10J4)	01/99-10/00	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
2.0 16V	Petrol	99	RFR (DEW10J4)	01/99-10/00	M			DOX-2045		DOX-0150	
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	04/96-03/99	M			DOX-1535		DOX-0120	
2.2	Petrol	116	3FZ (EW12J4)	07/00-12/04	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
3.0 V6	Petrol	152	XFX (ES9J4S)	03/00-12/04			L/R	DOX-2001	DOX-2005	DOX-0150	DOX-0150
407											
1.8	Petrol	85	6FZ (EW7J4)	05/04-10/05	M				DOX-1539		DOX-0119
1.8 16V	Petrol	92	6FY (EW7A)	01/06-12/09	M			DOX-2001		DOX-0150	
2.0	Petrol	100	RFN (EW10J4)	05/04-10/05				DOX-2045	DOX-2034	DOX-0150	DOX-0150
2.0 16V	Petrol	103	RFJ (EW10A)	01/06-12/09				DOX-2001		DOX-0150	
2.2	Petrol	116	3FZ (EW12J4)	05/04-10/05				DOX-2045	DOX-2034	DOX-0150	DOX-0150
2.2 16V	Petrol	120	3FY (EW12J4)	09/05-03/09				DOX-2001		DOX-0150	
2.2 16V	Petrol	120	3FY (EW12J4)	10/05-03/09	M			DOX-2001		DOX-0150	
3.0	Petrol	155	XFV (ES9A)	05/04-03/09	A		L/R	DOX-2001	DOX-2005	DOX-0150	DOX-0150
3.0	Petrol	155	XFV (ES9A)	05/04-03/09	A		L/R	DOX-2045		DOX-0150	
3.0 V6	Petrol	155	XFV (ES9A)	10/05-03/09			L/R	DOX-2001	DOX-2005	DOX-0150	DOX-0150
3.0 V6	Petrol	155	XFV (ES9A)	10/05-03/09			L/R	DOX-2045		DOX-0150	
605											
2.0	Petrol	79	XU10M (RDZ)	09/90-06/94	M					DOX-0120	
2.0	Petrol	89	RFZ (XU10J2Z)	10/89-05/99				DOX-1536		DOX-0120	
2.0 Turbo	Petrol	104	RGY (XU10J2TE)	07/92-06/94						DOX-0120	
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	07/91-05/99				DOX-1536		DOX-0120	
607											
2.0	Petrol	100	RFN (EW10J4)	02/00-09/04	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.2 16V	Petrol	116	3FZ (EW12J4)	02/00-10/05				DOX-2045	DOX-2009	DOX-0150	DOX-0150
2.2 16V	Petrol	120	3FY (EW12J4)	01/06-11/07	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
3.0 V6 24V	Petrol	152	XFX (ES9J4S)	02/00-09/04				DOX-2001	DOX-2005	DOX-0150	DOX-0150
3.0 V6 24V	Petrol	155	XFV (ES9A)	10/04-03/09	A		L		DOX-2005		DOX-0150
3.0 V6 24V	Petrol	155	XFV (ES9A)	10/04-03/09	A		L/R	DOX-2001	DOX-2001	DOX-0150	DOX-0150
3.0 V6 24V	Petrol	155	XFV (ES9A)	10/04-03/09	A		R		DOX-2045		DOX-0150
806											
1.8	Petrol	73	LFW (XU7JP)	07/95-08/02	M			DOX-1536		DOX-0120	
2.0	Petrol	89	RFU (XU10J2)	06/94-08/02	M			DOX-1536		DOX-0120	
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/02				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 16V	Petrol	100	RFN (EW10J4)	09/00-08/02					DOX-2045		DOX-0150
2.0 16V	Petrol	97	RFV (XU10J4R)	10/98-09/00	M			DOX-1536		DOX-0120	
2.0 Turbo	Petrol	108	RGX (XU10J2TE)	06/94-08/02	M			DOX-1536		DOX-0120	
807											
2.0	Petrol	100	RFN (EW10J4)	06/02-10/05				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0	Petrol	100	RFN (EW10J4)	06/02-10/05					DOX-2045		DOX-0150
2.0 16V	Petrol	103	RFJ (EW10A)	09/05-				DOX-2001		DOX-0150	
2.0 16V	Petrol	103	RFJ (EW10A)	09/05-	M			DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0 16V	Petrol	103	RFJ (EW10A)	09/05-	M			DOX-2045	DOX-2045	DOX-0150	DOX-0150
2.2	Petrol	116	3FZ (EW12J4)	06/02-09/05	M			DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.2	Petrol	116	3FZ (EW12J4)	06/02-09/05	M				DOX-2045		DOX-0150
3.0 V6	Petrol	150	XFX (ES9J4S)	06/02-09/05	A			DOX-2001		DOX-0150	
3.0 V6	Petrol	150	XFX (ES9J4S)	06/02-09/05	A		R		DOX-2005		DOX-0150
1007											
1.4	Petrol	54	KFV (TU3JP)	04/05-07/10	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4 16V	Petrol	65	KFU (ET3J4)	10/05-07/07	M			DOX-2001		DOX-0150	
1.6 16V	Petrol	80	NFU (TU5JP4)	04/05-07/10	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
BIPPER											
1.4	Petrol	54	KFV (TU3A)	02/08-	M				DOX-1538		DOX-0119
BIPPER Tepee											
1.4	Petrol	54	KFV (TU3A)	04/08-	M				DOX-1538		DOX-0119
BOXER (94-06)											
2.0	Petrol	81	RFL (XU10J2U)	04/02-06/06	M			DOX-2001	DOX-2009	DOX-0150	DOX-0150
2.0	Petrol	81	RFL (XU10J2U)	04/02-06/06	M			DOX-2045		DOX-0150	
2.0 4x4	Petrol	80	XU10J2U (RFW)	03/96-09/98	M	Eng No: 15267331>		DOX-1536		DOX-0120	
2.0 4x4	Petrol	80	XU10J2U (RFW)	10/96-09/98	M	Eng No: >15267330				DOX-0120	
2.0 i	Petrol	80	RFW (XU10J2)	03/94-12/01	M	Eng No: 15267331>		DOX-1536		DOX-0120	
2.0 i	Petrol	80	RFW (XU10J2)	03/94-04/02	M	Eng No: >15267330				DOX-0120	
2.0 i 4x4	Petrol	80	RFW (XU10J2)	08/96-08/98	M	Eng No: 15267331>		DOX-1536		DOX-0120	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
PEUGEOT *continued*											
BOXER (94-06) *continued*											
2.0 i 4x4	Petrol	80	RFW (XU10J2)	07/97-04/02	M	Eng No: >15267330				DOX-0120	
EXPERT (95-07)											
1.6	Petrol	58	222A2 (1580 SPI)	02/96-12/03	M			DOX-1536		DOX-0120	
1.8	Petrol	74	LFZ (XU7JP)	10/96-09/00	M			DOX-1536		DOX-0120	
2.0	Petrol	100	RFN (EW10J4)	07/00-12/06				DOX-2001	DOX-2001	DOX-0150	DOX-0150
2.0	Petrol	100	RFN (EW10J4)	07/00-12/06					DOX-2045		DOX-0150
EXPERT (07-)											
2.0 16V	Petrol	103	EW10A (RFH)	01/07-	M			DOX-2001		DOX-0150	
EXPERT Tepee (07-)											
2.0 16V	Petrol	103	EW10A (RFJ)	01/07-	M			DOX-2001		DOX-0150	
PARTNER (96-08)											
1.1	Petrol	44	HDZ (TU1M)	06/96-05/08	M			DOX-1535	DOX-1538	DOX-0120	DOX-0119
1.1	Petrol	44	HDZ (TU1M)	06/96-05/08	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.1	Petrol	44	HDZ (TU1M)	06/96-05/08	M			DOX-2045	DOX-2009	DOX-0150	DOX-0150
1.1	Petrol	44	HDZ (TU1M); HFX (TU1JP)	06/96-11/02	M			DOX-1535		DOX-0120	
1.4	Petrol	54	KFV (TU3A); KFW (TU3JP)	11/02-10/06	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.4	Petrol	55	TU3JP (K6C)	01/00-11/02	M			DOX-1535		DOX-0120	
1.4	Petrol	55	TU3JP (KFW)	09/00-11/02	M			DOX-1360	DOX-1538	DOX-0117	DOX-0119
1.4	Petrol	55	TU3JP (KFW)	09/00-11/02	M			DOX-1534		DOX-0121	
1.4	Petrol	55	TU3JP (KFX)	06/96-11/02	M			DOX-1534	DOX-1538	DOX-0104	DOX-0119
1.4	Petrol	55	TU3JP (KFX)	06/96-11/02	M			DOX-1535		DOX-0120	
1.4	Petrol	55	TU3JP (KFX)	06/96-11/02	M			DOX-1537		DOX-0121	
1.4 BiFuel	Bi-Fuel	55	KFW (TU3JP)	04/03-05/08	M			DOX-1534	DOX-1538	DOX-0121	DOX-0119
1.6 16V	Petrol	80	NFU (TU5JP4)	07/01-05/08	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
1.6 16V	Petrol	80	NFU (TU5JP4)	07/01-05/08	M			DOX-2045		DOX-0150	
1.8	Petrol	66	LFX (XU7JB)	05/97-11/02	M			DOX-1537		DOX-0104	
PARTNER (08-)											
1.6	Petrol	66/80	NFR (TU5JP4B); NFU (TU5JP4)	04/08-	M			DOX-2001	DOX-2005	DOX-0150	DOX-0150
RENAULT											
19 I (88-92)											
1.4	Petrol	43	C3J 710; C3J760	01/89-04/92	M			DOX-1310		DOX-0125	
1.4	Petrol	55	E7J 700	04/91-04/92	M			DOX-1501		DOX-0116	
1.4	Petrol	59	E6J 700; E6J 701	06/90-12/92				DOX-1501		DOX-0116	
1.7	Petrol	54	F3N740	09/88-04/92	M			DOX-1310		DOX-0125	
1.7	Petrol	55	F2N 724	07/91-04/92	A			DOX-1310		DOX-0125	
1.7	Petrol	66	F3N742	09/88-04/92				DOX-1501		DOX-0116	
1.7	Petrol	66/70	F3N742	04/89-04/92	M			DOX-1501		DOX-0116	
1.8 16V	Petrol	99/101	F7P 704	06/89-04/92	M			DOX-1501		DOX-0116	
19 II (92-95)											
1.4	Petrol	43	C3J 710	04/92-08/95	M			DOX-1310		DOX-0116	
1.4	Petrol	43	C3J 710	04/92-08/95	M					DOX-0125	
1.4	Petrol	43	C3J 710	07/93-12/95	M	Ch: D036147>		DOX-1501		DOX-0116	
1.4	Petrol	44	C3J 710 Kat.	08/93-09/94		Ch: D036147>		DOX-1501		DOX-0116	
1.4	Petrol	55	E7J 742	09/94-08/95	M					DOX-0116	
1.4	Petrol	55	E7J742	11/93-12/95				DOX-1502		DOX-0116	
1.4	Petrol	57	E6J 700	10/94-11/95				DOX-1501		DOX-0116	
1.4	Petrol	59	E7J 706	10/94-11/95						DOX-0116	
1.7	Petrol	54	F3N740	04/92-08/95	M			DOX-1006		DOX-0125	
1.7	Petrol	54	F3N740	04/92-08/95	M			DOX-1310		DOX-0125	
1.7	Petrol	55	F3N741	05/92-11/95	A			DOX-1006		DOX-0125	
1.7	Petrol	55	F3N741	05/92-11/95	A			DOX-1310		DOX-0125	
1.7	Petrol	66	F3N 742; F3N 743	04/92-12/95				DOX-1501		DOX-0116	
1.7	Petrol	66	F3N742	04/92-12/95	M					DOX-0116	
1.7	Petrol	66	F3N743	04/92-12/95	A					DOX-0116	
1.8	Petrol	65/79	F3P 682; F3P706	04/92-08/95	M			DOX-1501		DOX-0116	
1.8	Petrol	66	F3P765	04/92-08/95	A					DOX-0116	
1.8	Petrol	66/67/ 79/81	F3P 682; F3P 700; F3P 706; F3P 760; F3P 765	04/92-12/95				DOX-1501		DOX-0116	
1.8	Petrol	66/79	F3P682; F3P706	04/92-11/95	M					DOX-0116	
1.8	Petrol	67	F3P 765	09/94-09/94	A					DOX-0116	
1.8 16V	Petrol	99	F7P 704	04/92-08/95	M					DOX-0116	
1.8 16V	Petrol	99	F7P 704	04/92-12/95				DOX-1501		DOX-0116	
19 II (92-03)											
1.2	Petrol	44	E7F 730	05/92-09/94				DOX-1501		DOX-0116	
1.2	Petrol	44	E7F 730	05/92-09/94	M					DOX-0116	
1.4	Petrol	43	C3J 710	04/92-12/95	M			DOX-1310		DOX-0116	
1.4	Petrol	43	C3J 710	04/92-12/95	M			DOX-1501		DOX-0125	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
RENAULT *continued*											
19 II (92-03) *continued*											
1.4	Petrol	55	E7J 742	05/92-12/95						DOX-0116	
1.4	Petrol	55	E7J745KAT	08/92-12/95				DOX-1501		DOX-0116	
1.7	Petrol	54	F3N740	04/92-08/95	M			DOX-1006		DOX-0125	
1.7	Petrol	54	F3N740	04/92-08/95	M			DOX-1310		DOX-0125	
1.7	Petrol	54	F3N741	04/92-08/95	A			DOX-1006		DOX-0125	
1.7	Petrol	54	F3N741	04/92-08/95	A			DOX-1310		DOX-0125	
1.7	Petrol	66	F3N 743	04/92-12/95				DOX-1501		DOX-0116	
1.7	Petrol	66	F3N743	04/92-09/93	A			DOX-1501		DOX-0116	
1.8	Petrol	65/66	F3P705; F3P707; F3P765	04/92-12/95	A					DOX-0116	
1.8	Petrol	65/66/79	F3P682; F3P704; F3P706	04/92-12/95	M					DOX-0116	
1.8	Petrol	65/66/79/81	F3P 682; F3P 700; F3P 704; F3P 705; F3P 706; F3P 707; F3P 708; F3P 760; F3P 764; F3P 765	04/92-12/95				DOX-1501		DOX-0116	
1.8 16V	Petrol	99	F7P 704	04/92-12/95	M			DOX-1501		DOX-0116	
21											
1.7	Petrol	54	F3N 726; F3N718; F3N726	07/86-06/93	M			DOX-1310		DOX-0125	
1.7	Petrol	66	F3N 722; F3N 723	09/89-02/94		Ch: H9001>		DOX-1501		DOX-0116	
1.7	Petrol	66	F3N 722; F3N 723	09/89-02/94		Ch: S1241>		DOX-1501		DOX-0116	
1.7	Petrol	66	F3N 722; F3N 723	09/89-02/94		Ch: U1>		DOX-1501		DOX-0116	
1.7	Petrol	66	F3N 722; F3N 723; F3N722	09/89-02/94				DOX-1501		DOX-0116	
1.7	Petrol	66	F3N723	09/89-04/93	A					DOX-0116	
1.7	Petrol	66/69	F3N 722; F3N 723; F3N722	06/86-12/93		Ch: H00007401>		DOX-1501		DOX-0116	
1.7	Petrol	66/69	F3N722	06/86-04/93	M					DOX-0116	
1.7	Petrol	69	F3N722	09/86-04/93	M	Ch: H9001>		DOX-1501		DOX-0116	
1.7	Petrol	69	F3N722	09/86-04/93	M	Ch: S1241>		DOX-1501		DOX-0116	
1.7	Petrol	69	F3N722	09/86-04/93	M	Ch: U1>		DOX-1501		DOX-0116	
2.0	Petrol	88	J7R746	09/89-04/92	M					DOX-0116	
2.0	Petrol	88	J7R747	09/89-12/93	A					DOX-0116	
2.0	Petrol	88/99	J7R 740; J7R 746; J7R 747	02/90-06/94				DOX-1501		DOX-0116	
2.0	Petrol	99	J7R 740	02/90-04/93	M					DOX-0116	
2.0 4x4	Petrol	88/99	J7R 740; J7R 746; J7R 747	12/89-02/94				DOX-1501		DOX-0116	
2.0 4x4	Petrol	99	J7R 740	12/89-03/93	M					DOX-0116	
2.0 Turbo	Petrol	119	J7R 756	02/90-10/92				DOX-1501		DOX-0116	
2.0 Turbo	Petrol	119	J7R 756	02/90-10/92	M					DOX-0116	
2.0 Turbo 4x4	Petrol	119	J7R 756	02/90-10/92				DOX-1501		DOX-0116	
2.0 Turbo 4x4	Petrol	119	J7R 756	02/90-10/92	M					DOX-0116	
2.0 TXi	Petrol	100	J7R740	07/89-05/93				DOX-1501		DOX-0116	
2.1 Turbo-D	Diesel	65	J8S 714; J8S 786; J8S 788	07/90-02/92				DOX-1501		DOX-0116	
2.2	Petrol	79	J7T754	06/86-11/93	M			DOX-1006		DOX-0125	
2.2	Petrol	79	J7T754	09/89-11/93		Ch: >S00006709		DOX-1501		DOX-0116	
2.2	Petrol	79/81	J7T 755; J7T755	08/86-11/93	A			DOX-1006		DOX-0125	
2.2 4x4	Petrol	79	J7T 754; J7T 755	07/90-11/93				DOX-1501		DOX-0116	
2.2 4x4	Petrol	79	J7T754	06/87-12/93	M			DOX-1006		DOX-0125	
25											
2.0 12V	Petrol	103	J7R726	06/89-06/92	M					DOX-0116	
2.0 12V	Petrol	99	J7R 726	06/89-12/92				DOX-1501		DOX-0116	
2.2	Petrol	76/79	J7T708; J7T732	11/85-06/92	M			DOX-1006		DOX-0125	
2.2	Petrol	79	J7T733	06/87-06/92	A			DOX-1006		DOX-0125	
2.5 V6 Turbo	Petrol	151	Z7U 700	01/90-12/92				DOX-1501		DOX-0116	
2.8 V6 Injection	Petrol	100	Z7W 702	06/86-02/88	M			DOX-1006		DOX-0125	
AVANTIME											
2.0 16V Turbo	Petrol	120	F4R760	11/01-05/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R761	11/01-05/03	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
3.0 V6	Petrol	152	L7X 720; L7X 721	09/01-05/03	M		L/R	DOX-2005	DOX-2005	DOX-0150	DOX-0150
3.0 V6	Petrol	152	L7X721	09/01-05/03	A		L/R	DOX-2005	DOX-2005	DOX-0150	DOX-0150
CLIO I (90-98)											
1.2	Petrol	40	C3G 720	12/94-02/96	M					DOX-0123	
1.2	Petrol	40	C3G 720	01/96-02/96				DOX-1556		DOX-0123	
1.2	Petrol	40	E7F 706	01/91-02/98				DOX-1501		DOX-0116	
1.2	Petrol	40/43	D7F 730; E7F 700; E7F 708; E7F 750	05/90-02/98	M					DOX-0116	
1.2	Petrol	40/43	E7F 706; E7F700	05/90-02/98	M			DOX-1501		DOX-0116	
1.2	Petrol	43	D7F 730	04/96-02/98				DOX-1503		DOX-0116	
1.2	Petrol	43	E7F708; E7F750	01/94-02/98	M			DOX-1502		DOX-0116	
1.2	Petrol	44	E7F 750	01/91-02/96	M					DOX-0116	
1.2	Petrol	44	E7F 750	01/91-02/96	M					DOX-0125	
1.2	Petrol	44	E7F 750	01/94-03/96				DOX-1594		DOX-0115	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
RENAULT *continued*											
CLIO I (90-98) *continued*											
1.4	Petrol	55	E7J756	01/91-02/98	M			DOX-1502		DOX-0116	
1.4	Petrol	55	E7J757	01/91-02/98	A			DOX-1350		DOX-0116	
1.4	Petrol	58	E7J754	03/96-02/98	M					DOX-0116	
1.4	Petrol	58/59	E7J710; E7J718	01/91-02/98	M			DOX-1501		DOX-0116	
1.4	Petrol	58/59	E7J711; E7J719	01/91-02/98	A			DOX-1501		DOX-0116	
1.8	Petrol	65/66	F3P714; F3P754	01/91-02/96	M					DOX-0116	
1.8	Petrol	65/66/70	F3P 710; F3P 714; F3P 754; F3P 755	01/91-02/98				DOX-1501		DOX-0116	
1.8	Petrol	65/70	F3P 710; F3P 714	01/91-02/98	M					DOX-0116	
1.8	Petrol	66	F3P755	08/94-02/98	A					DOX-0116	
1.8 16V	Petrol	99	F7P 722	01/91-03/96	M					DOX-0116	
1.8 16V	Petrol	99	F7P 722	04/91-03/96				DOX-1501		DOX-0116	
1.8 Rsi	Petrol	79/80	F3P 712; F3P 758	01/93-02/98				DOX-1501		DOX-0116	
Williams	Petrol	108	F7R 700	01/94-02/96	M					DOX-0116	
Williams	Petrol	108	F7R 700	01/94-09/98				DOX-1501		DOX-0116	
CLIO II (98-)											
1.0	Petrol	40	CG10DE	04/01-05/01	M			DOX-1503		DOX-0116	
1.0	Petrol	52	D4D700; D4D706	06/01-12/04	M					DOX-0121	DOX-0121
1.1	Petrol	43	D7F 720; D7F 726; D7F 746	04/01-12/04	M			DOX-2002		DOX-0150	
1.1	Petrol	43	D7F720; D7F722	09/98-12/04	M					DOX-0116	
1.1	Petrol	43	D7F764); D7F766	04/01-12/04	M				DOX-2002	DOX-0150	DOX-0150
1.2	Petrol	43	D7F720	09/98-12/04	M			DOX-1503		DOX-0116	
1.2	Petrol	43/44	D7F726; D7F766	04/01-12/05	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.2	Petrol	44	D7F 722	03/99-05/01	M			DOX-2002		DOX-0116	
1.2	Petrol	44	D7F 722	03/99-05/01	M					DOX-0150	
1.2	Petrol	44	D7F722	10/99-10/03				DOX-1594		DOX-0115	
1.2	Petrol	55	D4F728	06/01-10/03	M					DOX-0121	DOX-0121
1.2 16V	Petrol	55	D4F706; D4F712; D4F722; D4F728	06/01-06/06	M					DOX-0121	DOX-0121
1.4	Petrol	55	E7J 780	09/98-05/05	M					DOX-0116	DOX-0121
1.4 16V	Petrol	70/72	K4J710; K4J712	10/99-12/04	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.4 16V	Petrol	70/72	K4J711; K4J713	10/99-03/06	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	66	K7M744	09/98-12/04	M					DOX-0116	
1.6	Petrol	66	K7M745	09/98-12/04	A					DOX-0116	
1.6 16V	Petrol	79	K4M708; K4M744	04/01-12/04	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M740	04/01-12/04	M			DOX-2002		DOX-0116	
1.6 16V	Petrol	79	K4M740	04/01-12/04	M					DOX-0150	
1.6 16V	Petrol	79	K4M742	04/01-12/04	M			DOX-2002		DOX-0150	
1.6 16V	Petrol	79	K4M743	04/01-12/04	A			DOX-2002		DOX-0150	
1.6 16V	Petrol	79	K4M745	04/01-12/04	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M748	09/98-12/04	M			DOX-2002	DOX-2002	DOX-0150	DOX-0114
1.6 16V	Petrol	79	K4M748	09/98-12/04	M						DOX-0150
2.0 16V Sport	Petrol	124/132	F4R 730; F4R 738	02/00-12/04	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
3.0 V6 Sport	Petrol	166/187	L7X 760; L7X 762	11/00-05/05	M		L/R	DOX-2005	DOX-2005	DOX-0150	DOX-0150
CLIO III (05-)											
1.2 16V	Petrol	55	D4F 740	06/05-06/06		Eng No: >061009				DOX-0121	DOX-0121
1.4 16V	Petrol	72	K4J 780	06/05-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	65/82	K4M 804; K4M800	06/05-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	82	K4M801	06/05-	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
ESPACE (84-92)											
2.2	Petrol	79	J7T 770	07/86-12/90	M			DOX-1006		DOX-0125	
2.2 Quadra	Petrol	79	J7T 770	01/88-12/90	M			DOX-1006		DOX-0125	
ESPACE (91-96)											
2.0	Petrol	76	J7R 768	02/93-10/96	M					DOX-0116	
2.0	Petrol	76	J7R 768	04/93-10/96		Ch: T12552>		DOX-1501		DOX-0116	
2.2	Petrol	79	J7T772; J7T776	01/91-10/96	M					DOX-0116	
2.2	Petrol	79	J7T773	01/91-10/96	A					DOX-0116	
2.2 4x4	Petrol	79	J7T772	03/91-08/96				DOX-1501		DOX-0116	
2.8 V6	Petrol	110	Z7W712	07/94-10/96	M					DOX-0116	
2.8 V6	Petrol	110	Z7W712; Z7W713	09/94-10/96		Ch: T18371>		DOX-1501		DOX-0116	
2.8 V6	Petrol	110	Z7W713; Z7W717	01/91-10/96	A					DOX-0116	
2.8 V6	Petrol	110	Z7W717	05/94-10/96				DOX-1501		DOX-0116	
ESPACE (96-02)											
2.0	Petrol	102	F4R700	09/01-10/02	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	102	F4R701	09/01-10/02	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	84	F3R 728; F3R 729; F3R 742; F3R 768; F3R 769	11/96-10/00				DOX-1572		DOX-0114	
2.0	Petrol	84	F3R728; F3R768	11/96-06/00	M					DOX-0114	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
RENAULT *continued*											
ESPACE (96-02) *continued*											
2.0	Petrol	84	F3R729; F3R769	11/96-06/00	A					DOX-0114	
2.0 16V	Petrol	103	F4R700	10/98-10/02	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	103	F4R701	07/00-10/02	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
ESPACE (02-)											
2.0	Petrol	100	F4R 792	11/02-				DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	125	F4R796	04/05-				DOX-2002		DOX-0150	
2.0	Petrol	125	F4R797	04/05-02/06	A			DOX-2002		DOX-0150	
2.0 Turbo	Petrol	120	F4R794	11/02-02/06	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 Turbo	Petrol	120	F4R795	11/02-02/06	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
GRAND SCÉNIC (04-)											
1.6	Petrol	83	K4M782; K4M812	04/04-07/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	99	F4R771	04/04-04/09	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	99/120	F4R 776; F4R770	04/04-07/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
KANGOO (97-)											
1.2	Petrol	43	D7F710	08/97-12/05	M			DOX-1594		DOX-0115	
1.2	Petrol	43	D7F710	08/97-12/07				DOX-1503		DOX-0116	
1.2	Petrol	43	D7F720 (PR)	03/98-02/03	M					DOX-0116	
1.2	Petrol	43	D7F726; D7F744; D7F746	03/03-12/05	M			DOX-2002		DOX-0150	
1.2	Petrol	43/44	D7F720 (PR); D7F720; D7F722	08/97-12/07				DOX-1503		DOX-0116	
1.2	Petrol	43/44	D7F720 (PR); D7F720; D7F722	03/98-09/07	M			DOX-1503		DOX-0116	
1.2 16V	Petrol	55	D4F712; D4F714; D4F730	03/02-12/07	M					DOX-0121	DOX-0121
1.4	Petrol	55	E7J780	08/97-02/03	M					DOX-0116	
1.4	Petrol	55	K7J700	06/01-12/03	M						DOX-0121
1.4	Petrol	55	K7J701	03/03-12/03	A						DOX-0121
1.6 16V	Petrol	70	K4M 752	03/03-12/07				DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	70	K4M750; K4M752	03/03-12/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	70	K4M753	03/03-12/07	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V 4x4	Petrol	70	K4M750	10/01-12/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
KANGOO (08-)											
1.6 16V	Petrol	78	K4M 830	02/08-				DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	78	K4M 830; K4M831	02/08-	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	78	K4M830	02/08-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
KANGOO BE BOP											
1.6	Petrol	78	K4M 830	02/09-03/11	M			DOX-2002		DOX-0150	
KOLEOS											
2.5	Petrol	126	2TR700; 2TR702	09/08-	M			DOX-1447			
2.5	Petrol	126	2TR703	09/08-	A			DOX-1447			
2.5 4x4	Petrol	126	2TR700; 2TR702	09/08-	M			DOX-1447			
2.5 4x4	Petrol	126	2TR703	09/08-	A			DOX-1447			
LAGUNA (93-01)											
1.6 16V	Petrol	79	K4M 720	05/98-03/01	M			DOX-2002		DOX-0150	DOX-0114
1.8	Petrol	66	F3P670	08/95-03/01	M			DOX-1572		DOX-0114	
1.8	Petrol	66/69	F3P678; F3P720; F3P724	11/93-04/98	M			DOX-1350		DOX-0116	
1.8	Petrol	66/70	F3P670; F3P676	09/95-06/98				DOX-1572		DOX-0114	
1.8	Petrol	69	F39724	08/95-03/01				DOX-1593		DOX-0115	
1.8	Petrol	69	F3P 674	06/95-01/96	M			DOX-1350		DOX-0116	
1.8	Petrol	69	F3P 674	09/95-02/01				DOX-1572		DOX-0114	
1.8	Petrol	69	F3P674; F3P676G	05/98-03/01	M					DOX-0114	
1.8	Petrol	70	F3P 676	06/95-06/98	M			DOX-1350		DOX-0114	
1.8	Petrol	70	F3P 676	06/95-06/98	M					DOX-0116	
1.8 16V	Petrol	88	F4P 760	04/98-03/01	M			DOX-2002		DOX-0150	
2.0	Petrol	102	F4R 780	09/99-02/01	M			DOX-2002		DOX-0150	
2.0	Petrol	80	F3R 611	03/99-03/01	A					DOX-0114	
2.0	Petrol	80/84	F3R 611; F3R 768	05/98-03/01				DOX-1572		DOX-0114	
2.0	Petrol	83	F3R 722; F3R 723	05/98-03/01	A					DOX-0114	
2.0	Petrol	83	F3R 722; F3R 723	09/95-03/01				DOX-1593		DOX-0115	
2.0	Petrol	83	F3R722	11/93-05/97	M			DOX-1350		DOX-0116	
2.0	Petrol	83	F3R723	11/93-05/97	A			DOX-1350		DOX-0116	
2.0	Petrol	83	F3R728	07/95-04/98	M					DOX-0114	
2.0	Petrol	83	F3R729	07/95-04/98	A					DOX-0114	
2.0	Petrol	84	F3R 768	10/98-01/01	M					DOX-0114	
2.0 16V	Petrol	103	F4R 780	09/99-03/01	M			DOX-2002		DOX-0150	
LAGUNA (01-07)											
1.6 16V	Petrol	79	K4M711	03/01-02/05	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79/82	K4M 710; K4M 714; K4M 716; K4M710	03/01-09/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 FlexFuel	Petrol	76	K4M 718	06/01-10/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
RENAULT *continued*											
LAGUNA (01-07) *continued*											
1.8 16V	Petrol	85/86/ 88/89	F4P 770; F4P770; F4P772; F4P774	03/01-09/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.8 16V	Petrol	85/88	F4P771; F4P773; F4P775	03/01-09/07	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.8 16V	Petrol	89	F4P 770; F4P 774	03/05-09/07				DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	99/125	F4R713; F4R715; F4R787	08/02-09/07	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	99/125/ 150	F4R 886; F4R 887; F4R712; F4R714; F4R786	08/02-09/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V IDE	Petrol	103	F5R700	04/01-09/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V IDE	Petrol	103	F5R701	04/01-09/07	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R764	01/03-09/07				DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R765	01/03-09/07	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
3.0 V6 24V	Petrol	152	L7X 731	03/01-09/07	A		L/R	DOX-2005	DOX-2005	DOX-0150	DOX-0150
LAGUNA (07-)											
1.6 16V	Petrol	81	K4M 824	10/07-11/10	M			DOX-2002		DOX-0150	
2.0 16V Hi-Flex	Flexfuel	103	M4R 726; M4R726	07/09-	M				DOX-2005		DOX-0150
MEGANE I (95-03)											
1.4	Petrol	55	E7J764	09/96-02/99	M			DOX-1350		DOX-0116	
1.4 16V	Petrol	70	K4J700; K4J714; K4J750	03/99-02/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M700; K4M708; K4M712	03/99-02/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M701; K4M709	03/99-02/03				DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M704	03/99-02/03	M			DOX-2002		DOX-0150	
1.6 16V	Petrol	79	K4M706	01/00-11/01	M					DOX-0116	
1.6 e	Petrol	66	K7M702; K7M790	09/96-10/00	M			DOX-1350		DOX-0116	
1.6 e	Petrol	66	K7M703	03/96-03/99	A			DOX-1350		DOX-0116	
1.6 i	Petrol	55	K7M 720	09/96-03/99	M			DOX-1350		DOX-0116	
1.8 16V	Petrol	85	F4P720; F4P722	01/01-02/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	84	F3R 750	04/97-12/98	M					DOX-0114	
2.0 16V	Petrol	102	F4R 746; F4R746	01/02-02/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	108	F7R 710; F7R 714	02/97-12/98	M					DOX-0114	
2.0 16V	Petrol	108	F7R 710; F7R 714	03/96-11/99				DOX-1572		DOX-0114	
2.0 16V	Petrol	108	F7R710; F7R714	03/96-11/99	M					DOX-0114	
2.0 i	Petrol	80/84	F3R 750; F3R 751; F3R 752; F3R 791; F3R 796; F3R 797; F3R 798	03/96-08/03				DOX-1572		DOX-0114	
2.0 i	Petrol	80/84	F3R750; F3R752; F3R796 (PR); F3R798	09/96-02/03	M					DOX-0114	
2.0 i	Petrol	80/84	F3R751; F3R791 (PR); F3R797	09/96-02/03	A					DOX-0114	
MEGANE I (96-03)											
1.4 16V	Petrol	70	K4J714; K4J750	03/99-08/02	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.4 e	Petrol	55	E7J764	01/96-02/99	M			DOX-1350		DOX-0116	
1.4 Eco	Petrol	52	E7J 624	01/96-03/99	M			DOX-1350		DOX-0116	
1.4 i	Petrol	55	E7J 764	01/97-09/99	M			DOX-1350		DOX-0116	
1.6 16V	Petrol	79	K4M700; K4M708; K4M712	04/98-08/02	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M701; K4M709	04/98-08/02	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	79	K4M704	04/98-08/01	M			DOX-2002		DOX-0150	
1.6 16V	Petrol	79	K4M706	04/98-12/01	M			DOX-2002		DOX-0116	
1.6 16V	Petrol	79	K4M706	04/98-12/01	M					DOX-0150	
1.6 e	Petrol	66	K7M702	01/96-10/99				DOX-1350		DOX-0116	
1.6 e	Petrol	66	K7M703	01/96-10/99	A			DOX-1350		DOX-0116	
1.6 e	Petrol	66	K7M790	06/96-03/99	M			DOX-1350		DOX-0116	
1.6 i	Petrol	55	K7M 720	01/96-03/99	M			DOX-1350		DOX-0116	
1.8 16V	Petrol	85	F4P720; F4P722	01/01-08/02	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	108	F4R740	03/01-04/01	M					DOX-0116	
2.0 16V	Petrol	108	F7R 710; F7R 714	07/96-12/98	M					DOX-0114	
2.0 16V	Petrol	108	F7R 710; F7R 714	07/96-09/02				DOX-1572		DOX-0114	
2.0 i	Petrol	80	F3R 796	01/99-09/99	M					DOX-0114	
2.0 i	Petrol	80/84	F3R 750; F3R 751; F3R 796	01/96-09/99				DOX-1572		DOX-0114	
2.0 i	Petrol	80/84	F3R750; F3R796 (PR)	01/96-02/03	M					DOX-0114	
2.0 i	Petrol	80/84	F3R751; F3R791 (PR); F3R797	01/96-02/03	A					DOX-0114	
MEGANE II (02-)											
1.4	Petrol	60/72	K4J 732; K4J730; K4J740	08/03-10/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.4 16V	Petrol	60/72	K4J 732; K4J730; K4J740	11/02-10/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	77/83	K4M 760; K4M 761; K4M 762; K4M 788; K4M760	08/03-10/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	83	K4M761	08/03-10/08	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	82	K4M761; K4M813	01/06-07/09	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	82	K4M812	01/06-07/09	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	82/83	K4M 760; K4M812	11/02-10/08				DOX-2002	DOX-2002	DOX-0150	DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
RENAULT *continued*											
MEGANE II (02-) *continued*											
2.0	Petrol	99	F4R771	08/03-07/09	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	99/169	F4R 774; F4R770	08/03-07/09	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	99	F4R 770	11/02-10/08				DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R 776	05/04-11/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 Renault Sport	Petrol	165	F4R774	05/04-12/05	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
MODUS											
1.2	Petrol	48/55	D4F 740	12/04-12/07	M					DOX-0121	DOX-0121
1.4	Petrol	72	K4J 770	12/04-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	65/82	K4M 794; K4M790	12/04-12/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	82	K4M791; K4M801	12/04-	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	82	K4M800	12/04-				DOX-2002	DOX-2002	DOX-0150	DOX-0150
RAPID											
1.2	Petrol	40	C3G710	09/91-09/97				DOX-1556		DOX-0123	
1.2	Petrol	40	C3G710	07/93-08/97	M					DOX-0123	
1.2	Petrol	40	C3G712	11/96-09/97				DOX-1593		DOX-0115	
1.4	Petrol	43	C3J700; C3J702; C3J760	08/88-08/91	M			DOX-1006		DOX-0125	
1.4	Petrol	43	C3J762	09/91-08/94	M			DOX-1006		DOX-0125	
1.4	Petrol	43	C3J762	07/95-02/97	M	Ch: U034750>		DOX-1501		DOX-0116	
1.4	Petrol	43/54	E7J 720; E7J 724	09/91-08/93				DOX-1501		DOX-0116	
1.4	Petrol	55	E7J720	09/91-08/97	M					DOX-0116	
1.4	Petrol	55	E7J724	09/91-08/97						DOX-0116	
1.4	Petrol	55	E7J770	09/94-08/97				DOX-1350		DOX-0116	
1.4	Petrol	58	E7J 728	01/94-08/97	M					DOX-0116	
1.4	Petrol	58	E7J 728	01/94-10/97				DOX-1594		DOX-0115	
1.4	Petrol	59	E7J 773	05/95-08/97				DOX-1501		DOX-0116	
1.4	Petrol	59	E7J 773	05/95-08/97	M					DOX-0116	
1.4	Petrol	59	E7J 773	05/95-08/97	M					DOX-0125	
SAFRANE I (92-96)											
2.0	Petrol	77	J7R732	11/92-07/96	M			DOX-1350		DOX-0116	
2.0	Petrol	77	J7R733	11/92-07/96	A			DOX-1350		DOX-0116	
2.0 12V	Petrol	97	J7R734	04/92-07/96	M			DOX-1350		DOX-0116	
2.0 12V	Petrol	97	J7R735	04/92-07/96	A			DOX-1350		DOX-0116	
2.2	Petrol	101	J7T761	04/92-07/96	A			DOX-1350		DOX-0116	
2.2	Petrol	79/101	J7T 762; J7T760	04/92-07/96	M			DOX-1350		DOX-0116	
3.0	Petrol	125	Z7X722	02/93-06/96	M			DOX-1350		DOX-0116	
3.0	Petrol	125	Z7X723; Z7X753	02/93-06/96	A			DOX-1350		DOX-0116	
3.0 Biturbo 4x4	Petrol	193	Z7X 726	12/93-07/96	M			DOX-1350		DOX-0116	
3.0 V6	Petrol	123	Z7X722	12/92-07/96	M			DOX-1350		DOX-0116	
3.0 V6	Petrol	123	Z7X723; Z7X753	12/92-07/96	A			DOX-1350		DOX-0116	
3.0 V6 4x4	Petrol	123	Z7X722	12/92-07/96	M			DOX-1350		DOX-0116	
SAFRANE II (96-00)											
3.0 V6	Petrol	123	Z7X 755	10/96-12/00				DOX-1572		DOX-0114	
SCÉNIC I (99-03)											
1.4 16V	Petrol	70	K4J714; K4J750	09/99-04/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	75	K4M708	03/01-04/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	75	K4M709	03/01-04/03	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.8 16V	Petrol	85	F4P720; F4P722	01/01-04/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.8 4x4	Petrol	85	F4P 722	07/00-04/01	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	102	F4R740	07/00-04/03	M			DOX-2002		DOX-0150	
2.0 16V	Petrol	102	F4R741	07/00-04/03	A			DOX-2002		DOX-0150	
2.0 16V	Petrol	102/103	F4R746	09/99-04/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	102/103	F4R747	09/99-04/03	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V RX4	Petrol	102	F4R744	06/00-04/03	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
SCÉNIC II (03-)											
1.4	Petrol	72	K4J730; K4J740	06/03-09/06	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	77/83	K4M 788; K4M782	06/03-04/09	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	83	K4M761	06/03-12/05	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	82	K4M812	01/07-07/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6 16V	Petrol	82	K4M813	01/07-07/08				DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	99	F4R770	06/03-09/06	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0	Petrol	99	F4R771	06/03-09/06	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R 776	05/04-07/08	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
SPORT SPIDER											
2.0	Petrol	108	F7R 710	12/95-08/96	M					DOX-0114	
2.0	Petrol	108	F7R 710	05/96-08/96				DOX-1572		DOX-0114	
2.0 16V	Petrol	110	F7R 710	01/96-10/99	M					DOX-0114	
2.0 16V	Petrol	110	F7R710; F7R712; F7R714; F7R720	05/96-10/99				DOX-1572		DOX-0114	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
RENAULT *continued*											
SUPER 5											
1.4	Petrol	43	C3J700; C3J702; C3J760	10/85-06/91	M			DOX-1006		DOX-0125	
1.7	Petrol	54	F3N716	10/86-08/90	M			DOX-1310		DOX-0125	
1.7	Petrol	54	F3N717	10/86-08/90	A			DOX-1310		DOX-0125	
1.7 i	Petrol	69	F3N 702; F3N 722	10/86-08/91		Ch: F00004691>F00 004822		DOX-1501		DOX-0116	
THALIA (98-03)											
1.2 16V	Petrol	55	D4F 712	04/02-06/06	M					DOX-0121	DOX-0121
1.4	Petrol	55	K7J 700	04/01-	M						DOX-0121
1.4 16V	Petrol	72	K4J 712	01/01-				DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.6	Petrol	66	K7M 746	10/08-	M					DOX-0121	DOX-0121
1.6 16V	Petrol	79	K4M 740	04/02-				DOX-2002		DOX-0150	
1.6 16V	Petrol	79	K4M 740	04/02-	M				DOX-2002	DOX-0116	DOX-0150
THALIA II (08-)											
1.6 16V	Petrol	77	K4M 743	09/08-					DOX-2002		DOX-0150
1.6 16V	Petrol	77	K4M 743	09/08-	M			DOX-2002		DOX-0121	
1.6 16V	Petrol	77	K4M 743	09/08-	M					DOX-0150	
TRAFIC (89-01)											
2.2	Petrol	74	J7T 600	09/94-10/97	M			DOX-1350		DOX-0116	
2.2 4x4	Petrol	74	J7T 600	09/94-10/97	M			DOX-1350		DOX-0116	
TRAFIC II (01-)											
2.0	Petrol	88	F4R 720; F4R720	03/01-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V	Petrol	86	F4R 820	08/06-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
TWINGO (93-07)											
1.2	Petrol	40	C3G700	03/93-05/96				DOX-1556		DOX-0123	
1.2	Petrol	40	C3G700	03/93-10/96	M			DOX-1556		DOX-0123	
1.2	Petrol	40	C3G702	03/93-10/96	M			DOX-1350		DOX-0116	
1.2	Petrol	40	D7F700 (PR)	05/96-08/98	M					DOX-0116	
1.2	Petrol	40	D7F700; D7F701	09/96-11/99				DOX-1503		DOX-0116	
1.2	Petrol	40	D7F701 (PR)	05/96-08/98	A					DOX-0116	
1.2	Petrol	43	D7F700; D7F701; D7F706	05/96-12/99				DOX-1503		DOX-0116	
1.2	Petrol	43	D7F700; D7F706	05/96-08/04	M			DOX-1503		DOX-0114	
1.2	Petrol	43	D7F700; D7F706	05/96-08/04	M					DOX-0116	
1.2	Petrol	43	D7F701	05/96-08/04	A			DOX-1503		DOX-0114	
1.2	Petrol	43	D7F701	05/96-08/04	A					DOX-0116	
1.2	Petrol	43	D7F702; D7F703; D7F704	11/99-06/07	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
1.2 16V	Petrol	44/55	D4F 702; D4F 708	01/01-06/06	M					DOX-0121	DOX-0121
TWINGO (07-)											
1.2	Petrol	43	D7F 800	07/07-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
VEL SATIS											
2.0 16 V Turbo	Petrol	125	F4R766	02/05-	M			DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R 762; F4R 763	06/02-01/05				DOX-2002	DOX-2002	DOX-0150	DOX-0150
2.0 16V Turbo	Petrol	120	F4R767	06/02-	A			DOX-2002	DOX-2002	DOX-0150	DOX-0150
ROVER											
25 (99-05)											
1.1 16V	Petrol	55	11 K4F	01/04-05/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.4 16V	Petrol	62/76	14 K4F; 14 K4M	10/99-05/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.6 16V	Petrol	80	16 K4F	10/99-05/05				DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.8 16V	Petrol	107	18 K4K	02/00-07/04				DOX-2017		DOX-0150	
1.8 16V	Petrol	85	18 K4F	10/99-05/05	A			DOX-2017		DOX-0150	
45 (00-05)											
1.4	Petrol	76	14 K4F	02/00-05/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.6	Petrol	80	16 K4F	02/00-05/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.8	Petrol	86	18 K4F	02/00-05/05				DOX-2017	DOX-2042	DOX-0150	DOX-0150
2.0 V6	Petrol	110	20 K4F	02/00-05/05					DOX-2042		DOX-0150
2.0 V6	Petrol	110	20 K4F	02/00-05/05			L/R			DOX-0119	
75											
1.8	Petrol	88	K 1.8	02/99-06/04		Ch: 310026>					DOX-0119
1.8	Petrol	88	K 1.8	02/99-05/05						DOX-0119	DOX-0119
1.8 Turbo	Petrol	110	18 K4G	03/04-05/05						DOX-0119	DOX-0119
2.0 V6	Petrol	110	20 K4F	02/99-06/04		Ch: 310026>					DOX-0119
2.0 V6	Petrol	110	20 K4F	02/99-05/05			L/R			DOX-0119	
2.0 V6	Petrol	110	20 K4F	08/01-05/05							DOX-0119
2.5 V6	Petrol	129	KV 6	02/99-10/01	A	Ch: 310026>					DOX-0119
2.5 V6	Petrol	129	KV 6	02/99-10/01	A		L/R			DOX-0119	
2.5 V6	Petrol	129/130	25 K4F; KV 6	02/99-06/04		Ch: 310026>					DOX-0119
2.5 V6	Petrol	129/130	25 K4F; KV 6	02/99-05/05			L/R			DOX-0119	
2.5 V6	Petrol	130	25 K4F; KV 6	08/01-05/05							DOX-0119

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
ROVER *continued*											
100 (METRO) (90-98)											
111 C/L/S	Petrol	44	11K2D	09/90-12/98	M					DOX-0120	
114 GTI 16V	Petrol	69/76	14 K4F; 14K4C	03/90-12/98	M					DOX-0120	
114 GTI/GT 16V CAT	Petrol	66	14K4D	03/90-12/98	M					DOX-0120	
114 S/L/GTA	Petrol	55	14K2D	12/90-12/98						DOX-0120	
100 (94-98)											
111	Petrol	44	11 K2D	04/94-10/97	M					DOX-0120	
114	Petrol	55/75	14 K4F; 14K2D	04/94-10/98	M					DOX-0120	
200 (89-00)											
211	Petrol	44	11 K2D	01/98-11/99	M					DOX-0120	
214	Petrol	55	14K2D	09/93-10/95	M					DOX-0120	
214 GSi/Si	Petrol	70/76	14 K4C; 14 K4F	01/90-10/95	M					DOX-0120	
214 i	Petrol	55	14 K2F	11/95-11/99	M					DOX-0120	
214 Si	Petrol	76	14 K4F	11/95-11/99	M					DOX-0120	
214 Si/Gsi	Petrol	66	14K2D; 14K4D	10/89-09/92	M					DOX-0120	
216	Petrol	90	D 16 A8	10/92-03/96	M			DOX-1004		DOX-0125	
216 GSi	Petrol	82/85	D 16 A7; D 16 Z2	10/89-10/95				DOX-1004		DOX-0125	
216 GSi	Petrol	85	D 16 A7	04/91-10/95	M			DOX-1004		DOX-0125	
216 GTi	Petrol	90/96	D 16 A8; D 16 A9	09/90-10/95	M			DOX-1004		DOX-0125	
216 Si	Petrol	82	16 K4F	11/95-11/99						DOX-0120	
218 K Vi	Petrol	107	18 K4K	10/96-11/99	M					DOX-0120	
220 GSi	Petrol	100	20 T4H	05/94-03/96	M					DOX-0120	
220 GTi	Petrol	100/103	20 M4F; 20 T4H	09/91-10/95	M					DOX-0120	
220 Turbo	Petrol	147	20 T4G	10/92-03/96	M					DOX-0120	
400 (90-98)											
1.6 i	Petrol	82/90	D 16 A8; D 16 Z2	05/94-04/95	M			DOX-1004		DOX-0125	
1.8 i	Petrol	107	18 K4K	06/96-10/97	M					DOX-0120	
2.0 i	Petrol	100	20 T4H	05/94-04/95	M					DOX-0120	
414	Petrol	70	14 K4C	01/93-04/95	M	+ Catalyst				DOX-0120	
414 GSI/SI	Petrol	66	14K4C; 14K4D	04/90-09/92	M	+ Catalyst				DOX-0120	
414 GSI/SI CAT	Petrol	76	14 K4F	01/93-04/95	M	+ Catalyst				DOX-0120	
416 GSI	Petrol	82	D 16 Z2	04/90-04/95				DOX-1004		DOX-0125	
416 GSI	Petrol	82	D 16 Z2	04/90-04/95	A			DOX-1004		DOX-0125	
416 GSI/GSE	Petrol	85	D 16 A7	04/90-04/95				DOX-1004		DOX-0125	
416 GTI	Petrol	90	D 16 A8	04/90-09/92				DOX-1004		DOX-0125	
416 GTI/GTE	Petrol	96	D 16 A9	04/90-09/92				DOX-1004		DOX-0125	
420 GSI/SLI/GTI/Vite	Petrol	100	20 T4H	01/93-04/95	M					DOX-0120	
420 GTI/GSI/Vitesse	Petrol	103	20 M4F	02/92-09/92	M					DOX-0120	
420 Turbo	Petrol	147	20 T4G	01/93-04/95	M					DOX-0120	
400 (95-00)											
414 Si	Petrol	76	14 K4F	05/95-03/00	M					DOX-0120	
416 Si	Petrol	82/83	16 K4F; D 16 Y2	05/95-03/00	M					DOX-0120	
420 Si Lux	Petrol	100	20 T4H	12/95-03/00	M					DOX-0120	
600											
620 Ti Vitesse	Petrol	147	20 T4G	07/94-02/99	M					DOX-0120	
800											
820 16V Turbo	Petrol	132	T 16	01/92-12/95	M					DOX-0120	
820 I/SI	Petrol	100	20 T4H	01/92-01/96		Ch: 152057>				DOX-0120	
820 I/SI	Petrol	100	20 T4H	01/92-02/99		Ch: >152056				DOX-0120	
820 I/SI	Petrol	100	20 T4H	01/96-09/98						DOX-0120	
CABRIOLET (93-00)											
214 1.4	Petrol	66/70	14 K4C; 14K4D	04/90-09/92	M					DOX-0120	
214 1.4i 16V	Petrol	76	14 K4F	01/93-03/96	M					DOX-0120	
216 1.6i	Petrol	90	D 16 A8	01/92-03/96	M			DOX-1004		DOX-0125	
216 1.6i 16V	Petrol	82	16 K4F	01/96-03/96	M			DOX-1004		DOX-0125	
216 1.6i 16V	Petrol	82	16 K4F	01/96-06/99						DOX-0120	
COUPE											
1.6 16 V	Petrol	82	16 K4F	03/96-06/99						DOX-0120	
1.8 16 V	Petrol	107	18 K4K	03/96-06/99	M					DOX-0120	
MINI MK I (91-01)											
1300	Petrol	37/39/46	12 A2B; 12 A2D; 12 A2E; 12 A2L; 12A2E; 12A2L	04/92-06/99	M					DOX-0120	
STREETWISE											
1.4	Petrol	62/76	14 K4F; 14 K4M	08/03-05/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.6	Petrol	80	16 K4F	08/04-05/05	M			DOX-2017	DOX-2042	DOX-0150	DOX-0150
1.8	Petrol	86	18 K4F	08/03-05/05	A			DOX-2017		DOX-0150	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
SAAB											
9-3 (98-03)											
2.0 SE Turbo	Petrol	147	B204R	07/99-08/03						DOX-0117	
2.0 Turbo	Petrol	110	B205E	01/01-08/03	M			DOX-2021	DOX-2022	DOX-0150	DOX-0150
2.0 Turbo	Petrol	110/151	B205E; B205R	10/99-08/03				DOX-2021	DOX-2022	DOX-0150	DOX-0150
2.0 Turbo	Petrol	113/136	B204E; B204L	10/98-08/03						DOX-0117	
2.3 Turbo	Petrol	165	B235R	10/98-08/03	M			DOX-2021	DOX-2022	DOX-0150	DOX-0150
9-3 (02-)											
1,8t	Petrol	110	B207E	07/04-				DOX-2005	DOX-2022	DOX-0150	DOX-0150
1.8 i	Petrol	90	Z 18 XE	01/04-	M			DOX-1569	DOX-1568	DOX-0119	DOX-0119
1.8 t	Petrol	110	B207E	03/05-				DOX-2005	DOX-2022	DOX-0150	DOX-0150
2.0 t	Petrol	129	B207L	07/04-				DOX-2005	DOX-2022	DOX-0150	DOX-0150
2.0 T	Petrol	154	B207R	07/04-				DOX-2005	DOX-2022	DOX-0150	DOX-0150
2.8 Turbo V6	Petrol	184	LP9	03/05-					DOX-2050		DOX-0150
9-5 (97-)											
2.0 t	Petrol	110/136/141	B204R; B205E; B205L	09/97-08/01		Leaded				DOX-0117	
2.0 t	Petrol	110/136/141	B204R; B205E; B205L	09/97-02/07				DOX-2021	DOX-2022	DOX-0117	DOX-0150
2.0 t	Petrol	110/136/141	B204R; B205E; B205L	09/97-02/07						DOX-0150	
2.0 T Biopower	Petrol	132	B205E	02/06-07/08				DOX-2021	DOX-2022	DOX-0150	DOX-0150
2.0 Turbo SE	Petrol	141	B205E	10/98-07/00					DOX-2022	DOX-0117	DOX-0150
2.0 Turbo SE	Petrol	141	B205E	10/98-07/00		Leaded				DOX-0117	
2.3 t	Petrol	125/136	B235E	09/97-08/01		Leaded				DOX-0117	
2.3 t	Petrol	125/136	B235E	09/97-01/05				DOX-2021	DOX-2022	DOX-0117	DOX-0150
2.3 t	Petrol	125/136	B235E	09/97-01/05						DOX-0150	
2.3 t BioPower	Flexfuel	136	B235E	01/07-02/07				DOX-2021	DOX-2022	DOX-0150	DOX-0150
2.3 Turbo	Petrol	162/184/191	B235L; B235R	09/01-07/09				DOX-2021	DOX-2022	DOX-0150	DOX-0150
2.3 Turbo	Petrol	169	B235R	10/99-09/01				DOX-2021	DOX-2022	DOX-0150	DOX-0150
2.3 Turbo	Petrol	169	B235R	10/99-09/01		Leaded				DOX-0117	
3.0 V6t	Petrol	147	B308E	01/98-08/03	A	Ch: Y3040000>		DOX-2021	DOX-2009	DOX-0150	DOX-0150
3.0 V6t	Petrol	147	B308E	01/98-	A	Ch: >Y3040000				DOX-0117	
900 (93-98)											
2.0 -16 Turbo	Petrol	136	B204L	07/93-02/98	M					DOX-0117	
9000 (84-98)											
2.3 -16 Aero CS	Petrol	165	B234R	07/93-07/98	M	Leaded				DOX-0117	
2.3 -16 CD Turbo	Petrol	147	B234L	07/90-07/98		Leaded				DOX-0117	
2.3 -16 CDE Eco-Power	Petrol	125	B234E	07/94-07/98		Leaded				DOX-0117	
SEAT											
ALHAMBRA (96-10)											
1.8 T 20V	Petrol	110	AJH	05/98-03/10				DOX-1552		DOX-0117	
1.8 T 20V	Petrol	110	AWC	06/00-03/10					DOX-2027		DOX-0150
2.0 i	Petrol	85	ATM	06/00-03/10					DOX-2027		DOX-0150
2.8 V6	Petrol	150	AYL	06/00-03/10					DOX-2038		DOX-0150
2.8 V6	Petrol	150	AYL	06/00-03/10					DOX-2047		DOX-0150
2.8 V6 4motion	Petrol	150	AYL	05/02-03/10	M				DOX-2038		DOX-0150
2.8 V6 4motion	Petrol	150	AYL	05/02-03/10	M				DOX-2047		DOX-0150
ALHAMBRA (10-)											
1.4 TSI	Petrol	110	CAVA	06/10-							DOX-0150
2.0 TSI	Petrol	147	CCZA	11/10-	A						DOX-0150
ALTEA (04-)											
1.4 16V	Petrol	63	BXW; CGGB	05/06-	M					DOX-0119	DOX-0119
1.6	Petrol	75	BGU; BSE; CCSA; CMXA	03/04-	M						DOX-0119
1.6	Petrol	75	BSF	05/05-							DOX-0119
1.6 LPG	Petrol/Petroleum Gas (LPG)	75	CHGA	09/09-	M						DOX-0119
1.8 TFSI	Petrol	118	CDAA	03/09-					DOX-2041		DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	05/04-03/09							DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	05/04-03/09			L	DOX-2041		DOX-0150	
2.0 TFSI	Petrol	147	BWA	04/06-05/09					DOX-2016		DOX-0150
ALTEA XL (06-)											
1.4 16V	Petrol	63	BXW; CGGB	10/06-	M					DOX-0119	DOX-0119
1.6	Petrol	75	BSE; CCSA; CMXA	10/06-	M						DOX-0119
1.6	Petrol	75	BSF	10/06-							DOX-0119
1.6 LPG	Petrol/Petroleum Gas (LPG)	75	CHGA	09/09-	M						DOX-0119

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
SEAT *continued*											
ALTEA XL (06-) *continued*											
1.8 TFSI	Petrol	118	CDAA	03/09-					DOX-2041		DOX-0150
2.0 FSI	Petrol	110	BVY	10/06-03/09							DOX-0150
2.0 FSI	Petrol	110	BVY	10/06-03/09			L	DOX-2041		DOX-0150	
2.0 TFSI 4x4	Petrol	147	BWA	06/07-05/09	M				DOX-2016		DOX-0150
2.0 TFSI 4x4	Petrol	155	CCZB	05/09-	A				DOX-2041		DOX-0150
AROSA (97-04)											
1.0	Petrol	37	AER	05/97-06/04	M			DOX-1573		DOX-0114	
1.0	Petrol	37	AHT	10/98-01/01	M			DOX-1552		DOX-0117	
1.0	Petrol	37	ALD	07/99-06/04	M			DOX-2008		DOX-0150	
1.0	Petrol	37	ALL	05/97-06/04	M			DOX-1551		DOX-0117	
1.0	Petrol	37	ANV	08/01-06/04	M				DOX-2038		DOX-0150
1.0	Petrol	37	AUC	06/00-06/04	M				DOX-2038		DOX-0150
1.0	Petrol	37	AUC	08/01-06/04	M	Ch: >3-009 600			DOX-2038		DOX-0150
1.0	Petrol	37	AUC	09/02-06/04	M	Ch: 3-009 601>			DOX-2030		DOX-0150
1.4	Petrol	44	AEX; AKV; APQ	05/97-06/04				DOX-1551		DOX-0117	
1.4	Petrol	44	AKK	07/99-06/04				DOX-2008		DOX-0150	
1.4	Petrol	44	ANW; AUD	01/99-06/04					DOX-2038		DOX-0150
1.4	Petrol	44	AUD	08/00-06/04	M	Ch: >3-002 400			DOX-2038		DOX-0150
1.4 16V	Petrol	74	AFK	01/00-06/04	M			DOX-1551		DOX-0117	
1.4 16V	Petrol	74	AQQ; AUB	01/00-06/04	M				DOX-1562		DOX-0119
CORDOBA (93-99)											
1.0 i	Petrol	37	AER	06/97-10/98	M	Ch: >X-127 000		DOX-1171		DOX-0117	
1.0 i	Petrol	37	AER	10/98-06/99	M	Ch: X-127 001>		DOX-1551		DOX-0117	
1.4 i	Petrol	44	ABD	06/94-11/95	M			DOX-1172		DOX-0114	
1.4 i	Petrol	44	ABD	06/94-11/95	M					DOX-0118	
1.4 i	Petrol	44	AEX	09/95-11/97	M			DOX-1171		DOX-0114	
1.4 i	Petrol	44	AEX	09/95-11/97	M					DOX-0117	
1.4 i	Petrol	44	AEX	07/96-04/97	M	Ch: >V-165 000				DOX-0114	
1.4 i	Petrol	44	AEX	04/97-12/97	M	Ch: V-165 001>		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AKV; APQ	09/97-10/98	M	Ch: >X-127 000		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AKV; APQ	10/98-06/99	M	Ch: X-127 001>		DOX-1551		DOX-0117	
1.4 i	Petrol	44	ANX	01/98-05/98	M			DOX-1171		DOX-0117	
1.4 i	Petrol	44	APQ	12/97-09/98	M			DOX-1171		DOX-0117	
1.4 i 16V	Petrol	74	AFH	06/97-06/99	M			DOX-1171		DOX-0117	
1.6 i	Petrol	55	1F	11/93-02/94	M	Ch: >TR-075 000				DOX-0125	
1.6 i	Petrol	55	1F	02/94-07/94		Ch: TR-075 001>				DOX-0114	
1.6 i	Petrol	55	1F	05/94-06/99						DOX-0114	
1.6 i	Petrol	55	ABU	09/93-08/94	M			DOX-1172		DOX-0118	
1.6 i	Petrol	55	AEE; ALM	09/96-06/99	M			DOX-1171		DOX-0117	
1.6 i	Petrol	74	AFT	04/97-06/99	M					DOX-0118	
1.8 i	Petrol	66	ABS	09/93-02/94	M	Ch: >TR-075 000				DOX-0125	
1.8 i	Petrol	66	ABS	09/93-08/94	A			DOX-1025		DOX-0116	
1.8 i	Petrol	66	ABS	02/94-08/94	M	Ch: TR-075 001>				DOX-0114	
1.8 i	Petrol	66	ACC	03/95-06/99	M					DOX-0114	
1.8 i	Petrol	66	ADZ	07/94-06/99						DOX-0114	
1.8 i 16V	Petrol	95	ADL	02/94-08/96	M			DOX-1171		DOX-0117	
1.8 i 16V	Petrol	95	ADL	02/94-08/96	M			DOX-1172		DOX-0118	
1.8 i 16V	Petrol	95	ADL	02/94-08/96	M			DOX-1173		DOX-0117	
1.8 i 16V	Petrol	95	ADL	02/94-08/96	M			DOX-1363		DOX-0117	
2.0 i	Petrol	85	2E	09/93-06/96	M			DOX-1171		DOX-0117	
2.0 i	Petrol	85	2E	09/93-06/96	M			DOX-1172		DOX-0118	
2.0 i	Petrol	85	2E	09/93-06/96	M			DOX-1173		DOX-0117	
2.0 i	Petrol	85	2E	09/93-06/96	M			DOX-1363		DOX-0117	
CORDOBA (99-02)											
1.0	Petrol	37	ALD	06/99-10/02	M			DOX-2015		DOX-0150	
1.0	Petrol	37	ANV; AUC	06/99-10/02	M				DOX-2023		DOX-0150
1.4	Petrol	44	AKK	06/99-10/02	M			DOX-2015		DOX-0150	
1.4	Petrol	44	ANW	06/99-10/02	M				DOX-2023		DOX-0150
1.4	Petrol	44	AUD	06/00-10/00	M	Ch: >1-148 000			DOX-2023		DOX-0150
1.4	Petrol	44	AUD	10/00-05/02	M	Ch: 1-148 001>2-205 000			DOX-2015		DOX-0150
1.4	Petrol	44	AUD	05/02-10/02	M	Ch: 2-205 001>			DOX-2015		DOX-0150
1.4 16V	Petrol	55/74	APE; AQQ; AUB	06/99-10/02	M				DOX-1567		DOX-0119
1.6	Petrol	55	ALM	06/99-10/02	M			DOX-1171		DOX-0117	
1.6	Petrol	74	AEH	06/99-10/02	A			DOX-2015		DOX-0150	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
SEAT *continued*											
CORDOBA (99-02) *continued*											
1.6	Petrol	74	AKL	06/99-10/02				DOX-2015		DOX-0150	
1.6	Petrol	74	APF; AUR	06/99-10/02	M				DOX-2023		DOX-0150
1.8 T 20V Cupra	Petrol	115	AQX	07/00-10/02	M	Ch: Y-045 785>			DOX-2038		DOX-0150
1.8 T 20V Cupra	Petrol	115	AQX; AYP	07/00-10/02	M				DOX-2038	DOX-0150	DOX-0150
CORDOBA (02-09)											
1.2	Petrol	47	AZQ	10/02-06/06	M				DOX-1559		DOX-0119
1.2	Petrol	47	BME	11/04-06/06	M				DOX-1559	DOX-0121	DOX-0119
1.2 12V	Petrol	51	BXV	05/06-11/09	M				DOX-1559	DOX-0121	DOX-0119
1.4 16V	Petrol	55	BBY; BKY	09/02-12/07					DOX-1560		DOX-0119
1.4 16V	Petrol	63	BXW	05/06-11/09	M				DOX-1560	DOX-0119	DOX-0119
1.4 16V	Petrol	74	BBZ	10/02-11/09	M				DOX-1560		DOX-0119
1.6	Petrol	74	BAH	04/03-11/09	M				DOX-2000		DOX-0150
1.6 16V	Petrol	77	BTS	11/06-11/09	M					DOX-0119	
2.0	Petrol	85	AZL	09/02-11/09	M				DOX-2000		DOX-0150
2.0	Petrol	85	BBX	04/03-11/09	M			DOX-2000		DOX-0150	
2.0	Petrol	85	BBX	11/03-11/09	M	Ch: 4-115 862>			DOX-2008		DOX-0150
2.0	Petrol	85	BBX	11/03-11/09	M	Ch: 4-115 862>, Euro 2			DOX-2000		DOX-0150
EXEO (08-)											
1.6	Petrol	75	ALZ	03/09-09/10	M				DOX-1566		DOX-0119
1.8 T	Petrol	110	CFMA	12/08-05/10	M				DOX-2008		DOX-0150
1.8 T	Petrol	110	CFMA	12/08-05/10	M				DOX-2030		DOX-0150
1.8 TSI	Petrol	88/118	CDHA; CDHB	05/10-	M				DOX-2041		DOX-0150
2.0 TFSI	Petrol	147	BWE	03/09-07/11					DOX-2036		DOX-0150
2.0 TFSI	Petrol	155	CDND	05/10-	M				DOX-2041		DOX-0150
IBIZA II (93-99)											
1.0	Petrol	33	AAU	03/93-09/96	M			DOX-1172		DOX-0114	
1.0	Petrol	33	AAU	03/93-09/96	M					DOX-0118	
1.0 i	Petrol	37	AER	09/96-04/97	M	Ch: >V-165 000				DOX-0114	
1.0 i	Petrol	37	AER	04/97-10/98	M	Ch: V-165 001>X-127 000		DOX-1171		DOX-0117	
1.0 i	Petrol	37	AER	10/98-08/99	M	Ch: X-127 001>		DOX-1551		DOX-0117	
1.3 i	Petrol	40	AAV	03/93-07/94	M			DOX-1172		DOX-0118	
1.4 i	Petrol	44	ABD	09/93-06/96	M			DOX-1172		DOX-0114	
1.4 i	Petrol	44	ABD	09/93-06/96	M					DOX-0118	
1.4 i	Petrol	44	AEX	07/95-06/96	M					DOX-0114	
1.4 i	Petrol	44	AEX	07/96-04/97	M	Ch: >V-165 000				DOX-0114	
1.4 i	Petrol	44	AEX	04/97-12/97	M	Ch: V-165 001>		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AEX	04/97-10/98	M	Ch: V-165 001>X-127 000		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AEX	10/98-08/99	M	Ch: X-127 001>		DOX-1551		DOX-0117	
1.4 i	Petrol	44	AKV; APQ	09/97-10/98	M	Ch: >X-127 000		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AKV; APQ	10/98-08/99	M	Ch: X-127 001>		DOX-1551		DOX-0117	
1.4 i	Petrol	44	ANX	01/98-05/98	M			DOX-1171		DOX-0117	
1.4 i	Petrol	44	APQ	12/97-05/98	M			DOX-1171		DOX-0117	
1.4 i 16V	Petrol	74	AFH	06/97-08/99	M			DOX-1171		DOX-0117	
1.6 i	Petrol	55	1F	09/94-08/99						DOX-0114	
1.6 i	Petrol	55	ABU	03/93-07/94	M			DOX-1172		DOX-0118	
1.6 i	Petrol	55	AEE; ALM	09/97-08/99	M			DOX-1171		DOX-0117	
1.8 i	Petrol	66	ABS	03/93-06/96	A			DOX-1025		DOX-0116	
1.8 i	Petrol	66	ABS	03/93-06/96	M					DOX-0114	
1.8 i	Petrol	66	ABS	03/93-06/96	M					DOX-0125	
1.8 i	Petrol	66	ACC	07/94-08/99	M					DOX-0114	
1.8 i	Petrol	66	ADZ	07/94-08/99						DOX-0114	
1.8 i 16V	Petrol	95	ADL	11/93-08/96	M			DOX-1171		DOX-0117	
1.8 i 16V	Petrol	95	ADL	11/93-08/96	M			DOX-1172		DOX-0118	
1.8 i 16V	Petrol	95	ADL	11/93-08/96	M			DOX-1173		DOX-0117	
1.8 i 16V	Petrol	95	ADL	11/93-08/96	M			DOX-1363		DOX-0117	
2.0 i	Petrol	85	2E	03/93-06/96	M			DOX-1171		DOX-0117	
2.0 i	Petrol	85	2E	03/93-06/96	M			DOX-1172		DOX-0118	
2.0 i	Petrol	85	2E	03/93-06/96	M			DOX-1173		DOX-0117	
2.0 i	Petrol	85	2E	03/93-06/96	M			DOX-1363		DOX-0117	
IBIZA III (99-02)											
1.0	Petrol	37	ALD	08/99-02/02	M			DOX-2015		DOX-0150	
1.0	Petrol	37	ANV; AUC	08/99-02/02	M				DOX-2023		DOX-0150
1.0 16V	Petrol	51	AVZ	05/00-02/02	M			DOX-1551		DOX-0117	
1.4	Petrol	44	AKK	08/99-02/02	M			DOX-2015		DOX-0150	
1.4	Petrol	44	ANW	08/99-02/02	M				DOX-2023		DOX-0150
1.4	Petrol	44	AUD	06/00-10/00	M	Ch: >1-148 500			DOX-2023		DOX-0150

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		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
SEAT *continued*											
IBIZA III (99-02) *continued*											
1.4	Petrol	44	AUD	10/00-02/02	M	Ch: 1-148 501>			DOX-2015		DOX-0150
1.4 16V	Petrol	55/74	APE; AQQ; AUA; AUB	02/00-02/02	M				DOX-1567		DOX-0119
1.6	Petrol	55	ALM	08/99-02/02	M			DOX-1171		DOX-0117	
1.6	Petrol	74	AEH	01/00-02/02	A			DOX-2015		DOX-0150	
1.6	Petrol	74	AKL	08/99-02/02				DOX-2015		DOX-0150	
1.6	Petrol	74	APF; AUR	03/00-02/02	M				DOX-2023		DOX-0150
1.8 T 20V Cupra	Petrol	115	AQX	07/00-02/02	M	Ch: Y-045 786>			DOX-2038		DOX-0150
1.8 T 20V Cupra	Petrol	115	AQX; AYP	07/00-02/02	M				DOX-2038	DOX-0150	DOX-0150
IBIZA IV (02-09)											
1.2	Petrol	44	BBM	06/07-05/08	M			DOX-1588	DOX-1565	DOX-0121	DOX-0119
1.2	Petrol	47	AZQ	02/02-06/06	M				DOX-1559		DOX-0119
1.2	Petrol	47	BME	11/04-06/06	M				DOX-1559	DOX-0121	DOX-0119
1.2 12V	Petrol	51	BXV	05/06-11/09	M				DOX-1559	DOX-0121	DOX-0119
1.4 16V	Petrol	55	BBY; BKY	02/02-12/07					DOX-1560		DOX-0119
1.4 16V	Petrol	63	BXW	05/06-11/09	M				DOX-1560	DOX-0119	DOX-0119
1.4 16V	Petrol	74	AUB; BBZ	02/02-11/09	M				DOX-1560		DOX-0119
1.6	Petrol	74	BAH	02/03-11/09	M				DOX-2000		DOX-0150
1.6 16V	Petrol	77	BTS	11/06-11/09						DOX-0119	
1.8 T Cupra R	Petrol	132	BBU	05/04-02/08	M				DOX-2027		DOX-0150
1.8 T FR	Petrol	110	BJX; BKV	12/03-05/08	M				DOX-2027		DOX-0150
2.0	Petrol	85	AZL	04/02-06/05	M				DOX-2000		DOX-0150
2.0	Petrol	85	BBX	04/02-06/07	M	Ch: 4-115 862>			DOX-2000		DOX-0150
2.0	Petrol	85	BBX	04/02-06/07	M	Ch: 4-115 862>			DOX-2008		DOX-0150
2.0	Petrol	85	BBX	04/03-06/07	M			DOX-2000		DOX-0150	
IBIZA V (08-)											
1.2	Petrol	44/51	CGPA; CGPB	05/09-	M				DOX-1559		DOX-0119
1.2	Petrol	51	BZG	03/08-05/10	M				DOX-1559	DOX-0121	DOX-0119
1.4	Petrol	63	BXW; CGGB	03/08-	M				DOX-1560	DOX-0119	DOX-0119
1.4 TSI	Petrol	110	CAVF	06/09-	A				DOX-2041		DOX-0150
1.4 TSI Cupra	Petrol	132	CAVE	06/09-	A				DOX-2041		DOX-0150
1.6	Petrol	77	BTS	05/08-					DOX-1559	DOX-0119	DOX-0119
1.6 LPG	Petrol/Petroleum Gas (LPG)	60	CNKA	05/11-	M					DOX-0119	
2.0	Petrol	85	CEKA	10/08-	M			DOX-2008	DOX-2000	DOX-0150	DOX-0150
2.0	Petrol	85	CEKA	10/08-	M				DOX-2008		DOX-0150
INCA (95-03)											
1.4 16V	Petrol	55	AUA	09/00-06/03	M				DOX-1567		DOX-0119
1.4 i	Petrol	44	AEX	11/95-06/03	M	Ch: >V-015 500				DOX-0114	
1.4 i	Petrol	44	AEX	05/97-06/03	M	Ch: V-015 501>		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AEX	09/97-06/03	M			DOX-1171		DOX-0117	
1.4 i	Petrol	44	AKV; APQ	09/97-06/03	M	Ch: >X-010 000		DOX-1171		DOX-0117	
1.4 i	Petrol	44	AKV; APQ	10/98-06/03	M	Ch: X-010 001>		DOX-1551		DOX-0117	
1.4 i	Petrol	44	AUD	09/00-06/03	M	Ch: >1-010 200			DOX-2023		DOX-0150
1.4 i	Petrol	44	AUD	11/01-06/03	M	Ch: 1-010 201>3-001 200			DOX-2015		DOX-0150
1.4 i	Petrol	44	AUD	11/01-06/03	M	Ch: 1-010 201>3-001 200			DOX-2018		DOX-0150
1.4 i	Petrol	44	AUD	05/02-06/03	M	Ch: 3-001 200>			DOX-2015		DOX-0150
1.6 i	Petrol	55	1F	11/95-05/97	M					DOX-0114	
1.6 i	Petrol	55	AEE	06/97-09/00	M			DOX-1171		DOX-0117	
LEON (99-06)											
1.4 16V	Petrol	55	AHW	11/99-05/02	M			DOX-1552		DOX-0117	
1.4 16V	Petrol	55	APE	11/99-05/00	M				DOX-2000		DOX-0150
1.4 16V	Petrol	55	AXP; BCA	06/00-10/05	M				DOX-2008		DOX-0150
1.6	Petrol	74	AEH	11/99-10/05	A			DOX-2012		DOX-0150	
1.6	Petrol	74	AKL	11/99-10/05	M			DOX-2012		DOX-0150	
1.6	Petrol	75	BFQ	10/05-06/06	M				DOX-2000		DOX-0150
1.6 16 V	Petrol	77	AUS; AZD; BCB	09/00-10/05	M				DOX-1564		DOX-0119
1.8 20V	Petrol	92	AGN	11/99-12/03	M			DOX-1551		DOX-0117	
1.8 20V	Petrol	92	APG	06/00-10/05					DOX-2000		DOX-0150
1.8 20V T	Petrol	132	APP	11/99-10/05	M			DOX-2027	DOX-2000	DOX-0150	DOX-0150
1.8 20V T	Petrol	132	AUQ	09/00-10/05	M				DOX-2027		DOX-0150
1.8 20V T 4	Petrol	132	AJQ	03/00-01/01	M			DOX-2047		DOX-0150	
1.8 20V T 4	Petrol	132	ARY	09/00-04/04	M				DOX-2008		DOX-0150
1.8 20V T 4	Petrol	132	AUQ	05/01-05/03	M				DOX-2027		DOX-0150
1.8 T Cupra R	Petrol	154/165	AMK; BAM	02/02-06/06	M				DOX-2008		DOX-0150
2.8 Cupra 4	Petrol	150	AUE	02/01-04/04	M		L		DOX-2023		DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
SEAT *continued*											
LEON (99-06) *continued*											
2.8 Cupra 4	Petrol	150	AUE	02/01-04/04	M		L/R				DOX-0150
LEON (05-)											
1.4 16V	Petrol	63	BXW; CGGB	06/06-	M					DOX-0119	DOX-0119
1.6	Petrol	75	BSE; CCSA; CMXA	07/05-	M						DOX-0119
1.6	Petrol	75	BSF	07/05-							DOX-0119
1.6 LPG	Petrol/Petroleum Gas (LPG)	75	CHGA	12/09-05/10	M						DOX-0119
1.8 TSI	Petrol	118	CDAA	03/09-					DOX-2041		DOX-0150
2.0 Cupra R	Petrol	195	CDLA	09/09-	M				DOX-2041		DOX-0150
2.0 FSI	Petrol	110	BLR	07/05-11/05			L/R			DOX-0150	DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	07/05-03/09			L	DOX-2041		DOX-0150	
2.0 FSI	Petrol	110	BVY	11/05-03/09							DOX-0150
2.0 TFSI	Petrol	136/177	BWA1; BWJ	09/05-05/09	M				DOX-2016		DOX-0150
2.0 TFSI	Petrol	147	BWA	05/05-03/09					DOX-2016		DOX-0150
2.0 TFSI	Petrol	155	CCZB	06/09-					DOX-2041		DOX-0150
2.0 TFSI	Petrol	177	CDLD	05/09-	M				DOX-2041		DOX-0150
TOLEDO I (91-99)											
1.6 i	Petrol	52	1F	05/91-12/93	M			DOX-1006		DOX-0125	
1.6 i	Petrol	54	1F	05/91-09/98	M			DOX-1006		DOX-0114	
1.6 i	Petrol	54	1F	05/91-09/98	M					DOX-0125	
1.6 i	Petrol	55	1F	10/95-09/98	M					DOX-0114	
1.8 16V	Petrol	92	PL	05/91-08/93	M					DOX-0115	
1.8 i	Petrol	65	RP	05/91-11/93	M			DOX-1006		DOX-0125	
1.8 i	Petrol	66	ABS	11/93-07/94	M					DOX-0114	
1.8 i	Petrol	66	ADZ	07/94-12/96	M					DOX-0114	
1.8 i	Petrol	66	ADZ	07/94-12/96	M					DOX-0125	
2.0 i	Petrol	85	2E	03/94-01/95				DOX-1171		DOX-0117	
2.0 i	Petrol	85	2E	03/94-01/95				DOX-1172		DOX-0118	
2.0 i	Petrol	85	2E	03/94-01/95				DOX-1173		DOX-0117	
2.0 i	Petrol	85	2E	03/94-01/95				DOX-1363		DOX-0117	
2.0 i 16V	Petrol	110	ABF	03/94-01/95	M			DOX-1171		DOX-0117	
2.0 i 16V	Petrol	110	ABF	03/94-01/95	M			DOX-1172		DOX-0118	
2.0 i 16V	Petrol	110	ABF	03/94-01/95	M			DOX-1173		DOX-0117	
2.0 i 16V	Petrol	110	ABF	03/94-01/95	M			DOX-1363		DOX-0117	
TOLEDO II (99-06)											
1.4 16V	Petrol	55	AHW	01/00-05/02	M			DOX-1552		DOX-0117	
1.4 16V	Petrol	55	AXP	06/00-02/02	M				DOX-2008		DOX-0150
1.6	Petrol	74	AEH	04/99-09/00	A			DOX-2012		DOX-0150	
1.6	Petrol	74	AKL	04/99-09/00	M			DOX-2012		DOX-0150	
1.6 16V	Petrol	77	AUS; AZD; BCB	09/00-07/04	M				DOX-1564		DOX-0119
1.8 20V	Petrol	92	AGN	04/99-12/03				DOX-1551		DOX-0117	
1.8 20V	Petrol	92	APG	06/00-07/04					DOX-2000		DOX-0150
1.8 20VT	Petrol	132	AUQ	05/01-07/04	M				DOX-2027		DOX-0150
2.3 V5	Petrol	110	AGZ	04/99-11/00	M			DOX-1551		DOX-0117	
2.3 V5 20V	Petrol	125	AQN	05/01-11/03	M				DOX-2023		DOX-0150
TOLEDO III (04-09)											
1.6	Petrol	75	BGU; BSE; BSF	10/04-05/09	M						DOX-0119
2.0 FSI	Petrol	110	BLR; BVY	10/04-05/09							DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	10/04-05/09			L	DOX-2041		DOX-0150	
2.0 TFSI	Petrol	147	BWA	05/06-05/09					DOX-2016		DOX-0150
SKODA											
FABIA (99-08)											
1.0	Petrol	37	AQV	10/00-08/02	M				DOX-2000		DOX-0150
1.0	Petrol	37	AQV; ARV	10/00-08/02	M						DOX-0150
1.0	Petrol	37	ARV	10/00-08/02	M				DOX-2008		DOX-0150
1.2	Petrol	40	AWY; BMD	07/01-12/07	M			DOX-1588	DOX-1565	DOX-0121	DOX-0119
1.2	Petrol	47	AZQ	01/03-12/07	M				DOX-1559		DOX-0119
1.2	Petrol	47	BME	12/04-12/07	M				DOX-1559	DOX-0121	DOX-0119
1.4	Petrol	44	AZE; AZF	04/00-03/03	M						DOX-0150
1.4	Petrol	44/50	AME; AZE	08/99-05/03	M				DOX-2008		DOX-0150
1.4	Petrol	44/50	AQW; ATZ; AZF	08/99-05/03	M				DOX-2000		DOX-0150
1.4 16V	Petrol	55	AUA; BBY; BKY	10/99-12/07					DOX-1560		DOX-0119
1.4 16V	Petrol	74	AUB; BBZ	12/99-12/07	M				DOX-1560		DOX-0119
2.0	Petrol	85	AZL	12/99-12/07	M				DOX-2000		DOX-0150
FABIA (06-)											
1.2	Petrol	44	BBM; CHFA	12/06-11/11	M			DOX-1588	DOX-1565	DOX-0121	DOX-0119

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
SKODA *continued*											
FABIA (06-) *continued*											
1.2	Petrol	51	BZG	01/07-03/10	M				DOX-1559	DOX-0121	DOX-0119
1.2	Petrol	51	CGPA	03/10-	M				DOX-1559		DOX-0119
1.4	Petrol	63	BXW; CGGB	01/07-	M				DOX-1560	DOX-0119	DOX-0119
1.4 TSI	Petrol	132	CAVE	05/10-05/12	A				DOX-2041		DOX-0150
1.6	Petrol	77	BTS	04/07-06/10						DOX-0119	
FAVORIT											
1.3	Petrol	40/50	135B; 136B; 781.135E	12/92-07/95	M			DOX-1172		DOX-0118	
1.3 135 X,LX,GLX	Petrol	40	781.135E	01/93-09/94	M			DOX-1172		DOX-0118	
FELICIA I (94-98)											
1.3	Petrol	40	135B; AMG	10/94-03/98	M			DOX-1172		DOX-0117	
1.3	Petrol	40	135B; AMG	10/94-03/98	M					DOX-0118	
1.3	Petrol	40/43/50	AMG; AMH; AMJ	08/96-12/98	M	Leaded				DOX-0117	
1.3	Petrol	40/50	13MPI68; 135B; 135M; 136B; 136M; AMH	07/96-03/98	M					DOX-0117	
1.3	Petrol	40/50	AMG; AMH	10/98-08/01	M	Not Leaded				DOX-0117	
1.3	Petrol	50	136I	10/94-07/96	M			DOX-1172		DOX-0118	
1.3 LX	Petrol	40	135B; AMG	01/98-03/98	M	Leaded				DOX-0117	
1.3 LX	Petrol	40	135B; AMG	08/95-03/98	M			DOX-1172		DOX-0117	
1.3 LX	Petrol	40	135B; AMG	08/95-03/98	M					DOX-0118	
1.3 LXI	Petrol	50	136I	08/95-07/96	M			DOX-1172		DOX-0118	
1.3 LXI	Petrol	50	AMH	08/96-03/98	M					DOX-0117	
1.6	Petrol	55	AEE	06/97-12/97	M					DOX-0117	
1.6	Petrol	55	AEE	01/98-08/01	M	Leaded				DOX-0117	
1.6	Petrol	55	AEE	10/98-08/01	M	Not Leaded				DOX-0117	
1.6 GLX	Petrol	55	AEE	08/95-03/98	M					DOX-0117	
1.6 LX	Petrol	55	16MPI; AEE (T3N)	08/95-03/98	M					DOX-0117	
FELICIA II (98-01)											
1.3	Petrol	40/43/50	AMG; AMH; AMJ	01/98-12/98	M	Leaded				DOX-0117	
1.3	Petrol	40/43/50	AMG; AMH; AMJ	10/98-06/01	M	Not Leaded				DOX-0117	
1.6	Petrol	55	AEE	01/98-06/01	M	Leaded				DOX-0117	
1.6	Petrol	55	AEE	10/98-06/01	M	Not Leaded				DOX-0117	
OCTAVIA 1U2/1U5 (96-10)											
1.4	Petrol	44	AMD	04/99-03/01	M			DOX-2008	DOX-2008	DOX-0150	DOX-0150
1.4	Petrol	44	AMD	04/99-03/01	M			DOX-2015		DOX-0150	
1.4 16V	Petrol	55	AXP	08/00-01/02	M				DOX-2008		DOX-0150
1.4 16V	Petrol	55	BCA	05/04-05/06	M				DOX-2016		DOX-0150
1.6	Petrol	55	AEE	09/96-09/04	M			DOX-1551		DOX-0117	
1.6	Petrol	55	AEE	09/96-09/04	M			DOX-1552		DOX-0117	
1.6	Petrol	55	AEE	09/96-09/04	M			DOX-1561		DOX-0117	
1.6	Petrol	74	AEH (T6Y)	02/97-07/00		Ch: W-134 201>		DOX-2012		DOX-0150	
1.6	Petrol	74	AEH (T6Y)	02/97-12/07		Ch: >V-007 000		DOX-1552		DOX-0117	
1.6	Petrol	74	AEH (T6Y)	02/97-12/07		Ch: V-007 001>W-134 200		DOX-1551		DOX-0117	
1.6	Petrol	74	AEH (T6Y)	08/00-05/07				DOX-2012		DOX-0150	
1.6	Petrol	74	AKL	07/98-07/00		Ch: W-134 201>		DOX-2012		DOX-0150	
1.6	Petrol	74	AKL	07/98-12/07	A	Ch: >W-134 200		DOX-1551		DOX-0117	
1.6	Petrol	74	AKL	08/00-05/07				DOX-2012		DOX-0150	
1.6	Petrol	75	AVU; BFQ	09/00-12/10					DOX-2000		DOX-0150
1.8	Petrol	92	AGN	09/96-04/99				DOX-1551		DOX-0117	
1.8 20V	Petrol	92	AGN	07/98-04/99				DOX-1551		DOX-0117	
1.8 T	Petrol	110	AGU	08/97-12/10				DOX-1551		DOX-0117	
1.8 T	Petrol	110	ARX; AUM	08/97-12/10					DOX-2027		DOX-0150
1.8 T	Petrol	110	ARZ	08/97-12/10	M			DOX-2027	DOX-2000	DOX-0150	DOX-0150
1.8 T 4x4	Petrol	110	ARX	05/01-05/06	M				DOX-2008		DOX-0150
2.0	Petrol	85	AEG	09/00-05/07				DOX-2012		DOX-0150	
2.0	Petrol	85	AEG	09/00-05/07				DOX-2027		DOX-0150	
2.0	Petrol	85	APK; AQY	04/99-05/07				DOX-2027	DOX-2008	DOX-0150	DOX-0150
2.0	Petrol	85	ATF; AZH	11/99-05/07	M				DOX-2008		DOX-0150
2.0	Petrol	85	AZJ	03/02-05/07					DOX-2015		DOX-0150
2.0 4x4	Petrol	85	AZH; AZJ	08/00-09/04	M				DOX-2008		DOX-0150
RS 1.8 T	Petrol	132	AUQ	05/01-09/04	M				DOX-2027		DOX-0150
OCTAVIA 1Z3/1Z5 (04-12)											
1.4	Petrol	55	BCA	05/04-05/06	M				DOX-2016		DOX-0150
1.4	Petrol	59	BUD	05/06-11/10	M					DOX-0119	DOX-0119
1.4 TSI	Petrol	90	CAXA	11/09-					DOX-2041		DOX-0150
1.6	Petrol	75	BGU; BSE; BSF	06/04-							DOX-0119

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
SKODA *continued*											
OCTAVIA 1Z3/1Z5 (04-12) *continued*											
1.6	Petrol	75	CCSA; CHGA	11/08-	M						DOX-0119
1.6 FSI	Petrol	85	BLF	02/04-10/08					DOX-2016		DOX-0150
1.6 MultiFuel	Petrol/Ethanol	75	CHGA	08/09-	M						DOX-0119
1.8 TSI	Petrol	112/118	CDAA; CDAB	11/08-					DOX-2041		DOX-0150
1.8 TSI 4x4	Petrol	118	CDAA	11/08-	M				DOX-2041		DOX-0150
2.0 FSI	Petrol	110	BLR	11/04-11/05							DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	11/04-10/08			L	DOX-2041		DOX-0150	
2.0 FSI	Petrol	110	BVY	11/05-10/08			L/R			DOX-0150	DOX-0150
2.0 FSI 4x4	Petrol	110	BLX; BVX	11/04-10/08	M		L	DOX-2041		DOX-0150	
2.0 FSI 4x4	Petrol	110	BLX; BVX	11/04-10/08	M		L/R			DOX-0150	DOX-0150
2.0 RS	Petrol	147	BWA	10/05-10/08	M				DOX-2016		DOX-0150
2.0 RS	Petrol	147	CCZA	03/09-					DOX-2041		DOX-0150
ROOMSTER											
1.2	Petrol	47	BME	05/06-01/07	M				DOX-1559	DOX-0121	DOX-0119
1.2	Petrol	51	CGPA	03/10-	M				DOX-1559		DOX-0119
1.2 TSI	Petrol	63/77	CBZA; CBZB	03/10-	M					DOX-0121	
1.4	Petrol	63	BXW; CGGB	09/06-	M				DOX-1560	DOX-0119	DOX-0119
1.6	Petrol	77	BTS	09/06-06/10						DOX-0119	
SUPERB (01-08)											
1.8 T	Petrol	110	AWT	12/01-03/08					DOX-2008		DOX-0150
2.0	Petrol	85	AZM	12/01-03/08	M			DOX-1589	DOX-1566	DOX-0121	DOX-0119
2.8 V6	Petrol	142	AMX	12/01-03/08			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
SUPERB (08-)											
1.8 TSI	Petrol	112/118	CDAA; CDAB	09/08-					DOX-2041		DOX-0150
1.8 TSI 4x4	Petrol	112/118	CDAA; CDAB	11/08-	M				DOX-2041		DOX-0150
2.0 TSI	Petrol	147	CCZA	05/10-	A				DOX-2041		DOX-0150
3.6 V6 4x4	Petrol	191	CDVA	11/08-	A		L		DOX-2036		DOX-0150
3.6 V6 4x4	Petrol	191	CDVA	11/08-	A		R		DOX-2041		DOX-0150
YETI											
1.4 TSI	Petrol	90	CAXA	06/10-	M				DOX-2041		DOX-0150
1.8 TSI 4x4	Petrol	112/118	CDAA; CDAB	05/09-	M				DOX-2016		DOX-0150
SUBARU											
FORESTER (97-02)											
2.0	Petrol	90	EJ20	08/97-06/98				DOX-1446		DOX-0109	
2.0	Petrol	92	EJ20	06/98-09/02				DOX-1446		DOX-0109	DOX-0120
2.0 S Turbo	Petrol	125/130	EJ20; EJ205	06/98-09/02				DOX-0306	DOX-0357		DOX-0113
FORESTER (02-08)											
2.0	Petrol	92	EJ20	09/02-05/05				DOX-0307			DOX-0120
2.0 S Turbo	Petrol	130	EJ20	09/02-07/05				DOX-0306	DOX-0357		DOX-0113
2.0 X	Petrol	116	EJ204	09/05-11/07				DOX-0308			
2.5	Petrol	155	EJ25	12/03-07/05	M			DOX-1448	DOX-0357		DOX-0113
2.5 All-wheel Drive	Petrol	121	EJ25D	07/05-07/05				DOX-1448	DOX-0357		DOX-0113
2.5 XT	Petrol	169	EJ255	09/05-11/07				DOX-1448	DOX-0357		DOX-0113
IMPREZA (92-00)											
1.6 i	Petrol	66	EJ16	08/96-07/98						DOX-0115	
1.6 i	Petrol	70	EJ161	06/98-07/98	A					DOX-0115	
1.6 i 4WD	Petrol	66	EJ16	08/96-07/98	M					DOX-0115	
1.8 i 4WD	Petrol	76	EJ18	08/96-07/97						DOX-0115	
2.0 i 16V AWD	Petrol	92	EJ20	06/98-07/00						DOX-0115	
2.0 i 4WD	Petrol	92	EJ20	06/98-07/00						DOX-0115	
IMPREZA (00-08)											
1.6	Petrol	70	EJ16	12/00-08/05						DOX-0120	DOX-0120
1.6 AWD	Petrol	70	EJ16	12/00-08/05	M					DOX-0120	DOX-0120
2.0	Petrol	92	EJ20	12/00-08/05						DOX-0120	DOX-0120
2.0 i	Petrol	92	EJ20	12/00-08/05						DOX-0120	DOX-0120
2.0 i	Petrol	92	EJ20	12/00-08/05	M				DOX-0357		DOX-0113
2.0 i R	Petrol	118	EJ20; EJ204	09/05-06/06				DOX-0308			
2.0 Turbo	Petrol	160	EJ205	12/00-08/05				DOX-0306	DOX-0357		DOX-0113
2.0 WRX STi	Petrol	195	EJ207	11/01-08/05	M			DOX-0306	DOX-0357		DOX-0113
2.0 WRX Turbo	Petrol	160	EJ205	12/00-08/05				DOX-0306	DOX-0357		DOX-0113
2.0 WRX Turbo	Petrol	165	EJ205	12/02-08/05	M			DOX-0306	DOX-0357		DOX-0113
2.5 i WRX	Petrol	169	EJ255	09/05-06/07	M			DOX-1448	DOX-0357		DOX-0113
2.5 WRX	Petrol	169	EJ255	09/05-06/07	M			DOX-1448	DOX-0357		DOX-0113
2.5 WRX STi	Petrol	206	EJ257	09/05-06/07	M			DOX-1448	DOX-0357		DOX-0113
JUSTY I (84-95)											
1000	Petrol	37	EF10	05/87-05/95		+ Catalyst		DOX-1006		DOX-0125	
1000 4WD	Petrol	37	EF10	05/87-11/94	M	+ Catalyst		DOX-1006		DOX-0125	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
SUBARU *continued*											
JUSTY II (95-03)											
1.3 4x4	Petrol	63	G13BB	04/01-11/03	M			DOX-1068	DOX-1169	DOX-0109	DOX-0109
1.3 GX 4x4	Petrol	50	EF13	10/95-11/03	M	Ch: >25000		DOX-1000		DOX-0125	
1.3 GX 4x4	Petrol	50	EF13	10/95-11/03	M	Ch: 25001>		DOX-1068		DOX-0109	
JUSTY III (03-)											
1.3	Petrol	69	M13A	09/03-	M			DOX-0351		DOX-0113	
1.5	Petrol	73	M15A	09/03-	M			DOX-0351		DOX-0113	
LEGACY III (98-03)											
2.0	Petrol	92	EJ20	12/98-04/03				DOX-0307		DOX-0115	DOX-0120
2.5	Petrol	115	EJ25	10/98-04/03				DOX-0307		DOX-0115	DOX-0120
LEGACY IV (03-)											
2.0	Petrol	101	EJ20	09/03-	M			DOX-0307			
2.5	Petrol	121	EJ25	09/03-	M			DOX-0307	DOX-0357		DOX-0113
3.0 R	Petrol	180	EZ30	09/03-	A		L/R				DOX-0113
LIBERO											
1.2 4WD	Petrol	38	EF12	05/93-06/98	M					DOX-0125	
1.2 i 4WD	Petrol	40	EF12	04/94-11/98	M					DOX-0125	
OUTBACK (00-03)											
2.5	Petrol	115	EJ25	10/00-04/03				DOX-0307			DOX-0120
3.0 H6	Petrol	154	EZ30	10/00-04/03	A				DOX-0357		DOX-0113
3.0 H6	Petrol	154	EZ30	10/00-04/03	A		L/R	DOX-0305			
3.0 H6	Petrol	154	EZ30	10/00-04/03	A		L/R	DOX-0306			
OUTBACK (03-)											
2.5	Petrol	121	EJ25D	04/06-09/09					DOX-0357		DOX-0113
3.0	Petrol	180	EZ30	11/03-09/09	A		L/R				DOX-0113
VIVIO											
0.7	Petrol	32	EN07E	08/92-10/95		+ Catalyst				DOX-0125	
660 4WD	Petrol	32	EN07E	03/92-10/95	M	+ Catalyst				DOX-0125	
SUZUKI											
ALTO III (94-)											
1.0	Petrol	39	G10BB	09/94-06/02	M	Ch: S00180001>		DOX-1070		DOX-0109	
ALTO IV (02-08)											
1.1	Petrol	46	F10D	06/02-03/06				DOX-0353	DOX-0329	DOX-0113	DOX-0109
BALENO (95-02)											
1.3	Petrol	52	G13BA	09/96-05/02	M	Ch: S00200001>			DOX-0352		DOX-0109
1.3 16V	Petrol	63	G13BB	03/97-05/02	M	Ch: W00200001>			DOX-0352		DOX-0109
1.3 i 16V	Petrol	63	G13BB	07/95-05/02	M	Ch: S00200001>			DOX-0352		DOX-0109
1.6 i 16V	Petrol	72	G16B	07/95-05/02	M	Ch: S00200001>			DOX-0352		DOX-0109
1.6 i 16V	Petrol	72	G16B	08/96-05/02	M	Ch: W00200001>			DOX-0352		DOX-0109
1.6 i 16V 4x4	Petrol	72	G16B	07/95-05/02	M	Ch: S00200001>			DOX-0352		DOX-0109
1.6 i 16V 4x4	Petrol	72	G16B	08/96-05/02	M	Ch: W00200001>			DOX-0352		DOX-0109
1.8 GTX	Petrol	89	J18A	03/96-05/02	M	Ch: S00200001>		DOX-1087		DOX-0121	
1.8 i 16V	Petrol	89	J18A	08/96-05/02	M	Ch: W00200001>		DOX-1087		DOX-0121	
CARRY (99-)											
1.3 16 V	Petrol	58	G13BB	03/00-06/04	M			DOX-1068		DOX-0109	
1.3 4x4	Petrol	56	G13BB	07/99-09/04	M			DOX-1068		DOX-0109	
GRAND VITARA (98-06)											
1.6	Petrol	69	G16B	03/98-07/03		Ch: >V00150000		DOX-1068		DOX-0109	
1.6	Petrol	69	G16B	03/98-07/03		Ch: V00150001>V00200000		DOX-0354	DOX-1108	DOX-0119	DOX-0109
1.6	Petrol	69	G16B	03/98-07/03		Ch: V00200001>		DOX-0354	DOX-1108	DOX-0119	DOX-0109
2.0	Petrol	94	J20A	03/98-07/03		Ch: >V00150000		DOX-1068		DOX-0109	
2.0	Petrol	94	J20A	03/98-07/03		Ch: V00150001>V00200000		DOX-0354	DOX-1108	DOX-0119	DOX-0109
2.0	Petrol	94	J20A	03/98-07/03		Ch: V00200001>		DOX-0354	DOX-1108	DOX-0119	DOX-0109
2.5 V6 24V	Petrol	106	H 25 A	04/98-07/03		Ch: >V00150000	L/R	DOX-1087	DOX-1064	DOX-0121	DOX-0119
2.5 V6 24V	Petrol	106	H 25 A	04/98-07/03		Ch: V00150001>	L/R	DOX-1087	DOX-1077	DOX-0121	DOX-0119
2.5 V6 24V	Petrol	116	H 25 A	04/01-07/03	A	Ch: V00150001>	L/R	DOX-1087	DOX-1077	DOX-0121	DOX-0119
2.7 4x4	Petrol	127/135	H 27 A; H27A	09/01-07/03		Ch: >V00200000	L/R	DOX-0354	DOX-1108	DOX-0119	DOX-0109
2.7 4x4	Petrol	127/135	H 27 A; H27A	09/01-07/03		Ch: V00200001>	L/R	DOX-0354	DOX-1108	DOX-0119	DOX-0109
IGNIS (00-03)											
1.3	Petrol	61	M13A	10/00-09/03		Ch: >S00170000		DOX-0351		DOX-0113	
1.3	Petrol	61	M13A	10/00-09/03		Ch: S00170001>		DOX-0351	DOX-0350	DOX-0113	DOX-0109
1.3 4WD	Petrol	61	M13A	10/00-09/03		Ch: >S00170000		DOX-0351		DOX-0113	
1.3 4WD	Petrol	61	M13A	10/00-09/03		Ch: S00170001>		DOX-0351	DOX-0350	DOX-0113	DOX-0109

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
SUZUKI *continued*											
IGNIS (03-)											
1.3	Petrol	69	M13A	09/03-	M			DOX-0351		DOX-0113	
1.3 4x4	Petrol	69	M13A	09/03-	M			DOX-0351		DOX-0113	
1.5	Petrol	73	M15A	09/03-				DOX-0351		DOX-0113	
1.5 4x4	Petrol	73	M15A	09/03-	M			DOX-0351		DOX-0113	
1.5 Sport	Petrol	80	M15A	12/03-	M			DOX-0351		DOX-0113	
JIMNY											
1.3 16V	Petrol	59	G13BB	09/98-		Ch: >V00100000		DOX-1068		DOX-0109	
1.3 16V	Petrol	59	G13BB	09/98-		Ch: V00100001>V00200000		DOX-0354	DOX-0350	DOX-0119	DOX-0109
1.3 16V	Petrol	59	G13BB	09/98-		Ch: V00200001>			DOX-0350		DOX-0109
1.3 16V	Petrol	60	M13A	02/01-	M	Ch: V00200001>			DOX-0350		DOX-0109
1.3 16V	Petrol	60	M13A	04/02-		Ch: >V00200000		DOX-0354	DOX-0350	DOX-0119	DOX-0109
1.3 16V 4WD	Petrol	59	G13BB	09/98-		Ch: >V00100000		DOX-1068		DOX-0109	
1.3 16V 4WD	Petrol	59	G13BB	09/98-		Ch: V00100001>V00200000		DOX-0354	DOX-0350	DOX-0119	DOX-0109
1.3 16V 4WD	Petrol	59	G13BB	09/98-		Ch: V00200001>			DOX-0350		DOX-0109
1.3 16V 4WD	Petrol	60	M13A	04/02-		Ch: >V00200000		DOX-0354	DOX-0350	DOX-0119	DOX-0109
LIANA (01-)											
1.3	Petrol	66	M13A	07/01-01/06	M	Ch: S00250001>		DOX-0351	DOX-0352	DOX-0113	DOX-0109
1.3	Petrol	66	M13A	07/01-	M	Ch: >S00250000			DOX-0352		DOX-0109
1.3	Petrol	66	M13A	07/01-	M	Ch: S00150001>S00250000		DOX-0351		DOX-0113	
1.6	Petrol	76/79	M16A	07/01-12/07		Ch: >S00250000			DOX-0352		DOX-0109
1.6	Petrol	76/79	M16A	07/01-12/07		Ch: S00150001>S00250000		DOX-0351		DOX-0113	
1.6	Petrol	76/79	M16A	07/01-12/07		Ch: S00250001>S00350000		DOX-0351	DOX-0352	DOX-0113	DOX-0109
1.6 4WD	Petrol	79	M16A	01/05-12/07		Ch: >S00250000			DOX-0352		DOX-0109
1.6 4WD	Petrol	79	M16A	01/05-12/07		Ch: S00150001>S00250000		DOX-0351		DOX-0113	
1.6 4WD	Petrol	79	M16A	01/05-12/07		Ch: S00250001>S00350000		DOX-0351	DOX-0352	DOX-0113	DOX-0109
SWIFT II (89-01)											
1.0	Petrol	37	G10A	03/89-08/96		+ Catalyst		DOX-1000		DOX-0125	
1.0 i	Petrol	39	G10A	09/91-08/96		+ Catalyst		DOX-1000		DOX-0125	
1.0 i	Petrol	39	G10A	09/91-08/96		Ch: S00250001>		DOX-1068		DOX-0109	
1.0 i	Petrol	39	G10A	01/95-05/01		Ch: >S00250000		DOX-1000		DOX-0125	
1.0 i	Petrol	39	G10A	09/96-05/01				DOX-1068	DOX-1169	DOX-0109	DOX-0109
1.3	Petrol	50	G13A	03/89-08/96		Ch: S00250001>		DOX-1068		DOX-0109	
1.3	Petrol	50	G13A	03/89-08/96		Ch: S00800001>			DOX-1169		DOX-0109
1.3	Petrol	50	G13A	03/89-08/96	M	Ch: S00250001>		DOX-1068		DOX-0109	
1.3	Petrol	50	G13A	03/89-08/96	M	Ch: S00800001>			DOX-1169		DOX-0109
1.3	Petrol	50	G13A	04/92-08/96		+ Catalyst		DOX-1000		DOX-0125	
1.3	Petrol	50	G13A	04/92-08/96	A	+ Catalyst		DOX-1000		DOX-0125	
1.3	Petrol	50	G13A	01/95-05/01		Ch: >S00250000		DOX-1000		DOX-0125	
1.3	Petrol	50	G13A	09/96-05/01				DOX-1000		DOX-0125	
1.3	Petrol	51	G13BA	09/96-10/96	M			DOX-1000		DOX-0125	
1.3	Petrol	63	G13BB	06/01-12/03				DOX-1068	DOX-1169	DOX-0109	DOX-0109
1.3 GTi	Petrol	74	G13B	10/89-08/96	M			DOX-1000		DOX-0125	
1.3 i	Petrol	50	G13BA	04/92-10/96	M	+ Catalyst		DOX-1000		DOX-0125	
1.6	Petrol	70	G16B	11/89-12/91	M			DOX-1000		DOX-0125	
1.6 4WD	Petrol	70	G16B	11/89-12/91	M			DOX-1000		DOX-0125	
SWIFT III (05-)											
1.3	Petrol	68	M13A	02/05-01/11				DOX-0351	DOX-0326	DOX-0113	DOX-0109
1.5	Petrol	75	M15A	02/05-09/10	M			DOX-0351	DOX-0326	DOX-0113	DOX-0109
SX4 (06-)											
1.5	Petrol	73	M15A	06/06-06/09	M				DOX-0326		DOX-0109
1.5 VVT	Petrol	82	M15A	07/10-	M						DOX-0109
1.6	Petrol	79	M16A	10/07-06/09					DOX-0326		DOX-0109
1.6 VVT	Petrol	79	M16A	06/06-06/09	M						DOX-0109
1.6 VVT	Petrol	88	M16A	07/09-							DOX-0109
1.6 VVT	Petrol	88	M16A	07/09-		Ch: >450000			DOX-0326		DOX-0109
1.6 VVT 4x4	Petrol	79	M16A	06/06-06/09	M				DOX-0326		DOX-0109
1.6 VVT 4x4	Petrol	88	M16A	07/09-							DOX-0109
1.6 VVT 4x4	Petrol	88	M16A	07/09-		Ch: >450000			DOX-0326		DOX-0109

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
SUZUKI *continued*											
VITARA (88-99)											
1.6	Petrol	59	G16A (8V)	09/89-01/95	M	Ch: >110000		DOX-1024		DOX-0116	
1.6 i 16V	Petrol	71	G16B	07/90-03/98	M			DOX-1070		DOX-0109	
VITARA (88-02)											
1.6	Petrol	59	G16A (8V)	09/89-03/98	M	Ch: >110000		DOX-1024		DOX-0116	
1.6 i 16V	Petrol	71	G16B	07/90-03/98				DOX-1070		DOX-0109	
WAGON R+ (97-00)											
1.0	Petrol	48	K10A	02/98-05/00	M			DOX-1064		DOX-0119	
1.2	Petrol	51	K12A	09/98-05/00				DOX-1064		DOX-0119	
1.2 4WD	Petrol	51	K12A	09/98-05/00	M			DOX-1064		DOX-0119	
WAGON R+ (00-)											
1.3	Petrol	56	G13BB	05/00-06/08		Ch: S00280001>		DOX-0351		DOX-0113	
1.3 4WD	Petrol	56/69	G13BB; M13A	10/01-06/08	M	Ch: S00280001>		DOX-0351		DOX-0113	
X-90											
1.6 i 16V 4x4	Petrol	71	G16B	09/95-12/97				DOX-1070		DOX-0109	
TOYOTA											
4 RUNNER (84-96)											
2.4	Petrol	82	22REC	12/87-12/89	M			DOX-0214		DOX-0101	
2.7 i	Petrol	112	3RZ-FE	11/95-03/96				DOX-0229	DOX-0224	DOX-0110	DOX-0110
2.7 i	Petrol	112	3RZ-FE	11/95-03/96	M				DOX-0226		DOX-0110
3.0 V6	Petrol	105	3VZ-E	07/90-11/95				DOX-0208		DOX-0101	
3.0 V6	Petrol	105	3VZ-E	07/90-11/95				DOX-0216		DOX-0101	
3.4 i	Petrol	136	5VZ-FE	11/95-03/96					DOX-0226	DOX-0110	DOX-0110
3.4 i	Petrol	136	5VZ-FE	11/95-03/96	A			DOX-0229	DOX-0224	DOX-0110	DOX-0110
3.4 i	Petrol	136	5VZ-FE	11/95-03/96	M			DOX-0224		DOX-0110	
AURIS (06-12)											
1.33 Dual-VVTi	Petrol	74	1NR-FE	05/09-10/09	M					DOX-0106	DOX-0109
1.4 VVTi	Petrol	71	4ZZ-FE	03/07-12/08	M			DOX-2054		DOX-0150	
1.6	Petrol	97	1ZR-FAE	05/09-	M					DOX-0106	DOX-0109
1.6 VVTi	Petrol	91	1ZR-FE	03/07-						DOX-0106	DOX-0109
1.8	Petrol	108	2ZR-FAE	02/09-	M					DOX-0106	DOX-0109
AVENSIS (97-03)											
1.6	Petrol	81	4A-FE	09/97-06/00	M			DOX-0251			DOX-0114
1.6 VVT-i	Petrol	81	3ZZ-FE	10/00-02/03	M			DOX-0269	DOX-0279	DOX-0109	DOX-0109
1.8	Petrol	81	7A-FE	09/97-06/00				DOX-0251			
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03					DOX-0279		DOX-0109
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03	A		L	DOX-0253			
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03	A		L/R			DOX-0106	
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03	A		R	DOX-0252			
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03	M		L	DOX-0270		DOX-0109	
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03	M		L/R			DOX-0109	
1.8 VVT-i	Petrol	95	1ZZ-FE	10/00-02/03	M		R	DOX-0238		DOX-0109	
2.0	Petrol	94	3S-FE	09/97-10/00				DOX-0204		DOX-0109	
2.0 TD	Diesel	66	2C-TE	09/97-02/03	M			DOX-0204		DOX-0109	
2.0 VVT-i	Petrol	110	1AZ-FSE	10/00-02/03			L	DOX-0204	DOX-0277	DOX-0109	DOX-0109
2.0 VVT-i	Petrol	110	1AZ-FSE	10/00-02/03			R	DOX-0238	DOX-0278	DOX-0109	DOX-0109
AVENSIS (03-08)											
1.6 VVT-i	Petrol	81	3ZZ-FE	04/03-11/08	M			DOX-0254	DOX-0240	DOX-0106	DOX-0109
1.6 VVT-i	Petrol	81	3ZZ-FE	04/03-11/08	M	for vehicles with Xenon light			DOX-0275		DOX-0109
1.8	Petrol	95	1ZZ-FE	04/03-11/08				DOX-0254	DOX-0240	DOX-0106	DOX-0109
1.8	Petrol	95	1ZZ-FE	04/03-11/08		for vehicles with Xenon light			DOX-0275		DOX-0109
2.0	Petrol	108	1AZ-FSE	04/03-11/08			L	DOX-0238	DOX-0288	DOX-0109	DOX-0109
2.0	Petrol	108	1AZ-FSE	04/03-11/08			R	DOX-0204	DOX-0287	DOX-0109	DOX-0109
2.0 D-4D	Diesel	85	1CD-FTV	04/03-11/04	M				DOX-0247		
2.0 D-4D	Diesel	85	1CD-FTV	04/03-11/04	M	for vehicles with Xenon light			DOX-0248		
2.0 D-4D	Diesel	85	1CD-FTV	04/03-11/08		DCRL-Lowest Pollution Engine		DOX-0247			
2.0 D-4D	Diesel	85	1CD-FTV	04/03-11/08		DCRL-Lowest Pollution Engine, for vehicles with Xenon light		DOX-0248			
2.0 D-4D	Diesel	93	1AD-FTV	03/06-11/08	M	Particle Filter			DOX-0264		
2.0 D-4D	Diesel	93	1AD-FTV	03/06-11/08	M	Particle Filter, for vehicles with Xenon light			DOX-0265		
2.0 VVTi	Petrol	114	1AZ-FE	04/03-11/08			L	DOX-0260	DOX-0288		DOX-0109
2.0 VVTi	Petrol	114	1AZ-FE	04/03-11/08			R	DOX-0258	DOX-0287		DOX-0109
2.2 D-CAT	Diesel	130	2AD-FHV	07/05-11/08	M				DOX-0264		

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
TOYOTA *continued*											
AVENSIS (03-08) *continued*											
2.2 D-CAT	Diesel	130	2AD-FHV	07/05-11/08	M	for vehicles with Xenon light			DOX-0265		
2.4	Petrol	120	2AZ-FSE	10/03-11/08	A		L	DOX-0238	DOX-0288	DOX-0109	DOX-0109
2.4	Petrol	120	2AZ-FSE	10/03-11/08	A		R	DOX-0204	DOX-0287	DOX-0109	DOX-0109
2.4	Petrol	125	2AZ-FSE	09/03-11/08			L	DOX-0204	DOX-0287	DOX-0109	DOX-0109
2.4	Petrol	125	2AZ-FSE	09/03-11/08			R	DOX-0238	DOX-0288	DOX-0109	DOX-0109
AVENSIS (09-)											
1.6	Petrol	97	1ZR-FAE	02/09-	M						DOX-0109
1.8	Petrol	108	2ZR-FAE	02/09-							DOX-0109
2.0	Petrol	112	3ZR-FAE	02/09-							DOX-0109
AVENSIS VERSO (01-09)											
2.0 VVT-i	Petrol	110	1AZ-FE	08/01-10/03			L	DOX-0242			
2.0 VVT-i	Petrol	110	1AZ-FE	08/01-10/03			L/R		DOX-0277		DOX-0109
2.0 VVT-i	Petrol	110	1AZ-FE	08/01-10/03			R	DOX-0246			
2.0 VVT-i	Petrol	110	1AZ-FE	10/03-07/05				DOX-0261	DOX-0234		DOX-0109
AYGO (05-)											
1.0	Petrol	50	1KR-FE	07/05-02/12	M			DOX-2028		DOX-0150	
CAMRY (86-91)											
2.0 GLi 16V	Petrol	89	3S-FE	11/86-05/91				DOX-0208		DOX-0101	
2.0 Gli 16V	Petrol	89	3S-FE	10/87-05/91	M			DOX-0207		DOX-0107	
2.5	Petrol	118	2VZ-FE	01/90-05/91	A			DOX-0208		DOX-0101	
2.5 V6 GXI	Petrol	118	2VZ-FE	02/88-05/91				DOX-0208		DOX-0101	
CAMRY (91-97)											
2.2	Petrol	100	5S-FE	06/91-08/96				DOX-0217		DOX-0101	
3.0	Petrol	138	3VZ-FE	06/91-08/96				DOX-0221		DOX-0107	
CAMRY (96-02)											
2.2	Petrol	96	5S-FE	08/96-07/01				DOX-0205	DOX-0271	DOX-0101	DOX-0109
2.2	Petrol	96	5S-FE	08/96-07/01				DOX-0217		DOX-0109	
2.2	Petrol	96	5S-FE	08/96-07/01				DOX-0242			
3.0 24V	Petrol	140	1MZ-FE	08/96-07/01	A				DOX-0206		DOX-0109
3.0 24V	Petrol	140	1MZ-FE	08/96-07/01	A		L	DOX-0243			
3.0 V6	Petrol	135	1MZ-FE	08/96-07/01	A				DOX-0206		DOX-0109
3.0 V6	Petrol	135	1MZ-FE	08/96-07/01	A		L/R	DOX-0204		DOX-0109	
3.0 V6	Petrol	135	1MZ-FE	08/96-07/01	A		L/R	DOX-0243			
CAMRY (01-06)											
2.4 VVT-i	Petrol	112	2AZ-FE	11/01-01/06				DOX-0242			
3.0 V6	Petrol	137	1MZ-FE	11/01-01/06	A		L	DOX-0258	DOX-0238		DOX-0109
3.0 V6	Petrol	137	1MZ-FE	11/01-01/06	A		R	DOX-0259	DOX-0237		DOX-0109
3.5 VVTi XLE	Petrol	197	2GR-FE	01/06-11/06	A		L	DOX-0261	DOX-0237		DOX-0109
3.5 VVTi XLE	Petrol	197	2GR-FE	01/06-11/06	A		R	DOX-0261	DOX-0238		DOX-0109
CAMRY (06-11)											
2.4 VVTi	Petrol	116	2AZ-FE	01/06-01/09				DOX-0261	DOX-0204		DOX-0109
CARINA E (92-97)											
1.6	Petrol	73	4A-FE	12/93-01/96				DOX-0201		DOX-0104	
1.6	Petrol	73	4A-FE	12/93-09/97	M			DOX-0250			
1.6	Petrol	73	4A-FE	12/93-09/97	M			DOX-0251			
1.6	Petrol	78/79	4A-FE	01/93-09/97						DOX-0114	
1.6	Petrol	78/79	4A-FE	01/93-09/97	A			DOX-0201		DOX-0104	
1.6	Petrol	85	4A-FE	11/92-09/97	M			DOX-0250			
1.6	Petrol	85	4A-FE	11/92-09/97	M			DOX-0251			
1.6	Petrol	85	4A-FE	12/93-09/97				DOX-0201		DOX-0104	
1.6	Petrol	85	4A-FE	12/93-09/97						DOX-0114	
1.6 16V	Petrol	78	4A-FE	10/95-09/97	M			DOX-0251			
1.6 16V	Petrol	85	4A-FE	12/94-09/97				DOX-0201		DOX-0104	
1.6 16V	Petrol	85	4A-FE	12/94-09/97						DOX-0114	
1.6 GLI	Petrol	79	4A-FE	04/92-09/97				DOX-0201		DOX-0101	
1.6 GLI	Petrol	79	4A-FE	04/92-09/97				DOX-0217		DOX-0104	
1.6 GLI	Petrol	79	4A-FE	04/92-09/97						DOX-0114	
1.6 GLI	Petrol	79	4A-FE	04/92-09/97	M			DOX-0250			
1.6 GLI	Petrol	79	4A-FE	04/92-09/97	M			DOX-0251			
1.6 i	Petrol	73	4A-FE	02/95-09/97	M			DOX-0251			
1.8	Petrol	79	7A-FE	01/95-09/97				DOX-0251			
1.8 i	Petrol	79	7A-FE	01/96-09/97	M			DOX-0251			
1.8 i 16V	Petrol	79	7A-FE	01/96-09/97	M			DOX-0251			
2.0	Petrol	98	3S-FE	01/93-09/97				DOX-0204		DOX-0101	
2.0	Petrol	98	3S-FE	01/93-09/97				DOX-0217		DOX-0109	
2.0 GLI	Petrol	98	3S-FE	04/92-09/97				DOX-0204		DOX-0101	
2.0 GLI	Petrol	98	3S-FE	04/92-09/97				DOX-0217		DOX-0109	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
TOYOTA *continued*											
CARINA E (92-97) *continued*											
2.0 GTi	Petrol	116	3S-GE	04/92-02/94	M			DOX-0217		DOX-0101	
2.0 GTi	Petrol	116	3S-GE	04/92-02/94	M			DOX-0226		DOX-0110	
2.0 GTi 16V	Petrol	129	3SGER	03/94-01/96	M			DOX-0226		DOX-0110	
2.0 i	Petrol	93	3SFE	05/95-01/96				DOX-0217		DOX-0101	
2.0 i	Petrol	93	3S-FE	01/96-09/97				DOX-0204		DOX-0109	
CARINA II (83-93)											
1.6	Petrol	66	4A-F	12/87-08/90				DOX-0212		DOX-0101	
1.6	Petrol	72	4A-FE	12/87-03/92				DOX-0212	DOX-0212	DOX-0101	DOX-0101
1.6	Petrol	72	4A-FE	12/87-03/92				DOX-0249			
1.6	Petrol	72	4A-FE	12/87-03/92	M				DOX-0212		DOX-0101
1.6	Petrol	75	4A-FE	12/87-03/92				DOX-0249	DOX-0212		DOX-0101
1.6	Petrol	75	4A-FE	12/87-03/92	M				DOX-0212		DOX-0101
2.0	Petrol	89	3S-FE	12/87-11/89				DOX-0212		DOX-0101	
2.0 GLI	Petrol	89	3S-FE	12/87-03/92				DOX-0212		DOX-0101	
2.0 GLI	Petrol	89	3S-FE	12/87-03/92	M			DOX-0212		DOX-0101	
2.0 GLi	Petrol	94	3S-FE	12/87-03/92				DOX-0212		DOX-0101	
CELICA (89-93)											
1.6 STI	Petrol	77	4A-FE	10/89-11/93	M			DOX-0212		DOX-0101	
1.6 STI	Petrol	77	4A-FE	10/89-11/93	M			DOX-0217		DOX-0101	
2.0 GTi	Petrol	115	3S-GE	10/89-11/93				DOX-0212		DOX-0101	
2.0 GTi	Petrol	115	3S-GE	10/89-11/93				DOX-0217		DOX-0101	
2.0 Turbo 4WD	Petrol	150	3SGTE	10/89-11/93				DOX-0215		DOX-0101	
CELICA (89-94)											
2.0 GTi	Petrol	115	3S-GE	10/89-11/93	M			DOX-0212		DOX-0101	
2.0 GTi	Petrol	115	3S-GE	10/89-11/93	M			DOX-0217		DOX-0101	
CELICA (93-99)											
1.8 i 16V	Petrol	85	7A-FE	11/93-07/99	M			DOX-0205		DOX-0101	
1.8 i 16V	Petrol	85	7A-FE	11/93-07/99	M			DOX-0216		DOX-0109	
2.0 GTi	Petrol	129	3S-GE	08/94-08/99	M			DOX-0204		DOX-0109	
2.0 GTi	Petrol	129	3S-GE	08/94-08/99	M			DOX-0226		DOX-0110	
2.0 i 16V	Petrol	125/129	3S-GE	11/93-08/99	M			DOX-0204		DOX-0109	
2.0 i 16V	Petrol	125/129	3S-GE	11/93-08/99	M			DOX-0226		DOX-0110	
2.0 i Turbo 4WD	Petrol	178	3S-GTE	02/94-06/96	M			DOX-0217		DOX-0101	
CELICA (99-05)											
1.8 16V TS	Petrol	141	2ZZ-GE	08/99-09/05	M			DOX-0273	DOX-0274	DOX-0109	DOX-0109
1.8 16V VT-i	Petrol	105	1ZZ-FE	08/99-07/05	M			DOX-0273	DOX-0274	DOX-0109	DOX-0109
COROLLA (87-95)											
1.3	Petrol	55	2E	08/87-12/89				DOX-0207		DOX-0107	
1.3 i	Petrol	55	2E; 2EE	08/87-05/92				DOX-0207		DOX-0107	
1.3 i	Petrol	55	2E-E	06/89-06/92	M			DOX-0207		DOX-0107	
1.6	Petrol	66	4A-F	08/87-05/92	M			DOX-0210		DOX-0108	
1.6	Petrol	66/70/77	4AF; 4A-F; 4AFE	08/87-04/92				DOX-0210		DOX-0108	
1.6 GTi	Petrol	85	4A-GE	10/89-04/92				DOX-0241			
1.6 GTI	Petrol	92	4A-GE	07/87-05/92	M			DOX-0210		DOX-0108	
1.6 GTI	Petrol	92	4A-GE	07/87-05/92	M			DOX-0241			
1.6 i	Petrol	77	4A-FE	08/89-04/92				DOX-0210		DOX-0108	
1.6 i	Petrol	77	4A-FE	11/89-05/92	M			DOX-0210		DOX-0108	
1.6 i 4WD	Petrol	77	4A-FE	10/87-08/90	M			DOX-0210		DOX-0101	
1.6 i 4WD	Petrol	77	4A-FE	10/87-08/90	M			DOX-0211		DOX-0108	
1.6 XLI	Petrol	77	4A-FE	11/89-06/92	M			DOX-0210		DOX-0108	
1.6 XLI 4WD	Petrol	77	4A-FE	08/88-06/92	M			DOX-0210		DOX-0101	
1.6 XLI 4WD	Petrol	77	4A-FE	08/88-06/92	M			DOX-0211		DOX-0108	
COROLLA (91-99)											
	Petrol	65	4EFE	05/92-07/95	M			DOX-0219		DOX-0108	
	Petrol	65	4EFE	05/92-07/95	M			DOX-0225		DOX-0111	
1.3 XLI	Petrol	55	4E-FE	09/95-04/97				DOX-0225		DOX-0111	
1.3 XLI	Petrol	65	4E-FE	07/92-04/97				DOX-0219		DOX-0108	
1.3 XLI	Petrol	65	4E-FE	07/92-04/97				DOX-0225		DOX-0111	
1.3 XLI 16V	Petrol	65	4E-FE	07/92-09/95				DOX-0219		DOX-0108	
1.3 XLI 16V	Petrol	65	4E-FE	07/92-09/95				DOX-0225		DOX-0111	
1.3 XLI 16V	Petrol	65	4E-FE	07/92-09/95	M			DOX-0219		DOX-0108	
1.3 XLI 16V	Petrol	65	4E-FE	07/92-09/95	M			DOX-0225		DOX-0111	
1.6	Petrol	85	4A-FE	05/92-07/95				DOX-0219		DOX-0108	
1.6 GLI	Petrol	84	4A-FE	07/92-05/95				DOX-0219		DOX-0108	
1.6 Si	Petrol	84	4A-FE	07/92-04/97				DOX-0219		DOX-0108	
1.6 Si	Petrol	84	4A-FE	05/96-04/97	A			DOX-0202		DOX-0123	
1.8 16V 4WD	Petrol	81	7A-FE	09/95-04/97	M			DOX-0222		DOX-0102	

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
TOYOTA *continued*											
COROLLA (91-99) *continued*											
1.8 GT	Petrol	86	7A-FE	11/92-05/95	M			DOX-0219		DOX-0108	
COROLLA (97-)											
1.4	Petrol	63	4E-FE	04/97-02/00				DOX-0225		DOX-0111	
1.4	Petrol	71	4ZZ-FE	02/00-01/02	M					DOX-0114	DOX-0114
1.4 16V	Petrol	71	4ZZ-FE	02/00-11/01	M					DOX-0114	DOX-0114
1.6	Petrol	81	3ZZ-FE	02/00-01/02				DOX-0205	DOX-0267	DOX-0109	DOX-0109
1.6	Petrol	81	4A-FE	04/97-02/00	A			DOX-0202		DOX-0123	
1.6	Petrol	81	4A-FE	04/97-02/00	M			DOX-0225		DOX-0111	
1.6 16V	Petrol	81	3ZZ-FE	02/00-11/01				DOX-0205	DOX-0267	DOX-0109	DOX-0109
1.6 Aut.	Petrol	79	4A-FE	04/97-09/99	A			DOX-0202		DOX-0123	
1.8	Petrol	81	7A-FE	10/97-10/01	M			DOX-0229		DOX-0110	DOX-0109
1.8 4WD	Petrol	81	7A-FE	04/97-09/99	M			DOX-0222		DOX-0102	
COROLLA (01-07)											
1.4 VVT-i	Petrol	71	4ZZ-FE	01/02-07/07	M			DOX-2028	DOX-0276	DOX-0150	DOX-0109
1.4 VVT-i	Petrol	71	4ZZ-FE	01/02-07/07	M			DOX-2054		DOX-0150	
1.6 VVT-i	Petrol	81	3ZZ-FE	01/02-02/07				DOX-0254	DOX-0240	DOX-0106	DOX-0109
1.6 VVT-i	Petrol	81	3ZZ-FE	01/02-02/07				DOX-0289		DOX-0106	
1.8 VVTL-i TS	Petrol	141	2ZZ-GE	01/02-02/07	M			DOX-0240	DOX-0285	DOX-0109	DOX-0109
COROLLA (06-)											
1.33	Petrol	74	1NR-FE	12/08-04/10	M				DOX-0276		DOX-0109
1.6	Petrol	97	1ZRFAEHTWVM	01/09-	M						DOX-0109
1.6 Dual VVTi	Petrol	91	1ZR-FE	01/07-04/10						DOX-0106	DOX-0109
COROLLA VERSO (01-09)											
1.6	Petrol	81	3ZZ-FE	04/04-03/09	M			DOX-0254	DOX-0240	DOX-0106	DOX-0109
1.6 VVT-i	Petrol	81	3ZZ-FE	01/02-12/03	M			DOX-0254	DOX-0240	DOX-0106	DOX-0109
1.8	Petrol	95	1ZZ-FE	04/04-03/09	M			DOX-0254	DOX-0240	DOX-0106	DOX-0109
1.8 VVT-i	Petrol	99	1ZZ-FE	01/02-12/03				DOX-0240	DOX-0284	DOX-0109	DOX-0109
2.2 D-4D	Diesel	130	2AD-FHV	10/05-03/09	M				DOX-0264		
HIACE III (87-95)											
2.4	Petrol	88	2RZ-E	08/89-08/95				DOX-0213		DOX-0101	
2.4	Petrol	88	2RZ-E	08/89-08/95				DOX-0217		DOX-0101	
2.4 4WD	Petrol	88	2RZ-E	08/89-08/95	M			DOX-0213		DOX-0101	
2.4 4WD	Petrol	88	2RZ-E	08/89-08/95	M			DOX-0217		DOX-0101	
HIACE IV (95-06)											
2.4	Petrol	85	2RZ-E	08/95-02/05				DOX-0226		DOX-0110	
2.4 4WD	Petrol	85	2RZ-E	08/95-04/98	M			DOX-0226		DOX-0110	
2.7	Petrol	105	3RZ-FE	04/98-05/06				DOX-0226		DOX-0109	
2.7	Petrol	105	3RZ-FE	04/98-05/06				DOX-0286		DOX-0110	
2.7	Petrol	106	3RZ-FE	11/01-08/06				DOX-0286			
2.7 4WD	Petrol	105/106	3RZ-FE	04/98-05/06	M			DOX-0226		DOX-0109	
2.7 4WD	Petrol	105/106	3RZ-FE	04/98-05/06	M			DOX-0286		DOX-0110	
HILUX (83-05)											
2.4 i 4WD	Petrol	84	22RE	06/89-08/97	M			DOX-0208		DOX-0101	
2.4 i 4WD	Petrol	84	22RE	06/89-08/97	M			DOX-0216		DOX-0101	
LAND CRUISER 80 (90-98)											
4.0	Petrol	115	3F-E	01/90-08/92	A		L/R	DOX-0213		DOX-0101	
4.5 24V	Petrol	151	1FZ-FE	01/95-12/97				DOX-0223		DOX-0110	
LAND CRUISER 90 (95-)											
3.4 i 24V	Petrol	131	5VZ-FE	04/96-08/01		For left-hand drive vehicles				DOX-0110	
3.4 i 24V	Petrol	131	5VZ-FE	04/96-09/02					DOX-0236	DOX-0110	DOX-0109
3.4 i 24V	Petrol	131	5VZ-FE	04/96-09/02		For right-hand drive vehicles				DOX-0110	
3.4 i 24V	Petrol	131	5VZ-FE	04/96-09/02	A	For right-hand drive vehicles		DOX-0226		DOX-0110	
3.4 i 24V	Petrol	131	5VZ-FE	04/96-09/02	M	For left-hand drive vehicles		DOX-0224		DOX-0110	
3.4 i 24V	Petrol	131	5VZ-FE	04/96-09/02	M	For left-hand drive vehicles		DOX-0229		DOX-0110	
3.4 i 24V	Petrol	131	5VZ-FE	04/96-09/02	M	For left-hand drive vehicles		DOX-0244			
3.4 i 24V	Petrol	131	5VZ-FE	08/01-09/02	A	For left-hand drive vehicles		DOX-0245			
LAND CRUISER 100 (98-)											
4.7	Petrol	173	2UZ-FE	01/98-08/02	A		L/R	DOX-0269	DOX-0226	DOX-0109	DOX-0110
4.7	Petrol	175	2UZ-FE	08/02-08/07	A		L/R	DOX-0263	DOX-0226	DOX-0109	DOX-0109
4.7	Petrol	175	2UZ-FE	08/02-08/07	A		L/R	DOX-0269	DOX-0236	DOX-0109	DOX-0110
LAND CRUISER (69-97)											
2.4	Petrol	81	22R	09/85-05/93	M			DOX-0217		DOX-0101	
2.4	Petrol	84	22RE	12/88-04/96	M			DOX-0213		DOX-0101	

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Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
TOYOTA *continued*											
LAND CRUISER (69-97) *continued*											
2.4	Petrol	84	22RE	12/88-04/96	M			DOX-0217		DOX-0101	
LAND CRUISER (02-)											
4.0	Petrol	183	1GR-FE	01/03-08/04	A		L		DOX-0255		DOX-0106
4.0	Petrol	183	1GR-FE	01/03-08/04	A		R		DOX-0256		DOX-0106
4.0	Petrol	183	1GR-FE	01/03-08/09	A		L/R	DOX-0259			DOX-0106
4.0	Petrol	183	1GR-FE	01/03-08/09	A		L/R	DOX-0263			DOX-0109
LITEACE (92-97)											
2.2	Petrol	72	4Y-EC	01/92-01/95	M			DOX-0216	DOX-0222	DOX-0101	DOX-0102
MR 2 (89-00)											
2.0 16V	Petrol	115	3S-GE	12/89-05/00	M			DOX-0205		DOX-0101	
2.0 16V	Petrol	115	3S-GE	12/89-05/00	M			DOX-0208		DOX-0109	
2.0 16V	Petrol	115	3S-GE	12/89-05/00	M			DOX-0216		DOX-0110	
2.0 16V	Petrol	115	3S-GE	12/89-05/00	M			DOX-0226		DOX-0110	
2.0 16V	Petrol	125/129	3S-GE	12/89-05/00				DOX-0205		DOX-0101	
2.0 16V	Petrol	125/129	3S-GE	12/89-05/00				DOX-0208		DOX-0109	
2.0 16V	Petrol	125/129	3S-GE	12/89-05/00				DOX-0216		DOX-0110	
2.0 16V	Petrol	125/129	3S-GE	12/89-05/00				DOX-0226		DOX-0110	
2.0 Turbo	Petrol	167	3S-GTE	12/89-06/95				DOX-0215		DOX-0101	
MR 2 (99-07)											
1.8 16V VT-i	Petrol	103	1ZZ-FE	10/99-06/07	M			DOX-0204	DOX-0206	DOX-0109	DOX-0109
PASEO (95-00)											
1.5	Petrol	66	5E-FE	10/96-03/99	M			DOX-0204		DOX-0109	
1.5 16V	Petrol	66	5E-FE	08/95-07/99				DOX-0203		DOX-0109	
1.5 16V	Petrol	66	5E-FE	08/95-07/99				DOX-0204		DOX-0123	
PICNIC (96-03)											
2.0	Petrol	90	3S-FE	05/01-12/01	A		R		DOX-0277		DOX-0109
2.0	Petrol	90	3S-FE	05/01-12/01	M		L	DOX-0242			
2.0 16V	Petrol	94	3S-FE	05/96-05/01				DOX-0204	DOX-0283	DOX-0109	DOX-0109
2.0 16V	Petrol	94	3S-FE	05/96-05/01				DOX-0242			
PREVIA (90-00)											
2.4	Petrol	97	2TZ-FE	05/90-01/00				DOX-0216	DOX-0220	DOX-0101	DOX-0102
2.4	Petrol	97	2TZ-FE	05/90-01/00				DOX-0224		DOX-0110	
2.4 4WD	Petrol	97	2TZ-FE	05/90-01/00	A			DOX-0216	DOX-0220	DOX-0101	DOX-0102
2.4 4WD	Petrol	97	2TZ-FE	05/90-01/00	A			DOX-0224		DOX-0110	
PREVIA (00-06)											
2.4	Petrol	115	2AZ-FE	08/00-01/06			L	DOX-0242	DOX-0277		DOX-0109
2.4	Petrol	115	2AZ-FE	08/00-01/06			R	DOX-0246	DOX-0277		DOX-0109
2.4	Petrol	115	2AZ-FE	08/00-01/06	A		L		DOX-0205		DOX-0109
2.4	Petrol	115	2AZ-FE	08/00-01/06	A		R		DOX-0238		DOX-0109
2.4	Petrol	115	2AZ-FE	04/03-01/06				DOX-0261	DOX-0232		DOX-0109
PRIUS (00-04)											
1.5	Petrol	53	1NZ-FXE	05/00-07/03	A			DOX-0204	DOX-0271	DOX-0109	DOX-0109
PRIUS (03-09)											
1.5	Petrol	57	1NZ-FXE	08/03-03/09	A			DOX-0262	DOX-0239		DOX-0109
PRIUS (09-)											
1.8 Hybrid	Petrol/Electro	73	2ZR-FXE	04/09-	A					DOX-0109	
RAV 4 I (94-00)											
2.0 16V 4WD	Petrol	94	3S-FE	12/97-06/00				DOX-0204		DOX-0109	
2.0 4WD	Petrol	95	3S-FE	06/94-06/00				DOX-0204		DOX-0109	
2.0 4WD	Petrol	95	3S-FE	06/94-06/00				DOX-0228		DOX-0110	
2.0 4WD	Petrol	99	3S-FE	01/94-09/99						DOX-0109	
RAV 4 II (00-06)											
1.8 VVTi	Petrol	92	1ZZ-FE	02/01-11/05	M			DOX-0279	DOX-0280	DOX-0109	DOX-0109
2.0 VVTi 4WD	Petrol	110	1AZ-FE	06/00-11/05			L	DOX-0242	DOX-0277		DOX-0109
2.0 VVTi 4WD	Petrol	110	1AZ-FE	06/00-11/05			R	DOX-0246	DOX-0282		DOX-0109
2.0 VVTi 4WD	Petrol	110	1AZ-FE	07/03-11/05				DOX-0261	DOX-0233		DOX-0109
RAV 4 III (05-12)											
2.0	Petrol	116	3ZR-FAE	12/08-							DOX-0109
2.0 4WD	Petrol	116	3ZR-FAE	12/08-	M						DOX-0109
2.0 VVT-i 4WD	Petrol	112	1AZ-FE	03/06-12/08				DOX-0261			
2.0 VVT-i 4WD	Petrol	112	1AZ-FE	12/08-08/10			L/R	DOX-0261			
2.2 D-4D 4WD	Diesel	100/110	2ADFTV (DCRE/F; 2AD-FTV	03/06-12/08	M				DOX-0266		
2.2 D-CAT 4WD	Diesel	130	2AD-FHV	03/06-12/08	M				DOX-0266		
2.4 VVTi	Petrol	125	2AZ-FE	01/07-12/08	A		L/R	DOX-0261			
STARLET (89-96)											
1.3 12V	Petrol	55	2E; 2E-E	12/89-12/92				DOX-0222		DOX-0102	
1.3 12V	Petrol	55	2E-E	12/89-03/96				DOX-0220		DOX-0102	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
TOYOTA *continued*											
STARLET (89-96) *continued*											
1.3 12V	Petrol	55	2E-E	12/89-03/96				DOX-0222		DOX-0102	
STARLET (96-99)											
1.3	Petrol	55	4E-FE	04/96-03/99				DOX-0204		DOX-0109	
SUPRA (86-93)											
3.0 24V	Petrol	150	7M-GE	01/86-08/88				DOX-0207		DOX-0107	
3.0 24V	Petrol	150	7M-GE	01/86-08/88	A			DOX-0207		DOX-0107	
3.0 Turbo	Petrol	173	7M-GTE	09/87-04/93				DOX-0209			
3.0 Turbo	Petrol	173	7M-GTE	09/87-04/93				DOX-0218			
3.0 Turbo	Petrol	175	7M-GTE	08/88-05/93	M			DOX-0209			
3.0 Turbo	Petrol	175	7M-GTE	08/88-05/93	M			DOX-0218			
SUPRA (93-02)											
3.0 i	Petrol	168	2JZ-GE	05/93-05/96	M			DOX-0228	DOX-0227	DOX-0110	DOX-0110
3.0 i Bi-Turbo	Petrol	243	2JZ-GTE	05/93-01/96	M				DOX-0227		DOX-0110
3.0 i Bi-Turbo	Petrol	243	2JZ-GTE	05/93-05/96	A			DOX-0228		DOX-0110	
TERCEL (94-99)											
1.5	Petrol	70	5EFE	11/94-09/99				DOX-0203		DOX-0109	DOX-0109
1.5	Petrol	70	5EFE	11/94-09/99				DOX-0204		DOX-0123	
YARIS (99-05)											
1.0 16V	Petrol	48	1SZ-FE	03/03-09/05	M			DOX-0257	DOX-0231	DOX-0106	DOX-0109
1.0 16V	Petrol	50	1SZ-FE	04/99-02/03	M			DOX-0206	DOX-0204	DOX-0109	DOX-0109
1.0 16V	Petrol	50	1SZ-FE	04/99-02/03	M			DOX-2056		DOX-0150	
1.3	Petrol	64	2SZ-FE	04/02-09/05				DOX-0237	DOX-0231	DOX-0109	DOX-0109
1.3 16V	Petrol	63	2NZ-FE	11/99-12/02				DOX-0204	DOX-0276	DOX-0109	DOX-0109
1.5 VVT-i TS	Petrol	78	1NZ-FE	04/01-09/05	M			DOX-0204	DOX-0276	DOX-0109	DOX-0109
1.5 VVT-i TS	Petrol	78	1NZ-FE	04/01-09/05	M					DOX-0119	
YARIS (05-)											
1.0 VVT-i	Petrol	51	1KR-FE	01/06-07/11	M			DOX-2028	DOX-2056	DOX-0150	DOX-0150
1.3 VVT-i	Petrol	63/64	2NZ-FE; 2SZ-FE	11/05-11/08	M			DOX-0257	DOX-0231	DOX-0106	DOX-0109
1.8 VVTi	Petrol	98	2ZR-FE	01/07-09/08	M						DOX-0109
YARIS VERSO (99-05)											
1.3	Petrol	62	2NZ-FE	11/99-09/05				DOX-0204	DOX-0276	DOX-0109	DOX-0109
1.3	Petrol	62	2NZ-FE	11/99-09/05						DOX-0119	
1.3	Petrol	63	2NZ-FE	11/99-09/05				DOX-0204	DOX-0276	DOX-0109	DOX-0109
1.5	Petrol	78	1NZ-FE	03/00-09/05	M			DOX-0204	DOX-0276	DOX-0109	DOX-0109
VAUXHALL											
AGILA (00-08)											
1.0 12V	Petrol	43	Z 10 XE	09/00-08/03	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.0 12V	Petrol	44	Z 10 XEP	08/03-06/05	M	Ch: >5G999999		DOX-2003		DOX-0150	
1.0 12V	Petrol	44	Z 10 XEP	08/03-11/06	M				DOX-2050		DOX-0150
1.0 12V	Petrol	44	Z 10 XEP	07/06-11/06	M	Ch: 6G000001>		DOX-2050		DOX-0150	
1.2 16V	Petrol	55	Z 12 XE	09/00-08/04	M			DOX-2040	DOX-2050	DOX-0150	DOX-0150
1.2 16V Twinport	Petrol	59	Z 12 XEP	07/04-11/06	M			DOX-2050	DOX-2050	DOX-0150	DOX-0150
ANTARA											
3.2 V6	Petrol	167	Z32SE	11/06-	A		L/R		DOX-2050		DOX-0150
ASTRA Mk II (84-93)											
1.4 i	Petrol	44	C 14 NZ	01/90-12/91	M			DOX-1000		DOX-0125	
1.6 i CAT	Petrol	55	C16NZ	10/87-10/91				DOX-1000		DOX-0125	
ASTRA Mk III (91-01)											
1.4 i	Petrol	44/60	C 14 NZ; C 14 SE	09/91-03/98	M			DOX-1000		DOX-0125	
1.4 i 16V	Petrol	66	X 14 XE	01/96-03/01	M			DOX-1000		DOX-0125	
1.6 i	Petrol	52/55/74	C 16 SE; C16NZ; X 16 SZ; X 16 SZR	09/91-03/01	M			DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	01/94-06/95		Ch: >S2531218		DOX-1504		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	01/94-06/95		Ch: >S5223656		DOX-1504		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	08/94-06/95	M	Ch: >S2531218				DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	08/94-06/95	M	Ch: >S5223656				DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	07/95-03/98	M	Ch: S2531219>		DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X 16 XEL	07/95-03/98	M	Ch: S5223657>		DOX-1000		DOX-0125	
1.6 Si	Petrol	74	C 16 SE	09/91-12/94	M			DOX-1000		DOX-0125	
1.8 i	Petrol	66	C 18 NZ	09/91-09/98	M			DOX-1000		DOX-0125	
ASTRA Mk IV (98-06)											
1.2 16V	Petrol	48	X 12 XE	02/98-09/00				DOX-1553		DOX-0117	
1.2 16V	Petrol	55	Z 12 XE	09/00-02/04	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.4 16V	Petrol	66	X14XE	02/98-08/00		Ch: >18999999		DOX-1598		DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-08/00		Ch: 22000001>		DOX-1575	DOX-1575	DOX-0114	DOX-0114
1.4 16V	Petrol	66	X14XE	02/98-05/05	M	Ch: >12999999				DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-05/05	M	Ch: >15999999				DOX-0114	
1.4 16V	Petrol	66	X14XE	02/98-05/05	M	Ch: >16999999				DOX-0114	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VAUXHALL *continued*											
ASTRA Mk IV (98-06) *continued*											
1.4 16V	Petrol	66	X14XE	02/98-05/05	M	Ch: >18999999				DOX-0114	
1.4 16V	Petrol	66	Z14XE	09/00-05/05		Ch: 22000001>			DOX-1575		DOX-0114
1.6	Petrol	55	X 16 SZR	02/98-04/04	M			DOX-1000		DOX-0125	
1.6	Petrol	62	Z 16 SE	09/00-05/05				DOX-1574		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: >12999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: >15999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: >16999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: >18999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: 22000001>		DOX-1575		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: 25000001>		DOX-1575		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: 26000001>		DOX-1575		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-08/00		Ch: 28000001>		DOX-1575		DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01	M	Ch: >12999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01	M	Ch: >15999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01	M	Ch: >16999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	02/98-06/01	M	Ch: >18999999				DOX-0114	
1.6 16V	Petrol	74	Z 16 XE	03/01-12/01		Ch: >1x999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	Z 16 XE	03/01-10/05						DOX-0114	DOX-0114
1.6 16V	Petrol	74	Z 16 XE	01/02-10/05		Ch: 2x000001>			DOX-1575		DOX-0114
1.6 16V	Petrol	74/76	Z 16 XEP; Z16XEP	03/03-10/05	M				DOX-2003		DOX-0150
1.6 Dualfuel	Petrol/Petroleum Gas (LPG)	62	Z 16 SE	07/00-05/05				DOX-1574		DOX-0114	
1.6 Dualfuel	Petrol/Petroleum Gas (LPG)	63	Z 16 XE	09/02-05/05					DOX-1575		DOX-0114
1.6 Dualfuel	Petrol/Petroleum Gas (LPG)	63	Z 16 XE	10/02-04/04		Ch: 22000001>			DOX-1575		DOX-0114
1.6 Dualfuel	Petrol/Petroleum Gas (LPG)	63	Z 16 XE	10/02-04/04		Ch: 2H000001>			DOX-1575		DOX-0114
1.8 16V	Petrol	92	Z 18 XE	09/00-10/05	M					DOX-0119	DOX-0119
1.8 16V Dualfuel	Bi-Fuel	87	Z 18 XE	09/02-02/04	M					DOX-0119	DOX-0119
1.8 16V Dualfuel	Petrol/Petroleum Gas (LPG)	87	Z 18 XE	09/02-02/05	M					DOX-0119	DOX-0119
2.0 16V Turbo	Petrol	140	Z 20 LET	04/02-02/04	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.0 SRI Turbo	Petrol	141	Z 20 LET	07/02-02/04	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.2 16V	Petrol	108	Z 22 SE	07/00-10/05						DOX-0109	DOX-0109
ASTRA MK V (04-)											
1.4	Petrol	66	Z 14 XEP	01/04-06/05	M	Ch: >52999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	01/04-06/05	M	Ch: >55999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	01/04-06/05	M	Ch: >58999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	01/04-05/09	M				DOX-2050		DOX-0150
1.4	Petrol	66	Z 14 XEP	07/06-05/09	M	Ch: 62000001>		DOX-2050		DOX-0150	
1.4	Petrol	66	Z 14 XEP	07/06-05/09	M	Ch: 65000001>		DOX-2050		DOX-0150	
1.4	Petrol	66	Z 14 XEP	07/06-05/09	M	Ch: 68000001>		DOX-2050		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	03/05-06/05	M	Ch: >52999999		DOX-2003		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	03/05-06/05	M	Ch: >55999999		DOX-2003		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	03/05-06/05	M	Ch: >58999999		DOX-2003		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	03/05-11/10	M				DOX-2050		DOX-0150
1.4 i 16V	Petrol	66	Z 14 XEP	07/06-11/10	M	Ch: 62000001>		DOX-2050		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	07/06-11/10	M	Ch: 65000001>		DOX-2050		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	07/06-11/10	M	Ch: 68000001>		DOX-2050		DOX-0150	
1.6	Petrol	77	Z 16 XEP	01/04-11/10	M				DOX-2003		DOX-0150
1.6	Petrol	85	A 16 XER; Z 16 XER	01/04-05/09					DOX-1569		DOX-0119
1.6 i 16V	Petrol	85	Z 16 XER	10/06-11/10					DOX-1569		DOX-0119
1.8	Petrol	103	A 18 XER; Z 18 XER	01/04-11/10					DOX-1569		DOX-0119
1.8	Petrol	92	Z 18 XE	01/04-11/10						DOX-0119	DOX-0119
1.8 i 16V	Petrol	103	A 18 XER; Z 18 XER	03/07-11/10					DOX-1569		DOX-0119
2.0	Petrol	125	Z 20 LEL	02/06-11/10	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.0 Turbo	Petrol	125/147	Z 20 LEL; Z 20 LER	01/04-11/10	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.0 VXR	Petrol	176	Z 20 LEH	02/09-11/10	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
ASTRAVAN Mk III (91-98)											
1.4 i	Petrol	44	C 14 NZ	10/91-10/94	M			DOX-1000		DOX-0125	
1.6 i	Petrol	52/55	C 16 NZ; X 16 SZ	09/91-03/98	M			DOX-1000		DOX-0125	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
VAUXHALL *continued*											
ASTRAVAN Mk IV (98-06)											
1.6 i	Petrol	55	X 16 SZR	08/98-09/00	M			DOX-1000		DOX-0125	
1.6 i	Petrol	62	Z 16 SE	09/00-08/05				DOX-1574		DOX-0114	
BRAVA (95-01)											
2.3	Petrol	69	4 ZD1	08/91-08/94	M			DOX-1000		DOX-0125	
2.3 4x4	Petrol	69	4 ZD1	10/90-08/94	M			DOX-1000		DOX-0125	
CALIBRA											
2.0 i Turbo 4x4	Petrol	150	C 20 LET	03/92-07/97				DOX-1500		DOX-0115	
2.5 i V6	Petrol	125	X25XE	07/96-07/97						DOX-0115	
CARLTON Mk III (86-94)											
2.0	Petrol	73/74	C 20 NEF; C 20 NEJ	09/90-03/94				DOX-1500		DOX-0115	
2.0 i	Petrol	73	C 20 NEJ	09/90-03/94				DOX-1500		DOX-0115	
2.6 i	Petrol	110	C 26 NE	09/90-03/94	M			DOX-1500		DOX-0115	
CAVALIER Mk III (88-95)											
1.6 i	Petrol	52/55	E 16 NZ; X 16 SZ	09/88-11/95	M			DOX-1000		DOX-0125	
1.8 i CAT	Petrol	66	C 18 NZ	09/90-11/95				DOX-1000		DOX-0125	
2.0 i Turbo 4x4	Petrol	150	C 20 LET	06/92-11/94				DOX-1500		DOX-0115	
COMBO											
1.6	Petrol	64	Z 16 SE	10/01-06/04				DOX-1575	DOX-1575	DOX-0114	DOX-0114
COMBO (94-01)											
1.4	Petrol	44	C 14 NZ	07/94-10/01	M			DOX-1000		DOX-0125	
COMBO (01-12)											
1.4 i 16V	Petrol	66	Z 14 XEP	01/04-11/11	M	Ch: 63000001>		DOX-2050		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	01/04-11/11	M	Ch: 64000001>		DOX-2050		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	01/04-11/11	M	Ch: 66000001>		DOX-2050		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	07/04-11/11	M				DOX-2050		DOX-0150
1.4 i 16V	Petrol	66	Z 14 XEP	07/04-11/11	M	Ch: >53999999		DOX-2003		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	07/04-11/11	M	Ch: >54999999		DOX-2003		DOX-0150	
1.4 i 16V	Petrol	66	Z 14 XEP	07/04-11/11	M	Ch: >56999999		DOX-2003		DOX-0150	
1.6	Petrol	62/64	Z 16 SE	08/01-10/04				DOX-1575	DOX-1575	DOX-0114	DOX-0114
CORSA (93-00)											
1.0 i 12V	Petrol	40	X 10 XE	11/96-09/00				DOX-1553		DOX-0117	
1.2 i	Petrol	33	C12NZ	03/93-08/98	M			DOX-1000		DOX-0125	
1.2 i 16V	Petrol	48	X 12 XE	03/98-09/00				DOX-1553		DOX-0117	
1.4 i	Petrol	44	C14NZ	03/93-08/98	M			DOX-1000		DOX-0125	
1.4 i 16V	Petrol	66	X 14 XE	09/94-09/00				DOX-1000		DOX-0125	
1.4 i 16V	Petrol	66	X 14 XE	09/94-09/00				DOX-1504		DOX-0125	
1.4 i S	Petrol	60	C 14 SE	03/93-07/94	M			DOX-1000		DOX-0125	
1.6 GSI 16V	Petrol	80	C 16 XE	03/93-09/00				DOX-1000		DOX-0125	
1.6 GSI 16V	Petrol	80	C 16 XE	03/93-09/00				DOX-1504		DOX-0125	
1.6 i 16V	Petrol	78	X 16 XE	09/94-09/00				DOX-1000		DOX-0125	
1.6 i 16V	Petrol	78	X 16 XE	09/94-09/00				DOX-1504		DOX-0125	
CORSA (00-06)											
1.0 12V	Petrol	43	Z 10 XE	09/00-10/03	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.0 12V	Petrol	44	Z 10 XEP	11/03-10/06	M			DOX-2050		DOX-0150	
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M			DOX-2003		DOX-0150	
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M	Ch: >13025250			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M	Ch: >14177496			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M	Ch: >16079019			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M	Ch: 13025251>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M	Ch: 14177497>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-10/06	M	Ch: 16079020>			DOX-2050		DOX-0150
1.2 16V Dualfuel	Petrol/Petroleum Gas (LPG)	55	Z 12 XE	09/03-10/06	M	Ch: >13025250			DOX-2050		DOX-0150
1.2 16V Dualfuel	Petrol/Petroleum Gas (LPG)	55	Z 12 XE	09/03-10/06	M	Ch: 13025251>			DOX-2050		DOX-0150
1.2 Twinport	Petrol	59	Z 12 XEP	07/06-10/06	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.4 16V	Petrol	66	Z 14 XE	09/00-08/03					DOX-1575		DOX-0114
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06					DOX-2050		DOX-0150
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06		Ch: >53999999		DOX-2003		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06		Ch: >54999999		DOX-2003		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06		Ch: >56999999		DOX-2003		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06		Ch: 63000001>		DOX-2050		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06		Ch: 64000001>		DOX-2050		DOX-0150	
1.4 Twinport	Petrol	66	Z 14 XEP	06/03-10/06		Ch: 66000001>		DOX-2050		DOX-0150	
1.8 16V	Petrol	92	Z 18 XE	08/00-09/06	M					DOX-0119	DOX-0119

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VAUXHALL *continued*											
CORSA (06-)											
1.0	Petrol	44	Z10XEP	11/06-	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.2	Petrol	59	Z 12 XEP	11/06-	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.4	Petrol	66	Z 14 XEP	07/06-				DOX-2003	DOX-2050	DOX-0150	DOX-0150
CORSAVAN (94-00)											
1.4 i	Petrol	44	C 14 NZ	01/94-09/00	M			DOX-1000		DOX-0125	
CORSAVAN (00-)											
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M			DOX-2003		DOX-0150	
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M	Ch: 13025251>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M	Ch: 14177497>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-08/03	M	Ch: 16079020>			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-06/06	M	Ch: >13025250			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-06/06	M	Ch: >14177496			DOX-2050		DOX-0150
1.2 16V	Petrol	55	Z 12 XE	09/00-06/06	M	Ch: >16079019			DOX-2050		DOX-0150
CORSAVAN (06-)											
1.2	Petrol	59	Z 12 XEP	07/09-	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
FRONTERA (92-98)											
2.0	Petrol	85	X20SE	04/95-08/98				DOX-1593		DOX-0115	
2.0 i	Petrol	85	X20SE	02/95-10/98				DOX-1593		DOX-0115	
2.0 i	Petrol	85	X20SE	04/95-10/98	M					DOX-0115	
2.2 i	Petrol	100	X 22 XE	03/95-10/98				DOX-1593		DOX-0115	
2.2 i	Petrol	100	X 22 XE	03/95-10/98	M					DOX-0115	
MERIVA (03-10)											
1.4 16V Twinport	Petrol	66	Z 14 XEP	09/04-10/09	M			DOX-2003	DOX-2050	DOX-0150	DOX-0150
1.6 i	Petrol	64	Z 16 SE	01/03-09/05				DOX-1575	DOX-1575	DOX-0114	DOX-0114
1.6 i 16V	Petrol	74	Z 16 XE	01/03-02/06					DOX-1575		DOX-0114
1.6 i 16V Twinport	Petrol	77	Z 16 XEP	08/04-10/09	M				DOX-2003		DOX-0150
1.8 i 16V	Petrol	92	Z 18 XE	05/03-08/05	M					DOX-0119	DOX-0119
NOVA											
1.2 i CAT	Petrol	33	C 12 NZ	02/92-03/93	M			DOX-1000		DOX-0125	
1.4	Petrol	44	C 14 NZ	10/90-08/92	M			DOX-1000		DOX-0125	
1.4 i	Petrol	44	C 14 NZ	08/90-03/93	M			DOX-1000		DOX-0125	
1.4 i S	Petrol	60	C 14 SE	02/92-03/93	M			DOX-1000		DOX-0125	
1.6 GSI CAT	Petrol	74	C 16 SE	02/92-03/93	M			DOX-1000		DOX-0125	
OMEGA											
2.0	Petrol	85	20 SE	09/95-10/95						DOX-0115	
2.0	Petrol	85	X 20 SE	03/94-09/99				DOX-1593		DOX-0115	
2.2 16V	Petrol	106	Z22XE	08/99-06/03	M						DOX-0119
2.5 V6	Petrol	125	X 25 XE	03/94-09/00			L/R	DOX-1500		DOX-0115	
2.6 V6	Petrol	132	Y 26 SE	08/00-06/02		Ch: >21059096	L/R				DOX-0150
2.6 V6	Petrol	132	Y 26 SE	08/00-06/02	M	Ch: >21059096	L/R		DOX-2050		DOX-0150
2.6 V6	Petrol	132	Y 26 SE	08/00-07/03			L/R			DOX-0150	DOX-0150
2.6 V6	Petrol	132	Y 26 SE	08/00-07/03	A		L/R	DOX-2040	DOX-2003	DOX-0150	DOX-0150
2.6 V6	Petrol	132	Y 26 SE	08/00-07/03	M		L/R	DOX-2050		DOX-0150	
3.0 V6	Petrol	155	X 30 XE	04/94-07/00			L/R	DOX-1500		DOX-0115	
3.2 V6	Petrol	160	Y 32 SE	02/01-07/03	A		L/R	DOX-2040	DOX-2003	DOX-0150	DOX-0150
SENATOR (87-93)											
2.6 i	Petrol	110	C 26 NE	09/90-09/93	M			DOX-1500		DOX-0115	
3.0 i CAT	Petrol	130	C 30 NE	01/88-09/93	M	Ch: M1000001>		DOX-1500		DOX-0115	
SIGNUM											
1.8	Petrol	103	Z 18 XER	08/05-05/08					DOX-1569		DOX-0119
1.8	Petrol	90	Z 18 XE	06/03-07/05	M					DOX-0119	DOX-0119
2.8 V6 Turbo	Petrol	169	Z 28 NEL	10/05-12/06					DOX-2050		DOX-0150
3.2 V6	Petrol	155	Z 32 SE	05/03-09/05			L/R	DOX-2050	DOX-2050	DOX-0150	DOX-0150
SPEEDSTER (VX220)											
2.0	Petrol	162	Z 20 LET	05/04-12/04	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
TIGRA (94-00)											
1.4 16V	Petrol	66	X 14 XE	11/94-06/95		Ch: >S4269627				DOX-0125	
1.4 16V	Petrol	66	X 14 XE	11/94-06/95		Ch: >S6011904				DOX-0125	
1.4 16V	Petrol	66	X 14 XE	02/95-12/00		Ch: S4269628>		DOX-1000		DOX-0125	
1.4 16V	Petrol	66	X 14 XE	02/95-12/00		Ch: S6011905>		DOX-1000		DOX-0125	
1.6 16V	Petrol	78	X 16 XE	11/94-06/95	M	Ch: >S4269627				DOX-0125	
1.6 16V	Petrol	78	X 16 XE	11/94-06/95	M	Ch: >S6011904				DOX-0125	
1.6 16V	Petrol	78	X 16 XE	07/95-12/00	M	Ch: S4269628>		DOX-1000		DOX-0125	
1.6 16V	Petrol	78	X 16 XE	07/95-12/00	M	Ch: S6011905>		DOX-1000		DOX-0125	
TIGRA (04-09)											
1.4	Petrol	66	Z 14 XEP	06/04-06/05	M	Ch: >5E999999		DOX-2003		DOX-0150	
1.4	Petrol	66	Z 14 XEP	06/04-07/08	M				DOX-2050		DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VAUXHALL *continued*											
TIGRA (04-09) *continued*											
1.4	Petrol	66	Z 14 XEP	06/04-07/08	M	Ch: 6,00E+01>		DOX-2050		DOX-0150	
1.8	Petrol	92	Z 18 XE	06/04-07/08	M					DOX-0119	DOX-0119
VECTRA (95-03)											
1.6 i	Petrol	55	X 16 SZR	08/95-01/99	M			DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X16XEL	08/95-03/02		Ch: >W1285446		DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X16XEL	08/95-03/02		Ch: >W7154258		DOX-1000		DOX-0125	
1.6 i 16V	Petrol	74	X16XEL	08/95-03/02		Ch: W1285447>		DOX-1598		DOX-0114	
1.6 i 16V	Petrol	74	X16XEL	08/95-03/02		Ch: W7154259>		DOX-1598		DOX-0114	
1.6 i 16V	Petrol	74	Y16XE; Z16XE	09/99-08/01				DOX-1576		DOX-0114	
1.8 i 16V	Petrol	92	Z 18 XE	09/00-03/02						DOX-0119	DOX-0119
2.2 i 16V	Petrol	108	Z 22 SE	09/00-03/02						DOX-0109	DOX-0109
2.5 i GSi	Petrol	143	X 25 XE	03/98-07/00			L/R	DOX-1500		DOX-0115	
2.5 i GSi	Petrol	143	X 25 XE	03/98-07/00	M	Leaded	L/R			DOX-0115	
2.5 i V6	Petrol	125	X 25 XE	09/95-08/00			L/R	DOX-1500		DOX-0115	
2.5 i V6	Petrol	125	X 25 XE	09/95-08/00		Leaded	L/R			DOX-0115	
2.6 i V6	Petrol	125	Y 26 SE	09/00-03/02				DOX-2003	DOX-2040	DOX-0150	DOX-0150
VECTRA (00-08)											
1.6 16V	Petrol	74	Z 16 XE	06/04-06/05					DOX-1575		DOX-0114
1.8	Petrol	103	Z 18 XER	01/06-07/08					DOX-1569		DOX-0119
1.8	Petrol	81	Z 18 XEL	04/02-09/05	M					DOX-0119	DOX-0119
1.8 16V	Petrol	90	Z 18 XE	04/02-07/08	M					DOX-0119	DOX-0119
1.8 16V Dualfuel	Petrol/Petroleum Gas (LPG)	90	Z 18 XE	04/02-09/05	M					DOX-0119	DOX-0119
1.8 16V Dualfuel	Bi-Fuel	90	Z 18 XE	08/02-09/05	M					DOX-0119	DOX-0119
2.2 16V	Petrol	108	Z 22 SE	01/02-06/04		Ch: >41061765					DOX-0109
2.2 16V	Petrol	108	Z 22 SE	01/02-06/04		Ch: >48053424					DOX-0109
2.8 V6 Turbo	Petrol	169/184/188	Z 28 NEL; Z 28 NET	08/05-07/08					DOX-2050		DOX-0150
3.2 V6	Petrol	155	Z 32 SE	08/02-09/05			L/R	DOX-2050	DOX-2050	DOX-0150	DOX-0150
VX220											
2.2 i	Petrol	108	Z 22 SE	09/00-12/04	M					DOX-0109	DOX-0109
ZAFIRA (98-05)											
1.6 16V	Petrol	74	X16XEL	04/99-07/99		Ch: >18999999		DOX-1598		DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-07/99		Ch: 22000001>		DOX-1575		DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/01	M	Ch: >12999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/01	M	Ch: >15999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/01	M	Ch: >16999999				DOX-0114	
1.6 16V	Petrol	74	X16XEL	04/99-06/01	M	Ch: >18999999				DOX-0114	
1.6 16V	Petrol	74	Z16XE	10/99-05/05		Ch: 22000001>			DOX-1575		DOX-0114
1.6 CNG	CNG	71	Z 16 YNG	09/01-06/05		Ch: 22000001>			DOX-1575		DOX-0114
1.6 CNG	CNG	71	Z 16 YNG	09/01-06/05		Ch: 2H000001>			DOX-1575		DOX-0114
1.8 16V	Petrol	92	Z 18 XE	09/00-08/05						DOX-0119	DOX-0119
1.8 Dualfuel	Petrol/Petroleum Gas (LPG)	92	Z 18 XE	09/00-08/05						DOX-0119	DOX-0119
2.0	Petrol	147	Z 20 LET	07/03-06/05	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.0 GSI Turbo	Petrol	141	Z 20 LET	09/01-06/05	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.2 16V	Petrol	108	Z 22 SE	08/00-08/04						DOX-0109	DOX-0109
ZAFIRA (05-)											
1.6	Petrol	77	Z 16 XE1; Z 16 XEP	07/05-02/09	M				DOX-2003		DOX-0150
1.6	Petrol	85	A 16 XER; Z 16 XER	12/07-					DOX-1569		DOX-0119
1.8	Petrol	103	A 18 XER; Z 18 XER	04/05-					DOX-1569		DOX-0119
2.0	Petrol	147/176	Z 20 LEH; Z 20 LER	07/05-	M			DOX-2003	DOX-2052	DOX-0150	DOX-0150
2.0	Petrol	147/176	Z 20 LEH; Z 20 LER	02/09-	M		L/R		DOX-2052		DOX-0150
VOLVO											
440											
1.6	Petrol	61	B 16 F	10/91-12/96						DOX-0115	
1.7	Petrol	78	B 18 EP	09/88-06/95						DOX-0115	
1.7 Turbo	Petrol	88/90	B 18 FT	08/88-12/96						DOX-0115	
1.8	Petrol	66	B 18 U	08/91-07/96						DOX-0115	
2.0	Petrol	81	B 20 F	08/92-07/95						DOX-0115	
460											
1.6	Petrol	61	B 16 F	07/92-07/96						DOX-0115	
1.7	Petrol	80	B 18 E	01/90-07/92						DOX-0115	
1.7 Turbo	Petrol	88	B 18 FT	01/90-07/96						DOX-0115	
1.8	Petrol	66	B 18 U	08/91-07/96						DOX-0115	
2.0	Petrol	80/81	B 20 F	07/93-07/96						DOX-0115	

Lambda Sensors | Application Tables

		KW						L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VOLVO *continued*												
480												
1.7	Petrol	70/75/80	B 18 EP; B 18 F	08/86-07/95	M						DOX-0115	
1.7 Turbo	Petrol	88/90	B 18 FT	04/88-07/95							DOX-0115	
2.0	Petrol	81	B 20 F	08/92-09/95							DOX-0115	
740												
2.0	Petrol	82	B 200 F	08/89-07/91		Ch: 176800>, + Catalyst					DOX-0115	
2.0 Turbo	Petrol	114	B 200 FT	09/90-08/91	M	+ Catalyst		DOX-1351			DOX-0115	
2.3	Petrol	111/117	B 234 F	08/87-07/90	M	+ Catalyst		DOX-1351			DOX-0115	
2.3	Petrol	111/117	B 234 F	04/88-07/90	M						DOX-0115	
2.3	Petrol	114	B 234 F	08/88-07/90	M						DOX-0115	
2.3	Petrol	83/84/85	B 230 F; B 230 K	08/85-07/92		Ch: 176800>, + Catalyst					DOX-0115	
2.3	Petrol	83/84/85/86	B 230 F; B 230 K; B230F	08/84-07/92		Ch: 294100>, + Catalyst					DOX-0115	
2.3 Turbo	Petrol	115/121/140	B 230 FT	08/86-07/90	M	+ Catalyst		DOX-1351			DOX-0115	
760												
2.3	Petrol	119	B 230 FT	07/88-06/90		+ Catalyst		DOX-1351			DOX-0115	
2.8	Petrol	105/115	B 280 F; B280FC	05/86-08/90	A	+ Catalyst					DOX-0115	
850												
2.0	Petrol	93/105	B 5202 S; B 5204 F	06/91-12/96		Ch: >70018, Not Leaded					DOX-0114	
2.0	Petrol	93/105	B 5202 S; B 5204 F	06/91-12/96		Ch: 70019>, Not Leaded		DOX-1535			DOX-0120	
2.0	Petrol	93/105	B 5202 S; B 5204 F	09/96-12/96							DOX-0117	
2.0 Turbo	Petrol	155	B5204T2	01/94-12/96								DOX-0117
2.3 T5	Petrol	166	B 5234 FT	01/94-12/96								DOX-0117
2.3 Turbo R	Petrol	177	B 5234 T5	06/95-08/95								DOX-0117
2.5	Petrol	106	B 5252 FS	08/94-12/96		Ch: >70018, Not Leaded					DOX-0114	
2.5	Petrol	106	B 5252 FS	08/94-12/96		Ch: 70019>, Not Leaded		DOX-1535			DOX-0120	
2.5	Petrol	106	B 5252 FS	09/96-12/96							DOX-0117	
2.5	Petrol	125	B 5254 S	08/91-12/96							DOX-0117	DOX-0117
2.5	Petrol	125	B 5254 S	08/91-12/96		Ch: >70018, Not Leaded					DOX-0114	
2.5	Petrol	125	B 5254 S	08/91-12/96		Ch: 70019>, Not Leaded		DOX-1535			DOX-0120	
2.5 AWD	Petrol	142	B 5254 T	04/96-12/96	M							DOX-0117
940												
2.0	Petrol	82	B 200 F	01/92-09/93							DOX-0115	
2.0 Turbo	Petrol	114	B 200 FT	08/90-10/98				DOX-1351			DOX-0115	
2.0 Turbo	Petrol	114	B 200 FT	08/90-10/98							DOX-0116	
2.3	Petrol	114	B 234 F; B234F	08/90-07/91	M						DOX-0115	
2.3	Petrol	96	B 230 FB	08/90-06/98							DOX-0115	
2.3	Petrol	96	B 230 FB	08/90-06/98							DOX-0116	
2.3	Petrol	96	B230FB	08/90-09/93							DOX-0115	
2.3 ti	Petrol	99	B 230 FK	01/95-06/98							DOX-0116	
2.3 Turbo	Petrol	121	B 230 FT	08/90-06/98	M			DOX-1351			DOX-0115	
2.3 Turbo	Petrol	121	B 230 FT	08/90-06/98	M						DOX-0116	
2.3 Turbo	Petrol	126	B 230 FT	08/95-06/98	M						DOX-0116	
2.3 Turbo	Petrol	140	B 230 FT+	08/91-07/93	M			DOX-1351			DOX-0115	
960												
2.0	Petrol	140	B 204 FT	08/90-09/93	M			DOX-1351			DOX-0115	
C30 (06-12)												
1.8	Petrol	92	B 4184 S11	10/06-11/09	M			DOX-2004			DOX-0150	
1.8 FlexFuel	Flexfuel	92	B 4184 S8	01/07-12/09	M			DOX-2004			DOX-0150	
2.0	Petrol	107	B 4204 S3	10/06-12/12				DOX-2004			DOX-0150	
2.4 i	Petrol	125	B 5244 S4	10/06-11/09					DOX-0406			DOX-0109
T5	Petrol	162	B 5254 T3	10/06-03/07					DOX-2021			DOX-0150
C70 I (98-05)												
2.0	Petrol	132	B 5204 T2	03/97-09/98		Not Leaded					DOX-0117	
2.0	Petrol	132	B 5204 T2	03/97-10/05					DOX-2021			DOX-0150
2.0 T	Petrol	120	B 5204 T4	04/01-10/05					DOX-2021			DOX-0150
2.0 T	Petrol	166	B 5204 T3	03/97-09/98		Not Leaded					DOX-0117	
2.0 T	Petrol	166	B 5204 T3	03/97-02/01					DOX-2021			DOX-0150
2.3 T5	Petrol	180	B 5234 T9	07/02-10/05					DOX-2021			DOX-0150
2.3 T-5	Petrol	176	B 5234 T3	03/97-09/02					DOX-2021			DOX-0150
2.3 T-5	Petrol	176	B 5234 T3	03/97-09/02		Not Leaded					DOX-0117	
2.4 T	Petrol	147	B 5244 T7	07/02-10/05					DOX-2021			DOX-0150
2.5	Petrol	125	B 5254 S; B5244S; B5254S	04/99-02/01				DOX-1419	DOX-1420			DOX-0113

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VOLVO *continued*											
C70 I (98-05) *continued*											
2.5 T	Petrol	142	B5244T	04/99-09/02					DOX-2021		DOX-0150
2.5 T	Petrol	142	B5254T	03/97-09/02					DOX-2021		DOX-0150
2.5 T	Petrol	142	B5254T	03/97-09/02		Not Leaded				DOX-0117	
C70 II (06-)											
2.4 i	Petrol	125	B 5244 S4	03/06-04/10				DOX-0405	DOX-0406		DOX-0109
T5	Petrol	162/169	B 5254 T3; B 5254 T7	03/06-10/09					DOX-2021		DOX-0150
S40 (95-03)											
1.6	Petrol	77/80	B 4164 S; B 4164 S2	01/97-12/03	M					DOX-0119	
1.8	Gas	85	B 4184 S2	06/01-08/03						DOX-0119	
1.8	Petrol	85	B4184S	07/95-08/99		Not Leaded				DOX-0119	
1.8	Petrol	90	B4184S2	03/99-12/03						DOX-0119	
2.0	Petrol	100	B4204S2	04/99-12/03						DOX-0119	
2.0	Petrol	103	B 4204 S	07/95-08/99		Not Leaded				DOX-0119	
S40 (04-)											
1.6	Petrol	74	B 4164 S3	01/05-	M			DOX-2004		DOX-0150	
1.8	Petrol	92	B 4184 S11	04/04-04/07	M			DOX-2004		DOX-0150	
1.8 FlexFuel	Flexfuel	92	B 4184 S8	01/06-10/09	M			DOX-2004		DOX-0150	
2.0	Petrol	107	B 4204 S3	10/06-01/11	M			DOX-2004		DOX-0150	
2.4	Petrol	103/125	B 5244 S5	01/04-04/10				DOX-0405	DOX-0406		DOX-0109
T5	Petrol	162/169	B 5254 T3; B 5254 T7	01/04-04/10					DOX-2021		DOX-0150
T5 AWD	Petrol	162/169	B 5254 T3; B 5254 T7	04/04-04/10					DOX-2021		DOX-0150
S60 (00-10)											
2.4	Petrol	103	B 5244 S2	11/00-09/02		Not for emission code: Euro 4		DOX-1419			
2.4	Petrol	103	B 5244 S2	11/00-03/03				DOX-0412	DOX-0401		DOX-0109
2.4	Petrol	103	B 5244 S2	11/00-03/03					DOX-0402		DOX-0113
2.4	Petrol	103	B 5244 S2	11/00-03/03					DOX-0403		DOX-0109
2.4	Petrol	103	B 5244 S2	11/00-03/03					DOX-0411		DOX-0109
2.4	Petrol	103	B 5244 S2	11/00-03/03					DOX-1420		DOX-0113
2.4	Petrol	103	B 5244 S2	11/00-03/03		Euro 4			DOX-0401		DOX-0109
2.4	Petrol	103	B 5244 S2	11/00-03/03		Euro 4			DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	11/00-09/02		Not for emission code: Euro 4		DOX-1419			
2.4	Petrol	125	B 5244 S	11/00-03/03				DOX-0410	DOX-0401		DOX-0109
2.4	Petrol	125	B 5244 S	11/00-03/03					DOX-0402		DOX-0113
2.4	Petrol	125	B 5244 S	11/00-03/03					DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	11/00-03/03					DOX-0411		DOX-0109
2.4	Petrol	125	B 5244 S	11/00-03/03					DOX-1420		DOX-0113
2.4	Petrol	125	B 5244 S	11/00-03/03		Euro 4			DOX-0401		DOX-0109
2.4	Petrol	125	B 5244 S	11/00-03/03		Euro 4			DOX-0403		DOX-0109
2.4 Bifuel	Bi-Fuel	103	B 5244 SG2	06/02-03/09				DOX-1419	DOX-0400		DOX-0109
2.4 Bifuel	Bi-Fuel	103	B 5244 SG2	06/02-03/09					DOX-0411		DOX-0109
2.4 T	Petrol	147	B 5244 T3	11/00-01/03					DOX-2021		DOX-0150
2.4 T AWD	Petrol	147	B 5244 T3	11/01-01/03					DOX-2021		DOX-0150
2.4 T5	Petrol	191	B 5244 T5	04/04-03/09					DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	02/04-03/09					DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	02/04-03/09					DOX-2045		DOX-0150
2.5 T AWD	Petrol	154	B 5254 T2	04/04-03/09					DOX-2021		DOX-0150
2.5 T AWD	Petrol	154	B 5254 T2	04/04-03/09					DOX-2045		DOX-0150
R 2,5 T AWD	Petrol	221	B 5254 T4	03/03-04/07					DOX-2021		DOX-0150
R 2,5 T AWD	Petrol	221	B 5254 T4	03/03-04/07					DOX-2045		DOX-0150
T5	Petrol	184	B 5234 T3	11/00-12/04					DOX-0401		DOX-0109
T5	Petrol	184	B 5234 T3	11/00-12/04					DOX-0403		DOX-0150
T5	Petrol	184	B 5234 T3	11/00-12/04					DOX-2021		DOX-0150
T5	Petrol	184	B 5234 T3	11/00-12/04	A				DOX-0401		DOX-0109
T5	Petrol	184	B 5234 T3	11/00-12/04	A				DOX-0403		DOX-0150
T5	Petrol	184	B 5234 T3	11/00-12/04	A				DOX-2021		DOX-0150
S60 (10-)											
T6 AWD	Petrol	224	B 6304 T4	04/10-	A			DOX-0409			
S70 (96-00)											
2.0	Petrol	120	B 5204 T4	07/98-11/00					DOX-2021		DOX-0150
2.0	Petrol	120	B 5204 T4	07/98-11/00		Not Leaded				DOX-0117	
2.0	Petrol	132	B 5204 T2	01/97-06/98							DOX-0117
2.0	Petrol	132	B 5204 T2	01/97-06/98		Not Leaded				DOX-0117	
2.0	Petrol	93	B 5202 S	01/97-04/99				DOX-1419		DOX-0117	
2.0 Turbo	Petrol	166	B 5204 T3	01/97-11/00					DOX-2021		DOX-0150
2.0 Turbo	Petrol	166	B 5204 T3	01/97-11/00		Not Leaded				DOX-0117	
2.3 Turbo	Petrol	184	B 5234 FT+	01/97-11/00					DOX-2021		DOX-0150

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VOLVO *continued*											
S70 (96-00) *continued*											
2.3 Turbo	Petrol	184	B 5234 FT+	01/97-11/00		Not Leaded				DOX-0117	
2.3 Turbo	Petrol	184	B 5234 FT+	09/98-11/00	A				DOX-2021		DOX-0150
2.4	Petrol	103/125	B5244S2	05/99-11/00				DOX-1419	DOX-1420		DOX-0113
2.4 AWD	Petrol	121	B 5254 S	05/99-05/99	A			DOX-1419	DOX-1420		DOX-0113
2.4 Turbo	Petrol	142	B5244T	05/99-11/00					DOX-2021		DOX-0150
2.4 Turbo	Petrol	142	B5254T	01/97-11/00					DOX-2021		DOX-0150
2.4 Turbo	Petrol	142	B5254T	01/97-11/00		Not Leaded				DOX-0117	
2.5	Petrol	121	B 5254 S	06/98-06/98		Not Leaded				DOX-0117	
2.5	Petrol	121	B 5254 S	06/98-04/99				DOX-1419	DOX-1420	DOX-0117	DOX-0113
2.5 Bifuel	Bi-Fuel	103	B 5244 SG	07/99-11/00				DOX-1419	DOX-1420		DOX-0113
2.5 Bifuel	Bi-Fuel	106	GB 5252 S	10/98-04/99	A			DOX-1419			
S80 (98-06)											
2.0	Petrol	120	B 5204 T4	06/98-12/00					DOX-2021		DOX-0150
2.0 T	Petrol	132/166	B 5204 T3; B 5204 T5	06/98-02/06					DOX-2021		DOX-0150
2.4	Petrol	103	B 5244 S2	01/99-02/06				DOX-0410	DOX-0401		DOX-0109
2.4	Petrol	103	B 5244 S2	01/99-02/06				DOX-1419	DOX-0403		DOX-0113
2.4	Petrol	103	B 5244 S2	01/99-02/06					DOX-1420		DOX-0113
2.4	Petrol	103	B 5244 S2	01/99-02/06	M				DOX-0401		DOX-0113
2.4	Petrol	103	B 5244 S2	01/99-02/06	M				DOX-0403		DOX-0109
2.4	Petrol	103	B 5244 S2	01/99-02/06	M				DOX-1420		DOX-0113
2.4	Petrol	103	B 5244 S2	01/99-02/06	M	Euro 4			DOX-0401		DOX-0113
2.4	Petrol	103	B 5244 S2	01/99-02/06	M	Euro 4			DOX-0403		DOX-0109
2.4	Petrol	103	B 5244 S2	01/99-02/06	M	Euro 4			DOX-1420		DOX-0113
2.4	Petrol	103	B 5244 S2	09/01-02/06	A			DOX-0412	DOX-0411		DOX-0109
2.4	Petrol	103	B 5244 S2	09/02-09/04	A	Not for emission code: Euro 4			DOX-0402		DOX-0109
2.4	Petrol	103	B 5244 S2	09/02-02/06		Not for emission code: Euro 4			DOX-0404		DOX-0109
2.4	Petrol	103	B 5244 S2	09/02-02/06		Euro 4			DOX-0401		DOX-0109
2.4	Petrol	103	B 5244 S2	09/02-02/06		Euro 4			DOX-0403		DOX-0109
2.4	Petrol	103	B 5244 S2	09/04-02/06	M	Not for emission code: Euro 4			DOX-0404		DOX-0109
2.4	Petrol	125	B 5244 S	01/99-02/06				DOX-1419	DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	01/99-02/06					DOX-0411		DOX-0113
2.4	Petrol	125	B 5244 S	01/99-02/06					DOX-1420		DOX-0113
2.4	Petrol	125	B 5244 S	01/99-02/06		Euro 4			DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	01/99-02/06		Euro 4			DOX-1420		DOX-0113
2.4	Petrol	125	B 5244 S	01/99-02/06	A				DOX-0401		DOX-0113
2.4	Petrol	125	B 5244 S	01/99-02/06	A				DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	01/99-02/06	A				DOX-1420		DOX-0113
2.4	Petrol	125	B 5244 S	01/99-02/06	A	Euro 4			DOX-0401		DOX-0113
2.4	Petrol	125	B 5244 S	01/99-02/06	A	Euro 4			DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	01/99-02/06	A	Euro 4			DOX-1420		DOX-0113
2.4	Petrol	125	B 5244 S	09/01-02/06	M			DOX-0412	DOX-0411		DOX-0109
2.4	Petrol	125	B 5244 S	09/02-09/04	M	Not for emission code: Euro 4			DOX-0402		DOX-0109
2.4	Petrol	125	B 5244 S	09/02-02/06		Not for emission code: Euro 4			DOX-0402		DOX-0109
2.4	Petrol	125	B 5244 S	09/04-02/06	A	Not for emission code: Euro 4			DOX-0404		DOX-0109
2.4 Bifuel	Bi-Fuel	103	B 5244 SG2	09/01-02/06				DOX-1419	DOX-0400		DOX-0109
2.4 Bifuel	Bi-Fuel	103	B 5244 SG2	09/01-02/06					DOX-0411		DOX-0113
2.4 Bifuel	Bi-Fuel	103	B 5244 SG2	09/01-02/06					DOX-1420		DOX-0113
2.4 T	Petrol	147	B 5244 T3	06/00-12/03					DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	07/03-02/06	M				DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	07/03-02/06	M				DOX-2045		DOX-0150
2.5 T AWD	Petrol	154	B 5254 T2	07/03-02/06	A				DOX-2021		DOX-0150
2.5 T AWD	Petrol	154	B 5254 T2	07/03-02/06	A				DOX-2045		DOX-0150
2.8 T6	Petrol	200	B 6284 T	05/98-09/99	A				DOX-2009		DOX-0150
2.8 T6	Petrol	200	B 6284 T	09/01-12/01	A		L		DOX-2022		DOX-0150
2.8 T6	Petrol	200	B 6284 T	09/01-12/01	A		L/R				DOX-0150
2.8 T6	Petrol	200	B 6284 T	09/01-12/01	A		R		DOX-2021		DOX-0150
2.9	Petrol	150	B 6304 S3	05/98-12/99			L/R		DOX-2009		DOX-0150
2.9	Petrol	150	B 6304 S3	09/99-12/99					DOX-2022		DOX-0150
3.0	Petrol	144	B 6294 S2	06/01-09/01	A				DOX-2022		DOX-0150
3.0	Petrol	144	B 6294 S2	06/01-09/02	A		L		DOX-2022		DOX-0150
3.0	Petrol	144	B 6294 S2	06/01-05/05	A		L/R		DOX-2009		DOX-0150
3.0	Petrol	144	B 6294 S2	06/01-05/05	A		L/R		DOX-2021		DOX-0150
3.0 T6	Petrol	200	B 6294 T	06/01-09/02	A		L		DOX-2022		DOX-0150
3.0 T6	Petrol	200	B 6294 T	06/01-02/06	A		L/R		DOX-2021		DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VOLVO *continued*											
S80 (06-)											
3.2	Petrol	175	B 6324 S	03/06-05/10	A		L/R	DOX-0407	DOX-0408		
3.2 AWD	Petrol	175	B 6324 S	01/07-05/10	A		L/R	DOX-0407	DOX-0408		
V40 (95-04)											
1.6	Petrol	77	B 4164 S	05/97-08/99	M					DOX-0119	
1.8	Petrol	85	B4184S	07/95-08/99		Not Leaded				DOX-0119	
1.8	Petrol	85	B4184S	02/96-08/99						DOX-0119	
2.0	Petrol	103	B 4204 S	07/95-08/99		Not Leaded				DOX-0119	
V50 (04-)											
1.8	Petrol	92	B 4184 S11	04/04-04/07	M			DOX-0405	DOX-0406		DOX-0109
1.8 FlexFuel	Flexfuel	92	B 4184 S8	05/06-10/09	M			DOX-0405	DOX-0406		DOX-0109
2.0	Petrol	107	B 4204 S3	10/06-01/11	M			DOX-0405	DOX-0406		DOX-0109
2.4	Petrol	103/125	B 5244 S5	04/04-04/10				DOX-0405	DOX-0406		DOX-0109
T5	Petrol	162	B 5254 T3	04/04-12/05					DOX-2021		DOX-0150
T5 AWD	Petrol	162	B 5254 T3	04/04-12/05					DOX-2021		DOX-0150
V60 (10-)											
T6 AWD	Petrol	224	B 6304 T4	09/10-	A			DOX-0409			
V70 (96-00)											
2.0	Petrol	120/132	B 5204 T2; B 5204 T4	05/97-06/98							DOX-0117
2.0	Petrol	120/132	B 5204 T2; B 5204 T4	05/97-06/98		Not Leaded				DOX-0117	
2.0 Turbo	Petrol	166	B 5204 T3	05/97-06/98							DOX-0117
2.0 Turbo	Petrol	166	B 5204 T3	05/97-06/98		Not Leaded				DOX-0117	
2.0 Turbo AWD	Petrol	166	B 5204 T3	05/97-06/98	M						DOX-0117
2.0 Turbo AWD	Petrol	166	B 5204 T3	05/97-06/98	M	Not Leaded				DOX-0117	
2.3 AWD	Petrol	177	B 5234 T3	04/97-09/98	A						DOX-0117
2.3 AWD	Petrol	177	B 5234 T3	04/97-09/98	A	Not Leaded				DOX-0117	
2.3 T AWD	Petrol	184	B 5234 FT+	04/97-06/98	M						DOX-0117
2.3 T AWD	Petrol	184	B 5234 FT+	04/97-06/98	M	Not Leaded				DOX-0117	
2.3 T AWD	Petrol	184	B 5234 FT+	01/99-03/00	A				DOX-2021		DOX-0150
2.3 T-5	Petrol	176	B 5234 T3	05/97-06/98		Not Leaded				DOX-0117	
2.3 T-5	Petrol	176	B 5234 T3	05/97-06/98	M						DOX-0117
2.3 T-5 AWD	Petrol	176	B 5234 T3	05/97-06/98	A	Not Leaded				DOX-0117	
2.3 Turbo	Petrol	184	B 5234 FT+	05/97-06/98							DOX-0117
2.3 Turbo	Petrol	184	B 5234 FT+	05/97-06/98		Not Leaded				DOX-0117	
2.4	Petrol	103/125	B5244S2	05/99-12/99				DOX-1419	DOX-1420		DOX-0113
2.4	Petrol	125	B5254FS	01/97-12/99				DOX-1419	DOX-1420	DOX-0117	DOX-0113
2.4 Bifuel	Bi-Fuel	103	B 5244 SG	08/99-03/00				DOX-1419	DOX-1420		DOX-0113
2.4 Turbo	Petrol	142	B5244T	05/99-03/00					DOX-2021		DOX-0150
2.4 Turbo	Petrol	142	B5254T	01/97-03/00					DOX-2021		DOX-0150
2.4 Turbo	Petrol	142	B5254T	01/97-03/00		Not Leaded				DOX-0117	
2.5	Petrol	121	B 5254 S	06/98-03/00				DOX-1419	DOX-1420	DOX-0117	DOX-0113
2.5 Turbo AWD	Petrol	142	B5244T	05/99-12/99					DOX-2021		DOX-0150
2.5 Turbo AWD	Petrol	142	B5254T	01/97-09/98		Not Leaded				DOX-0117	
2.5 Turbo AWD	Petrol	142	B5254T	01/97-05/00					DOX-2021		DOX-0150
V70 (00-07)											
2.0 T	Petrol	132	B 5204 T5	07/01-04/07					DOX-2021		DOX-0150
2.3 AWD	Petrol	195	B5234T7	10/00-09/04	A				DOX-2021		DOX-0150
2.3 T5	Petrol	184	B5234T3	03/00-03/05					DOX-2021		DOX-0150
2.3 T5	Petrol	184	B5234T7	09/02-09/04	A				DOX-2045		DOX-0150
2.4	Petrol	103	B 5244 S2	01/01-04/07				DOX-0410	DOX-0401		DOX-0109
2.4	Petrol	103	B 5244 S2	01/01-04/07				DOX-1419	DOX-0403		DOX-0113
2.4	Petrol	103	B 5244 S2	01/01-04/07					DOX-0411		DOX-0109
2.4	Petrol	103	B 5244 S2	01/01-04/07					DOX-1420		DOX-0113
2.4	Petrol	103	B 5244 S2	01/01-04/07		Not for emission code: Euro 4			DOX-0402		DOX-0109
2.4	Petrol	103	B 5244 S2	01/01-04/07		Not for emission code: Euro 4			DOX-0404		DOX-0109
2.4	Petrol	103	B 5244 S2	01/01-04/07		Euro 4			DOX-0401		DOX-0109
2.4	Petrol	103	B 5244 S2	01/01-04/07		Euro 4			DOX-0403		DOX-0109
2.4	Petrol	125	B 5244 S	01/01-04/07				DOX-0412	DOX-0401		DOX-0109
2.4	Petrol	125	B 5244 S	01/01-04/07				DOX-1419	DOX-0403		DOX-0113
2.4	Petrol	125	B 5244 S	01/01-04/07					DOX-0411		DOX-0109
2.4	Petrol	125	B 5244 S	01/01-04/07					DOX-1420		DOX-0113
2.4	Petrol	125	B 5244 S	01/01-04/07		Not for emission code: Euro 4			DOX-0402		DOX-0109
2.4	Petrol	125	B 5244 S	01/01-04/07		Not for emission code: Euro 4			DOX-0404		DOX-0109
2.4	Petrol	125	B 5244 S	01/01-04/07		Euro 4			DOX-0401		DOX-0109
2.4	Petrol	125	B 5244 S	01/01-04/07		Euro 4			DOX-0403		DOX-0109
2.4 Bifuel	Bi-Fuel	103	B 5244 SG; B 5244 SG2	09/01-04/07				DOX-1419	DOX-0400		DOX-0109

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VOLVO *continued*											
V70 (00-07) *continued*											
2.4 Bifuel	Bi-Fuel	103	B 5244 SG; B 5244 SG2	09/01-04/07					DOX-0411		DOX-0113
2.4 Bifuel	Bi-Fuel	103	B 5244 SG; B 5244 SG2	09/01-04/07					DOX-1420		DOX-0113
2.4 T	Petrol	147	B 5244 T3	03/00-10/05					DOX-2021		DOX-0150
2.4 T AWD	Petrol	147	B 5244 T3	09/01-03/05					DOX-2021		DOX-0150
2.4 T5	Petrol	191	B 5244 T5	04/04-04/07					DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	04/04-04/07					DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	04/04-04/07					DOX-2045		DOX-0150
2.5 T AWD	Petrol	154	B 5254 T2	09/02-04/07					DOX-2021		DOX-0150
2.5 T AWD	Petrol	154	B 5254 T2	09/02-04/07					DOX-2045		DOX-0150
R 2,5 T AWD	Petrol	221	B 5254 T4	03/03-04/07					DOX-2021		DOX-0150
R 2,5 T AWD	Petrol	221	B 5254 T4	03/03-04/07					DOX-2045		DOX-0150
V70 (07-)											
3.2	Petrol	175	B 6324 S	08/07-05/10	A		L/R	DOX-0407	DOX-0408		
3.2 AWD	Petrol	175	B 6324 S	08/07-05/10	A		L/R	DOX-0407	DOX-0408		
T6 AWD	Petrol	210	B 6304 T2	08/07-05/10	A			DOX-0409			
XC60 (08-)											
T6 AWD	Petrol	210	B 6304 T2	05/08-03/10	A			DOX-0409			
XC70 (97-07)											
2.4 T XC AWD	Petrol	142	B 5254 T	11/97-12/99					DOX-2021	DOX-0117	DOX-0150
2.4 T XC AWD	Petrol	147	B 5244 T3	09/00-09/02					DOX-2021		DOX-0150
2.5 T XC AWD	Petrol	154	B 5254 T2	09/02-03/07					DOX-2021		DOX-0150
2.5 T XC AWD	Petrol	154	B 5254 T2	09/02-03/07					DOX-2045		DOX-0150
XC70 (07-)											
3.2 AWD	Petrol	175	B 6324 S	08/07-	A			DOX-0407	DOX-0408		
XC90 (02-)											
2.5 T	Petrol	154	B 5254 T2	10/02-09/07					DOX-2021		DOX-0150
2.5 T	Petrol	154	B 5254 T2	10/02-09/07					DOX-2045		DOX-0150
T6	Petrol	200	B 6294 T	10/02-09/07	A				DOX-2021		DOX-0150
VW											
BEETLE (11-ON)											
1.4 TSI	Petrol	118	CAVD	10/11-	M				DOX-2041		DOX-0150
1.4 TSI	Petrol	118	CNWA	10/11-	A				DOX-2041		DOX-0150
BORA											
1.4 16V	Petrol	55	AHW	03/00-05/05	M			DOX-1552		DOX-0117	
1.4 16V	Petrol	55	AKQ; APE	03/00-05/05	M				DOX-2000		DOX-0150
1.4 16V	Petrol	55	AXP	03/00-05/05	M	Ch: >1-900 000			DOX-2000		DOX-0150
1.4 16V	Petrol	55	AXP	05/01-05/05	M	Ch: 2-000 001>			DOX-2047		DOX-0150
1.4 16V	Petrol	55	BCA	09/01-05/05	M				DOX-2047		DOX-0150
1.6	Petrol	74	AEH; AKL	10/98-05/05		Ch: X-260 001>		DOX-2012		DOX-0150	
1.6	Petrol	74	AEH; AKL	05/99-05/05				DOX-2012		DOX-0150	
1.6	Petrol	74	APF	05/99-05/05					DOX-2008		DOX-0150
1.6	Petrol	75	AVU	08/00-05/05	A				DOX-2000		DOX-0150
1.6	Petrol	75	BFQ	05/02-05/05					DOX-2000		DOX-0150
1.6 16V	Petrol	77	ATN; AUS; AZD; BCB	02/00-05/05	M				DOX-1564		DOX-0119
1.8	Petrol	92	AGN	02/99-05/99				DOX-1551		DOX-0117	
1.8 T	Petrol	110	AGU	05/00-05/05				DOX-1551		DOX-0117	
1.8 T	Petrol	110	ARX	05/00-05/05	A				DOX-2027		DOX-0150
1.8 T	Petrol	110	AUM	05/00-05/05					DOX-2027		DOX-0150
1.8 T	Petrol	132	AUQ	03/02-05/05	M				DOX-2027		DOX-0150
2.0	Petrol	85	APK; AQY	10/98-05/05				DOX-2027	DOX-2008	DOX-0150	DOX-0150
2.0	Petrol	85	APK; AQY	10/98-05/05					DOX-2015		DOX-0150
2.0	Petrol	85	AZJ	05/99-05/05					DOX-2015		DOX-0150
2.0	Petrol	85	AZJ	05/99-05/05		4WD			DOX-2008		DOX-0150
2.0 4motion	Petrol	85	AZH; AZJ	04/00-05/03					DOX-2008		DOX-0150
2.3 V5	Petrol	110	AGZ	10/98-10/00				DOX-1551		DOX-0117	
2.3 V5	Petrol	125	AQN	10/00-05/05		Ch: >1-900 000			DOX-2008		DOX-0150
2.3 V5	Petrol	125	AQN	10/00-05/05		Ch: >1-900 000			DOX-2030		DOX-0150
2.3 V5	Petrol	125	AQN	05/01-05/05		Ch: 2-000 001>			DOX-2023		DOX-0150
2.3 V5 4motion	Petrol	125	AQN	10/00-05/03			L		DOX-2023		DOX-0150
2.3 V5 4motion	Petrol	125	AQN	10/00-05/03			R				DOX-0150
2.8 V6 4motion	Petrol	150	AQP; AUE; BDE	03/99-05/03			L		DOX-2023		DOX-0150
2.8 V6 4motion	Petrol	150	AQP; AUE; BDE	03/99-05/03			R				DOX-0150
CADDY I (82-92)											
1.8	Petrol	70	JH	08/85-07/92				DOX-1006		DOX-0125	
CADDY II (95-04)											
1.4	Petrol	44	AEX	11/95-05/97	M	Ch: >W-502 300				DOX-0114	
1.4	Petrol	44	AEX	05/97-12/97	M	Ch: W-502 301>		DOX-1171		DOX-0117	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
VW *continued*											
CADDY II (95-04) *continued*											
1.4	Petrol	44	AKV; APQ	11/97-10/98	M	Ch: >X-521 000		DOX-1171		DOX-0117	
1.4	Petrol	44	AKV; APQ	10/98-06/03	M	Ch: X-521 001>		DOX-1551		DOX-0117	
1.4	Petrol	44	APQ	12/97-05/98	M			DOX-1171		DOX-0117	
1.4	Petrol	44	AUD	09/00-10/00	M	Ch: >1-518 700			DOX-2023		DOX-0150
1.4	Petrol	44	AUD	10/00-05/02	M	Ch: 1-518 701>3-501 800			DOX-2015		DOX-0150
1.4	Petrol	44	AUD	10/00-05/02	M	Ch: 1-518 701>3-501 800			DOX-2018		DOX-0150
1.4	Petrol	44	AUD	05/02-06/03	M	Ch: 3-501 801>			DOX-2015		DOX-0150
1.4	Petrol	55	AUA	08/00-06/03	M				DOX-1567		DOX-0119
1.4 16V	Petrol	55	AUA	08/00-06/03	M				DOX-1567		DOX-0119
1.6	Petrol	55	1F	11/95-05/97	M					DOX-0114	
1.6	Petrol	55	AEE	06/96-12/00	M			DOX-1171		DOX-0117	
60 1.4	Petrol	44	AEX	11/95-05/97	M	Ch: >W-502 300				DOX-0114	
60 1.4	Petrol	44	AEX	05/97-12/97	M	Ch: W-502 301>		DOX-1171		DOX-0117	
60 1.4	Petrol	44	APQ	12/97-10/98	M	Ch: >X-521 000		DOX-1171		DOX-0117	
60 1.4	Petrol	44	APQ	10/98-06/03	M	Ch: X-521 001>		DOX-1551		DOX-0117	
60 1.4	Petrol	44	AUD	09/00-10/00	M	Ch: >1-518 700			DOX-2023		DOX-0150
60 1.4	Petrol	44	AUD	10/00-05/02	M	Ch: 1-518 701>3-501 800			DOX-2015		DOX-0150
60 1.4	Petrol	44	AUD	10/00-05/02	M	Ch: 1-518 701>3-501 800			DOX-2018		DOX-0150
60 1.4	Petrol	44	AUD	05/02-06/03	M	Ch: 3-501 801>			DOX-2015		DOX-0150
75 1.6	Petrol	55	1F	11/95-05/97	M					DOX-0114	
75 1.6	Petrol	55	AEE	06/97-09/00	M			DOX-1171		DOX-0117	
CADDY III (04-)											
1.4	Petrol	55	BCA	03/04-05/06	M				DOX-2016		DOX-0150
1.4 16V	Petrol	59	BUD	05/06-08/10	M					DOX-0119	DOX-0119
1.6	Petrol	74/75	BGU; BRY; BSE; BSF	04/04-	M						DOX-0119
2.0 EcoFuel	Natural Gas	80	BSX	04/06-	M				DOX-2041		DOX-0150
CORRADO											
1.8 G60	Petrol	118	PG	09/88-09/93		- Catalyst				DOX-0115	
1.8 G60	Petrol	118	PG	09/88-09/93		+ Catalyst				DOX-0116	
1.8 G60	Petrol	118	PG	09/88-09/93		Ch: >K-011 579, + Catalyst		DOX-1311		DOX-0116	
1.8 G60	Petrol	118	PG	09/88-09/93		Ch: K-011 580>, + Catalyst		DOX-1025		DOX-0116	
2.0 i	Petrol	85	2E	04/93-09/94				DOX-1171		DOX-0117	
2.0 i	Petrol	85	2E	04/93-09/94				DOX-1172		DOX-0118	
2.0 i	Petrol	85	2E	04/93-09/94				DOX-1173		DOX-0117	
2.0 i	Petrol	85	2E	04/93-09/94				DOX-1363		DOX-0117	
2.0 i	Petrol	85	ADY	07/94-09/94	A	Ch: >S-000 719		DOX-1171		DOX-0117	
2.0 i	Petrol	85	ADY	07/94-09/94	A	Ch: >S-000 719		DOX-1172		DOX-0118	
2.0 i	Petrol	85	ADY	07/94-09/94	A	Ch: >S-000 719		DOX-1173		DOX-0117	
2.0 i	Petrol	85	ADY	07/94-09/94	A	Ch: >S-000 719		DOX-1363		DOX-0117	
2.0 i 16V	Petrol	100	9A	08/91-07/95				DOX-1025		DOX-0116	
2.9 VR6	Petrol	140	ABV	08/91-09/94		Ch: >S-000 719, + Catalyst		DOX-1171		DOX-0117	
2.9 VR6	Petrol	140	ABV	08/91-09/94		Ch: >S-000 719, + Catalyst		DOX-1172		DOX-0118	
2.9 VR6	Petrol	140	ABV	08/91-09/94		Ch: >S-000 719, + Catalyst		DOX-1173		DOX-0117	
2.9 VR6	Petrol	140	ABV	08/91-09/94		Ch: >S-000 719, + Catalyst		DOX-1363		DOX-0117	
2.9 VR6	Petrol	140	ABV	08/91-07/95		+ Catalyst		DOX-1171		DOX-0117	
2.9 VR6	Petrol	140	ABV	08/91-07/95		+ Catalyst		DOX-1172		DOX-0118	
2.9 VR6	Petrol	140	ABV	08/91-07/95		+ Catalyst		DOX-1173		DOX-0117	
2.9 VR6	Petrol	140	ABV	08/91-07/95		+ Catalyst		DOX-1363		DOX-0117	
EOS (06-)											
1.4 TSI	Petrol	90/118	CAVD; CAXA	11/10-	M				DOX-2041		DOX-0150
1.6 FSI	Petrol	85	BLF	06/06-05/08	M				DOX-2016		DOX-0150
2.0 FSI	Petrol	110	BVY	03/06-05/08	M						DOX-0150
2.0 TFSI	Petrol	147	BWA	03/06-11/10					DOX-2016		DOX-0150
2.0 TFSI	Petrol	147	CCZA	11/10-					DOX-2041		DOX-0150
2.0 TSI	Petrol	155	CCZB	11/10-					DOX-2041		DOX-0150
3.2 V6	Petrol	184	BUB	06/06-05/09	A		L/R		DOX-2041		DOX-0150
FOX (03-)											
1.2	Petrol	40	BMD	04/05-	M			DOX-1588	DOX-1565	DOX-0121	DOX-0119
1.4	Petrol	55	BKR	04/05-	M				DOX-1565		DOX-0119
GOLF I (74-93)											
1.6	Petrol	55	EZ	08/83-02/84				DOX-1006		DOX-0125	

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VW *continued*											
GOLF I (74-93) *continued*											
1.8	Petrol	70	JH	08/83-04/93				DOX-1006		DOX-0125	
1.8	Petrol	72	2H	08/89-03/93				DOX-1025		DOX-0116	
GOLF II (83-92)											
1.3	Petrol	40	MH; NZ	08/85-06/87	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	2G; MH	08/88-07/92	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	NZ	01/87-07/87	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	NZ	08/88-07/90	M	Ch: >L-990 000				DOX-0115	
1.3 CAT	Petrol	40	NZ	08/90-07/92	M	Ch: M-000 001>				DOX-0115	
1.6	Petrol	53/55	EZ; RF	08/83-10/91				DOX-1006		DOX-0125	
1.8	Petrol	66	GU	07/90-10/91				DOX-1006		DOX-0125	
1.8 GTI	Petrol	77	RV	01/85-07/85				DOX-1311		DOX-0116	
1.8 GTI	Petrol	79	RD	08/85-10/87	M					DOX-0115	
1.8 GTI 16V	Petrol	95/102	KR; PL	02/86-10/91	M					DOX-0115	
1.8 GTI CAT	Petrol	79	PF	01/87-10/91	M			DOX-1311		DOX-0116	
1.8 GTI G60	Petrol	118	PG	04/90-07/91	M			DOX-1025		DOX-0116	
1.8 GTI G60	Petrol	118	PG	04/90-07/91	M	+ Catalyst		DOX-1023		DOX-0115	
1.8 GTI G60	Petrol	118	PG	04/90-07/91	M	+ Catalyst				DOX-0118	
1.8 GTI G60 Syncro	Petrol	118	1H	08/88-07/91	M	+ Catalyst		DOX-1311		DOX-0116	
1.8 GTI G60 Syncro	Petrol	118	PG	08/88-07/91	M	- Catalyst				DOX-0115	
1.8 GTI G60 Syncro	Petrol	118	PG	08/88-07/91	M	+ Catalyst				DOX-0116	
1.8 i CAT	Petrol	66	RP	08/87-10/91		+ Catalyst		DOX-1351		DOX-0115	
1.8 i Syncro CAT	Petrol	66	RP	08/87-10/91	M			DOX-1311		DOX-0116	
1.8 Syncro	Petrol	66	GX	02/86-07/88	M					DOX-0115	
1.8 Syncro	Petrol	72	1P	08/88-07/91	M			DOX-1311		DOX-0116	
GOLF III (91-99)											
1.4	Petrol	40/44	ABD	10/91-07/95	M	Ch: S-120 001>		DOX-1171		DOX-0117	
1.4	Petrol	40/44	ABD	10/91-08/97	M	Ch: >S-120 000		DOX-1172		DOX-0118	
1.4	Petrol	44	ABD	07/93-07/94	M			DOX-1172		DOX-0118	
1.4	Petrol	44	AEX	07/95-11/97	M			DOX-1171		DOX-0117	
1.4	Petrol	44	AEX	07/95-11/97	M			DOX-1363		DOX-0117	
1.4	Petrol	44	APQ	12/97-05/98	M			DOX-1171		DOX-0117	
1.6	Petrol	55	ABU	09/92-09/94	M			DOX-1172		DOX-0118	
1.6	Petrol	55	AEA; AEE	10/94-08/97	M			DOX-1171		DOX-0117	
1.6	Petrol	74	AEK; AFT	07/94-04/99						DOX-0118	
1.6	Petrol	74	AKS	04/97-04/99	M					DOX-0118	
1.8	Petrol	55	AAM	07/94-10/94	M	Ch: >S-010 000				DOX-0125	
1.8	Petrol	55	AAM	05/96-04/99						DOX-0114	
1.8	Petrol	55/66	AAM; ABS	11/91-08/97		Ch: >S-120 000, + Catalyst		DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	11/91-08/97	A	Ch: >S-120 000		DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	11/91-08/97	M	Ch: >S-120 000				DOX-0125	
1.8	Petrol	55/66	AAM; ABS	11/91-04/99		Ch: S-120 001>				DOX-0114	
1.8	Petrol	55/66	AAM; ABS	07/93-07/94		+ Catalyst		DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	07/93-07/95	A			DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	07/93-12/97	M					DOX-0114	
1.8	Petrol	55/66	AAM; ABS	07/93-12/97	M					DOX-0125	
1.8	Petrol	55/66	ADZ; ANN; ANP	07/93-04/99						DOX-0114	
1.8	Petrol	66	ACC	12/94-08/97	M					DOX-0114	
1.8 Syncro	Petrol	66	ABS	01/93-09/94	M					DOX-0125	
1.8 Syncro	Petrol	66	ADZ	10/94-04/99	M					DOX-0114	
2.0	Petrol	85	2E	11/91-08/97		Ch: >S-120 000, + Catalyst				DOX-0118	
2.0	Petrol	85	2E	11/91-04/99				DOX-1171		DOX-0117	
2.0	Petrol	85	2E	11/91-04/99				DOX-1172		DOX-0118	
2.0	Petrol	85	2E	11/91-04/99				DOX-1173		DOX-0117	
2.0	Petrol	85	2E	11/91-04/99				DOX-1363		DOX-0117	
2.0	Petrol	85	ADY; AGG	07/93-04/99		+ Catalyst				DOX-0118	
2.0 GL	Petrol	79	AEP	08/95-09/97		+ Catalyst				DOX-0118	
2.0 GTI 16V	Petrol	110	ABF	08/92-08/97	M	Ch: >S-120 000				DOX-0120	
2.0 GTI 16V	Petrol	110	ABF	08/92-08/97	M	Ch: >S-120 000, + Catalyst				DOX-0118	
2.8 VR6	Petrol	128	AAA	01/92-08/97				DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	01/92-08/97				DOX-1172		DOX-0118	
2.8 VR6	Petrol	128	AAA	01/92-08/97				DOX-1173		DOX-0117	
2.8 VR6	Petrol	128	AAA	01/92-08/97				DOX-1363		DOX-0117	
2.8 VR6	Petrol	128	AAA	01/92-08/97		Ch: >S-120 000, + Catalyst				DOX-0118	
2.8 VR6	Petrol	128	AAA	07/94-08/97		+ Catalyst				DOX-0118	
2.9 VR6 Syncro	Petrol	140	ABV	07/95-04/99	M	Ch: T-000 001>		DOX-1363		DOX-0117	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
VW *continued*											
GOLF IV (97-08)											
1.4 16V	Petrol	55	AHW	08/97-06/06				DOX-1552		DOX-0117	
1.4 16V	Petrol	55	AKQ	08/97-06/06	M			DOX-1552		DOX-0117	
1.4 16V	Petrol	55	APE	05/99-06/06	M				DOX-2000		DOX-0150
1.4 16V	Petrol	55	AXP	05/99-06/06	M				DOX-2000		DOX-0150
1.4 16V	Petrol	55	AXP	05/99-06/06	M				DOX-2008		DOX-0150
1.4 16V	Petrol	55	BCA	05/99-06/06	M				DOX-2008		DOX-0150
1.6	Petrol	74	AEH	01/98-05/04		Ch: >X-132 000		DOX-1551		DOX-0117	
1.6	Petrol	74	AEH; AKL	08/97-05/04		Ch: X-132 001>		DOX-2012		DOX-0150	
1.6	Petrol	74	AFT	06/98-10/00						DOX-0118	
1.6	Petrol	74	AKL	08/97-05/04				DOX-2012		DOX-0150	
1.6	Petrol	74	AKL	08/97-05/04	M	Ch: >X-132 000		DOX-1551		DOX-0117	
1.6	Petrol	74	AKS	06/98-10/00	M					DOX-0118	
1.6	Petrol	74	APF	05/99-05/04					DOX-2008		DOX-0150
1.6	Petrol	75	AVU; BFQ	08/00-06/06					DOX-2000		DOX-0150
1.6 16V	Petrol	77	ATN; AUS; AZD; BCB	02/00-06/06	M				DOX-1564		DOX-0119
1.8	Petrol	55	AAM; ANN	06/98-10/00	M					DOX-0114	
1.8	Petrol	66	ADZ; ANP	06/98-10/00						DOX-0114	
1.8	Petrol	92	AGN	08/97-09/00				DOX-1551		DOX-0117	
1.8 T	Petrol	110	AGU	08/97-06/06				DOX-1551		DOX-0117	
1.8 T	Petrol	110	ARZ	05/99-09/00	M			DOX-2027	DOX-2000	DOX-0150	DOX-0150
1.8 T	Petrol	110	AUM	05/00-06/06					DOX-2027		DOX-0150
1.8 T GTI	Petrol	132	AUQ	05/02-05/04	M				DOX-2027		DOX-0150
2.0	Petrol	85	APK; AQY	07/98-06/06				DOX-2027	DOX-2008	DOX-0150	DOX-0150
2.0	Petrol	85	ATU	06/98-06/02				DOX-2012	DOX-2012	DOX-0150	DOX-0150
2.0	Petrol	85	AWF	06/98-06/02	A			DOX-2012	DOX-2012	DOX-0150	DOX-0150
2.0	Petrol	85	AWG	06/98-06/02	M			DOX-2012	DOX-2012	DOX-0150	DOX-0150
2.0	Petrol	85	AZG; BEH	05/01-05/04	M				DOX-2015		DOX-0150
2.0	Petrol	85	AZJ	05/99-06/06					DOX-2015		DOX-0150
2.0	Petrol	85	AZJ	05/99-06/06		4WD			DOX-2008		DOX-0150
2.0 4motion	Petrol	85	AZH	10/00-06/05	M				DOX-2008		DOX-0150
2.0 4motion	Petrol	85	AZH; AZJ	10/00-06/05					DOX-2008		DOX-0150
2.0 Bi-Fuel	Bi-Fuel	85	BEH	02/02-06/06	M				DOX-2000		DOX-0150
2.0 Bi-Fuel	Bi-Fuel	85	BEH	02/02-06/06	M				DOX-2008		DOX-0150
2.3 V5	Petrol	110	AGZ	08/97-02/01				DOX-1551		DOX-0117	
2.3 V5	Petrol	125	AQN	10/00-06/06					DOX-2023		DOX-0150
2.3 V5	Petrol	125	AQN	10/00-06/06					DOX-2027		DOX-0150
2.3 V5 4motion	Petrol	125	AQN	10/00-06/05			L		DOX-2023		DOX-0150
2.3 V5 4motion	Petrol	125	AQN	10/00-06/05			R				DOX-0150
2.8 V6 4motion	Petrol	150	AQP; AUE	03/99-04/01	M		L		DOX-2023		DOX-0150
2.8 V6 4motion	Petrol	150	AQP; AUE	03/99-04/01	M		R				DOX-0150
2.8 V6 4motion	Petrol	150	AQP; AUE; BDE	05/99-06/05			L		DOX-2023		DOX-0150
2.8 V6 4motion	Petrol	150	AQP; AUE; BDE	05/99-06/05			R				DOX-0150
3.2 R32 4motion	Petrol	177	BFH	09/02-05/04			L		DOX-2023		DOX-0150
3.2 R32 4motion	Petrol	177	BFH	09/02-05/04			R				DOX-0150
GOLF PLUS (05-)											
1.4 16V	Petrol	55	BCA	01/05-05/06	M				DOX-2016		DOX-0150
1.4 16V	Petrol	59	BUD	05/06-	M					DOX-0119	DOX-0119
1.4 16V	Petrol	59	CGGA	01/09-	M					DOX-0119	
1.4 TSI	Petrol	90/118	CAVD; CAXA	06/08-					DOX-2041		DOX-0150
1.6	Petrol	75	BSE; BSF	05/05-							DOX-0119
1.6	Petrol	75	CCSA	11/07-	M						DOX-0119
1.6 FSI	Petrol	85	BLF	01/05-05/08					DOX-2016		DOX-0150
1.6 MultiFuel	Petrol/Ethanol	75	CHGA	05/09-	M						DOX-0119
2.0 FSI	Petrol	110	BLR; BVY	05/05-06/08							DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	05/05-06/08			L	DOX-2041		DOX-0150	
GOLF V (03-09)											
1.4 16V	Petrol	55	BCA	10/03-05/06	M				DOX-2016		DOX-0150
1.4 16V	Petrol	59	BUD	05/06-11/08	M					DOX-0119	DOX-0119
1.4 TSI	Petrol	125	BLG	11/05-11/08					DOX-2041		DOX-0150
1.6	Petrol	75	BGU; BSE; BSF	01/04-11/08							DOX-0119
1.6 FSI	Petrol	85	BLF	01/05-07/08					DOX-2016		DOX-0150
2.0	Petrol	147	BWA	06/07-03/09					DOX-2016		DOX-0150
2.0 FSI	Petrol	110	AXW; BLR; BLX; BVX; BVY	01/04-11/08			L	DOX-2041		DOX-0150	
2.0 FSI	Petrol	110	AXW; BLX; BVX	01/04-11/08			L/R			DOX-0150	DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	01/05-11/08							DOX-0150
2.0 FSI 4motion	Petrol	110	BLX; BVX	06/05-05/07	M		L	DOX-2041		DOX-0150	DOX-0150
2.0 FSI 4motion	Petrol	110	BLX; BVX	06/05-05/07	M		R			DOX-0150	DOX-0150

Lambda Sensors | Application Tables

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VW *continued*											
GOLF V (03-09) *continued*											
2.0 GTI	Petrol	147/169	AXX; BWA; BYD	10/04-12/08					DOX-2016		DOX-0150
3.2 R32 4motion	Petrol	184	BUB	11/05-11/08						DOX-0150	DOX-0150
3.2 R32 4motion	Petrol	184	BUB	11/05-11/08			L		DOX-2000		DOX-0150
3.2 R32 4motion	Petrol	184	BUB	11/05-11/08			R		DOX-2041		DOX-0150
GOLF VI (08-13)											
1.4	Petrol	59	BUD; CGGA	07/09-	M					DOX-0119	DOX-0119
1.4 TSI	Petrol	118	CAVD	07/09-					DOX-2041		DOX-0150
1.4 TSI	Petrol	90	CAXA	07/09-	A				DOX-2041		DOX-0150
1.6	Petrol	75	BSE; BSF; CCSA	07/09-	M						DOX-0119
1.6 MultiFuel	Petrol/Ethanol	75	CMXA	07/10-	M						DOX-0119
GOLF VI (08-)											
1.4	Petrol	59	CGGA	10/08-11/12	M					DOX-0119	DOX-0119
1.4 TSI	Petrol	118	CAVD	10/08-07/12					DOX-2041		DOX-0150
1.4 TSI	Petrol	90	CAXA	10/08-11/12	A				DOX-2041		DOX-0150
1.6	Petrol	75	BSE; BSF	10/08-11/12							DOX-0119
1.6	Petrol	75	CCSA; CMXA	10/08-11/12	M						DOX-0119
1.6 BiFuel	Petrol/Petroleum Gas (LPG)	75	CHGA	03/09-11/12	M						DOX-0119
1.8 TSI	Petrol	118	CDAA	06/09-01/11					DOX-2041		DOX-0150
2.0 R 4motion	Petrol	188/199	CDLC; CDLF	11/09-11/13	M						DOX-0150
JETTA (84-92)											
1.3	Petrol	40	MH; NZ	08/85-06/87	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	MH	08/88-07/90	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	NZ	06/87-07/87	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	NZ	08/88-07/90	M	Ch: >L-990 000				DOX-0115	
1.3 CAT	Petrol	40	NZ	08/90-12/91	M	Ch: M-000 001>				DOX-0115	
1.6	Petrol	53/55	EZ; RF	01/84-10/91				DOX-1006		DOX-0125	
1.8	Petrol	66	GU	08/84-10/91				DOX-1006		DOX-0125	
1.8	Petrol	66/79	GX; RD	08/84-10/91						DOX-0115	
1.8	Petrol	82	EV	01/84-07/88	M					DOX-0115	
1.8 16V	Petrol	95/102	KR; PL	08/86-10/91	M					DOX-0115	
1.8 CAT	Petrol	66	GX	08/87-10/91						DOX-0115	
1.8 CAT	Petrol	66	RP	08/87-10/91		+ Catalyst		DOX-1351		DOX-0115	
1.8 CAT	Petrol	79	PF	01/87-10/91				DOX-1311		DOX-0116	
1.8 Syncro	Petrol	72	1P	08/88-07/91	M			DOX-1311		DOX-0116	
JETTA (05-10)											
1.4 TSI	Petrol	118	CAVD	07/08-10/10					DOX-2041		DOX-0150
1.6	Petrol	75	BSE; BSF	10/05-10/10							DOX-0119
1.6 MultiFuel	Petrol/Ethanol	75	CCSA	01/08-10/10	M						DOX-0119
2.0 FSI	Petrol	110	BLR; BVY	08/05-06/08							DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	08/05-06/08			L	DOX-2041		DOX-0150	
2.0 TFSI	Petrol	147	BWA	10/05-10/10					DOX-2041		DOX-0150
2.0 TFSI	Petrol	147	CAWB	10/05-10/10						DOX-0150	DOX-0150
2.0 TFSI	Petrol	147	CCTA	10/05-10/10	A				DOX-2041		DOX-0150
JETTA (10-)											
2.0 TSI	Petrol	147	CBFA	12/10-							DOX-0150
LT 40-55 I (75-96)											
2.4	Petrol	70	1E	08/88-07/89	M			DOX-1311		DOX-0116	
LUPO (98-05)											
1.0	Petrol	37	AER	01/99-07/05	M			DOX-1573		DOX-0114	
1.0	Petrol	37	AHT	10/98-05/00	M			DOX-1552		DOX-0117	
1.0	Petrol	37	ALD	05/99-07/05	M			DOX-2008		DOX-0150	
1.0	Petrol	37	ALL	09/98-07/05	M			DOX-1551		DOX-0117	
1.0	Petrol	37	ANV; AUC	05/99-07/05	M				DOX-2038		DOX-0150
1.4	Petrol	44	AUD	10/00-07/05	M				DOX-2038		DOX-0150
1.4 16V	Petrol	55	AHW	01/99-07/05	A			DOX-1561		DOX-0117	
1.4 16V	Petrol	55	AHW	01/99-07/05	M			DOX-1551		DOX-0117	
1.4 16V	Petrol	55	AKQ	09/98-07/05				DOX-1552		DOX-0117	
1.4 16V	Petrol	55	APE; AUA; BBY	05/99-07/05					DOX-1562		DOX-0119
1.4 16V	Petrol	74	AFK	08/99-10/00	M			DOX-1551		DOX-0117	
1.4 16V	Petrol	74	AQQ; AUB	08/99-06/03	M				DOX-1562		DOX-0119
1.6 GTI	Petrol	92	AVY	09/00-07/05	M				DOX-2015		DOX-0150
MULTIVAN											
2.0	Petrol	85	AXA	11/03-11/09	M		R				DOX-0150
2.0	Petrol	85	AXA	09/09-	M				DOX-2041		DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
VW *continued*											
MULTIVAN *continued*											
3.2 V6	Petrol	170/173	BDL; BKK	02/04-11/09	A	Ch: 4-100 001>	L		DOX-2041		DOX-0150
3.2 V6	Petrol	170/173	BDL; BKK	02/04-11/09	A		L/R				DOX-0150
3.2 V6	Petrol	170/173	BDL; BKK	02/04-11/09	A	Ch: 4-100 001>	L/R				DOX-0150
3.2 V6	Petrol	173	BKK	01/05-11/09	A		L		DOX-2041		DOX-0150
3.2 V6 4motion	Petrol	173	BKK	07/04-11/09	M		L		DOX-2041		DOX-0150
3.2 V6 4motion	Petrol	173	BKK	07/04-11/09	M		L/R				DOX-0150
NEW BEETLE (98-11)											
1.4	Petrol	55	BCA	11/01-09/10	M				DOX-2008		DOX-0150
1.6	Petrol	74	AWH	10/99-09/00	M				DOX-2008		DOX-0150
1.6	Petrol	75	AYD; BFS	06/00-12/10					DOX-2000		DOX-0150
1.6	Petrol	75	BFS	01/03-09/10	M				DOX-2000		DOX-0150
1.8 T	Petrol	110	APH	10/99-06/00					DOX-2000		DOX-0150
1.8 T	Petrol	110	AVC	10/99-10/00	M				DOX-2000		DOX-0150
1.8 T	Petrol	110	AWU	10/00-09/10					DOX-2008		DOX-0150
1.8 T	Petrol	110	AWU	10/00-09/10					DOX-2027		DOX-0150
1.8 T	Petrol	110	AWU	10/00-09/10					DOX-2030		DOX-0150
1.8 T	Petrol	110	AWU	12/03-09/10	M				DOX-2018		DOX-0150
1.8 T	Petrol	110	AWV	06/00-06/04					DOX-2008		DOX-0150
1.8 T	Petrol	110	AWV	06/00-06/04					DOX-2030		DOX-0150
1.8 T	Petrol	110	BKF	07/04-06/05	A			DOX-2015	DOX-2015	DOX-0150	DOX-0150
1.8 T	Petrol	132	AWP	11/01-06/05	M				DOX-2008		DOX-0150
1.8 T	Petrol	132	AWP	11/01-06/05	M				DOX-2030		DOX-0150
2.0	Petrol	85	AEG; APK; AQY	01/98-06/05				DOX-2027	DOX-2015	DOX-0150	DOX-0150
2.0	Petrol	85	AZJ; BEJ; BEV	06/01-10/10					DOX-2015		DOX-0150
2.0	Petrol	85	BER; BHP	01/03-09/10				DOX-2012	DOX-2015	DOX-0150	DOX-0150
2.3 V5	Petrol	125	AQN	10/00-06/05	M				DOX-2008		DOX-0150
2.3 V5	Petrol	125	AQN	10/00-06/05	M				DOX-2023		DOX-0150
2.3 V5	Petrol	125	AQN	10/00-06/05	M				DOX-2030		DOX-0150
2.5	Petrol	110	BPR; BPS	07/05-09/10					DOX-2015		DOX-0150
RSI 3.2 4motion	Petrol	165	AXJ	10/00-05/01	M		L		DOX-2023		DOX-0150
RSI 3.2 4motion	Petrol	165	AXJ	10/00-05/01	M		L/R				DOX-0150
PASSAT (88-97)											
1.6	Petrol	53	1F	08/88-09/91				DOX-1006		DOX-0125	
1.6	Petrol	74	AEK; AFT	07/94-08/96						DOX-0118	
1.8	Petrol	55	AAM	08/90-07/91	M	Ch: >M-400 000		DOX-1006		DOX-0125	
1.8	Petrol	55	AAM	08/90-12/96	M	Ch: S-075 001>				DOX-0114	
1.8	Petrol	55	AAM	08/91-09/91	M	Ch: N-000 001>				DOX-0125	
1.8	Petrol	55	AAM	10/91-10/93	M					DOX-0125	
1.8	Petrol	55	AAM	10/93-05/97	M	Ch: >S-075 000				DOX-0125	
1.8	Petrol	66	ABS	08/88-09/94				DOX-1025		DOX-0116	
1.8	Petrol	66	ABS	08/90-09/94		+ Catalyst		DOX-1025		DOX-0116	
1.8	Petrol	66	ABS	08/90-09/94	M					DOX-0125	
1.8	Petrol	66	ADZ	10/94-12/96						DOX-0114	
1.8	Petrol	66	RP	02/88-07/90	M			DOX-1006		DOX-0125	
1.8	Petrol	66	RP	02/88-07/91		+ Catalyst		DOX-1351		DOX-0115	
1.8	Petrol	66	RP	08/88-07/90	A			DOX-1025		DOX-0116	
1.8	Petrol	79/82	PB; PF	04/88-07/90				DOX-1311		DOX-0116	
1.8 16V	Petrol	100	KR	04/88-12/89						DOX-0115	
1.8 G60 Syncro	Petrol	118	PG	09/89-10/93	M					DOX-0116	
1.8 G60 Syncro	Petrol	118	PG	09/89-10/93	M	+ Catalyst				DOX-0115	
2.0	Petrol	79/85	ADY; AEP; AGG	10/94-10/96		+ Catalyst				DOX-0118	
2.0	Petrol	85	2E	02/90-09/94				DOX-1025		DOX-0116	
2.0	Petrol	85	2E	02/90-09/94						DOX-0120	
2.0	Petrol	85	2E	02/90-09/94		+ Catalyst		DOX-1023		DOX-0115	
2.0	Petrol	85	2E	02/90-09/94		+ Catalyst		DOX-1025		DOX-0116	
2.0	Petrol	85	2E	02/90-09/94		+ Catalyst				DOX-0118	
2.0 16V	Petrol	100	9A	08/88-07/90		Ch: >L-400 000				DOX-0115	
2.0 16V	Petrol	100	9A	08/88-09/93				DOX-1025		DOX-0115	
2.0 16V	Petrol	100	9A	08/88-09/93						DOX-0116	
2.0 16V	Petrol	100	9A	08/90-08/91		Ch: M-000 001>		DOX-1025		DOX-0116	
2.0 16V	Petrol	110	ABF	01/94-05/97	M	Ch: >S-075 000		DOX-1172		DOX-0118	
2.0 Syncro	Petrol	85	2E	10/90-10/93	M	+ Catalyst				DOX-0115	
2.0 Syncro	Petrol	85	2E	10/90-09/94	M					DOX-0116	
2.0 Syncro	Petrol	85	2E	10/90-09/94	M					DOX-0120	
2.8 VR6	Petrol	128	AAA	06/91-10/93				DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	06/91-10/93				DOX-1172		DOX-0118	
2.8 VR6	Petrol	128	AAA	06/91-10/93				DOX-1173		DOX-0117	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VW *continued*											
PASSAT (88-97) *continued*											
2.8 VR6	Petrol	128	AAA	06/91-10/93				DOX-1363		DOX-0117	
2.8 VR6	Petrol	128	AAA	06/91-12/96		+ Catalyst				DOX-0118	
2.8 VR6	Petrol	128	AAA	06/91-12/96		Ch: T-000 210>		DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	10/93-05/97		Ch: >S-086 000		DOX-1172		DOX-0118	
2.9 VR6 Syncro	Petrol	135	ABV	07/95-05/97	M	Ch: T-000 001>		DOX-1363		DOX-0117	
PASSAT (96-00)											
1.6	Petrol	74	ADP; AHL; ARM	06/97-11/00				DOX-1362		DOX-0117	
1.6	Petrol	74	ANA	07/99-11/00				DOX-1589	DOX-1566	DOX-0121	DOX-0119
1.8	Petrol	85/92	ADR; AFY	06/97-12/98		Ch: >X-360 000		DOX-1362		DOX-0117	
1.8	Petrol	85/92	ADR; AFY	12/98-04/00		Ch: X-360 001>		DOX-2012		DOX-0150	
1.8	Petrol	92	APT; ARG	01/99-11/00				DOX-2012		DOX-0150	
1.8 Syncro/4motion	Petrol	92	ADR; APT; ARG	06/97-11/00	M			DOX-2012		DOX-0150	
1.8 T	Petrol	110	AEB	06/97-08/98	M			DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	06/97-12/98		Ch: >X-360 000		DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	12/98-12/98		Ch: X-360 001>		DOX-2012		DOX-0150	
1.8 T	Petrol	110	ANB	01/99-11/00				DOX-2012	DOX-2008	DOX-0150	DOX-0150
1.8 T	Petrol	110	APU	01/99-11/00				DOX-2012		DOX-0150	
2.3 VR5	Petrol	110	AGZ	06/97-11/00				DOX-1173		DOX-0117	
2.3 VR5 Syncro/4motion	Petrol	110	AGZ	10/97-11/00	M			DOX-1173		DOX-0117	
2.8 V6	Petrol	132/142	ACK; AGE; AQD	06/97-11/00			L/R			DOX-0114	
2.8 V6	Petrol	142	APR	01/99-11/00			L/R	DOX-2010		DOX-0150	
2.8 V6 Syncro/4motion	Petrol	142	ACK; ALG	06/97-12/98			L/R			DOX-0114	
2.8 V6 Syncro/4motion	Petrol	142	APR; AQD	01/99-11/00			L/R	DOX-2010		DOX-0150	
2.8 V6 Syncro/4motion	Petrol	142	APR; AQD	01/99-11/00			L/R	DOX-2035		DOX-0150	
PASSAT (96-01)											
1.6	Petrol	74	ADP; AHL; ARM	10/96-11/00				DOX-1362		DOX-0117	
1.6	Petrol	74	ANA	10/96-11/00				DOX-1589	DOX-1566	DOX-0121	DOX-0119
1.8	Petrol	85/92	ADR; AFY	10/96-12/98		Ch: >X-360 000		DOX-1362		DOX-0117	
1.8	Petrol	85/92	ADR; AFY	12/98-04/00		Ch: X-360 001>		DOX-2012		DOX-0150	
1.8	Petrol	92	APT; ARG	01/99-11/00				DOX-2012		DOX-0150	
1.8 Syncro/4motion	Petrol	92	ADR; APT; ARG	06/97-11/00	M			DOX-2012		DOX-0150	
1.8 T	Petrol	110	AEB	10/96-08/98	M			DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	10/96-12/98		Ch: >X-360 000		DOX-1173		DOX-0117	
1.8 T	Petrol	110	AEB	12/98-12/98		Ch: X-360 001>		DOX-2012		DOX-0150	
1.8 T	Petrol	110	ANB	01/99-11/00				DOX-2012	DOX-2008	DOX-0150	DOX-0150
1.8 T	Petrol	110	APU	01/99-11/00				DOX-2012		DOX-0150	
2.3 VR5	Petrol	110	AGZ	09/97-11/00				DOX-1173		DOX-0117	
2.3 VR5 Syncro/4motion	Petrol	110	AGZ	10/97-11/00	M			DOX-1173		DOX-0117	
2.8 V6	Petrol	132/142	ACK; AGE; AQD	05/97-11/00			L/R			DOX-0114	
2.8 V6	Petrol	142	APR	01/99-11/00			L/R	DOX-2010		DOX-0150	
2.8 V6 Syncro/4motion	Petrol	142	ACK; ALG	05/97-12/98			L/R			DOX-0114	
2.8 V6 Syncro/4motion	Petrol	142	APR; AQD	01/99-11/00			L/R	DOX-2010		DOX-0150	
2.8 V6 Syncro/4motion	Petrol	142	APR; AQD	01/99-11/00			L/R	DOX-2035		DOX-0150	
PASSAT (00-05)											
1.6	Petrol	75	ALZ	11/00-05/05	M			DOX-1589	DOX-1566	DOX-0121	DOX-0119
1.8 T	Petrol	125	AWM	02/01-08/05	A				DOX-2008		DOX-0150
1.8 T 20V	Petrol	110	AWT	11/00-05/05					DOX-2008		DOX-0150
2.0	Petrol	85	AZM	11/00-05/05				DOX-1589	DOX-1566	DOX-0121	DOX-0119
2.0	Petrol	96	ALT	11/01-05/05					DOX-2008		DOX-0150
2.0 4motion	Petrol	85	AZM	11/00-05/05	M			DOX-1589	DOX-1566	DOX-0121	DOX-0119
2.3 V5	Petrol	125	AZX	11/00-05/05		Ch: >2-500 000			DOX-2012		DOX-0150
2.3 V5	Petrol	125	AZX	05/02-05/05		Ch: 3-000 001>			DOX-2038		DOX-0150
2.3 V5 4motion	Petrol	125	AZX	11/00-05/05	M	Ch: >2-500 000			DOX-2012		DOX-0150
2.3 V5 4motion	Petrol	125	AZX	11/00-05/05	M	Ch: 3-000 001>			DOX-2038		DOX-0150
2.3 VR5	Petrol	125	AZX	11/00-05/05		Ch: >2-500 000			DOX-2012		DOX-0150
2.3 VR5	Petrol	125	AZX	05/02-05/05		Ch: 3-000 001>			DOX-2038		DOX-0150
2.3 VR5 4motion	Petrol	125	AZX	11/00-05/05	M	Ch: >2-500 000			DOX-2012		DOX-0150
2.3 VR5 4motion	Petrol	125	AZX	11/00-05/05	M	Ch: 3-000 001>			DOX-2038		DOX-0150
2.8 4motion	Petrol	142	AMX; ATQ	11/00-05/05			L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
2.8 4motion	Petrol	142	ATQ	11/00-05/05	A		L/R	DOX-2010	DOX-2035	DOX-0150	DOX-0150
4.0 W8 4motion	Petrol	202	BDN	09/01-09/04			L/R		DOX-2018		DOX-0150
4.0 W8 4motion	Petrol	202	BDN	09/01-09/04		Ch: >2-500 000	L/R		DOX-2018		DOX-0150

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
VW *continued*											
PASSAT (00-05) *continued*											
4.0 W8 4motion	Petrol	202	BDN	09/01-09/04		Ch: 3-000 001>	L/R				DOX-0150
4.0 W8 4motion	Petrol	202	BDN; BDP	09/01-09/04	A	Ch: 3-000 001>	L		DOX-2023		DOX-0150
4.0 W8 4motion	Petrol	202	BDN; BDP	09/01-09/04	A		L		DOX-2023		DOX-0150
4.0 W8 4motion	Petrol	202	BDP	09/01-09/04	A		L/R		DOX-2018		DOX-0150
4.0 W8 4motion	Petrol	202	BDP	09/01-09/04	A	Ch: >2-500 000	L/R		DOX-2018		DOX-0150
4.0 W8 4motion	Petrol	202	BDP	09/01-09/04	A	Ch: 3-000 001>	L/R				DOX-0150
PASSAT (05-10)											
1.4 TSI EcoFuel	Bi-Fuel	110	CDGA	01/09-11/10					DOX-2041		DOX-0150
1.6 FSI	Petrol	85	BLF	03/05-05/07					DOX-2041		DOX-0150
1.8 TSI	Petrol	112/118	CDAA; CDAB	11/09-11/10					DOX-2041		DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	03/05-11/10							DOX-0150
2.0 FSI	Petrol	110	BLR; BVY	03/05-11/10			L	DOX-2041		DOX-0150	
2.0 FSI	Petrol	125/147	CCTA; CCTB	12/07-11/10	A				DOX-2041		DOX-0150
2.0 FSI	Petrol	147	AXX; BWA; CCZA	07/05-07/10					DOX-2041		DOX-0150
2.0 FSI 4motion	Petrol	110	BLX; BVX	09/05-05/07	M		L	DOX-2041		DOX-0150	
2.0 FSI 4motion	Petrol	110	BLX; BVX	09/05-05/07	M		L/R			DOX-0150	DOX-0150
3.2 FSI 4motion	Petrol	184	AXZ	11/05-11/10	A		L		DOX-2036		DOX-0150
3.2 FSI 4motion	Petrol	184	AXZ	11/05-11/10	A		R		DOX-2041		DOX-0150
3.6 R36 4motion	Petrol	220	BWS	04/07-11/10	M		L		DOX-2036		DOX-0150
3.6 R36 4motion	Petrol	220	BWS	04/07-11/10	M		R		DOX-2041		DOX-0150
PASSAT (09-)											
1.4 TSI	Petrol	90	CAXA	08/10-							DOX-0150
1.4 TSI EcoFuel	Bi-Fuel	110	CDGA	08/10-							DOX-0150
1.4 TSI EcoFuel	Petrol/Natural Gas (CNG)	110	CDGA	08/10-							DOX-0150
1.4 TSI MultiFuel	Petrol/Ethanol	118	CKMA	11/10-					DOX-2041		DOX-0150
1.8 TSI	Petrol	118	CDAA	08/10-							DOX-0150
2.0 TSI	Petrol	155	CCZB	11/10-							DOX-0150
3.6 FSI 4motion	Petrol	220	BWS	01/11-05/11	A		L		DOX-2036		DOX-0150
3.6 FSI 4motion	Petrol	220	BWS	01/11-05/11	A		R		DOX-2041		DOX-0150
PASSAT CC (08-)											
1.4 TSI MultiFuel	Petrol/Ethanol	118	CKMA	01/11-					DOX-2041		DOX-0150
1.8 TSI	Petrol	112/118	BZB; CGY	06/08-11/10							DOX-0150
1.8 TSI	Petrol	112/118	CDAA; CDAB	11/08-11/10					DOX-2041		DOX-0150
2.0 TSI	Petrol	147	CAWB	06/08-12/10							DOX-0150
2.0 TSI	Petrol	147/155	CCZA; CCZB	11/09-					DOX-2041		DOX-0150
3.6 FSI 4motion	Petrol	220	BWS	06/08-05/10	A		L		DOX-2036		DOX-0150
3.6 FSI 4motion	Petrol	220	BWS	06/08-05/10	A		R		DOX-2041		DOX-0150
PHAETON											
3.2 V6	Petrol	177	AYT; BKL	04/02-05/07			R		DOX-2018		DOX-0150
3.2 V6	Petrol	177	BRK	05/04-05/07	A		R		DOX-2018		DOX-0150
3.2 V6 4motion	Petrol	177	BKL; BRK	02/04-05/10	A		R		DOX-2018		DOX-0150
4.2 V8 4motion	Petrol	246	BGH; BGJ	05/03-05/10	A		L		DOX-2008		DOX-0150
4.2 V8 4motion	Petrol	246	BGH; BGJ	05/03-05/10	A		L		DOX-2030		DOX-0150
4.2 V8 4motion	Petrol	246	BGH; BGJ	05/03-05/10	A		R		DOX-2027		DOX-0150
6.0 W12 4motion	Petrol	309	BAN	04/02-05/02	A	Ch: >3-000 735	L/R		DOX-2023		DOX-0150
6.0 W12 4motion	Petrol	309	BAN	04/02-05/05	A		L/R	DOX-2018	DOX-2018	DOX-0150	DOX-0150
6.0 W12 4motion	Petrol	309	BAN	04/02-05/05	A		L/R	DOX-2023	DOX-2023	DOX-0150	DOX-0150
6.0 W12 4motion	Petrol	309	BAN	04/02-05/05	A	Ch: 3-000 736>	L/R		DOX-2018		DOX-0150
6.0 W12 4motion	Petrol	309	BAN	04/02-05/05	A		R	DOX-2008	DOX-2008	DOX-0150	DOX-0150
6.0 W12 4motion	Petrol	309	BAN	04/02-05/05	A		R	DOX-2038		DOX-0150	
6.0 W12 4motion	Petrol	331	BRN; BTT	05/05-05/10	A		L		DOX-2018		DOX-0150
6.0 W12 4motion	Petrol	331	BRN; BTT	05/05-05/10	A		R		DOX-2008		DOX-0150
6.0 W12 4motion	Petrol	331	BRN; BTT	05/05-05/10	A		L/R		DOX-2023		DOX-0150
POLO (81-94)											
1.0	Petrol	33	AAU	10/90-09/94	M					DOX-0115	
1.0 CAT	Petrol	33	AAK; AAU	08/89-09/94	M					DOX-0115	
1.3	Petrol	40	MH	08/86-07/88	M			DOX-1311		DOX-0116	
1.3	Petrol	40	NZ	08/86-07/87	M			DOX-1311		DOX-0116	
1.3	Petrol	40	NZ	08/86-09/87	M	Ch: >J-060 000		DOX-1311		DOX-0116	
1.3	Petrol	40	NZ	09/87-07/88	M	Ch: J-060 001>				DOX-0115	
1.3	Petrol	57	3F	03/91-09/94	M					DOX-0115	
1.3 CAT	Petrol	40	2G; MH	07/87-10/90	M			DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	AAV	01/91-09/94						DOX-0115	
1.3 CAT	Petrol	40	MH	07/87-10/90				DOX-1311		DOX-0116	

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VW *continued*											
POLO (81-94) *continued*											
1.3 CAT	Petrol	40	NZ	07/87-09/87		Ch: >J-060 000		DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	NZ	07/87-09/87	M	Ch: >J-060 000		DOX-1311		DOX-0116	
1.3 CAT	Petrol	40	NZ	07/87-10/90	M	Ch: J-060 001>				DOX-0115	
1.3 CAT	Petrol	40	NZ	07/87-09/94		Ch: J-060 001>				DOX-0115	
1.3 CAT	Petrol	40	NZ	10/90-08/94	M					DOX-0115	
1.3 CAT	Petrol	40/55	3F; AAV	10/89-09/94	M					DOX-0115	
1.3 G40	Petrol	83	PY	08/90-09/94	M					DOX-0115	
1.3 G40	Petrol	85	PY	01/87-08/90	M			DOX-1311		DOX-0116	
POLO (95-02)											
54 1.4	Petrol	40	ANX	01/98-08/99	M	Ch: >X-541 000		DOX-1171		DOX-0117	
54 1.4	Petrol	40	ANX	09/98-08/99	M	Ch: X-541 001>		DOX-1551		DOX-0117	
60 1.4	Petrol	44	AEX	05/96-09/01	M	Ch: >W-000 001				DOX-0114	
60 1.4	Petrol	44	AEX	05/97-09/01	M	Ch: W-000 001>		DOX-1171		DOX-0117	
60 1.4	Petrol	44	AKK	10/99-09/01	M			DOX-2015		DOX-0150	
60 1.4	Petrol	44	AKV; APQ	12/97-09/98	M	Ch: >X-541 000		DOX-1171		DOX-0117	
60 1.4	Petrol	44	AKV; APQ	09/98-09/01	M	Ch: X-541 001>		DOX-1551		DOX-0117	
60 1.4	Petrol	44	ANW	10/99-09/01	M				DOX-2023		DOX-0150
60 1.4	Petrol	44	AUD	06/00-10/00	M	Ch: >1-526 500			DOX-2023		DOX-0150
60 1.4	Petrol	44	AUD	10/00-09/01	M	Ch: 1-526 501>			DOX-2015		DOX-0150
75 1.4 16V	Petrol	55	APE; AUA	10/99-09/01	M				DOX-1567		DOX-0119
75 1.6	Petrol	55	1F	05/96-09/97	M					DOX-0114	
75 1.6	Petrol	55	AEE; ALM	09/97-09/01	M			DOX-1171		DOX-0117	
90 1.8	Petrol	66	ABS; ADD; ADZ	03/98-09/01	M			DOX-1171		DOX-0117	
90 1.8	Petrol	66	ABS; ADD; ADZ	03/98-09/01	M			DOX-1172		DOX-0118	
90 1.8	Petrol	66	ABS; ADD; ADZ	03/98-09/01	M			DOX-1173		DOX-0117	
90 1.8	Petrol	66	ABS; ADD; ADZ	03/98-09/01	M			DOX-1363		DOX-0117	
100 1.6	Petrol	74	AEH	10/99-09/01	A			DOX-2015		DOX-0150	
100 1.6	Petrol	74	AFT	05/96-09/01		+ Catalyst				DOX-0118	
100 1.6	Petrol	74	AKL	10/99-09/01	M			DOX-2015		DOX-0150	
100 1.6	Petrol	74	APF; AUR	03/00-09/01	M				DOX-2023		DOX-0150
POLO (95-05)											
1.4	Petrol	55	BBY	07/03-06/05					DOX-1560		DOX-0119
1.4	Petrol	74	BBZ	11/03-	M				DOX-1560		DOX-0119
1.6	Petrol	74	BAH	09/02-06/05	M			DOX-2008		DOX-0150	
1.6	Petrol	74	BAH	09/02-06/05	M			DOX-2015		DOX-0150	
1.6	Petrol	74	BAH	09/02-06/05	M			DOX-2041		DOX-0150	
45 1.0	Petrol	33	AEV	10/94-09/96	M			DOX-1362		DOX-0117	
50 1.0	Petrol	37	AER	09/96-04/97	M	Ch: >V-350 000				DOX-0114	
50 1.0	Petrol	37	AER	05/97-10/99	M	Ch: W-000 001>		DOX-1573		DOX-0114	
50 1.0	Petrol	37	ALL	08/97-05/99	M			DOX-1551		DOX-0117	
55 1.3	Petrol	40	ADX	10/94-07/95	M					DOX-0117	
55 1.3	Petrol	40	ADX	10/94-07/95	M	- Catalyst		DOX-1363		DOX-0117	
55 1.3	Petrol	40	ADX	10/94-07/95	M	+ Catalyst		DOX-1362		DOX-0117	
55 1.4	Petrol	40	AEX	01/98-10/99				DOX-1551		DOX-0117	
60 1.4	Petrol	44	AEX	07/95-04/96		Ch: >T-250 000		DOX-1362		DOX-0117	
60 1.4	Petrol	44	AEX	07/95-04/97		Ch: >V-350 000		DOX-1362		DOX-0117	
60 1.4	Petrol	44	AEX	05/96-04/97		Ch: V-000 001>V-350 000				DOX-0117	
60 1.4	Petrol	44	AEX	05/96-04/97	M	Ch: V-000 001>V-350 000		DOX-1171		DOX-0117	
60 1.4	Petrol	44	AEX	05/97-12/97		Ch: W-000 001>		DOX-1551		DOX-0117	
60 1.4	Petrol	44	AKV; APQ	05/97-10/99				DOX-1551		DOX-0117	
75 1.6	Petrol	55	AEA	10/94-07/95	M			DOX-1362		DOX-0117	
75 1.6	Petrol	55	AEE	07/95-04/97		Ch: >V-350 000		DOX-1362		DOX-0117	
75 1.6	Petrol	55	AEE	05/97-10/99		Ch: W-000 001>		DOX-1552		DOX-0117	
75 1.6	Petrol	55	AHS	03/96-04/97	A	Ch: >V-350 000		DOX-1362		DOX-0117	
75 1.6	Petrol	55	AHS	05/97-10/99	A	Ch: W-000 001>		DOX-1552		DOX-0117	
100 1.4 16V	Petrol	74	AFH	04/96-04/97	M	Ch: >V-350 000		DOX-1362		DOX-0117	
100 1.4 16V	Petrol	74	AFH	04/97-11/98	M	Ch: V-350 001>X-068 038		DOX-1552		DOX-0117	
100 1.4 16V	Petrol	74	AFH	11/98-10/99	M	Ch: X-068 039>		DOX-1551		DOX-0117	
120 1.6 16V GTI	Petrol	88	AJV	09/98-10/99	M			DOX-1551		DOX-0117	
POLO (97-01)											
1.0	Petrol	37	ALD	10/99-09/01	M			DOX-2008		DOX-0150	
1.0	Petrol	37	AUC	10/99-09/01	M				DOX-2038		DOX-0150
1.4	Petrol	40	AKP	12/98-08/99	M	Ch: X-541 001>		DOX-1551		DOX-0117	
1.4	Petrol	40	AKP	10/99-09/01	M				DOX-2038		DOX-0150
1.4	Petrol	44	AEX	05/97-09/01	M			DOX-1171		DOX-0117	
1.4	Petrol	44	AKK	10/99-09/01				DOX-2008		DOX-0150	

		KW					L/R	Direct Fit		Universal	
								Before	After	Before	After
VW *continued*											
POLO (97-01) *continued*											
1.4	Petrol	44	AKK	10/99-09/01	M			DOX-2015		DOX-0150	
1.4	Petrol	44	AKV; APQ	12/97-09/01	M	Ch: >X-541 000		DOX-1171		DOX-0117	
1.4	Petrol	44	AKV; APQ	09/98-09/01	M	Ch: X-541 001>		DOX-1551		DOX-0117	
1.4	Petrol	44	ANW	10/99-09/01	M				DOX-2023		DOX-0150
1.4	Petrol	44	APQ	12/97-09/01	M			DOX-1171		DOX-0117	
1.4	Petrol	44	AUD	10/99-09/01	M				DOX-2038		DOX-0150
1.4 16V	Petrol	55	AHW	10/99-09/01				DOX-1552		DOX-0117	
1.4 16V	Petrol	55	APE	10/99-09/01	M				DOX-1567		DOX-0119
1.4 16V	Petrol	55	AUA	10/99-09/01					DOX-1562		DOX-0119
1.4 16V	Petrol	55	AUA	06/00-09/01	M				DOX-1567		DOX-0119
1.4 16V	Petrol	74	AFK	10/99-09/01	M			DOX-1552		DOX-0117	
1.4 16V	Petrol	74	AUB	10/99-09/01	M				DOX-1562		DOX-0119
1.6	Petrol	55	AEE; ALM	09/97-09/01	M			DOX-1171		DOX-0117	
1.6	Petrol	74	AEH	10/99-09/01	A			DOX-2015		DOX-0150	
1.6	Petrol	74	AFT	05/97-09/01						DOX-0118	
1.6	Petrol	74	AKL	10/99-09/01	M			DOX-2015		DOX-0150	
1.6	Petrol	74	APF; AUR	03/00-09/01	M				DOX-2023		DOX-0150
1.6 16V GTI	Petrol	92	ARC; AVY	10/99-09/01	M				DOX-2038		DOX-0150
POLO (01-09)											
1.2	Petrol	40	AWY; BMD	01/02-05/07	M			DOX-1588	DOX-1565	DOX-0121	DOX-0119
1.2 12V	Petrol	47	AZQ	10/01-07/07	M				DOX-1559		DOX-0119
1.2 12V	Petrol	47	BME	10/01-07/07	M				DOX-1559	DOX-0121	DOX-0119
1.4 16V	Petrol	55	BBY; BKY	10/01-07/07					DOX-1560		DOX-0119
1.4 16V	Petrol	55/74	AUA; AUB; BBZ	10/01-05/07	M				DOX-1560		DOX-0119
1.4 16V	Petrol	59	BUD	05/06-11/09	M				DOX-1560	DOX-0119	DOX-0119
1.6 16V	Petrol	77	BTS	05/06-11/09						DOX-0119	
1.8 GTI	Petrol	110	BJX	09/05-11/09	M				DOX-2008		DOX-0150
1.8 GTi Cup Edition	Petrol	132	BBU	05/06-11/09	M				DOX-2008		DOX-0150
POLO (09-)											
1.2	Petrol	44	CGPB	06/09-	M			DOX-1588	DOX-1559	DOX-0121	DOX-0119
1.2	Petrol	51	CGPA	06/09-	M				DOX-1559		DOX-0119
1.4	Petrol	63	CGGB	06/09-					DOX-1560		DOX-0119
1.4 GTI	Petrol	132	CAVE	05/10-	A				DOX-2041		DOX-0150
1.6 BiFuel	Petrol/Petroleum Gas (LPG)	60	CNKA	01/11-	M					DOX-0119	
SCIROCCO (80-92)											
1.8	Petrol	70	JH	11/85-07/86	M			DOX-1006		DOX-0125	
1.8 16V	Petrol	95	PL	03/86-07/90	M					DOX-0115	
SCIROCCO (08-)											
1.4 TSI	Petrol	118	CAVD	05/08-					DOX-2041		DOX-0150
1.4 TSI	Petrol	90	CAXA	08/08-	M				DOX-2041		DOX-0150
1.4 TSI	Petrol	90	CMSB	05/11-	A				DOX-2041		DOX-0150
2.0 R	Petrol	188/195	CDLA; CDLC	11/09-	M				DOX-2041		DOX-0150
2.0 TSI	Petrol	155	CCZB	11/09-05/11					DOX-2041		DOX-0150
SHARAN (95-)											
1.8 T 20V	Petrol	110	AJH	09/97-03/10				DOX-1552		DOX-0117	
1.8 T 20V	Petrol	110	AWC	04/00-03/10					DOX-2027		DOX-0150
2.0	Petrol	85	ADY	09/95-03/96		Ch: >T-036 895				DOX-0118	
2.0	Petrol	85	ATM	04/00-11/08					DOX-2027		DOX-0150
2.8 V6 24V	Petrol	150	AYL	04/00-03/10					DOX-2038		DOX-0150
2.8 V6 24V	Petrol	150	AYL	04/00-03/10					DOX-2047		DOX-0150
2.8 V6 24V 4motion	Petrol	150	AYL	04/00-11/08	M				DOX-2038		DOX-0150
2.8 V6 24V 4motion	Petrol	150	AYL	04/00-11/08	M				DOX-2047		DOX-0150
2.8 VR6	Petrol	128	AAA	09/95-11/95		Ch: >T-021 998		DOX-1363		DOX-0117	
2.8 VR6	Petrol	128	AAA	09/95-01/98		Ch: T-021 999>W-050 000		DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	07/96-04/97	A			DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	08/97-01/98		Ch: >W-050 000		DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	01/98-03/98		Ch: W-050 001>		DOX-2010		DOX-0150	
2.8 VR6	Petrol	128	AMY	04/98-04/00				DOX-2010		DOX-0150	
2.8 VR6 Syncro	Petrol	128	AAA	11/96-01/98	A	Ch: >W-050 000		DOX-1171		DOX-0117	
2.8 VR6 Syncro	Petrol	128	AAA	11/96-03/98	A	Ch: W-050 001>		DOX-2010		DOX-0150	
2.8 VR6 Syncro	Petrol	128	AMY	04/98-04/00	A			DOX-2010		DOX-0150	
SHARAN (10-)											
1.4 TSI	Petrol	110	CAVA	05/10-					DOX-2041		DOX-0150
2.0 TSI	Petrol	147	CCZA	12/10-	A						DOX-0150

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		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VW *continued*											
TIGUAN											
1.4 TSI	Petrol	110	CAVA	05/08-					DOX-2041		DOX-0150
1.4 TSI	Petrol	90/118	CAVD; CAXA	08/10-	M				DOX-2041		DOX-0150
1.4 TSI 4motion	Petrol	110/118	CAVA; CAVD	05/11-	M				DOX-2041		DOX-0150
2.0 TFSI 4motion	Petrol	125/147	CAWA; CAWB	09/07-						DOX-0150	
2.0 TFSI 4motion	Petrol	125/147	CCZA; CCZC	11/09-05/11					DOX-2041		DOX-0150
2.0 TSI 4motion	Petrol	132/155	CCZB; CCZD	05/11-					DOX-2041		DOX-0150
TOUAREG (02-10)											
3.2 V6	Petrol	162	AZZ; BKJ; BMV	10/02-11/06			L		DOX-2038		DOX-0150
3.2 V6	Petrol	162	AZZ; BKJ; BMV	10/02-11/06			R		DOX-2000		DOX-0150
3.2 V6	Petrol	162	BAA; BRJ	08/03-11/06	A		L		DOX-2038		DOX-0150
3.2 V6	Petrol	162	BAA; BRJ	08/03-11/06	A		R		DOX-2000		DOX-0150
3.6 V6 FSI	Petrol	206	BHK	10/05-05/10			L		DOX-2036		DOX-0150
3.6 V6 FSI	Petrol	206	BHK	10/05-05/10			R		DOX-2016		DOX-0150
4.2 V8	Petrol	228	AXQ; BHX	12/02-11/06	A		L/R	DOX-2023	DOX-2023	DOX-0150	DOX-0150
4.2 V8	Petrol	228	AXQ; BHX	12/02-11/06	A		R	DOX-2012	DOX-2012	DOX-0150	DOX-0150
4.2 V8	Petrol	228	AXQ; BHX	12/02-11/06	A		R	DOX-2018		DOX-0150	
4.2 V8 FSI	Petrol	257	BAR	12/06-05/10	A		L/R				DOX-0150
6.0 W12	Petrol	331	BJN	08/04-05/05	A		L/R				DOX-0150
6.0 W12	Petrol	331	BJN	08/04-05/05	A	Ch: >5-090 000	L/R				DOX-0150
6.0 W12	Petrol	331	BJN	08/04-05/05	A		R		DOX-2023		DOX-0150
6.0 W12	Petrol	331	BJN	08/04-05/05	A		R		DOX-2038		DOX-0150
6.0 W12	Petrol	331	BJN	08/04-05/05	A	Ch: >5-090 000	R		DOX-2023		DOX-0150
6.0 W12	Petrol	331	BJN	08/04-05/05	A	Ch: >5-090 000	R		DOX-2038		DOX-0150
TOUAREG (10-)											
3.0 V6 TSI Hybrid	Petrol	245	CGEA	04/10-	A		L/R				DOX-0150
3.0 V6 TSI Hybrid	Petrol	245	CGEA	04/10-	A		R		DOX-2041		DOX-0150
3.6 V6 FSI	Petrol	183	CMTA	08/10-	A						DOX-0150
3.6 V6 FSI	Petrol	206	CGRA	04/10-	A		L/R				DOX-0150
3.6 V6 FSI	Petrol	206	CGRA	04/10-	A		R		DOX-2041		DOX-0150
TOURAN											
1.4 FSI	Petrol	125	CAVB	11/08-05/10	A				DOX-2041		DOX-0150
1.4 TSI	Petrol	103	BMY; CAVC	02/06-05/10					DOX-2041		DOX-0150
1.4 TSI EcoFuel	Natural Gas	110	CDGA	05/09-05/10					DOX-2041		DOX-0150
1.6	Petrol	75	BGU; BSE; BSF	07/03-05/10	M						DOX-0119
1.6 FSI	Petrol	85	BLF	02/03-01/07					DOX-2016		DOX-0150
1.6 TDI	Diesel	66	CAYB	05/10-	M				DOX-2041		DOX-0150
2.0 EcoFuel	Natural Gas	80	BSX	02/06-05/09	M				DOX-2041		DOX-0150
2.0 FSI	Petrol	110	AXW; BLX	10/03-11/05			L	DOX-2041		DOX-0150	
2.0 FSI	Petrol	110	AXW; BLX	10/03-11/05			L/R			DOX-0150	DOX-0150
2.0 FSI	Petrol	110	BLR	02/05-11/05	A		L	DOX-2041		DOX-0150	
2.0 FSI	Petrol	110	BLR	02/05-11/05	A		L/R			DOX-0150	DOX-0150
2.0 FSI	Petrol	110	BVY	11/05-11/05			L/R				DOX-0150
TRANSPORTER IV (90-03)											
2.0	Petrol	62	AAC	07/90-12/95				DOX-1023		DOX-0116	
2.0	Petrol	62	AAC	01/96-04/03	M					DOX-0115	
2.0	Petrol	62	AAC	01/96-04/03	M	+ Catalyst				DOX-0118	
2.5	Petrol	81	AAF	11/90-12/93				DOX-1023		DOX-0116	
2.5	Petrol	81	ACU	02/94-04/03				DOX-1023		DOX-0115	
2.5	Petrol	81	ACU	02/94-04/03						DOX-0116	
2.5	Petrol	81	ACU	01/96-04/03		+ Catalyst				DOX-0118	
2.5	Petrol	81	AEU	05/97-04/03						DOX-0118	
2.5	Petrol	85	APL; AVT	05/99-04/03					DOX-2012		DOX-0150
2.5 Syncro	Petrol	81	AAF	10/92-12/93	M			DOX-1023		DOX-0116	
2.5 Syncro	Petrol	81	ACU	01/94-07/94	M			DOX-1023		DOX-0116	
2.5 Syncro	Petrol	81	ACU	01/94-12/95	M	Ch: >T-199 999		DOX-1023		DOX-0116	
2.5 Syncro	Petrol	81	ACU	01/96-05/96	M	Ch: T-200 000>				DOX-0115	
2.5 Syncro	Petrol	81	ACU	05/96-10/96						DOX-0115	
2.5 Syncro	Petrol	81	AEU	06/97-04/03						DOX-0118	
2.5 Syncro	Petrol	85	APL; AVT	05/97-04/03					DOX-2012		DOX-0150
2.8 VR 6	Petrol	103	AES	11/95-05/00				DOX-1171	DOX-1173	DOX-0117	DOX-0117
2.8 VR6	Petrol	150	AMV	04/00-04/03	A				DOX-2012		DOX-0150
TRANSPORTER V (03-)											
2.0	Petrol	85	AXA	11/03-11/09	M		R				DOX-0150
2.0	Petrol	85	AXA	09/09-	M				DOX-2041		DOX-0150
3.2 4motion	Petrol	173	BKK	07/04-11/09	M		L		DOX-2041		DOX-0150
3.2 4motion	Petrol	173	BKK	07/04-11/09	M		L/R				DOX-0150

		KW					L/R	Direct Fit Before	Direct Fit After	Universal Before	Universal After
VW *continued*											
TRANSPORTER V (03-) *continued*											
3.2 V6	Petrol	170	BDL	02/04-11/09	A	Ch: 4-045 001>	L		DOX-2041		DOX-0150
3.2 V6	Petrol	170	BDL	02/04-11/09	A	Ch: 4-045 001>	L/R				DOX-0150
3.2 V6	Petrol	170/173	BDL; BKK	04/03-11/09	A	Ch: 4-100 001>	L		DOX-2041		DOX-0150
3.2 V6	Petrol	170/173	BDL; BKK	04/03-11/09	A		L/R				DOX-0150
3.2 V6	Petrol	170/173	BDL; BKK	04/03-11/09	A	Ch: 4-100 001>	L/R				DOX-0150
3.2 V6	Petrol	173	BKK	07/04-11/09	A		L		DOX-2041		DOX-0150
3.2 V6 4motion	Petrol	173	BKK	07/04-11/09	M		L		DOX-2041		DOX-0150
3.2 V6 4motion	Petrol	173	BKK	07/04-11/09	M		L/R				DOX-0150
VENTO											
1.4	Petrol	44	ABD	11/91-07/94	M			DOX-1172		DOX-0118	
1.4	Petrol	44	ABD	11/91-09/94	M	Ch: >S-120 000		DOX-1172		DOX-0118	
1.4	Petrol	44	ABD	09/94-07/95	M	Ch: S-120 001>		DOX-1171		DOX-0117	
1.4	Petrol	44	AEX	07/95-12/97	M			DOX-1171		DOX-0117	
1.4	Petrol	44	AEX	07/95-12/97	M			DOX-1363		DOX-0117	
1.6	Petrol	55	ABU	09/92-09/94	M			DOX-1172		DOX-0118	
1.6	Petrol	55	AEA; AEE	10/94-12/97	M			DOX-1171		DOX-0117	
1.6	Petrol	74	AEK; AFT	10/94-12/97						DOX-0118	
1.6	Petrol	74	AKS	05/97-12/97	M					DOX-0118	
1.8	Petrol	55	AAM	11/91-12/97				DOX-1025		DOX-0114	
1.8	Petrol	55	AAM	11/91-12/97						DOX-0116	
1.8	Petrol	55/66	AAM; ABS	11/91-07/93		+ Catalyst		DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	11/91-07/93	M					DOX-0125	
1.8	Petrol	55/66	AAM; ABS	11/91-09/94		Ch: >S-120 000		DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	11/91-09/94		Ch: >S-120 000, + Catalyst		DOX-1025		DOX-0116	
1.8	Petrol	55/66	AAM; ABS	11/91-09/94	M	Ch: >S-120 000				DOX-0125	
1.8	Petrol	55/66	AAM; ABS	09/94-12/97		Ch: S-120 001>				DOX-0114	
1.8	Petrol	66	ADZ	09/94-12/97						DOX-0114	
2.0	Petrol	85	2E	11/91-07/95				DOX-1171		DOX-0117	
2.0	Petrol	85	2E	11/91-07/95				DOX-1172		DOX-0118	
2.0	Petrol	85	2E	11/91-07/95				DOX-1173		DOX-0117	
2.0	Petrol	85	2E	11/91-07/95				DOX-1363		DOX-0117	
2.0	Petrol	85	ADY; AGG	10/94-12/97		+ Catalyst				DOX-0118	
2.8 VR6	Petrol	128	AAA	01/92-09/94		Ch: >S-120 000, + Catalyst				DOX-0118	
2.8 VR6	Petrol	128	AAA	01/92-12/97				DOX-1171		DOX-0117	
2.8 VR6	Petrol	128	AAA	01/92-12/97				DOX-1172		DOX-0118	
2.8 VR6	Petrol	128	AAA	01/92-12/97				DOX-1173		DOX-0117	
2.8 VR6	Petrol	128	AAA	01/92-12/97				DOX-1363		DOX-0117	
2.8 VR6	Petrol	128	AAA	07/93-07/94		+ Catalyst				DOX-0118	

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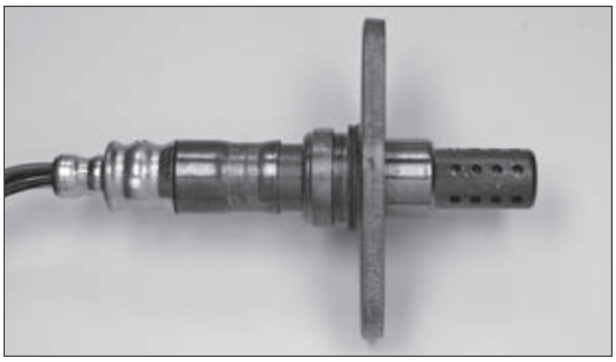
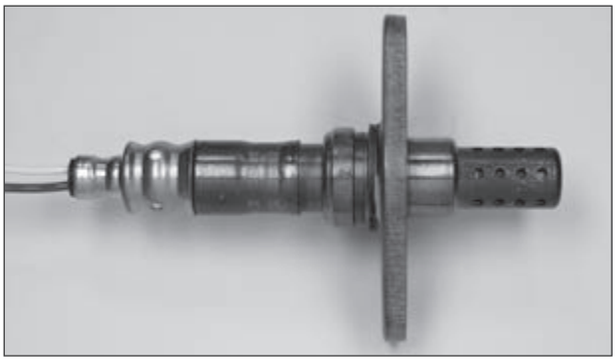
DOX-0101

4 WIRES - WIRE LENGTH 750mm



DOX-0102

2 WIRES - WIRE LENGTH 750mm

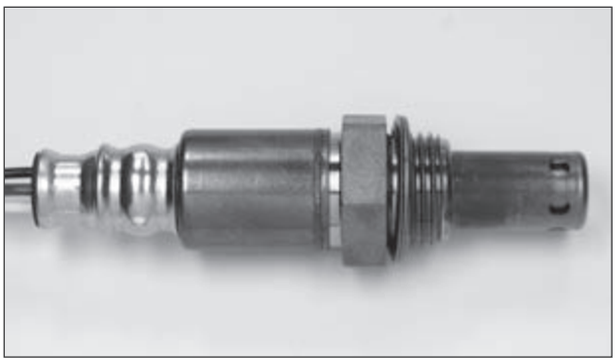


DOX-0104

4 WIRES - WIRE LENGTH 750mm

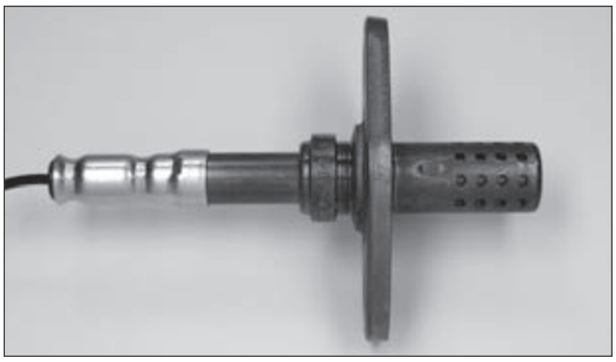
DOX-0106

4 WIRES - WIRE LENGTH 750mm



DOX-0107

1 WIRE - WIRE LENGTH 750mm



DOX-0108

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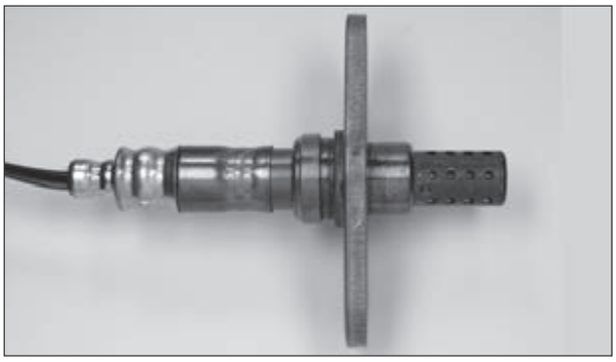
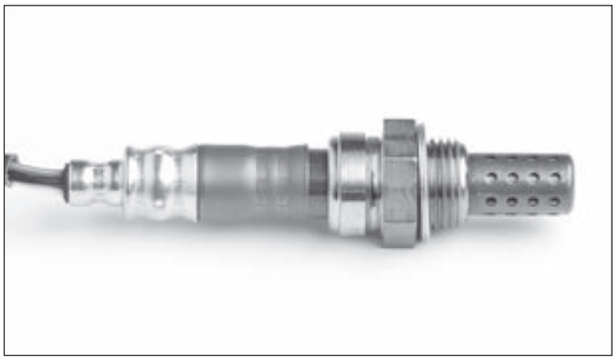


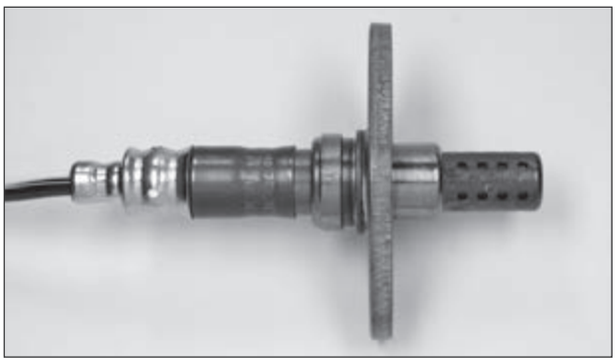
DOX-0109

4 WIRES - WIRE LENGTH 750mm



DOX-0110

4 WIRES - WIRE LENGTH 750mm



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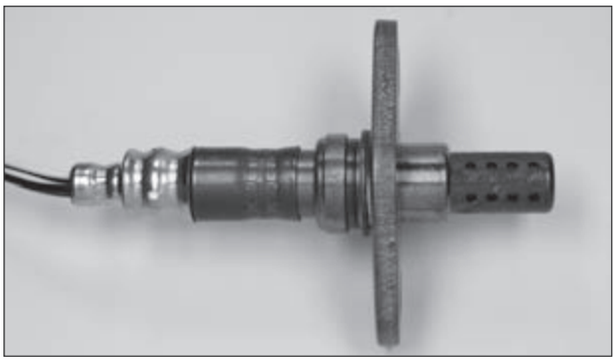
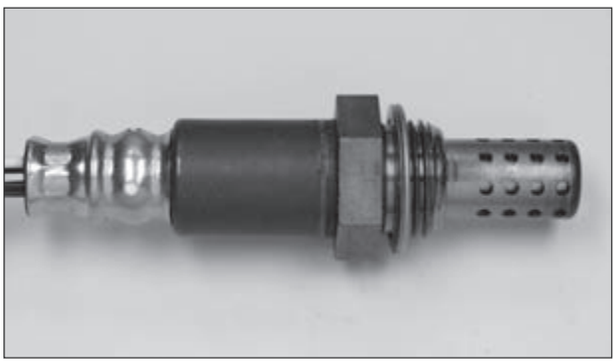
DOX-0111

4 WIRES - WIRE LENGTH 750mm



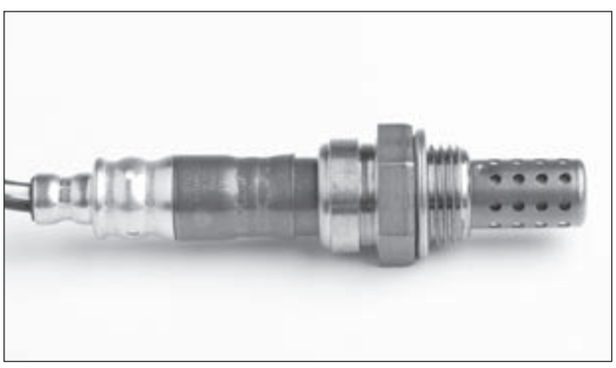
DOX-0113

4 WIRES - WIRE LENGTH 750mm



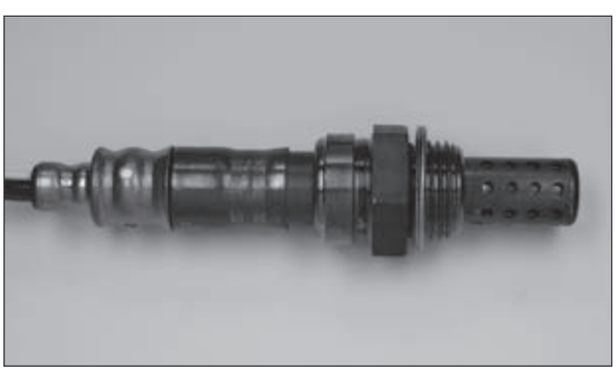
DOX-0114

4 WIRES - WIRE LENGTH 750mm



DOX-0115

3 WIRES - WIRE LENGTH 750mm

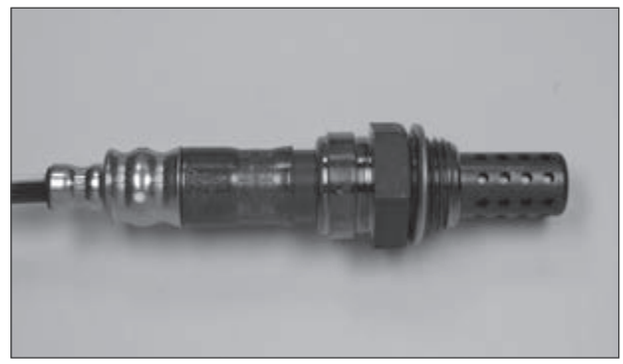


DOX-0116

3 WIRES - WIRE LENGTH 750mm

DOX-0117

4 WIRES - WIRE LENGTH 750mm

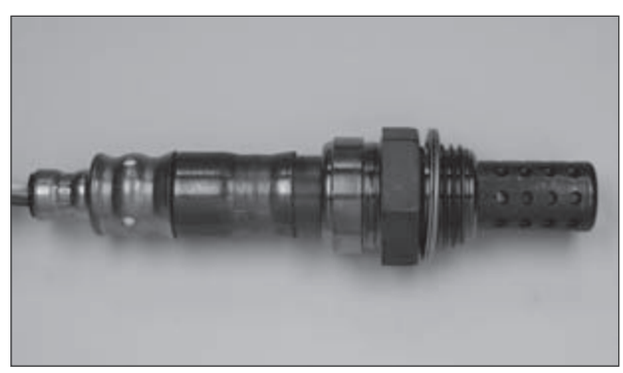


DOX-0118

4 WIRES - WIRE LENGTH 750mm

DOX-0119

4 WIRES - WIRE LENGTH 750mm



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DOX-0120

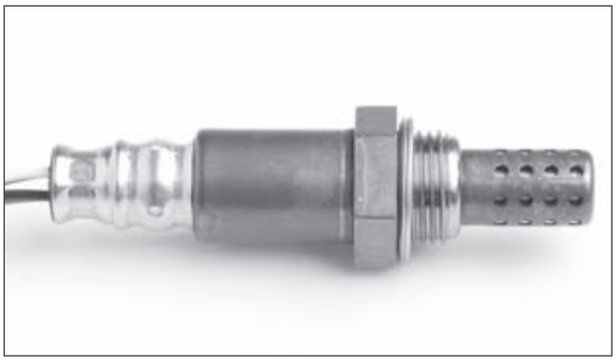
4 WIRES - WIRE LENGTH 750mm

DOX-0150

4 WIRES - WIRE LENGTH 750mm

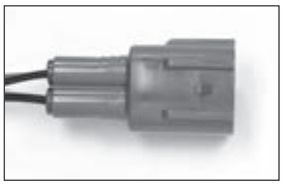
DOX-0121

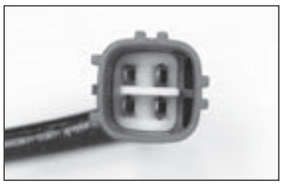
4 WIRES - WIRE LENGTH 750mm



DOX-0201

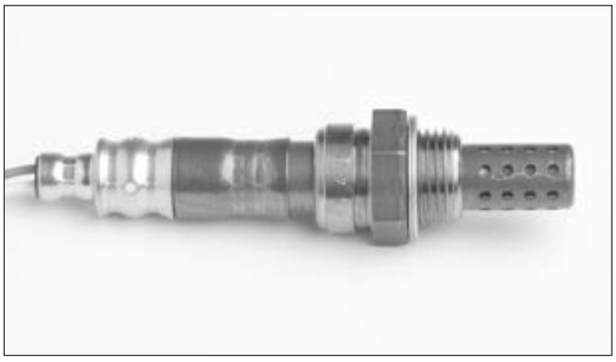
4 WIRES - WIRE LENGTH 310mm





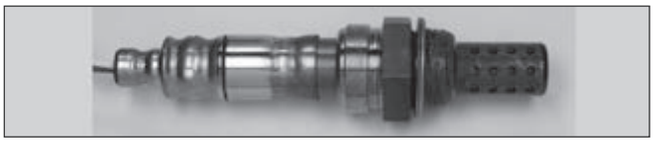
DOX-0123

2 WIRES - WIRE LENGTH 750mm



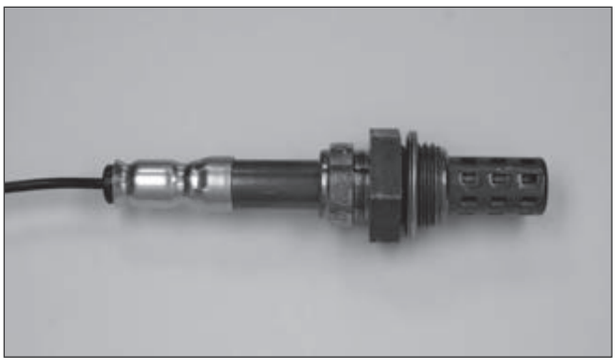
DOX-0202

2 WIRES - WIRE LENGTH 480mm



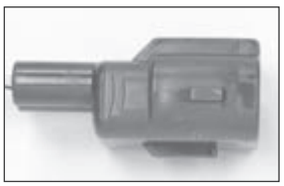
DOX-0125

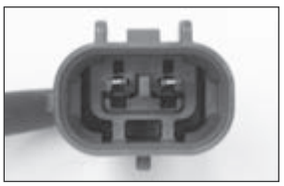
1 WIRE - WIRE LENGTH 300mm



DOX-0203

2 WIRES - WIRE LENGTH 275mm





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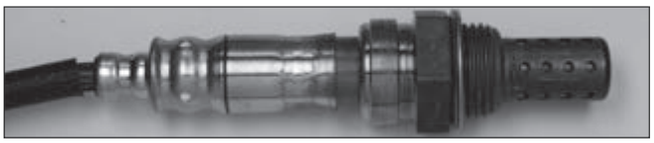
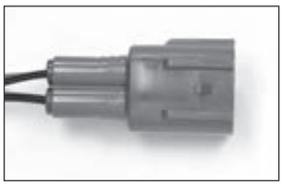
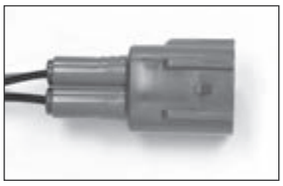
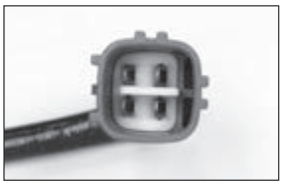
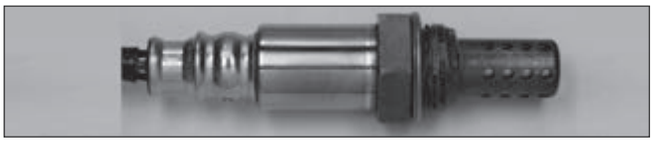
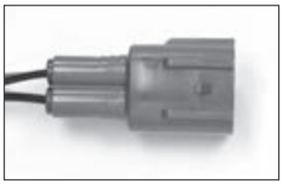
DOX-0204
4 WIRES - WIRE LENGTH 360mm

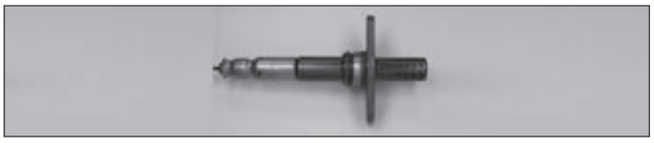
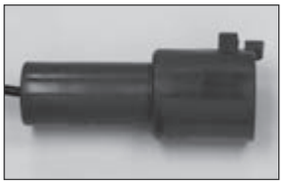
DOX-0205
4 WIRES - WIRE LENGTH 530mm

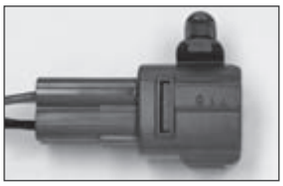
DOX-0206
4 WIRES - WIRE LENGTH 850mm

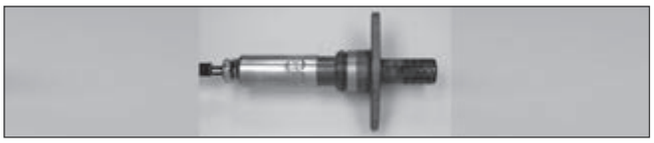
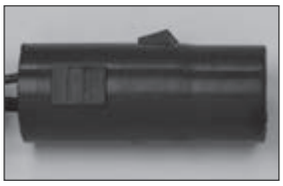
DOX-0207
1 WIRE - WIRE LENGTH 500mm

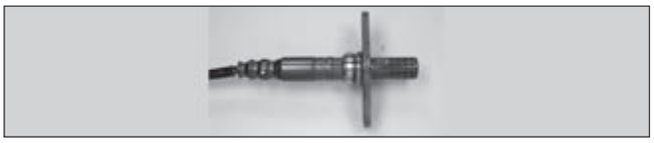
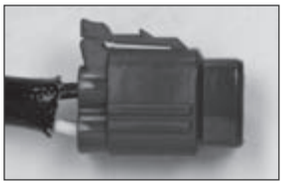
DOX-0208
4 WIRES - WIRE LENGTH 500mm



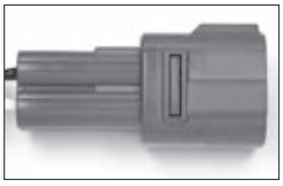
DOX-0209
4 WIRES - WIRE LENGTH 500mm

DOX-0210
4 WIRES - WIRE LENGTH 250mm

DOX-0211
4 WIRES - WIRE LENGTH 530mm



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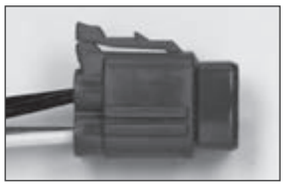
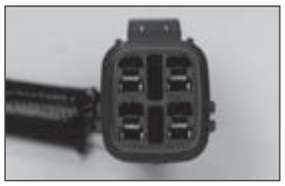
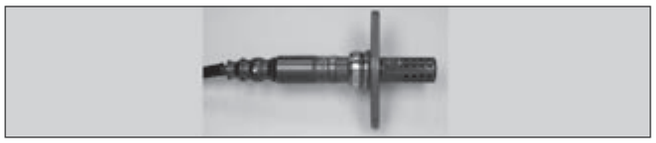
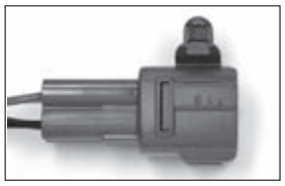
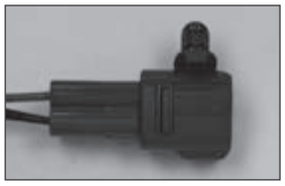
DOX-0212
4 WIRES - WIRE LENGTH 320mm

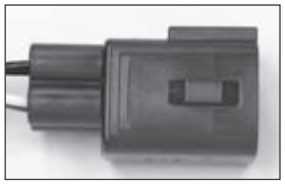
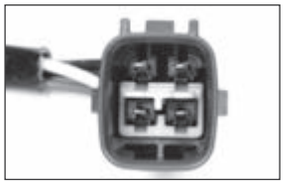
DOX-0213
4 WIRES - WIRE LENGTH 330mm

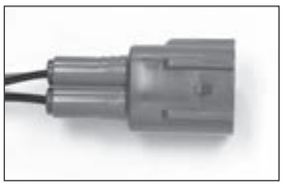
DOX-0214
4 WIRES - WIRE LENGTH 800mm



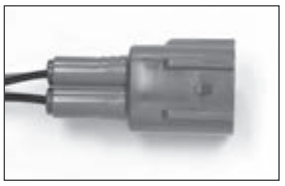
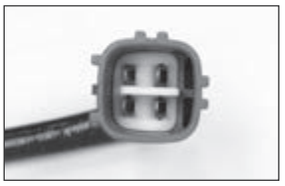
DOX-0215
4 WIRES - WIRE LENGTH 310mm

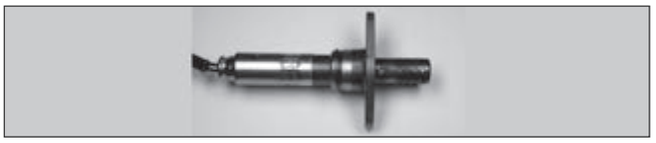
DOX-0216
4 WIRES - WIRE LENGTH 470mm

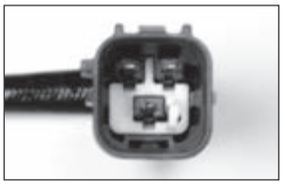


DOX-0217
4 WIRES - WIRE LENGTH 320mm

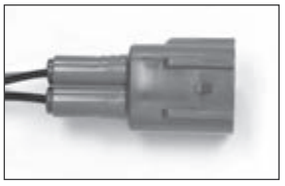
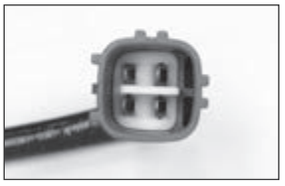



DOX-0218
4 WIRES - WIRE LENGTH 500mm





DOX-0219
4 WIRES - WIRE LENGTH 200mm

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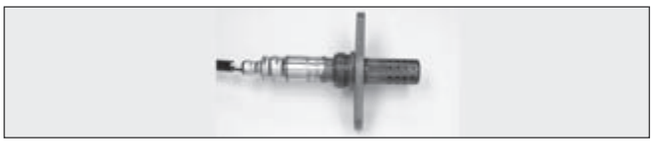
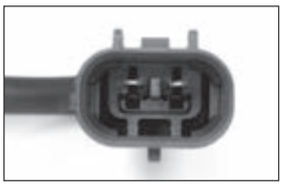
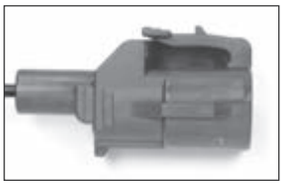
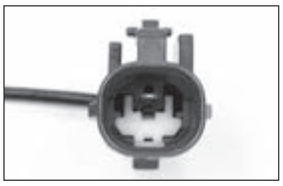
DOX-0220
2 WIRES - WIRE LENGTH 450mm

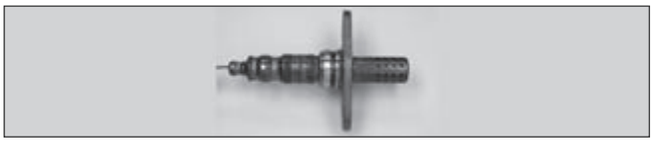
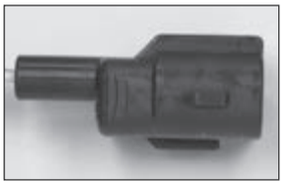
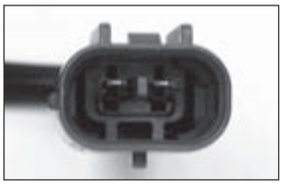




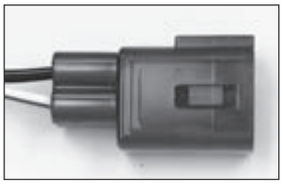
DOX-0221
1 WIRE - WIRE LENGTH 310mm

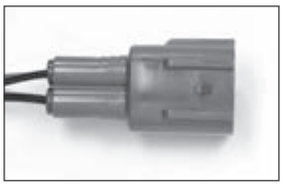
DOX-0222
2 WIRES - WIRE LENGTH 300mm

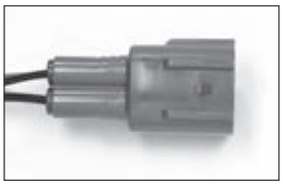
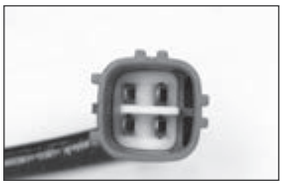
DOX-0223
4 WIRES - WIRE LENGTH 260mm



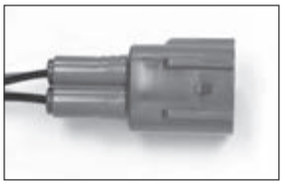
DOX-0224
4 WIRES - WIRE LENGTH 550mm



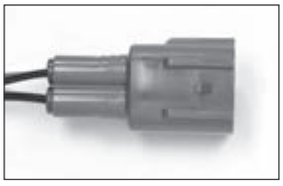
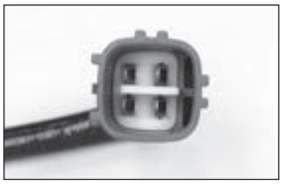
DOX-0225
4 WIRES - WIRE LENGTH 200mm

DOX-0226
4 WIRES - WIRE LENGTH 380mm



DOX-0227
4 WIRES - WIRE LENGTH 400mm

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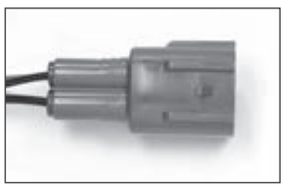
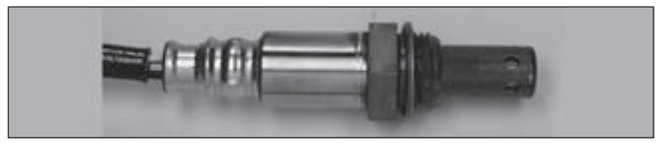
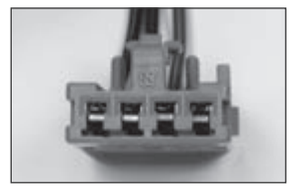
DOX-0228
4 WIRES - WIRE LENGTH 840mm

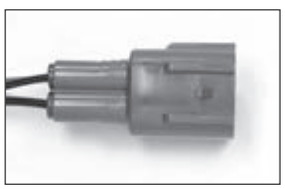
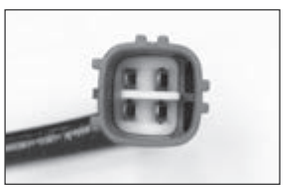


DOX-0233
4 WIRES - WIRE LENGTH 660mm

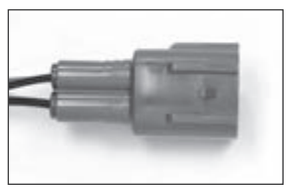
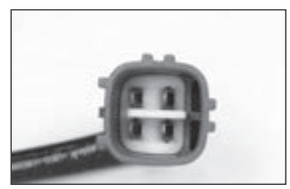




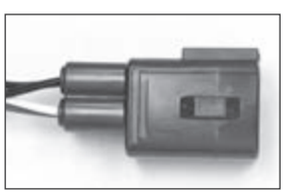
DOX-0229
4 WIRES - WIRE LENGTH 250mm

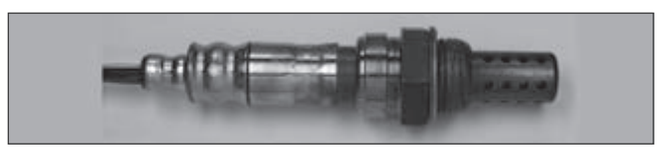
DOX-0234
4 WIRES - WIRE LENGTH 990mm

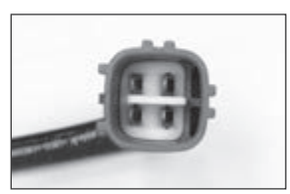



DOX-0231
4 WIRES - WIRE LENGTH 630mm

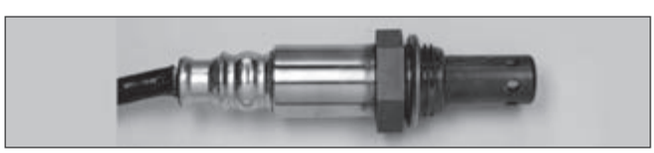
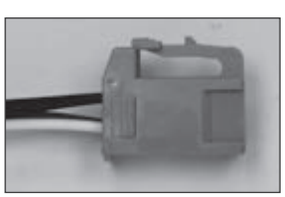
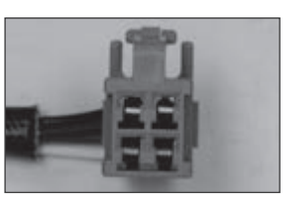


DOX-0236
4 WIRES - WIRE LENGTH 250mm

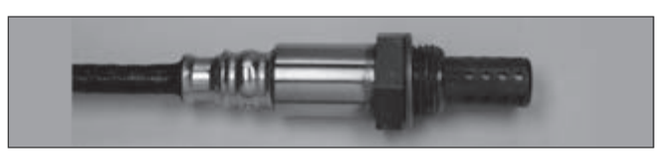


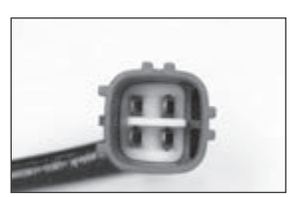


DOX-0232
4 WIRES - WIRE LENGTH 910mm

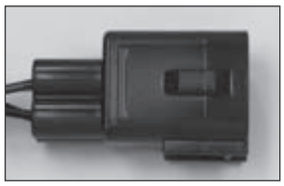
DOX-0237
4 WIRES - WIRE LENGTH 230mm





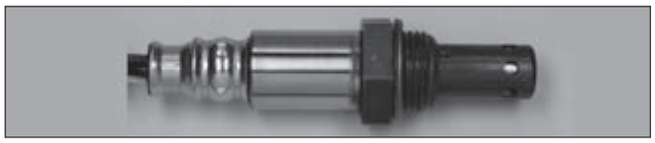
DOX-0238

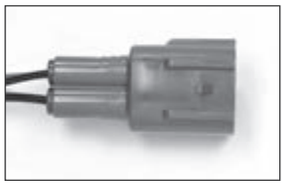
4 WIRES - WIRE LENGTH 420mm

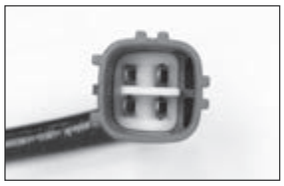


DOX-0239

4 WIRES - WIRE LENGTH 570mm

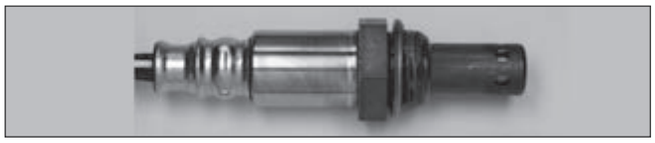


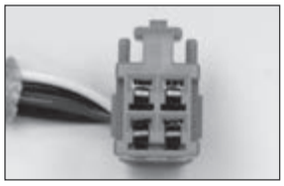




DOX-0240

4 WIRES - WIRE LENGTH 585mm



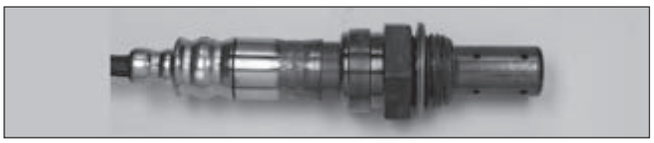


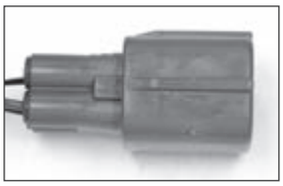
DOX-0241

4 WIRES - WIRE LENGTH 225mm

DOX-0242

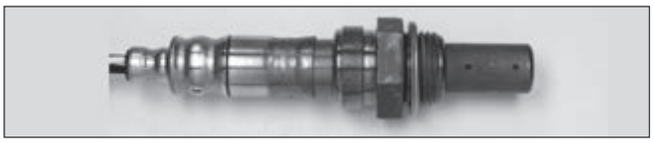
4 WIRES - WIRE LENGTH 510mm

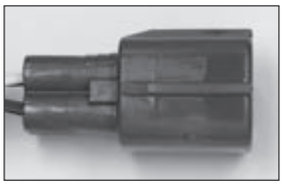


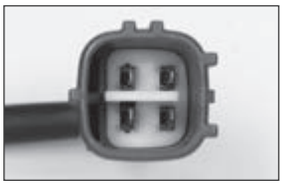


DOX-0243

4 WIRES - WIRE LENGTH 330mm

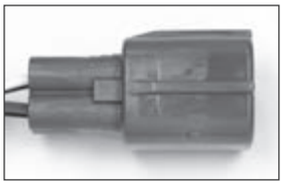


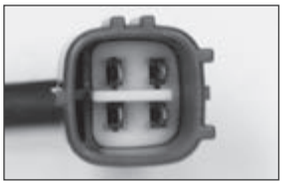




DOX-0244

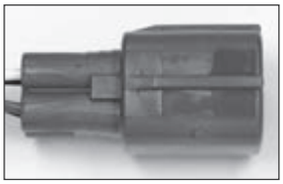
4 WIRES - WIRE LENGTH 420mm

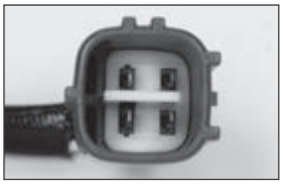




DOX-0245

4 WIRES - WIRE LENGTH 220mm





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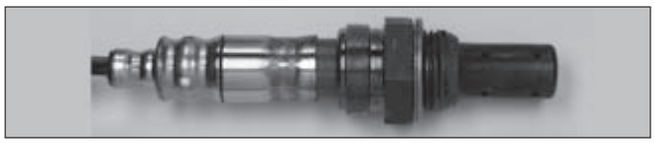
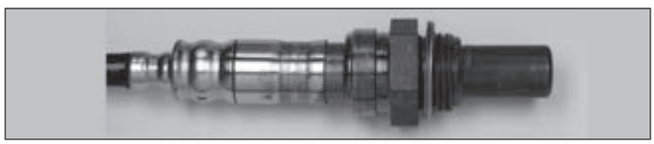
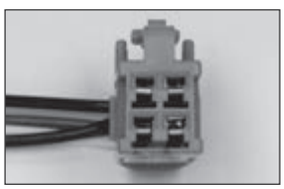
DOX-0246
4 WIRES - WIRE LENGTH 430mm

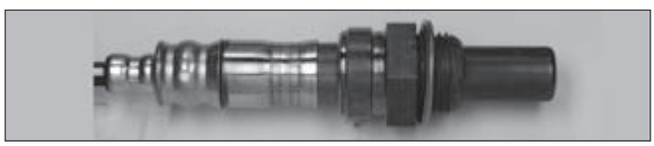
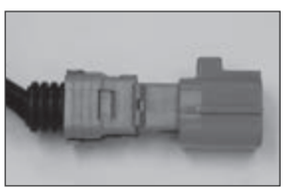


DOX-0247
4 WIRES - WIRE LENGTH 700mm

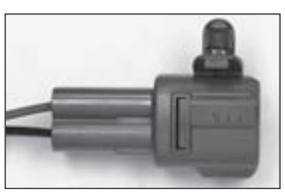
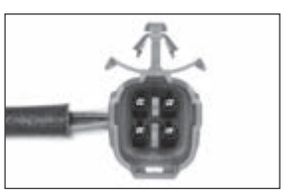




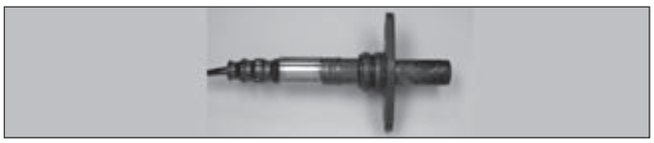
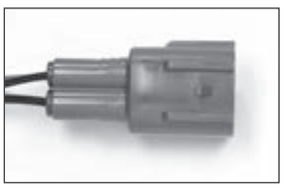
DOX-0248
4 WIRES - WIRE LENGTH 390mm

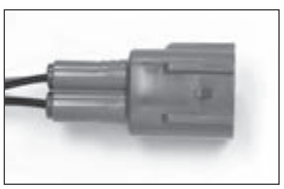
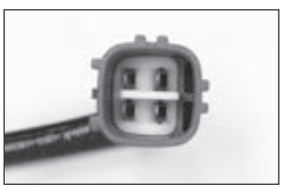
DOX-0249
4 WIRES - WIRE LENGTH 350mm

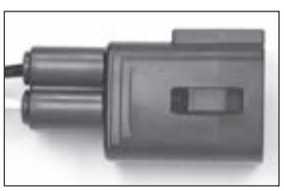
DOX-0250
4 WIRES - WIRE LENGTH 455mm

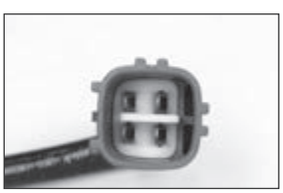
DOX-0251
4 WIRES - WIRE LENGTH 340mm

DOX-0252
4 WIRES - WIRE LENGTH 320mm

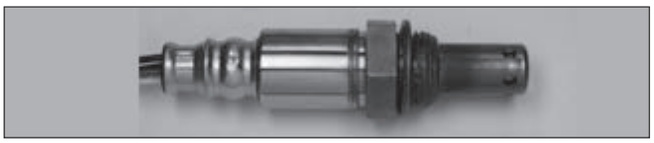


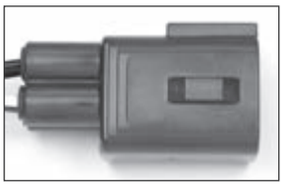
DOX-0253
4 WIRES - WIRE LENGTH 750mm

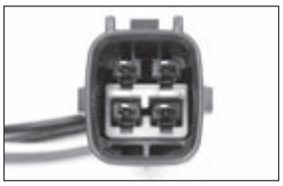


DOX-0254

4 WIRES - WIRE LENGTH 435mm

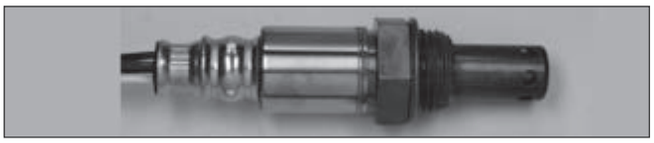


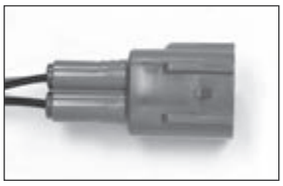




DOX-0255

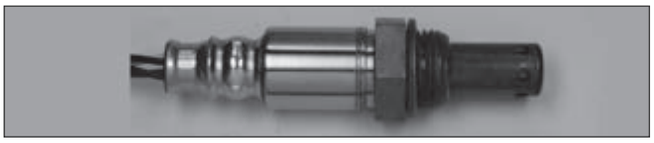
4 WIRES - WIRE LENGTH 340mm

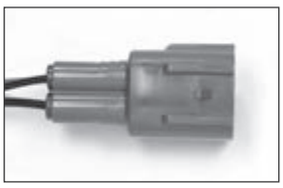




DOX-0256

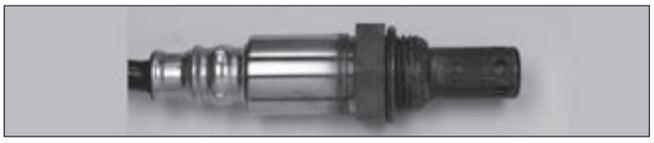
4 WIRES - WIRE LENGTH 200mm

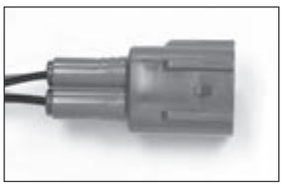


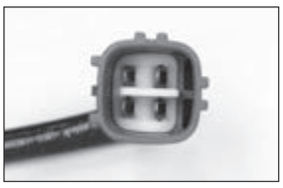


DOX-0257

4 WIRES - WIRE LENGTH 330mm

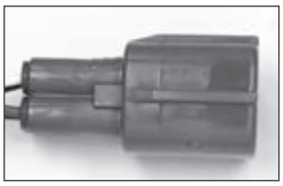


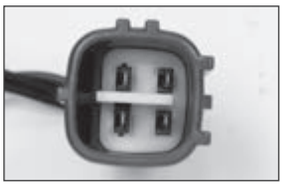




DOX-0258

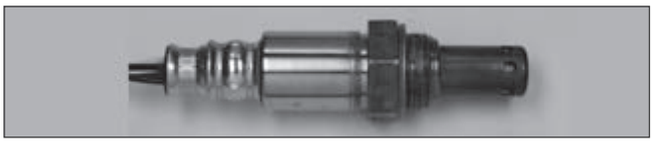
4 WIRES - WIRE LENGTH 330mm

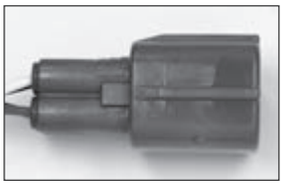


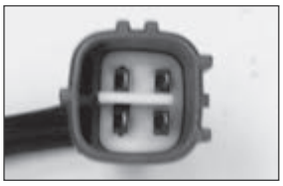


DOX-0259

4 WIRES - WIRE LENGTH 200mm

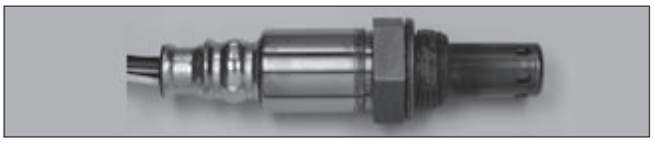


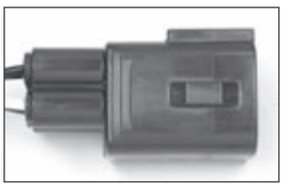




DOX-0260

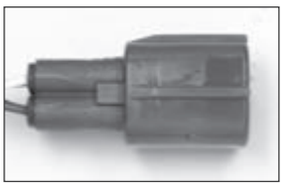
4 WIRES - WIRE LENGTH 330mm

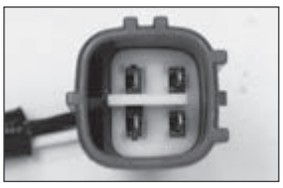




DOX-0261

4 WIRES - WIRE LENGTH 510mm





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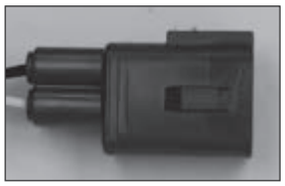
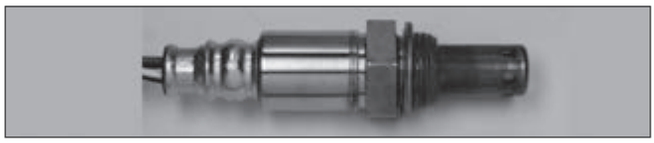
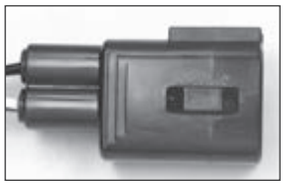
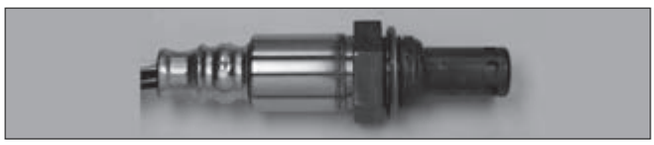
DOX-0262
4 WIRES - WIRE LENGTH 360mm

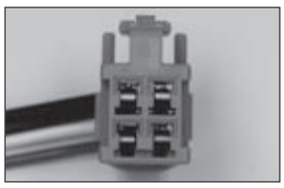


DOX-0263
4 WIRES - WIRE LENGTH 220mm

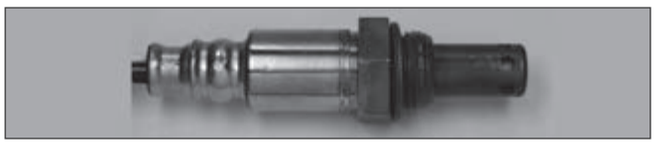
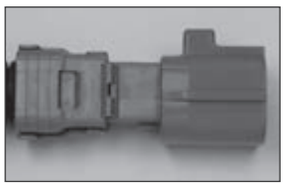



DOX-0264
4 WIRES - WIRE LENGTH 700mm

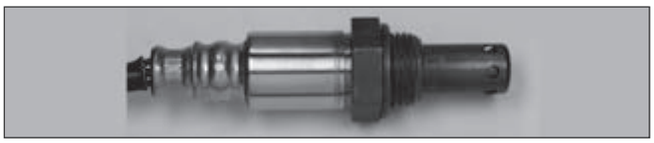
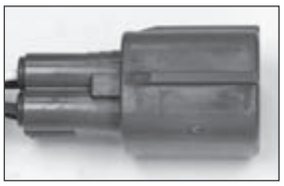
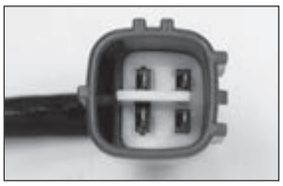




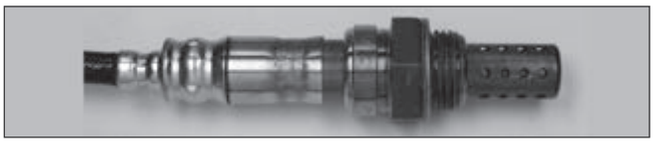
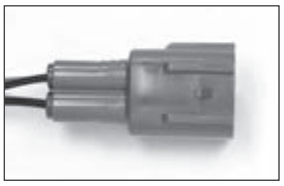
DOX-0265
4 WIRES - WIRE LENGTH 390mm

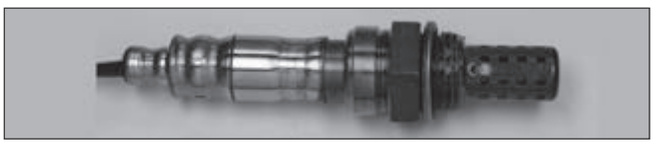
DOX-0266
4 WIRES - WIRE LENGTH 315mm

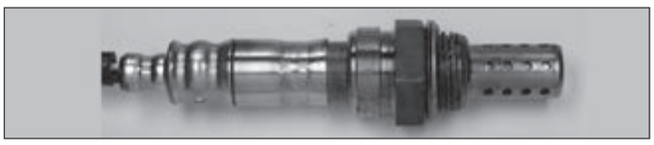
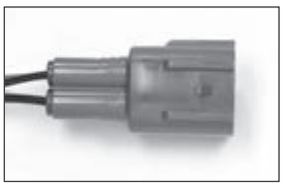
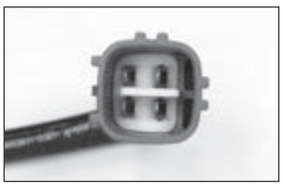
DOX-0267
4 WIRES - WIRE LENGTH 350mm

DOX-0269
4 WIRES - WIRE LENGTH 230mm



DOX-0270
4 WIRES - WIRE LENGTH 470mm

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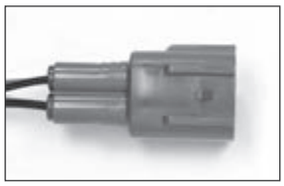
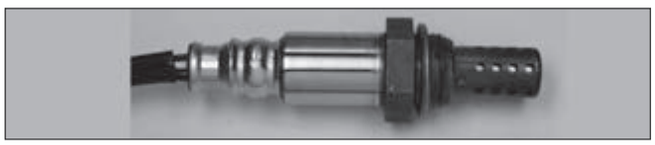
DOX-0271

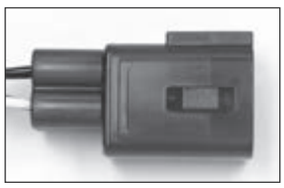
4 WIRES - WIRE LENGTH 700mm



DOX-0273

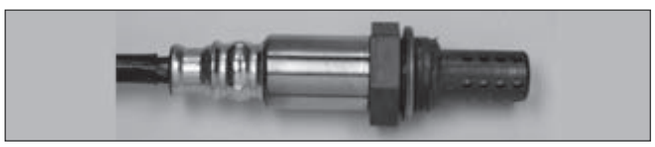
4 WIRES - WIRE LENGTH 590mm

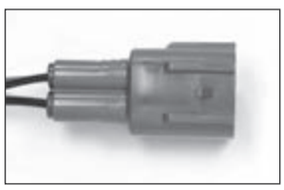


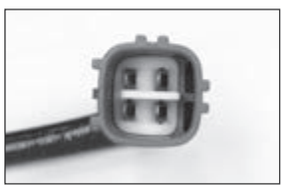


DOX-0274

4 WIRES - WIRE LENGTH 600mm

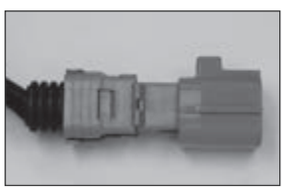






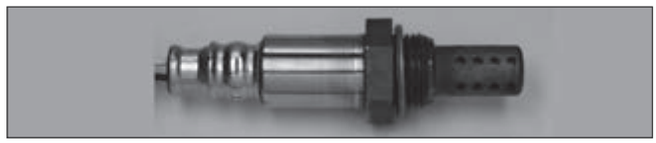
DOX-0275

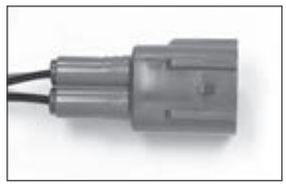
4 WIRES - WIRE LENGTH 290mm

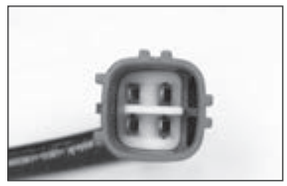


DOX-0276

4 WIRES - WIRE LENGTH 490mm

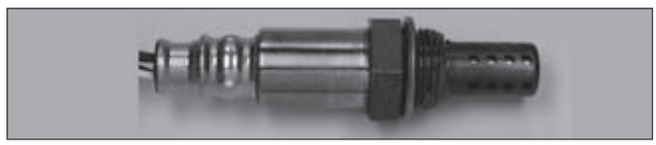


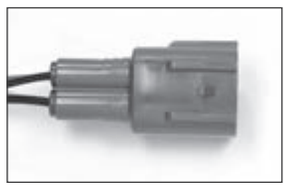


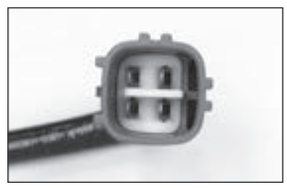


DOX-0277

4 WIRES - WIRE LENGTH 900mm

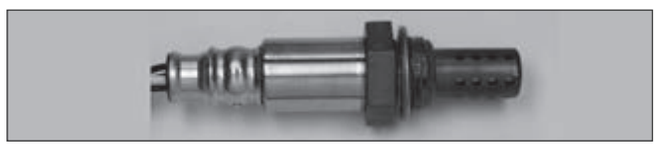


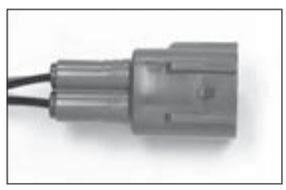


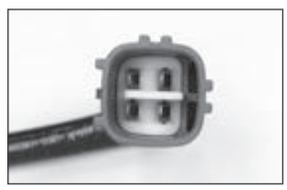


DOX-0278

4 WIRES - WIRE LENGTH 620mm

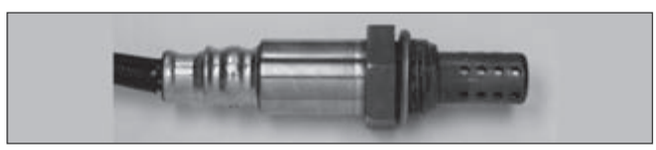


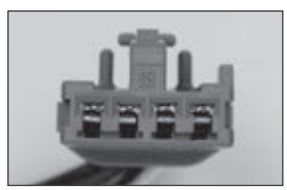




DOX-0279

4 WIRES - WIRE LENGTH 690mm





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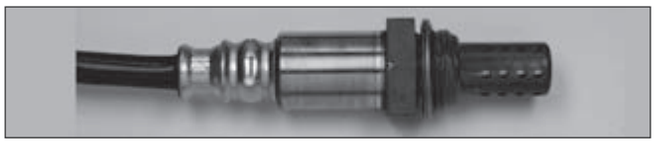
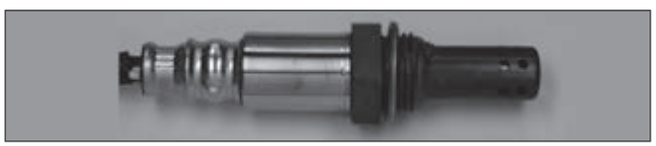
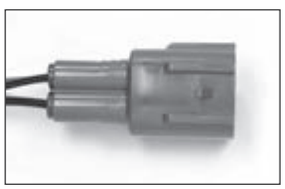
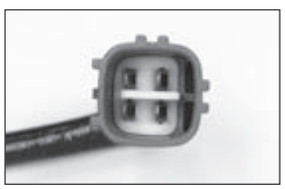
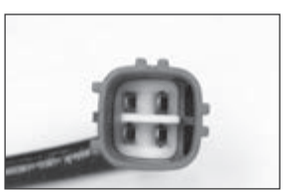
DOX-0280
4 WIRES - WIRE LENGTH 880mm



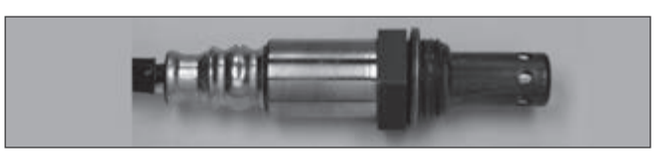
DOX-0282
4 WIRES - WIRE LENGTH 730mm

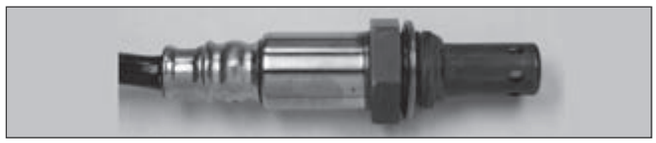
DOX-0283
4 WIRES - WIRE LENGTH 510mm

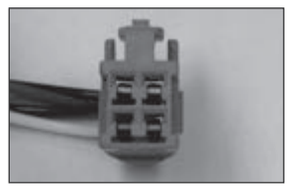


DOX-0284
4 WIRES - WIRE LENGTH 480mm

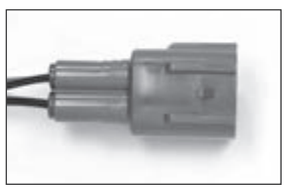
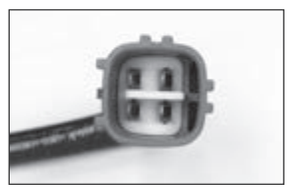


DOX-0285
4 WIRES - WIRE LENGTH 500mm

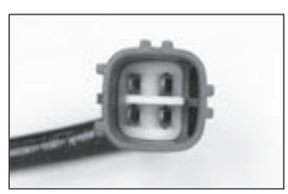




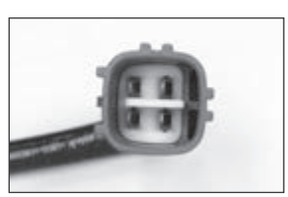
DOX-0286
4 WIRES - WIRE LENGTH 420mm

DOX-0287
4 WIRES - WIRE LENGTH 655mm



DOX-0288
4 WIRES - WIRE LENGTH 630mm



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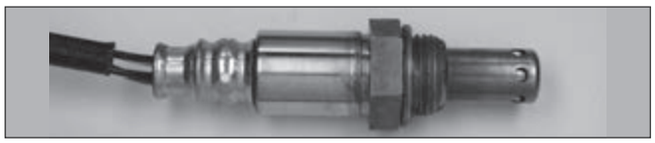
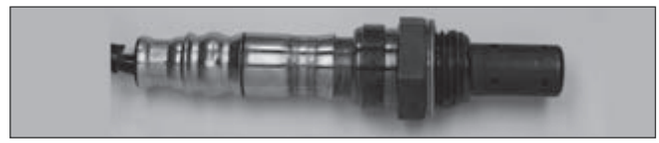
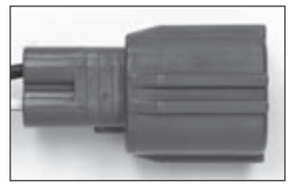
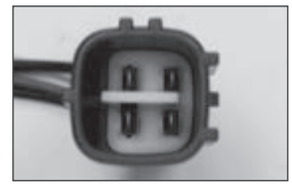
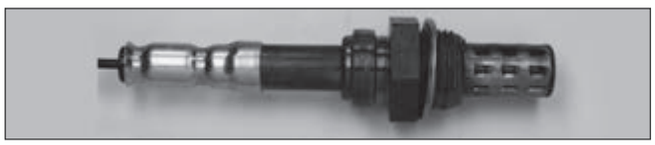
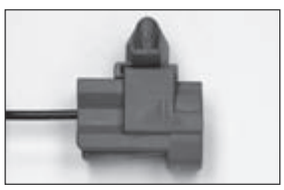
DOX-0289
4 WIRES - WIRE LENGTH 375mm



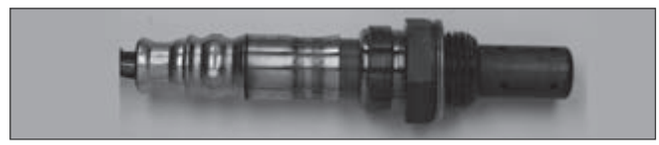
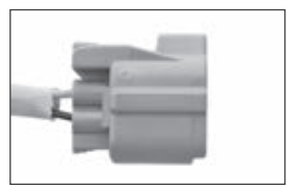
DOX-0306
4 WIRES - WIRE LENGTH 780mm

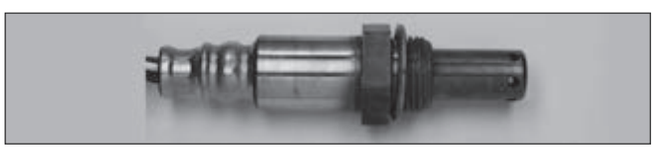
DOX-0300
1 WIRE - WIRE LENGTH 450mm

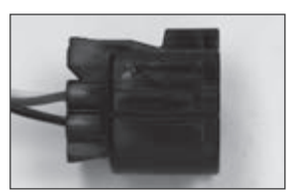
DOX-0307
4 WIRES - WIRE LENGTH 510mm

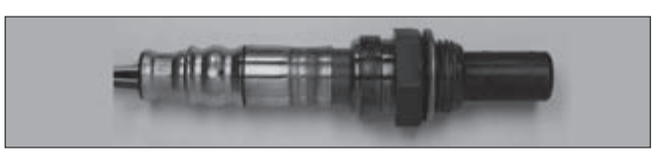
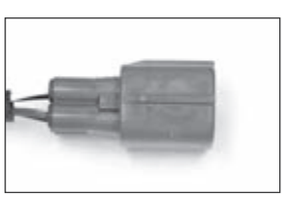
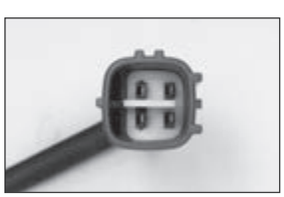
DOX-0301
4 WIRES - WIRE LENGTH 340mm



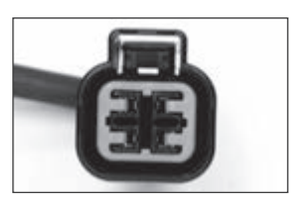
DOX-0308
4 WIRES - WIRE LENGTH 480mm



DOX-0305
4 WIRES - WIRE LENGTH 490mm

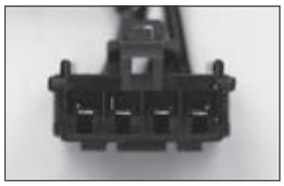




DOX-0311
4 WIRES - WIRE LENGTH 355mm



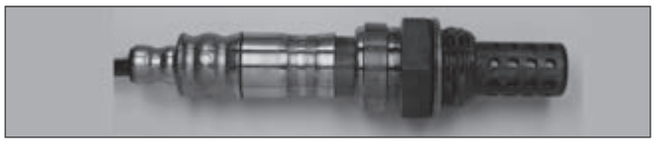
DOX-0312

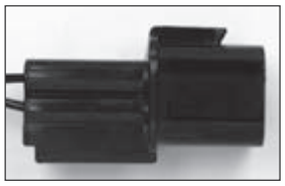
4 WIRES - WIRE LENGTH 830mm

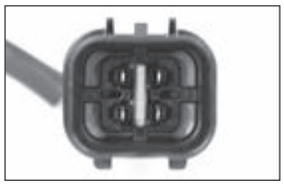


DOX-0313

4 WIRES - WIRE LENGTH 390mm

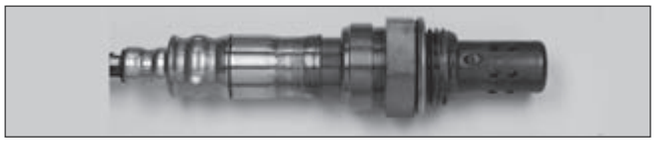


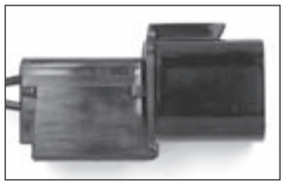




DOX-0314

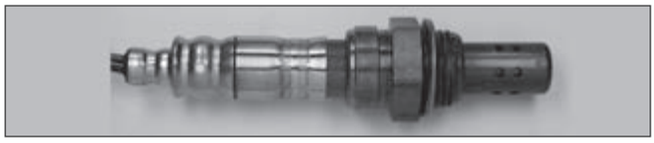
4 WIRES - WIRE LENGTH 950mm

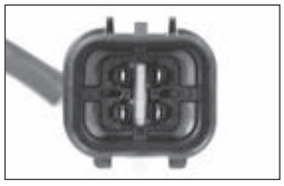




DOX-0315

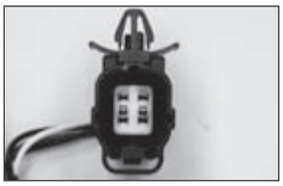
4 WIRES - WIRE LENGTH 650mm





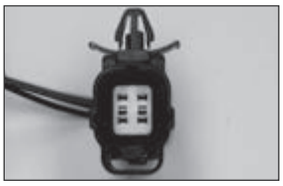
DOX-0316

4 WIRES - WIRE LENGTH 370mm



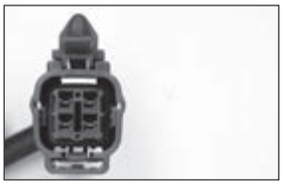
DOX-0317

4 WIRES - WIRE LENGTH 880mm



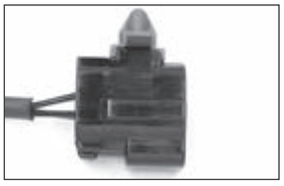
DOX-0318

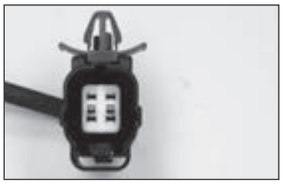
4 WIRES - WIRE LENGTH 330mm



DOX-0319

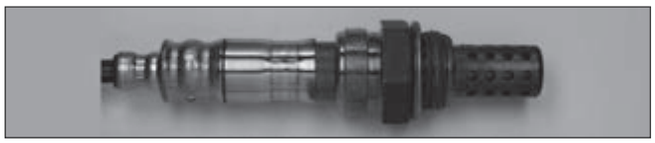
4 WIRES - WIRE LENGTH 460mm





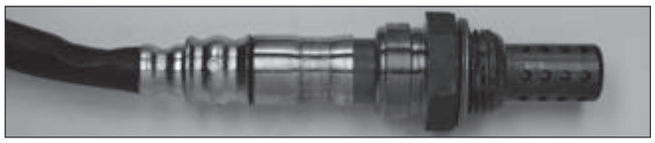
DOX-0320

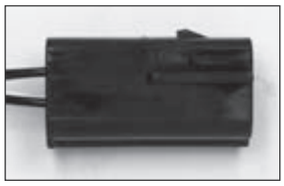
4 WIRES - WIRE LENGTH 370mm



DOX-0321

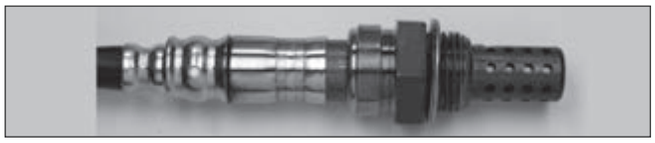
4 WIRES - WIRE LENGTH 1010mm

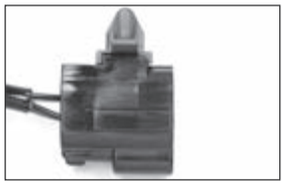


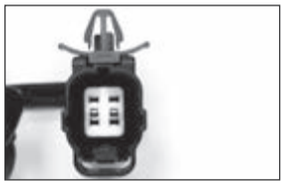


DOX-0322

4 WIRES - WIRE LENGTH 880mm

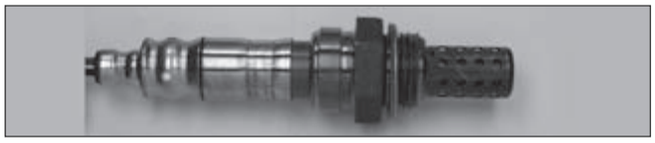


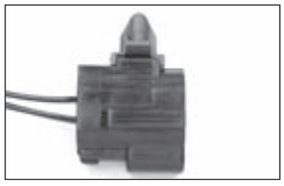


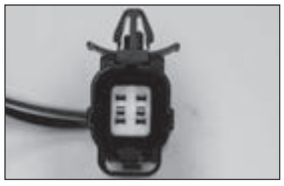


DOX-0323

4 WIRES - WIRE LENGTH 880mm

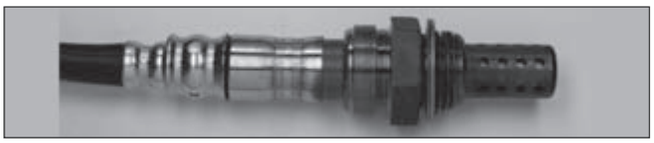


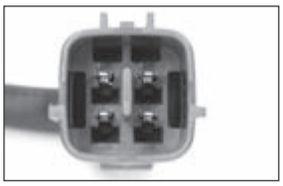




DOX-0324

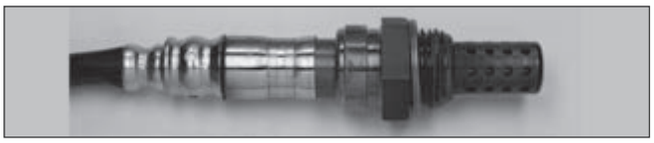
4 WIRES - WIRE LENGTH 660mm

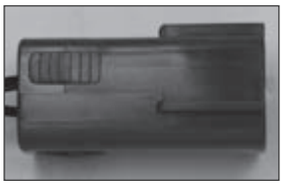


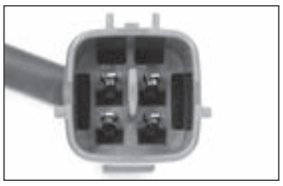


DOX-0325

4 WIRES - WIRE LENGTH 360mm

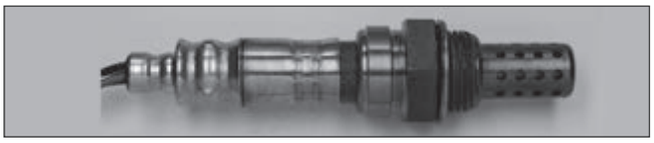


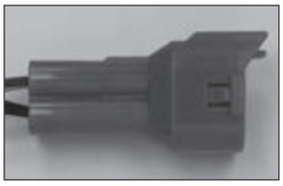




DOX-0326

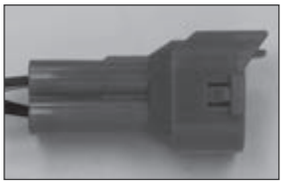
4 WIRES - WIRE LENGTH 630mm





DOX-0327

4 WIRES - WIRE LENGTH 360mm



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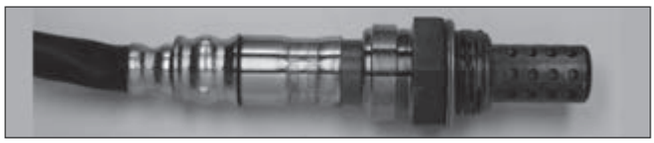
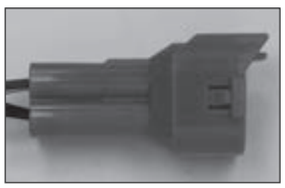
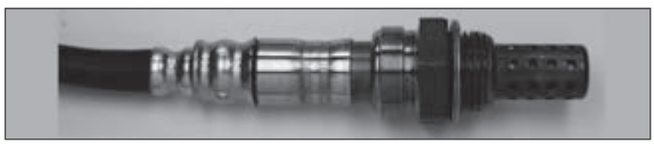
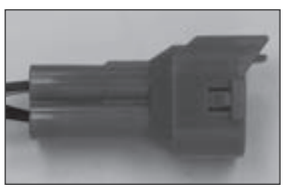
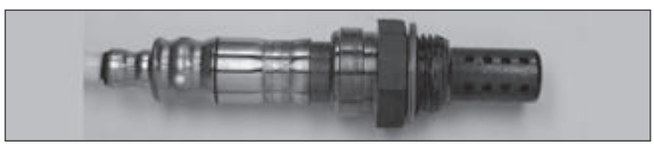
DOX-0328
4 WIRES - WIRE LENGTH 670mm

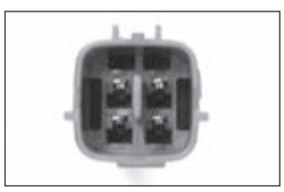



DOX-0329
4 WIRES - WIRE LENGTH 620mm

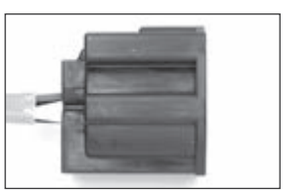



DOX-0330
4 WIRES - WIRE LENGTH 255mm

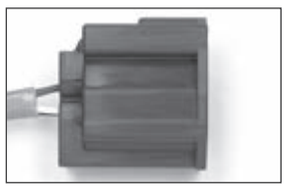




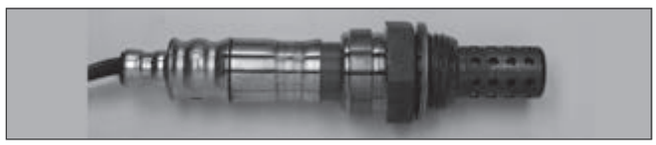
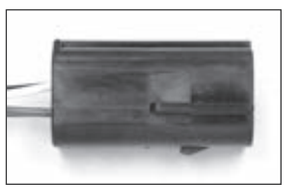
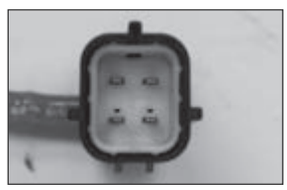
DOX-0331
4 WIRES - WIRE LENGTH 590mm



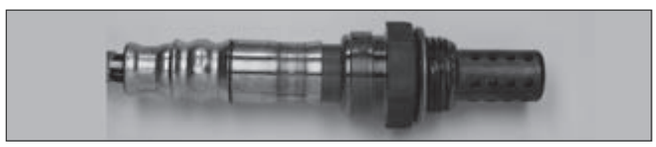
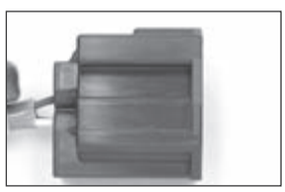
DOX-0332
4 WIRES - WIRE LENGTH 730mm



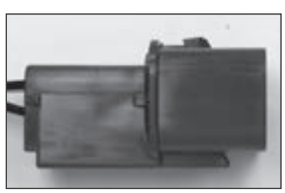
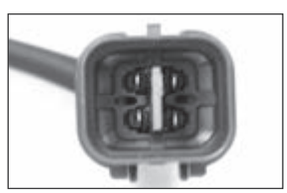
DOX-0333
4 WIRES - WIRE LENGTH 300mm

DOX-0334
4 WIRES - WIRE LENGTH 440mm

DOX-0335
4 WIRES - WIRE LENGTH 580mm

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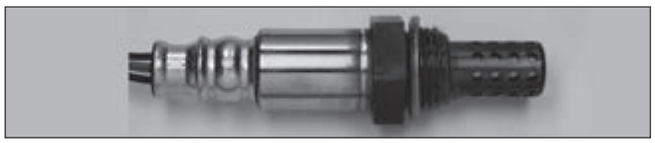
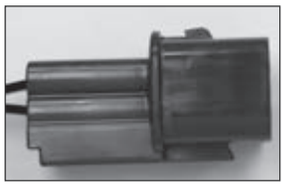
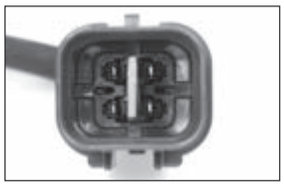
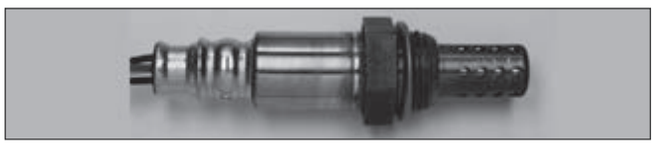
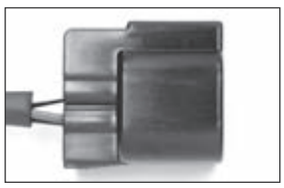
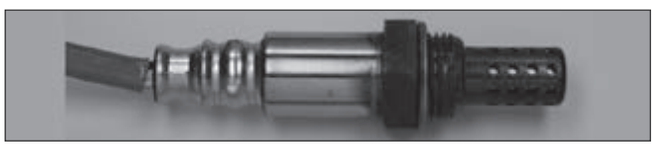
DOX-0336
4 WIRES - WIRE LENGTH 560mm

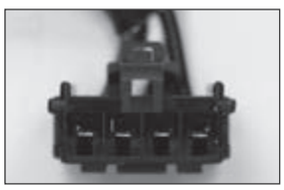




DOX-0337
4 WIRES - WIRE LENGTH 670mm

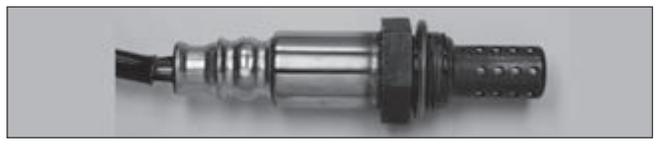
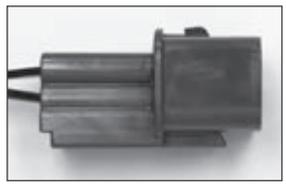
DOX-0340
4 WIRES - WIRE LENGTH 760mm



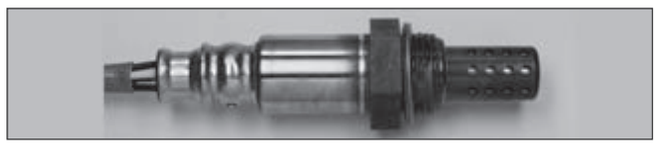
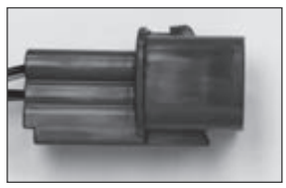
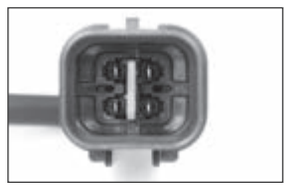


DOX-0341
4 WIRES - WIRE LENGTH 420mm

DOX-0342
4 WIRES - WIRE LENGTH 790mm

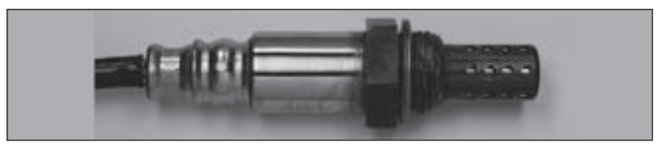



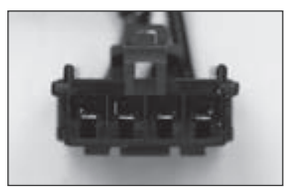
DOX-0343
4 WIRES - WIRE LENGTH 740mm

DOX-0344
4 WIRES - WIRE LENGTH 580mm

DOX-0345
4 WIRES - WIRE LENGTH 790mm





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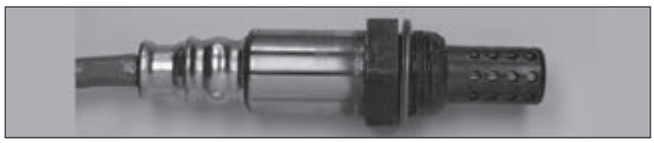
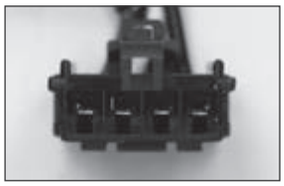
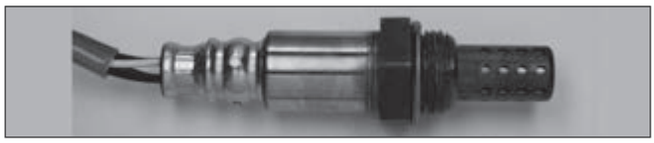
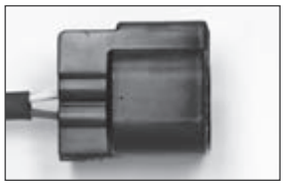
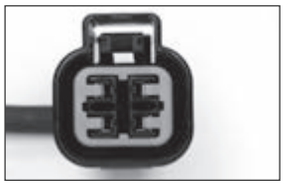
DOX-0346
4 WIRES - WIRE LENGTH 760mm

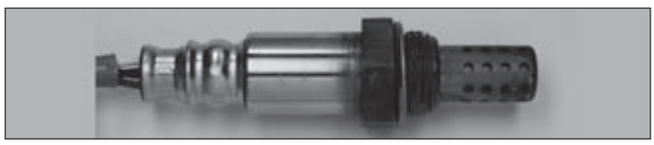
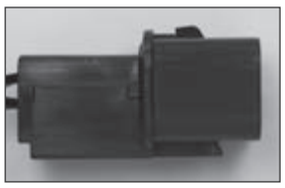




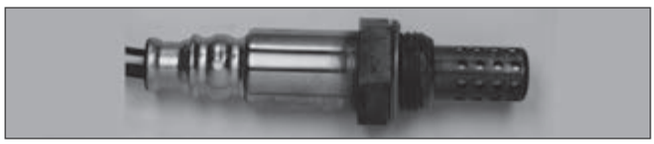
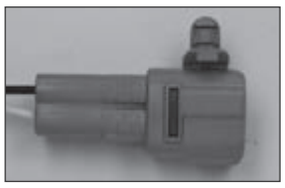
DOX-0347
4 WIRES - WIRE LENGTH 350mm

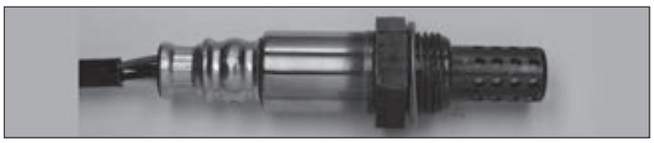
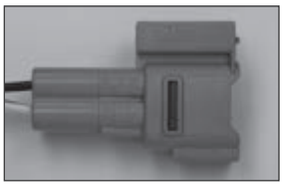
DOX-0349
4 WIRES - WIRE LENGTH 330mm

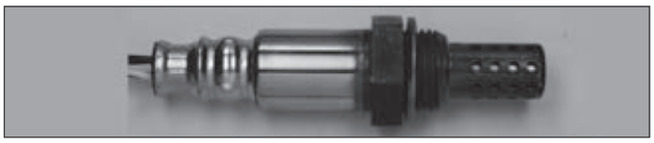
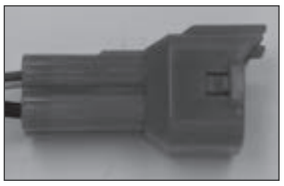
DOX-0350
4 WIRES - WIRE LENGTH 720mm

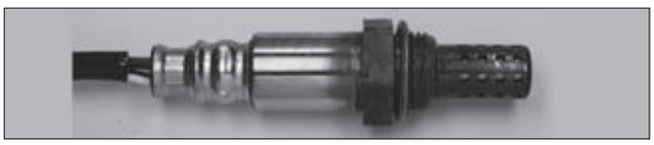
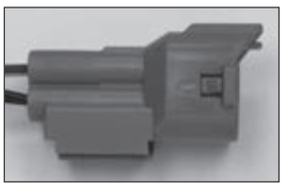
DOX-0351
4 WIRES - WIRE LENGTH 485mm

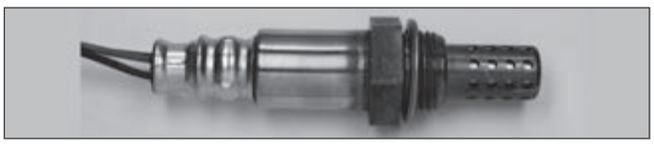
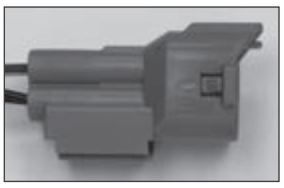
DOX-0352
4 WIRES - WIRE LENGTH 530mm

DOX-0353
4 WIRES - WIRE LENGTH 500mm

DOX-0354
4 WIRES - WIRE LENGTH 310mm

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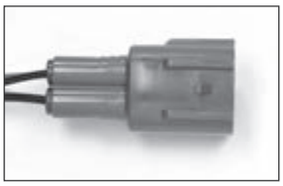
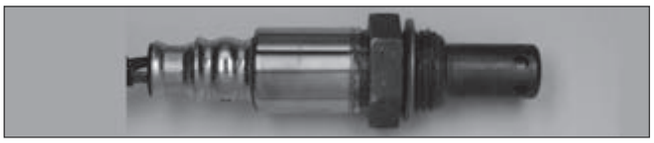
DOX-0357

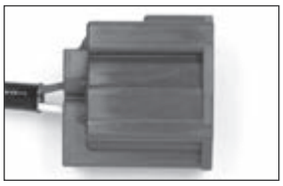
4 WIRES - WIRE LENGTH 645mm



DOX-0360

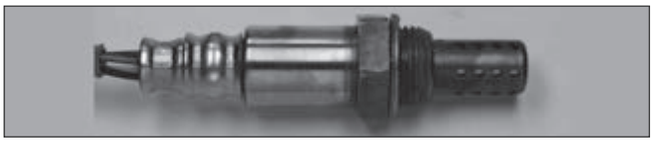
4 WIRES - WIRE LENGTH 740mm

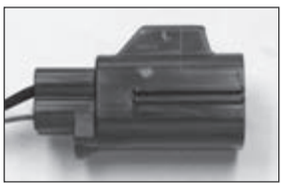




DOX-0400

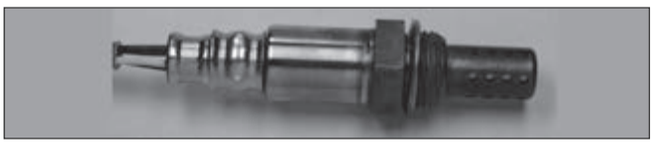
4 WIRES - WIRE LENGTH 510mm

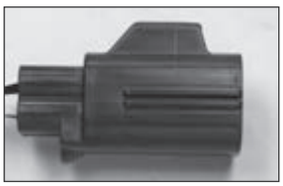




DOX-0401

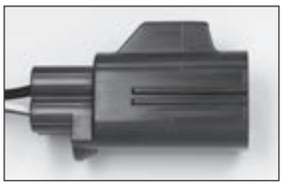
4 WIRES - WIRE LENGTH 390mm





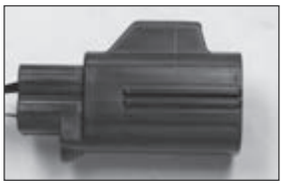
DOX-0402

4 WIRES - WIRE LENGTH 650mm



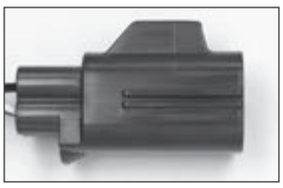
DOX-0403

4 WIRES - WIRE LENGTH 390mm



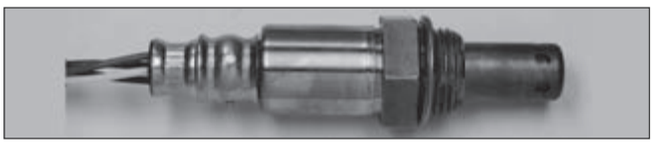
DOX-0404

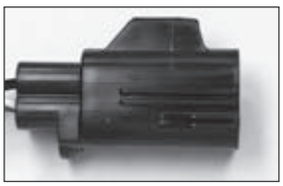
4 WIRES - WIRE LENGTH 650mm



DOX-0405

4 WIRES - WIRE LENGTH 640mm





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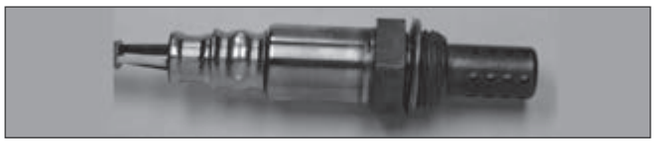
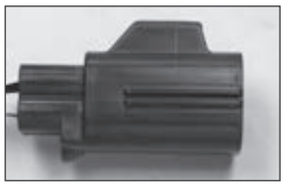
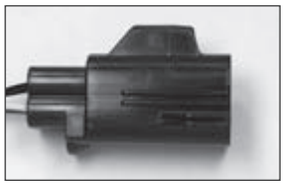
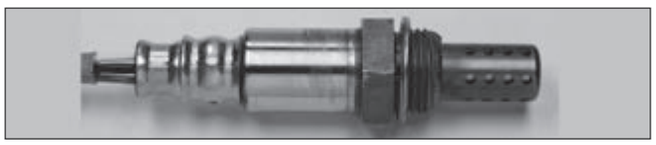
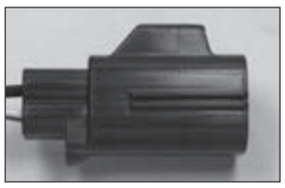
DOX-0406
4 WIRES - WIRE LENGTH 420mm

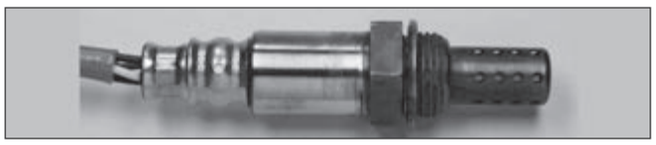
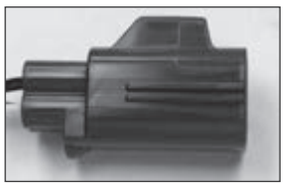
DOX-0407
4 WIRES - WIRE LENGTH 470mm



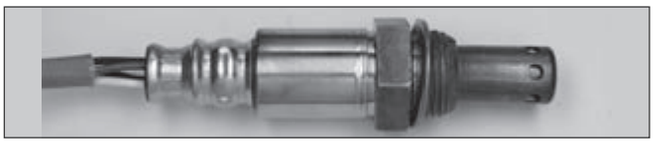
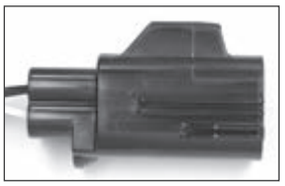
DOX-0408
4 WIRES - WIRE LENGTH 430mm

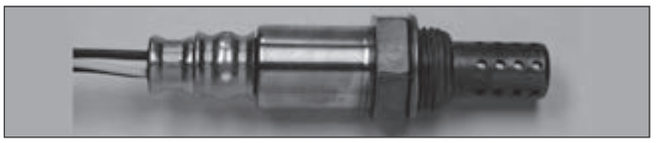
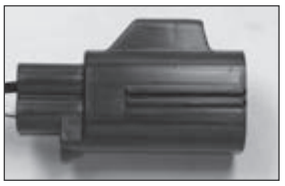
DOX-0409
4 WIRES - WIRE LENGTH 350mm

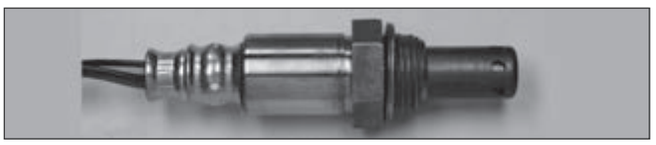
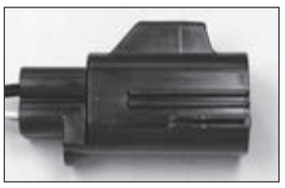
DOX-0410
4 WIRES - WIRE LENGTH 620mm

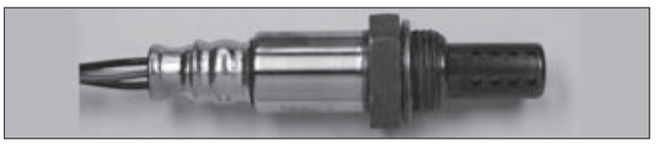
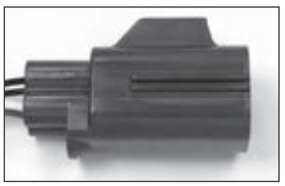
DOX-0411
4 WIRES - WIRE LENGTH 800mm

DOX-0412
4 WIRES - WIRE LENGTH 470mm

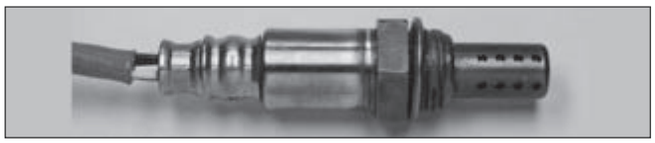



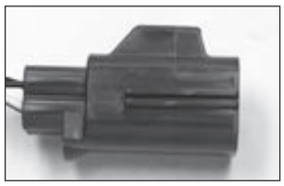
DOX-0413
4 WIRES - WIRE LENGTH 410mm

DOX-0414

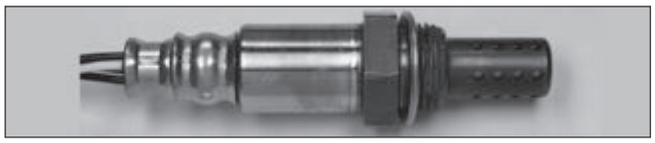
4 WIRES - WIRE LENGTH 420mm

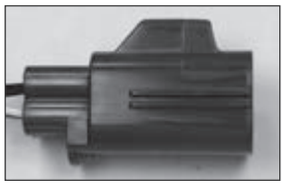




DOX-0415

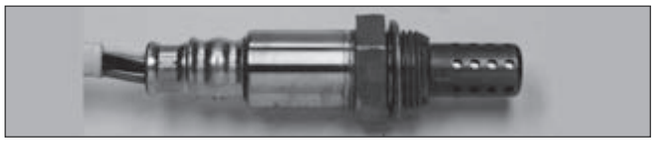
4 WIRES - WIRE LENGTH 370mm

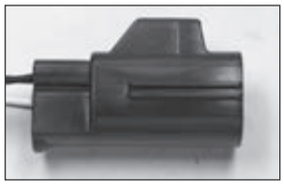




DOX-0416

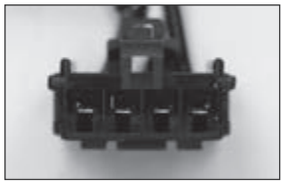
4 WIRES - WIRE LENGTH 230mm





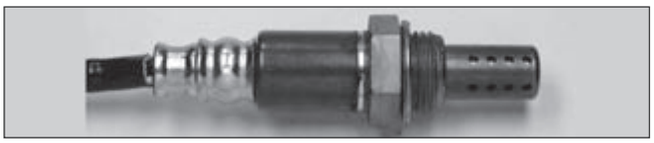
DOX-0420

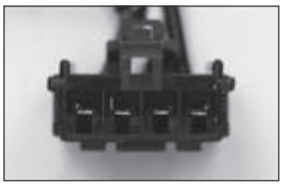
4 WIRES - WIRE LENGTH 444mm



DOX-0421

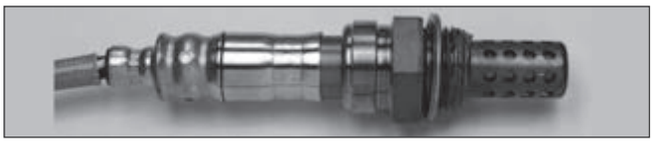
4 WIRES - WIRE LENGTH 340mm

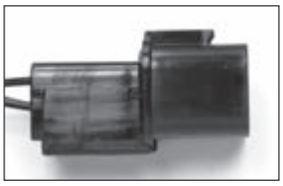




DOX-0422

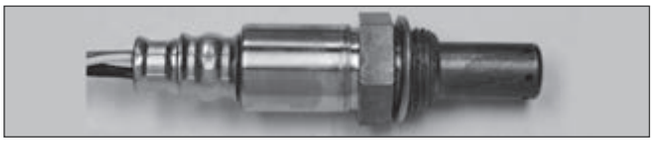
4 WIRES - WIRE LENGTH 575mm





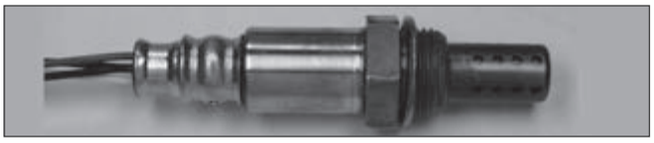
DOX-0426

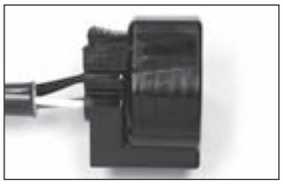
4 WIRES - WIRE LENGTH 300mm



DOX-0427

4 WIRES - WIRE LENGTH 480mm





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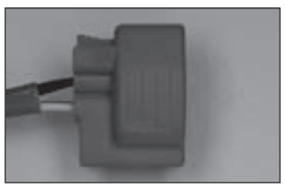
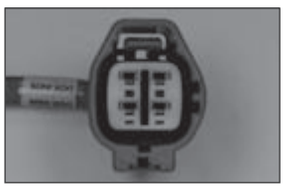
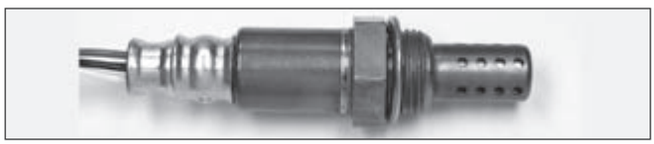
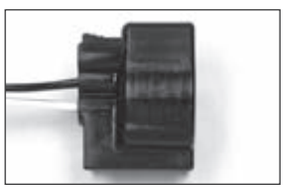
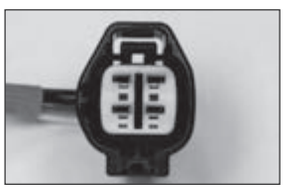
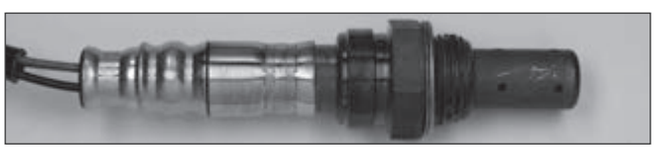
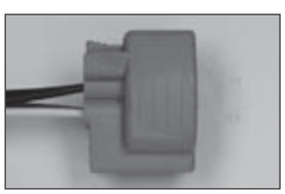
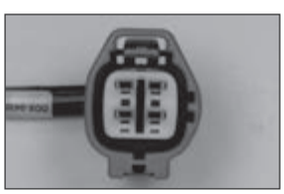
DOX-0428
4 WIRES - WIRE LENGTH 300mm

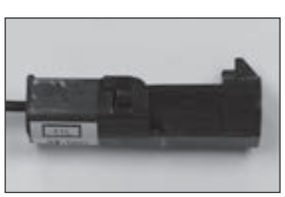
DOX-0429
4 WIRES - WIRE LENGTH 480mm

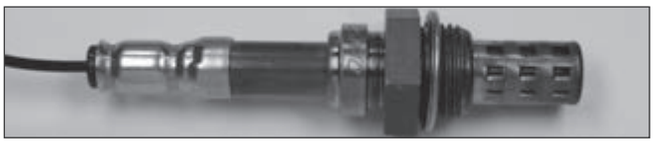
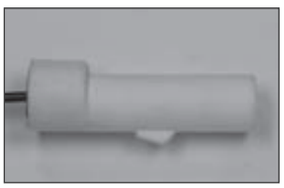
DOX-0430
4 WIRES - WIRE LENGTH 450mm

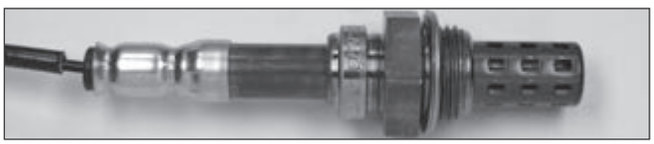
DOX-1000
1 WIRE - WIRE LENGTH 370mm



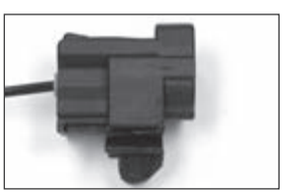
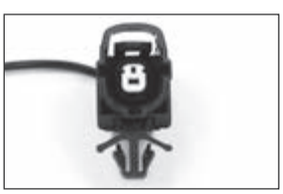
DOX-1003
1 WIRE - WIRE LENGTH 780mm

DOX-1004
1 WIRE - WIRE LENGTH 478mm



DOX-1005
1 WIRE - WIRE LENGTH 478mm

DOX-1006
1 WIRE - WIRE LENGTH 554mm

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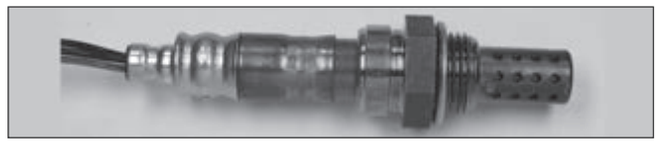
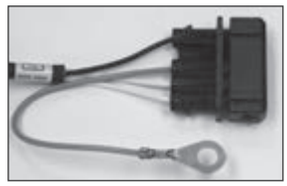
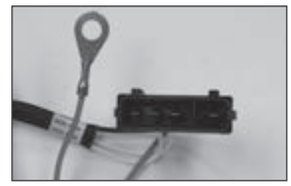
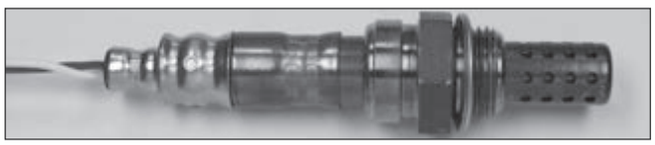
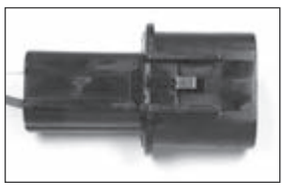
DOX-1008
1 WIRE - WIRE LENGTH 249mm

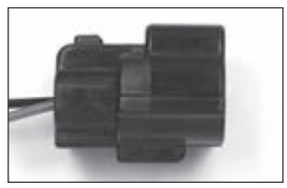
DOX-1025
3 WIRES - WIRE LENGTH 580mm

DOX-1016
2 WIRES - WIRE LENGTH 415mm

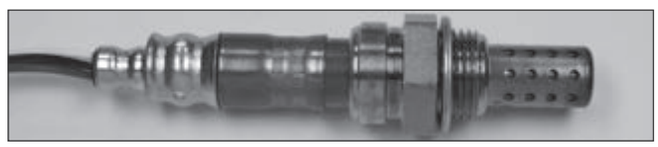
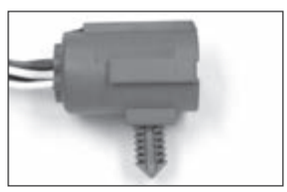
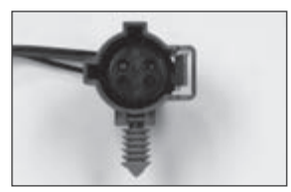



DOX-1031
3 WIRES - WIRE LENGTH 376mm

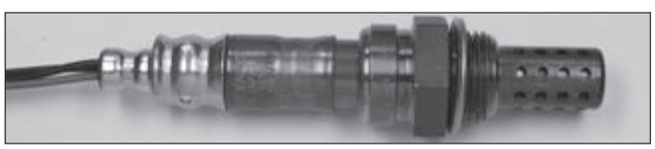
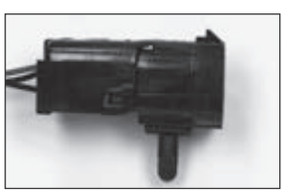


DOX-1023
3 WIRES - WIRE LENGTH 605mm

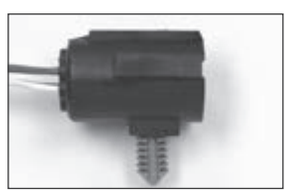
DOX-1053
4 WIRES - WIRE LENGTH 430mm

DOX-1024
3 WIRES - WIRE LENGTH 325mm

DOX-1055
4 WIRES - WIRE LENGTH 272mm



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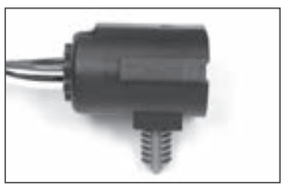
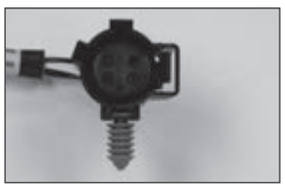
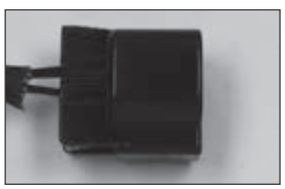
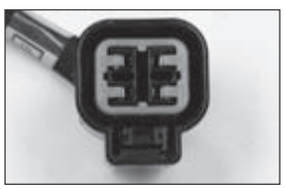
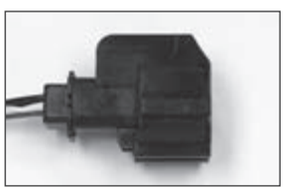
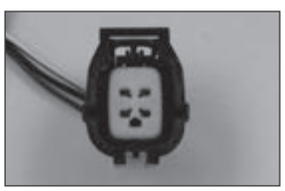
DOX-1056
4 WIRES - WIRE LENGTH 520mm

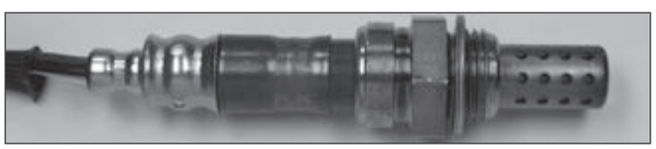
DOX-1060
4 WIRES - WIRE LENGTH 325mm

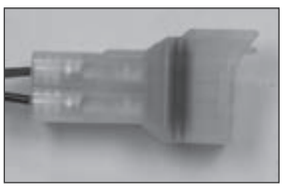
DOX-1061
4 WIRES - WIRE LENGTH 300mm

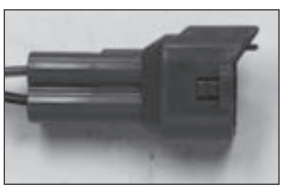
DOX-1063
4 WIRES - WIRE LENGTH 325mm



DOX-1064
4 WIRES - WIRE LENGTH 625mm

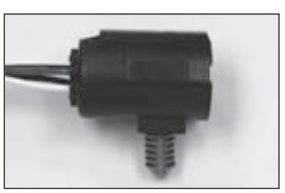
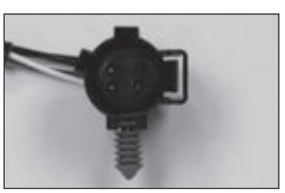


DOX-1068
4 WIRES - WIRE LENGTH 380mm



DOX-1070
4 WIRES - WIRE LENGTH 540mm

DOX-1076
4 WIRES - WIRE LENGTH 365mm

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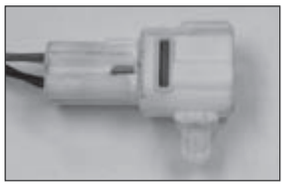
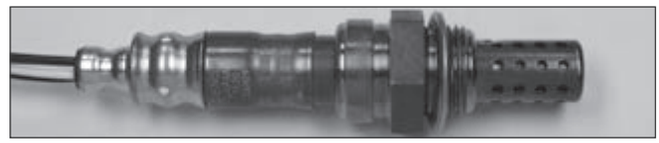
DOX-1077

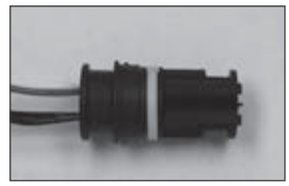
4 WIRES - WIRE LENGTH 605mm



DOX-1098

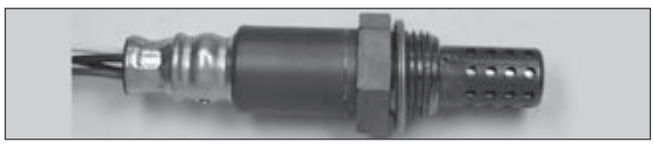
4 WIRES - WIRE LENGTH 265mm

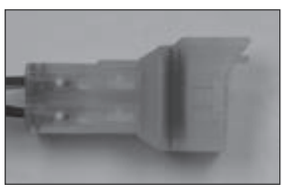




DOX-1087

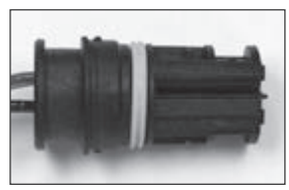
4 WIRES - WIRE LENGTH 340mm

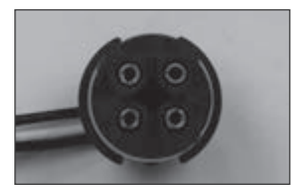




DOX-1099

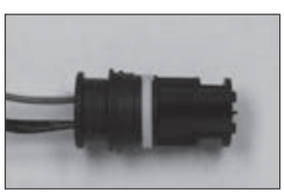
4 WIRES - WIRE LENGTH 655mm





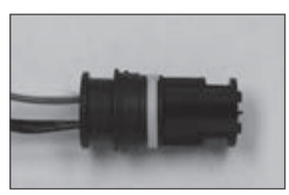
DOX-1093

4 WIRES - WIRE LENGTH 465mm



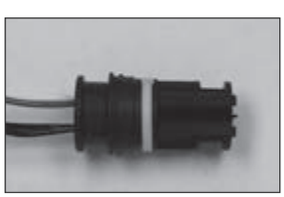
DOX-1100

4 WIRES - WIRE LENGTH 375mm



DOX-1097

4 WIRES - WIRE LENGTH 595mm



DOX-1102

4 WIRES - WIRE LENGTH 535mm

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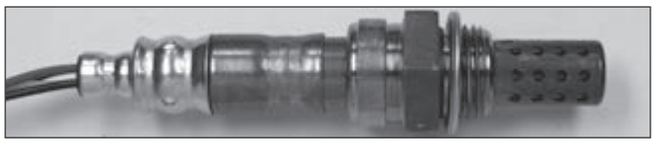
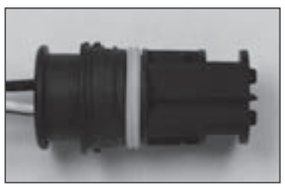
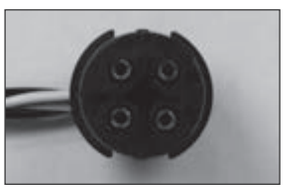
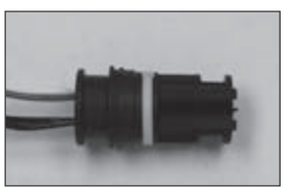
DOX-1103
4 WIRES - WIRE LENGTH 595mm

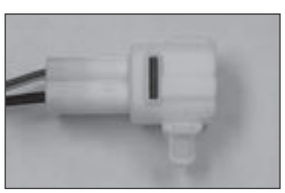
DOX-1104
4 WIRES - WIRE LENGTH 320mm



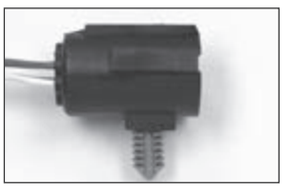
DOX-1105
4 WIRES - WIRE LENGTH 815mm



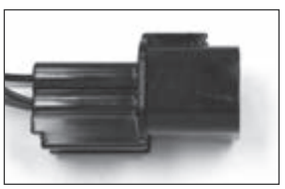
DOX-1108
4 WIRES - WIRE LENGTH 630mm



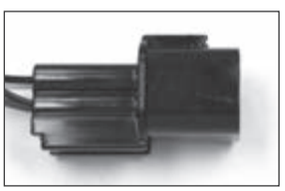
DOX-1157
4 WIRES - WIRE LENGTH 830mm



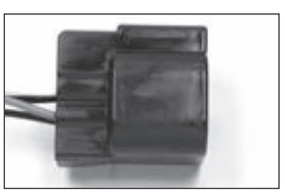
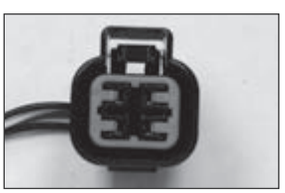
DOX-1160
4 WIRES - WIRE LENGTH 757mm



DOX-1161
4 WIRES - WIRE LENGTH 579mm

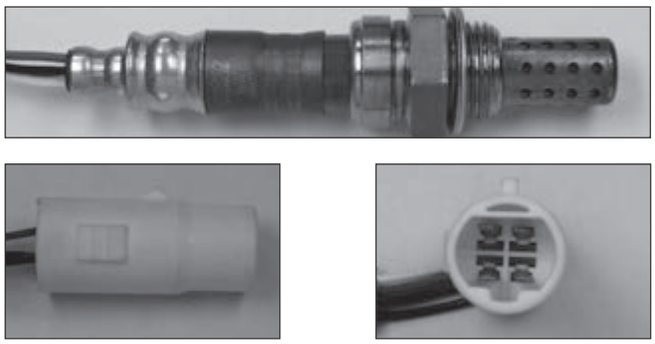


DOX-1163
4 WIRES - WIRE LENGTH 320mm

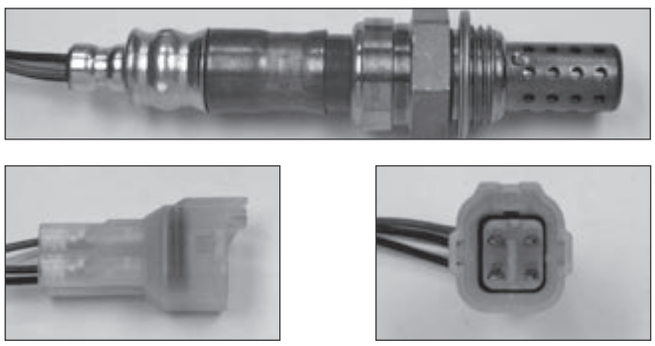
DOX-1167

4 WIRES - WIRE LENGTH 445mm



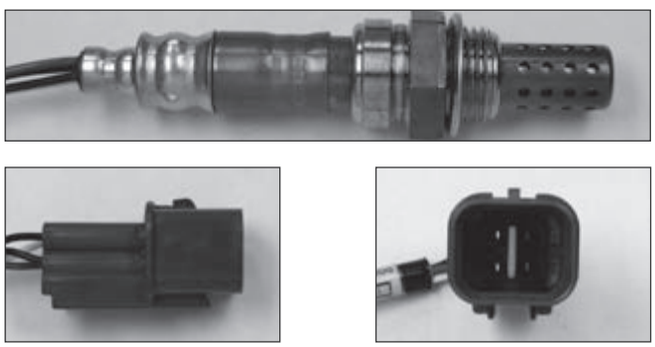
DOX-1169

4 WIRES - WIRE LENGTH 630mm



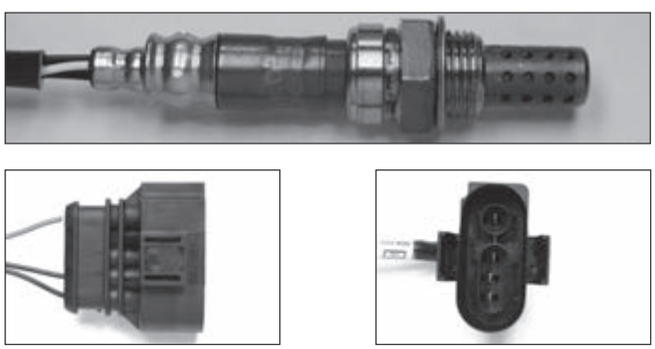
DOX-1170

4 WIRES - WIRE LENGTH 740mm



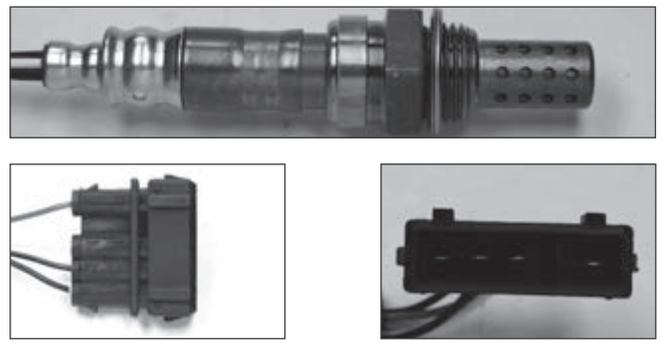
DOX-1171

4 WIRES - WIRE LENGTH 785mm



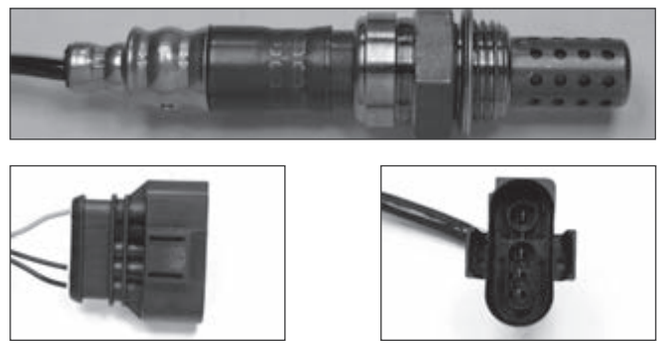
DOX-1172

4 WIRES - WIRE LENGTH 620mm



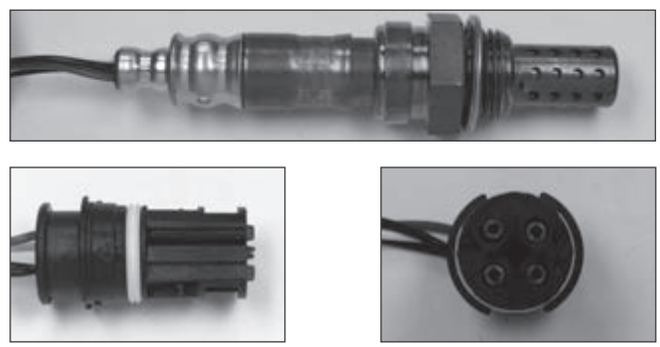
DOX-1173

4 WIRES - WIRE LENGTH 1330mm



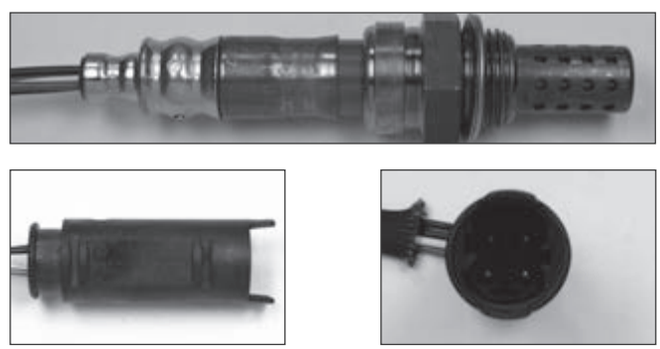
DOX-1174

4 WIRES - WIRE LENGTH 340mm



DOX-1175

4 WIRES - WIRE LENGTH 985mm



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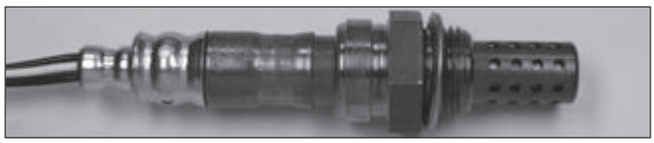
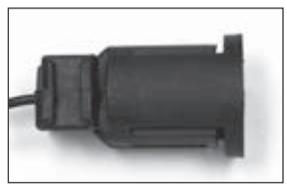
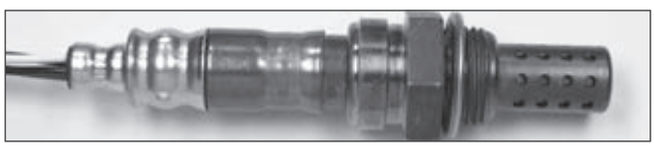
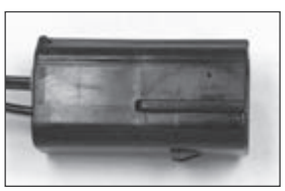
DOX-1176
4 WIRES - WIRE LENGTH 385mm



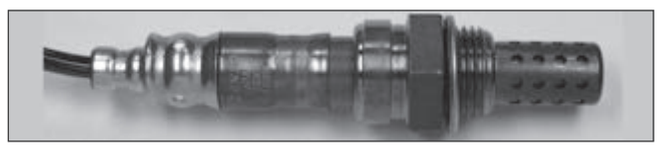
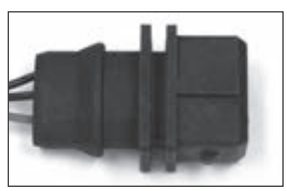
DOX-1310
1 WIRE - WIRE LENGTH 230mm



DOX-1177
4 WIRES - WIRE LENGTH 535mm

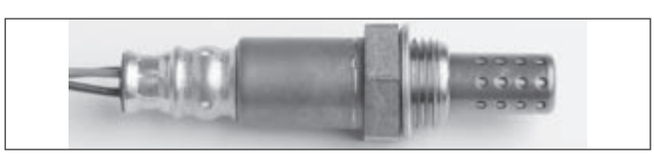
DOX-1311
3 WIRES - WIRE LENGTH 986mm

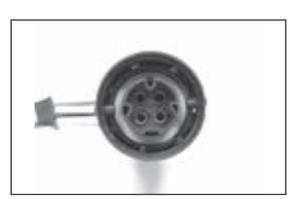
DOX-1183
4 WIRES - WIRE LENGTH 975mm

DOX-1314
4 WIRES - WIRE LENGTH 1145mm

DOX-1196
4 WIRES - WIRE LENGTH 540mm



DOX-1317
4 WIRES - WIRE LENGTH 395mm



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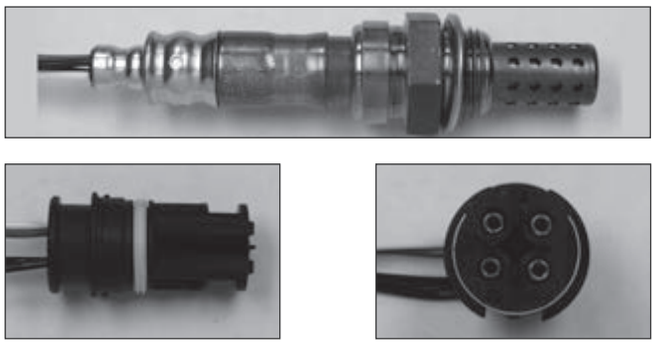
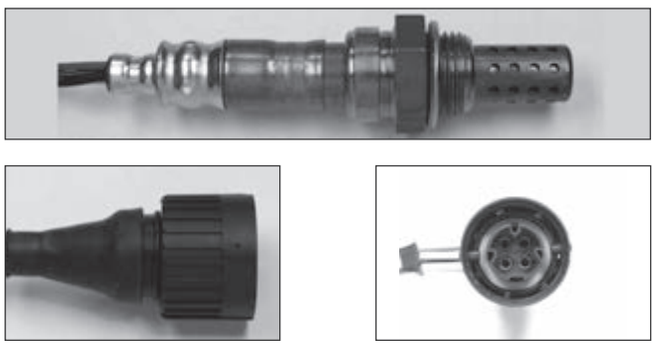
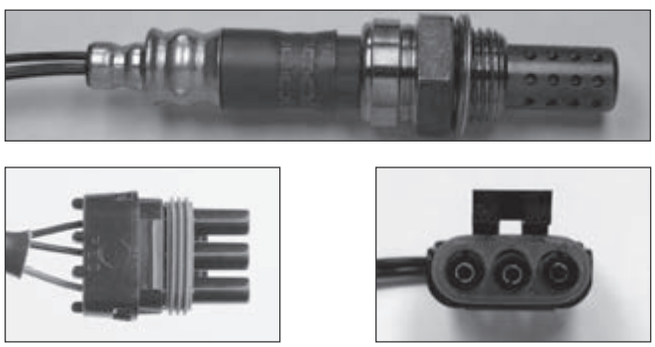
DOX-1318
4 WIRES - WIRE LENGTH 455mm



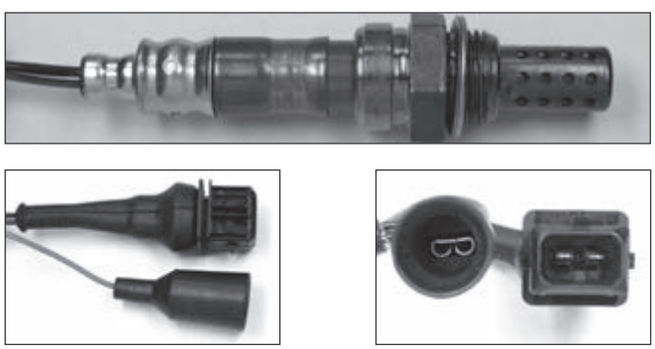
DOX-1319
4 WIRES - WIRE LENGTH 235mm



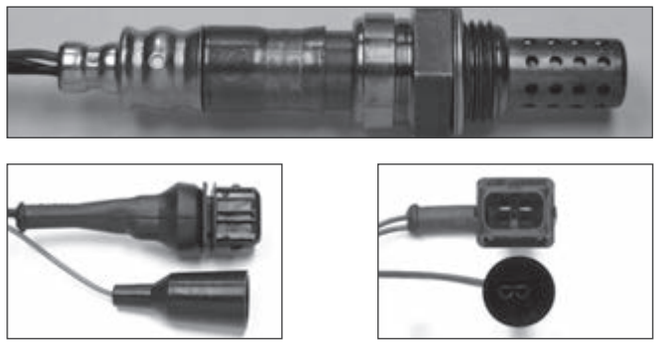
DOX-1350
3 WIRES - WIRE LENGTH 330mm



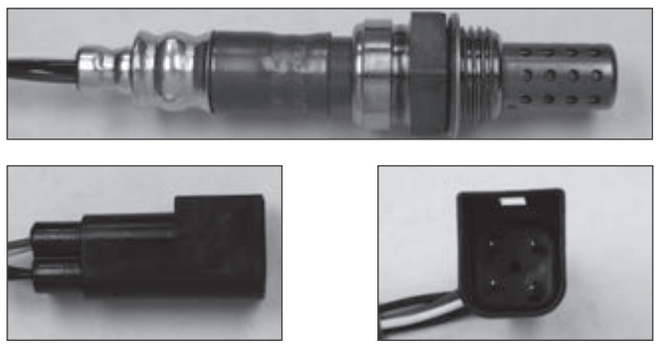
DOX-1351
3 WIRES - WIRE LENGTH 986mm



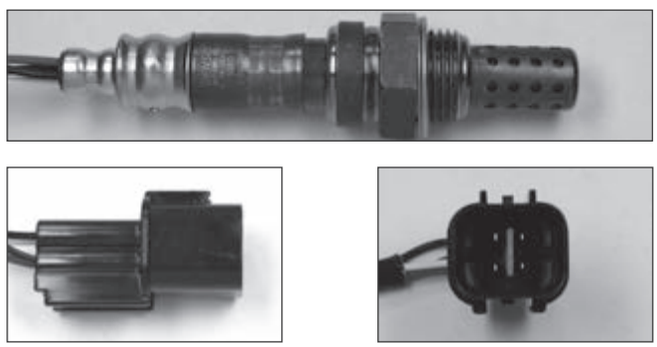
DOX-1352
3 WIRES - WIRE LENGTH 521mm



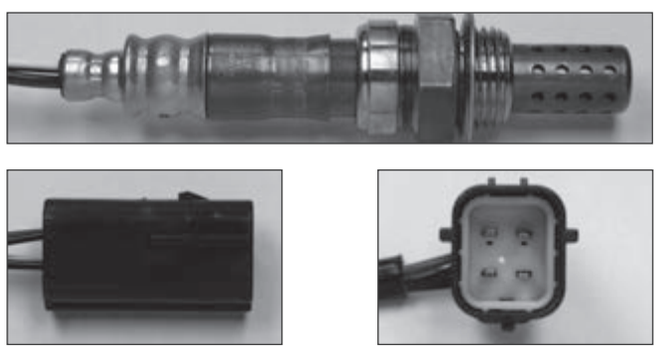
DOX-1353
4 WIRES - WIRE LENGTH 630mm



DOX-1354
4 WIRES - WIRE LENGTH 820mm

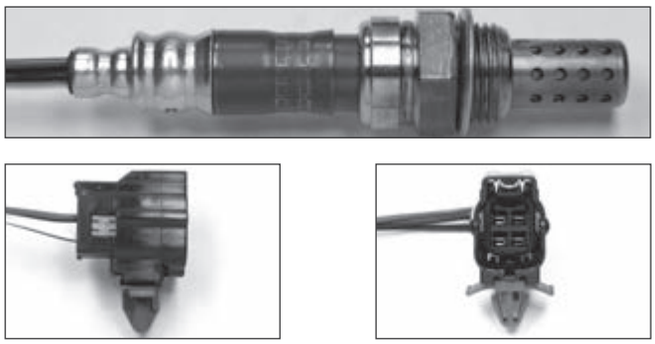


DOX-1355
4 WIRES - WIRE LENGTH 1000mm



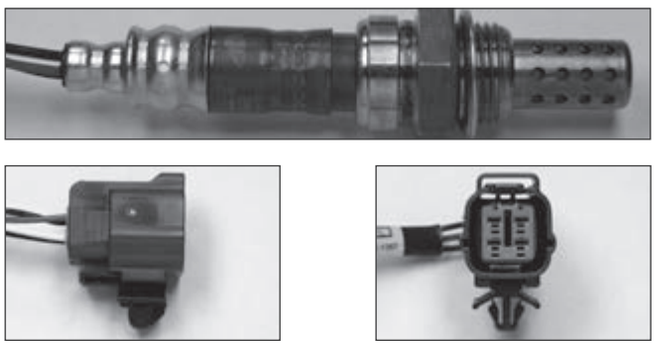
DOX-1356

4 WIRES - WIRE LENGTH 640mm



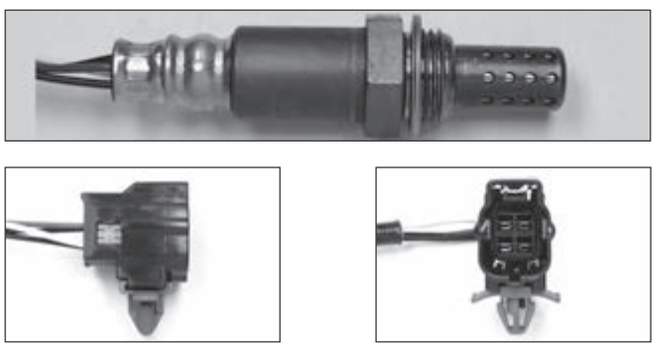
DOX-1357

4 WIRES - WIRE LENGTH 660mm



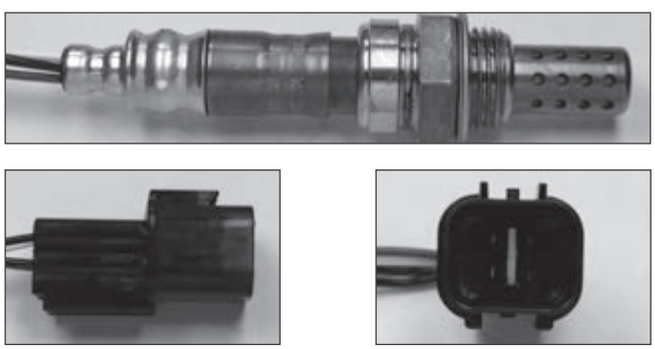
DOX-1358

4 WIRES - WIRE LENGTH 310mm



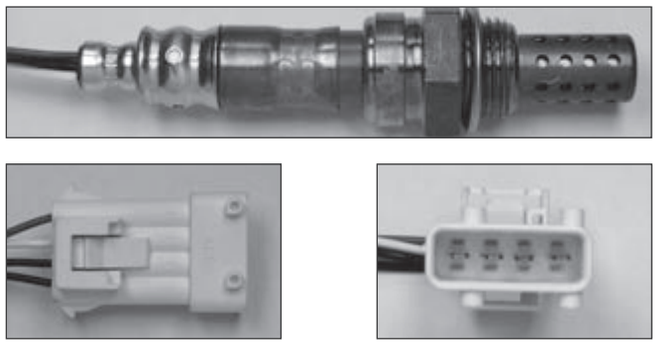
DOX-1359

4 WIRES - WIRE LENGTH 530mm



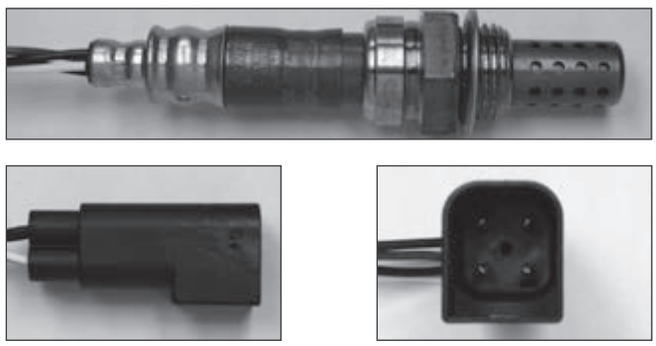
DOX-1360

4 WIRES - WIRE LENGTH 555mm



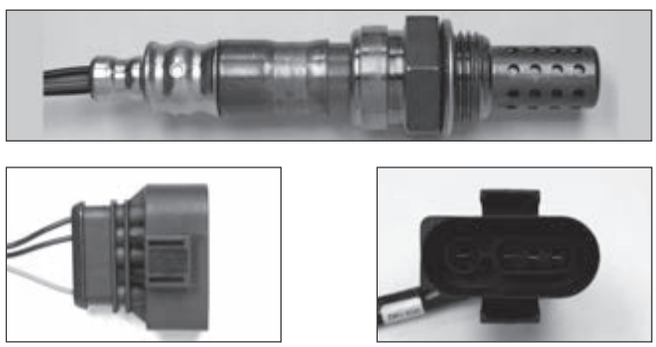
DOX-1361

4 WIRES - WIRE LENGTH 376mm



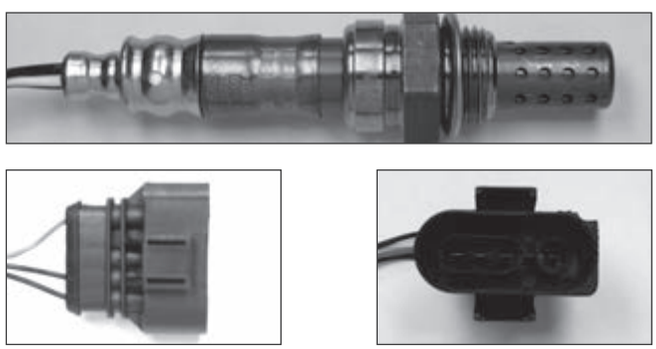
DOX-1362

4 WIRES - WIRE LENGTH 1225mm



DOX-1363

4 WIRES - WIRE LENGTH 1700mm



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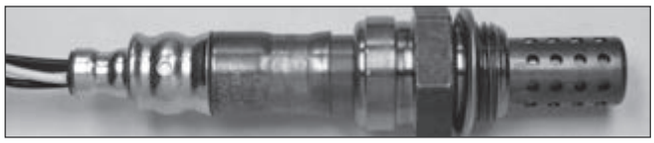
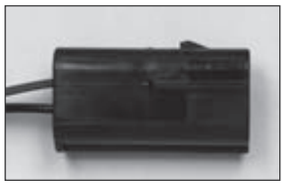
DOX-1364

4 WIRES - WIRE LENGTH 790mm

DOX-1365

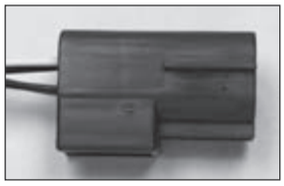
4 WIRES - WIRE LENGTH 410mm

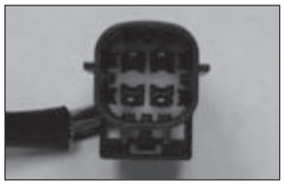




DOX-1366

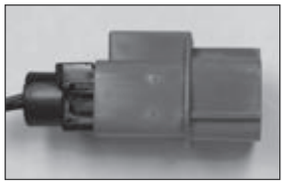
4 WIRES - WIRE LENGTH 270mm





DOX-1367

4 WIRES - WIRE LENGTH 290mm



DOX-1368

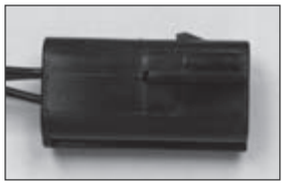
4 WIRES - WIRE LENGTH 990mm

DOX-1369

4 WIRES - WIRE LENGTH 1420mm

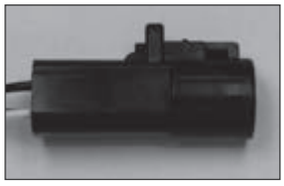
DOX-1370

4 WIRES - WIRE LENGTH 300mm



DOX-1371

4 WIRES - WIRE LENGTH 460mm



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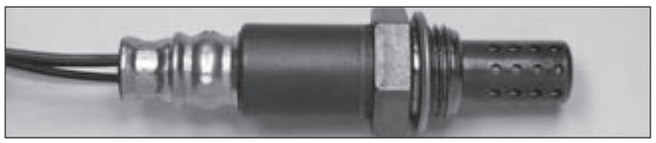
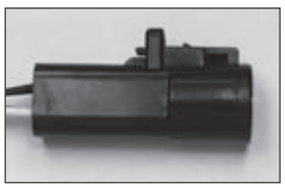
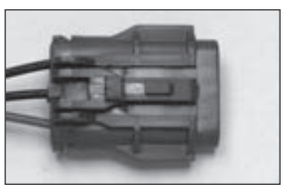
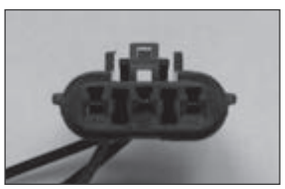
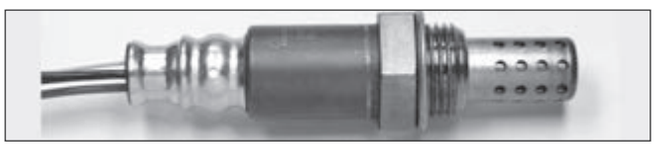
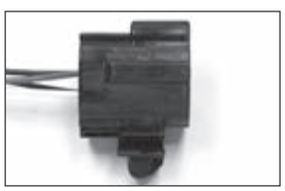
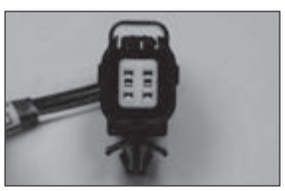
DOX-1372
4 WIRES - WIRE LENGTH 480mm

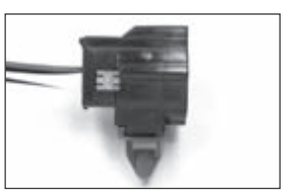
DOX-1373
3 WIRES - WIRE LENGTH 435mm

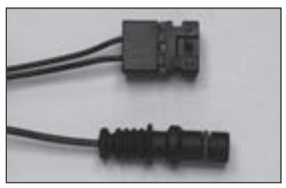
DOX-1374
4 WIRES - WIRE LENGTH 595mm

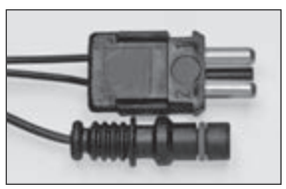
DOX-1375
4 WIRES - WIRE LENGTH 326mm



DOX-1376
3 WIRES - WIRE LENGTH 755mm

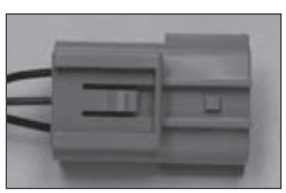


DOX-1377
3 WIRES - WIRE LENGTH 330mm



DOX-1378
3 WIRES - WIRE LENGTH 380mm

DOX-1379
3 WIRES - WIRE LENGTH 390mm



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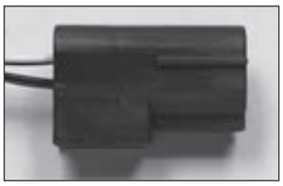
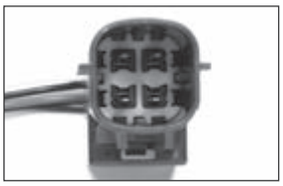
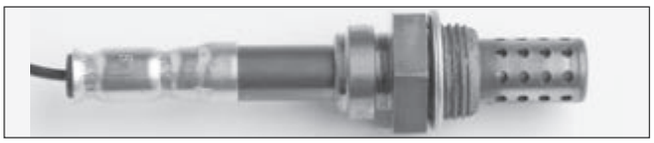
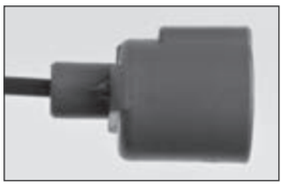
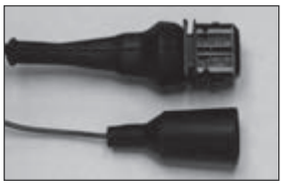
DOX-1380
4 WIRES - WIRE LENGTH 370mm

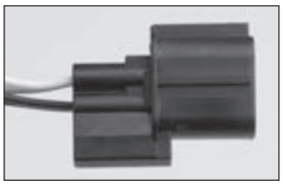
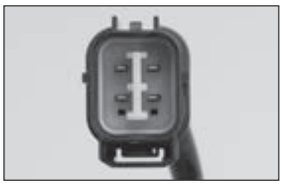
DOX-1405
1 WIRE - WIRE LENGTH 430mm

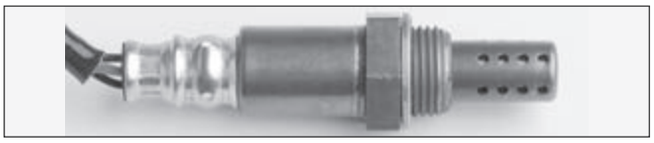
DOX-1381
3 WIRES - WIRE LENGTH 710mm



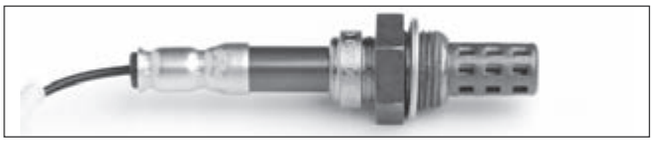
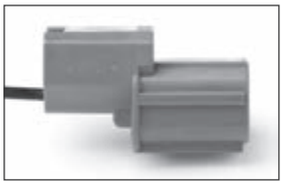
DOX-1409
4 WIRES - WIRE LENGTH 340mm

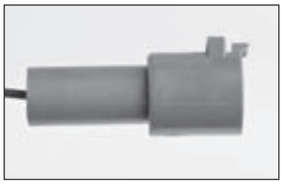
DOX-1403
4 WIRES - WIRE LENGTH 200mm



DOX-1411
1 WIRE - WIRE LENGTH 410mm

DOX-1404
1 WIRE - WIRE LENGTH 300mm



DOX-1415
4 WIRES - WIRE LENGTH 315mm

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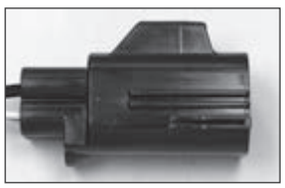
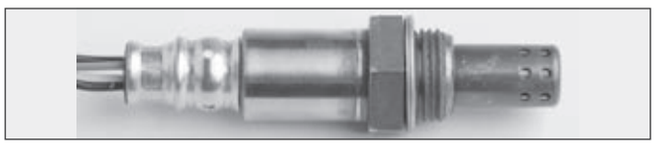
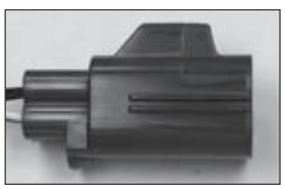
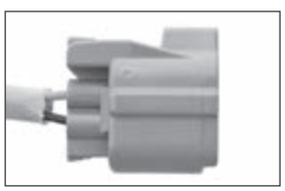
DOX-1419
4 WIRES - WIRE LENGTH 620mm



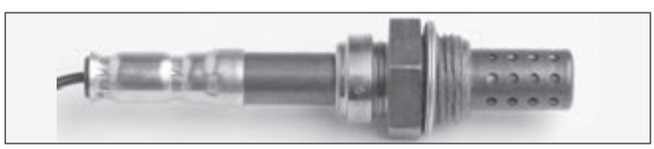
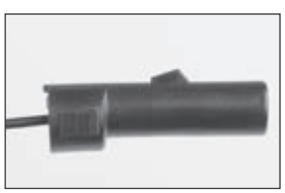
DOX-1420
4 WIRES - WIRE LENGTH 800mm

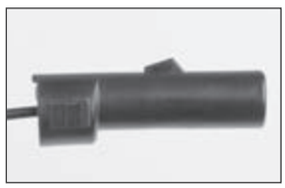
DOX-1424
4 WIRES - WIRE LENGTH 610mm



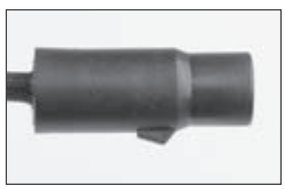
DOX-1430
1 WIRE - WIRE LENGTH 750mm

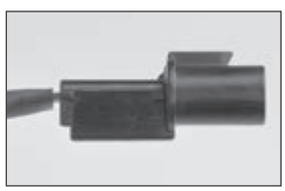
DOX-1431
1 WIRE - WIRE LENGTH 445mm



DOX-1432
2 WIRES - WIRE LENGTH 730mm



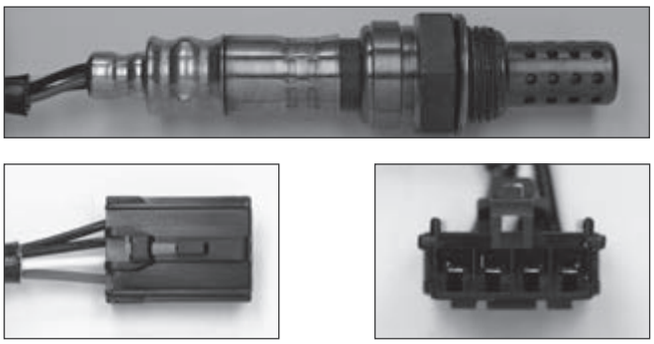
DOX-1433
2 WIRES - WIRE LENGTH 650mm



DOX-1435
4 WIRES - WIRE LENGTH 670mm

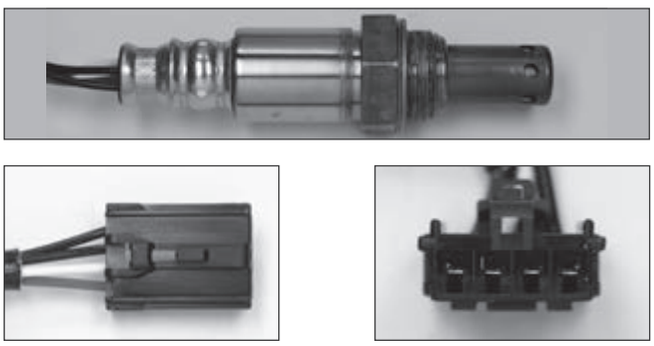
DOX-1436

4 WIRES - WIRE LENGTH 780mm



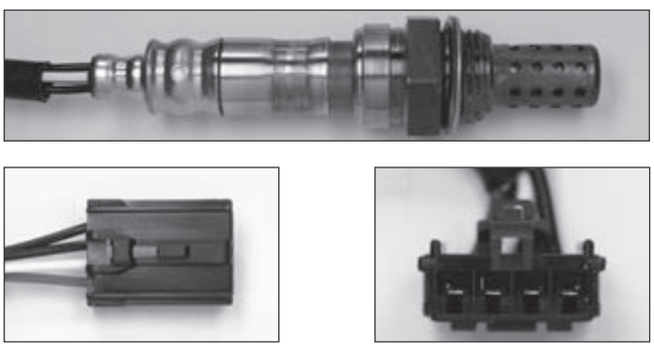
DOX-1437

4 WIRES - WIRE LENGTH 420mm



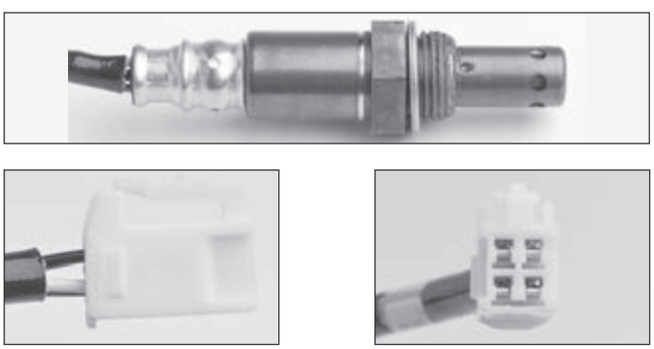
DOX-1438

4 WIRES - WIRE LENGTH 400mm



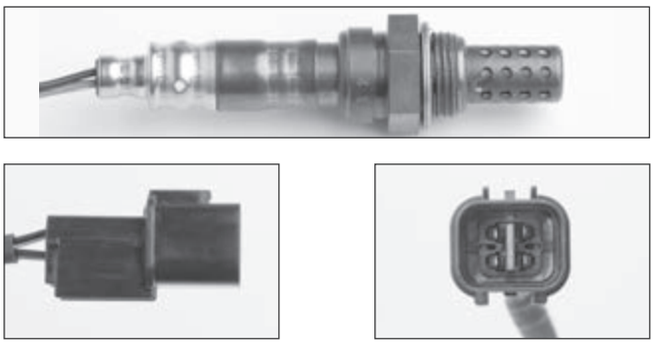
DOX-1439

4 WIRES - WIRE LENGTH 610mm



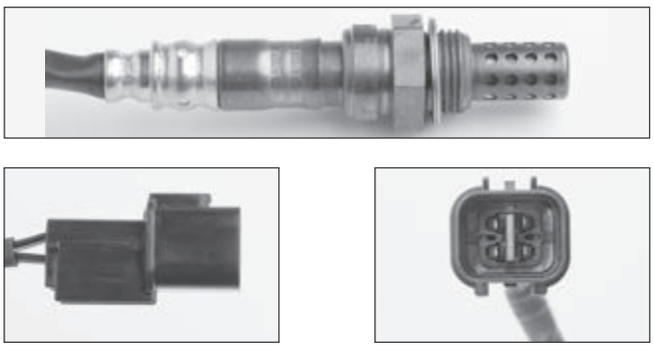
DOX-1440

4 WIRES - WIRE LENGTH 980mm



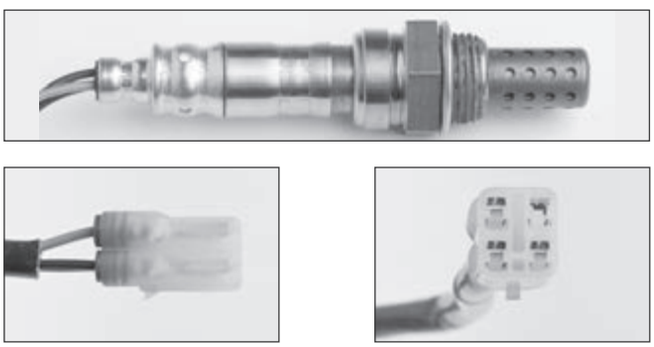
DOX-1441

4 WIRES - WIRE LENGTH 440mm



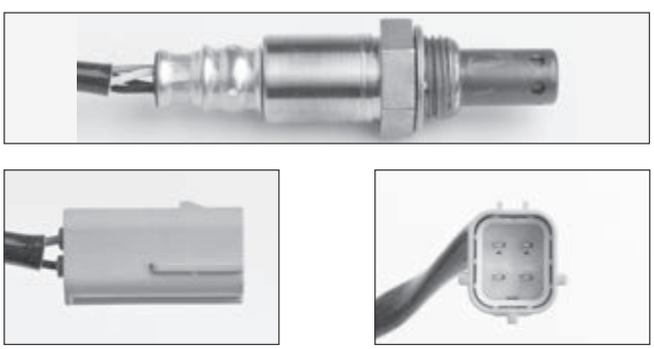
DOX-1446

3 WIRES - WIRE LENGTH 440mm



DOX-1447

4 WIRES - WIRE LENGTH 370mm



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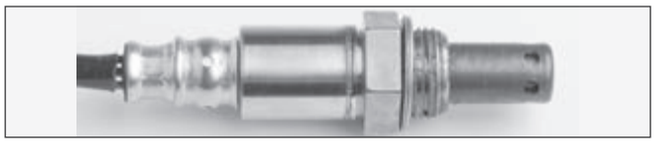
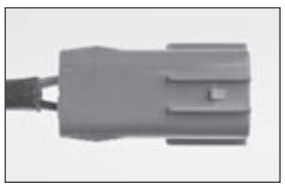
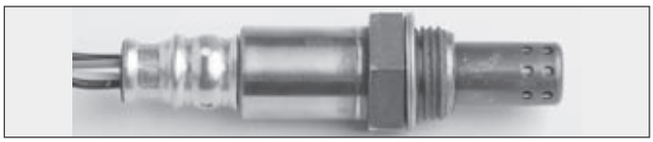
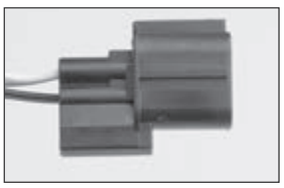
DOX-1448
4 WIRES - WIRE LENGTH 780mm

DOX-1454
4 WIRES - WIRE LENGTH 265mm

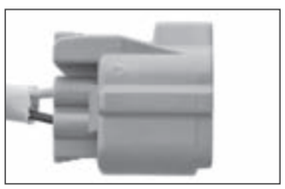
DOX-1449
4 WIRES - WIRE LENGTH 540mm

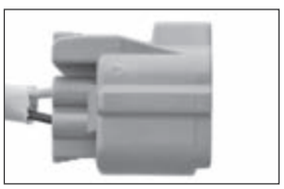
DOX-1455
4 WIRES - WIRE LENGTH 340mm

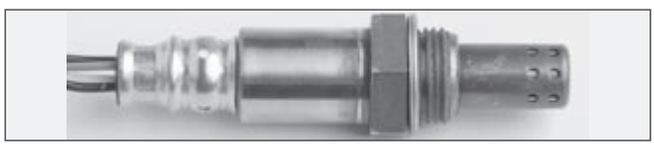
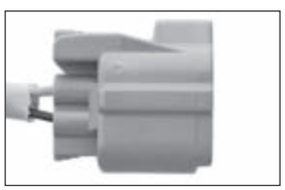
DOX-1452
4 WIRES - WIRE LENGTH 335mm



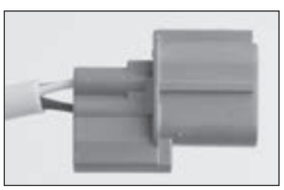
DOX-1456
4 WIRES - WIRE LENGTH 840mm



DOX-1453
4 WIRES - WIRE LENGTH 535mm

DOX-1457
4 WIRES - WIRE LENGTH 260mm



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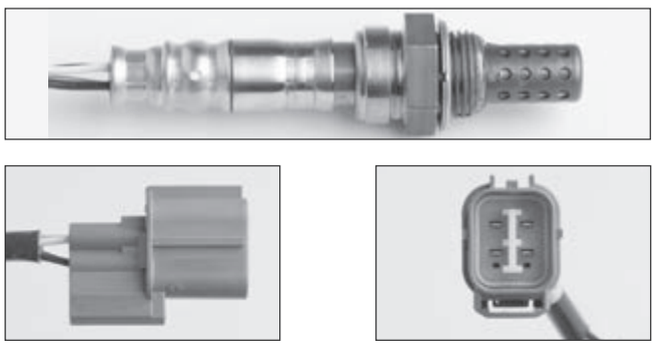
DOX-1458

4 WIRES - WIRE LENGTH 340mm

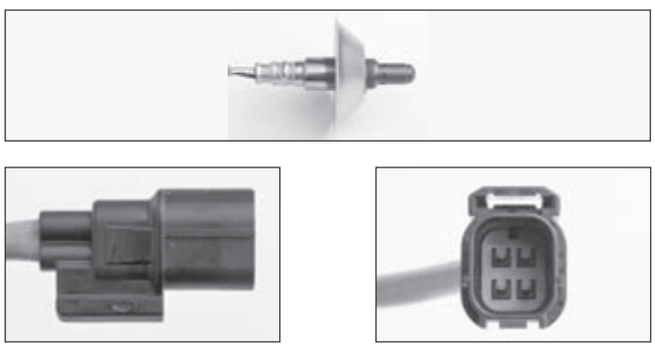
DOX-1459

4 WIRES - WIRE LENGTH 480mm



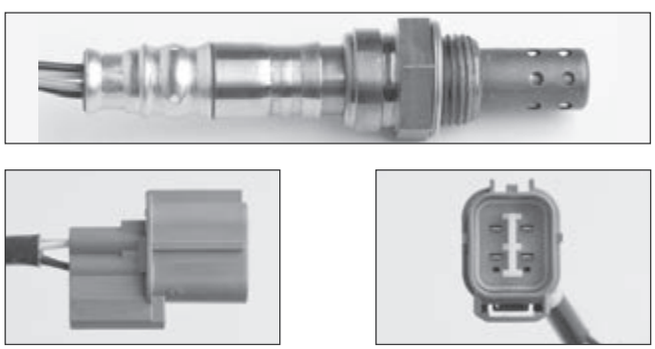
DOX-1460

4 WIRES - WIRE LENGTH 263mm



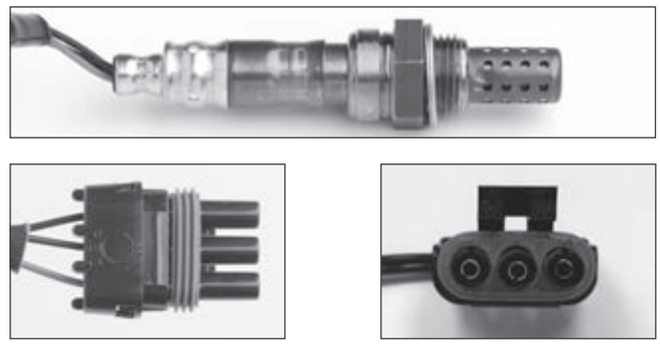
DOX-1461

4 WIRES - WIRE LENGTH 260mm



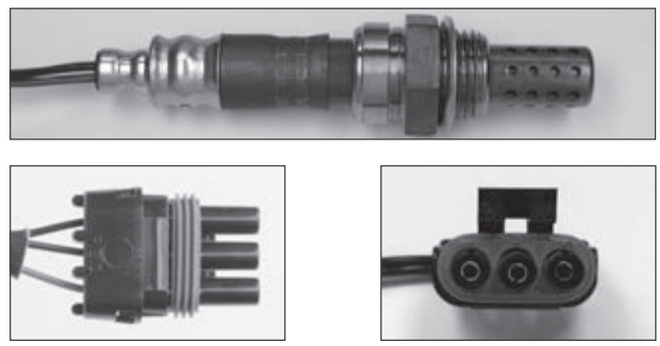
DOX-1500

3 WIRES - WIRE LENGTH 1220mm



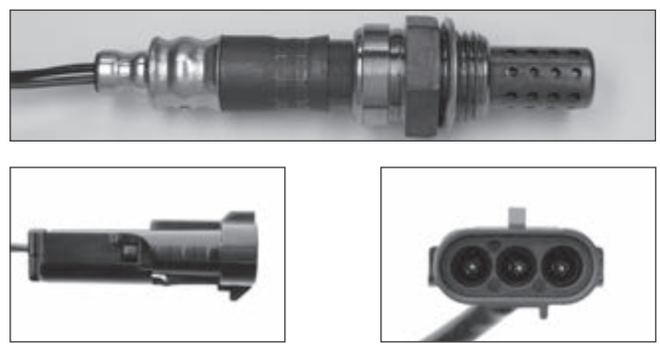
DOX-1501

3 WIRES - WIRE LENGTH 375mm



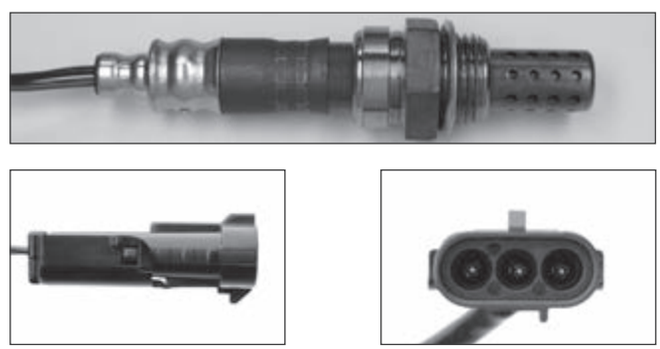
DOX-1502

3 WIRES - WIRE LENGTH 183mm



DOX-1503

3 WIRES - WIRE LENGTH 385mm



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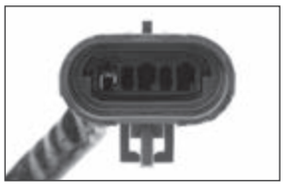
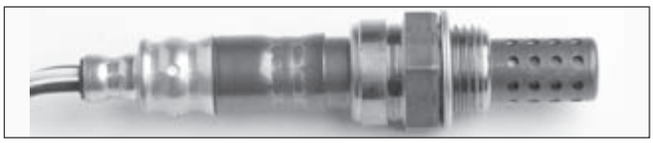
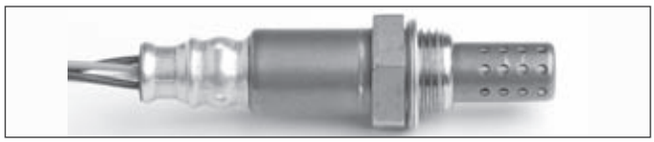
DOX-1504
1 WIRE - WIRE LENGTH 315mm



DOX-1537
4 WIRES - WIRE LENGTH 545mm

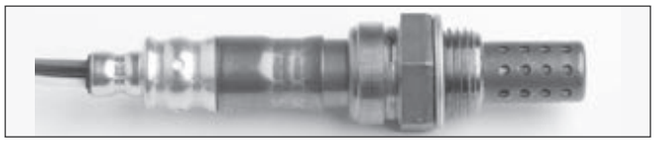


DOX-1534
4 WIRES - WIRE LENGTH 540mm



DOX-1538
4 WIRES - WIRE LENGTH 535mm

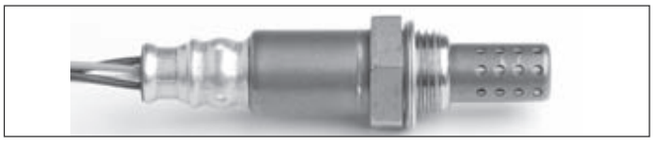
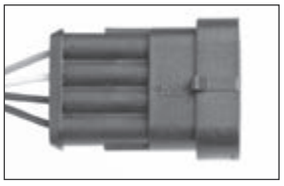
DOX-1535
4 WIRES - WIRE LENGTH 540mm



DOX-1539
4 WIRES - WIRE LENGTH 1830mm

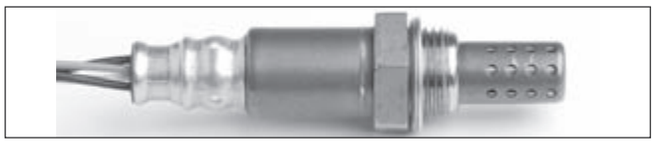
DOX-1536
4 WIRES - WIRE LENGTH 1485mm

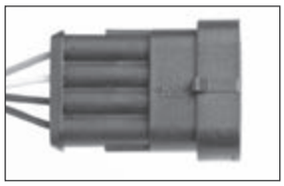
DOX-1541
4 WIRES - WIRE LENGTH 260mm

DOX-1542

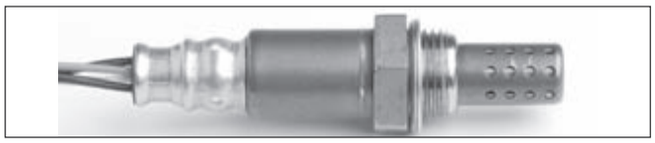
4 WIRES - WIRE LENGTH 610mm

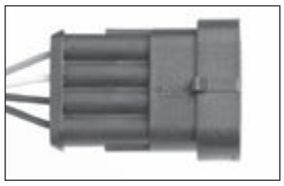




DOX-1543

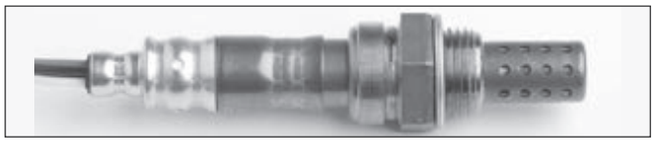
4 WIRES - WIRE LENGTH 980mm

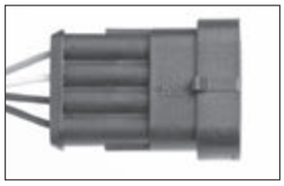




DOX-1544

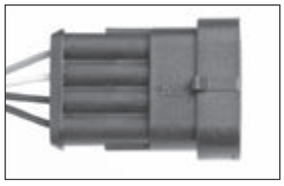
4 WIRES - WIRE LENGTH 375mm





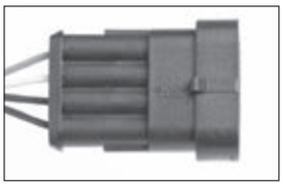
DOX-1545

4 WIRES - WIRE LENGTH 1175mm



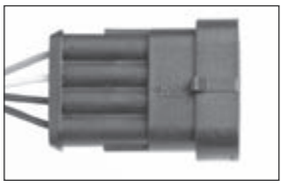
DOX-1546

4 WIRES - WIRE LENGTH 975mm



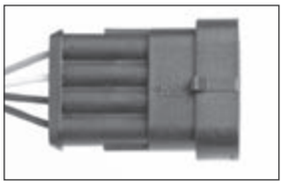
DOX-1547

4 WIRES - WIRE LENGTH 400mm



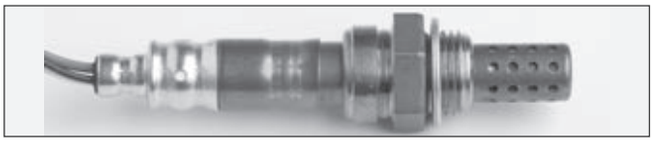
DOX-1548

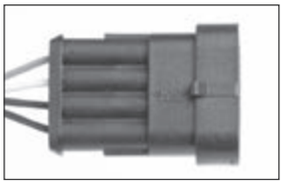
4 WIRES - WIRE LENGTH 610mm



DOX-1549

4 WIRES - WIRE LENGTH 980mm





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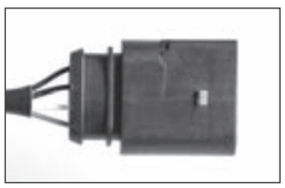
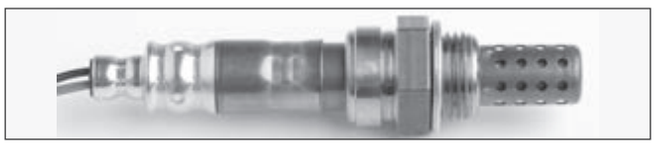
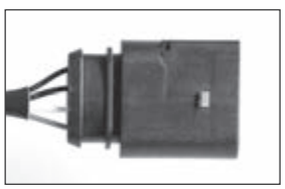
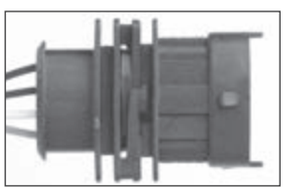
DOX-1551
4 WIRES - WIRE LENGTH 705mm



DOX-1552
4 WIRES - WIRE LENGTH 990mm

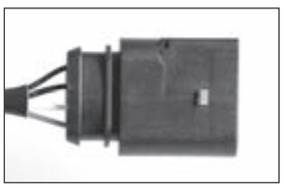



DOX-1553
4 WIRES - WIRE LENGTH 515mm

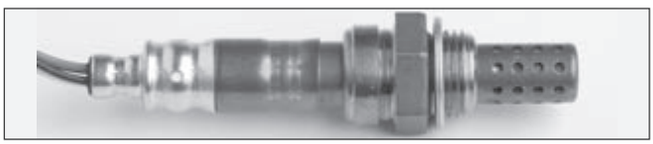
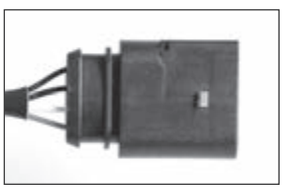


DOX-1556
2 WIRES - WIRE LENGTH 375mm

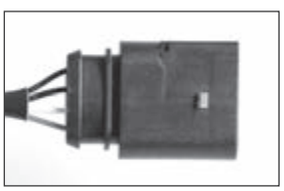
DOX-1559
4 WIRES - WIRE LENGTH 255mm



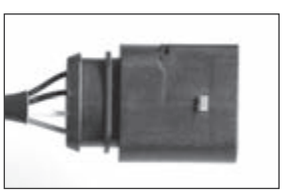
DOX-1560
4 WIRES - WIRE LENGTH 530mm

DOX-1561
4 WIRES - WIRE LENGTH 475mm

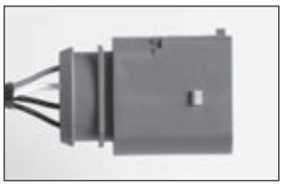


DOX-1562
4 WIRES - WIRE LENGTH 1710mm



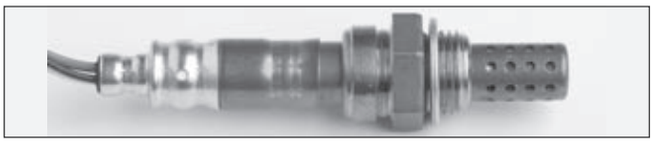
DOX-1564

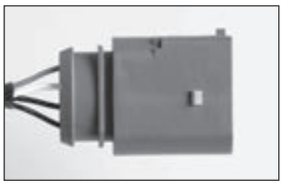
4 WIRES - WIRE LENGTH 545mm



DOX-1565

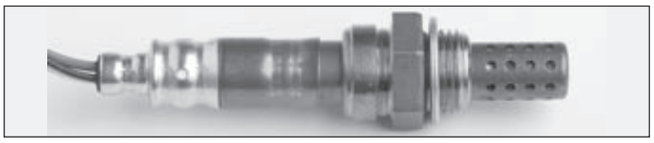
4 WIRES - WIRE LENGTH 235mm

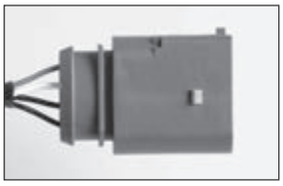




DOX-1566

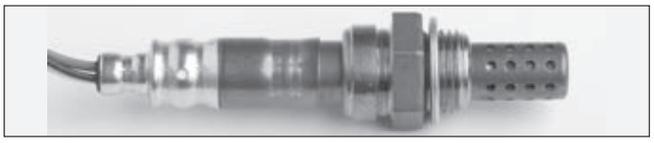
4 WIRES - WIRE LENGTH 775mm

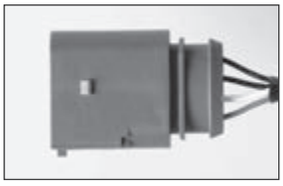




DOX-1567

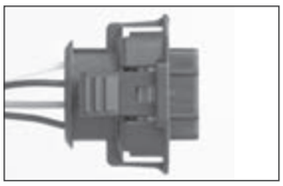
4 WIRES - WIRE LENGTH 1325mm





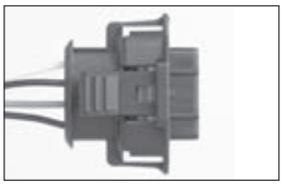
DOX-1568

4 WIRES - WIRE LENGTH 275mm



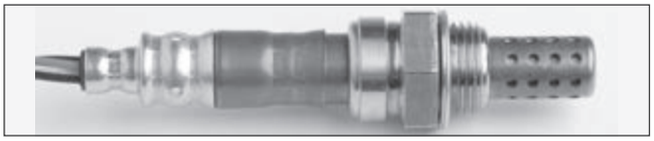
DOX-1569

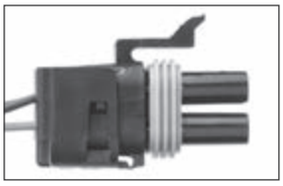
4 WIRES - WIRE LENGTH 740mm



DOX-1572

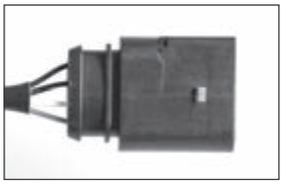
4 WIRES - WIRE LENGTH 255mm





DOX-1573

4 WIRES - WIRE LENGTH 480mm



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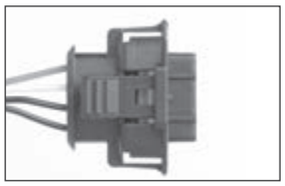
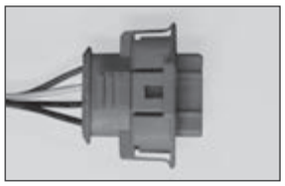
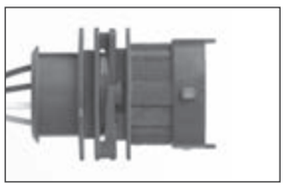
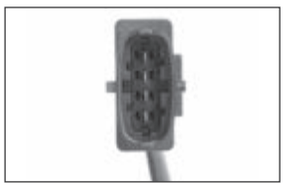
DOX-1574
4 WIRES - WIRE LENGTH 290mm



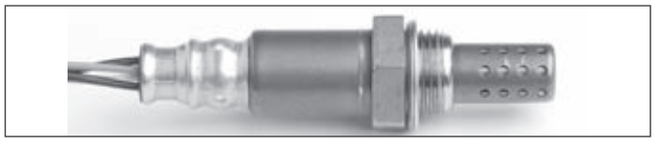
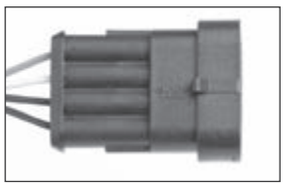
DOX-1575
4 WIRES - WIRE LENGTH 290mm



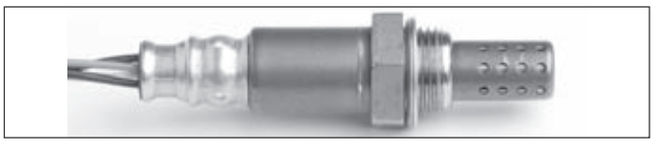
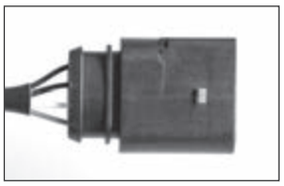
DOX-1576
4 WIRES - WIRE LENGTH 775mm

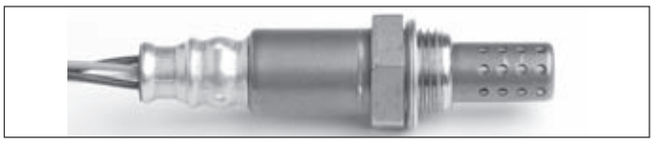
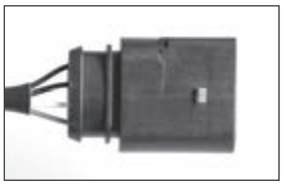
DOX-1586

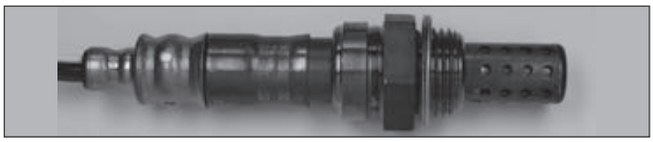
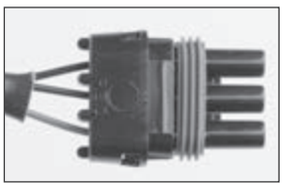
DOX-1588
4 WIRES - WIRE LENGTH 605mm

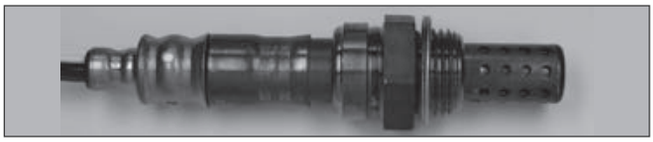
DOX-1589
4 WIRES - WIRE LENGTH 1055mm

DOX-1593
3 WIRES - WIRE LENGTH 535mm

DOX-1594
3 WIRES - WIRE LENGTH 685mm



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DOX-1598

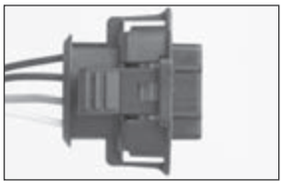
4 WIRES - WIRE LENGTH 320mm

DOX-1599

4 WIRES - WIRE LENGTH 310mm

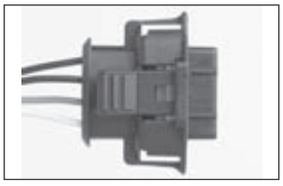
DOX-1617

4 WIRES - WIRE LENGTH 1245mm



DOX-1618

4 WIRES - WIRE LENGTH 550mm

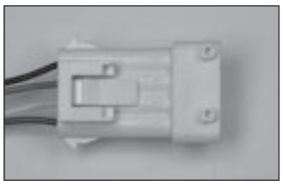


DOX-2000

4 WIRES - WIRE LENGTH 650mm

DOX-2001

4 WIRES - WIRE LENGTH 650mm

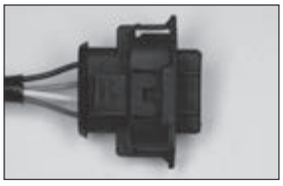


DOX-2002

4 WIRES - WIRE LENGTH 470mm

DOX-2003

4 WIRES - WIRE LENGTH 575mm



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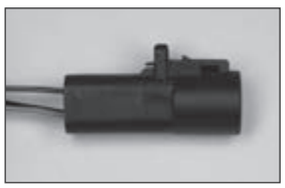
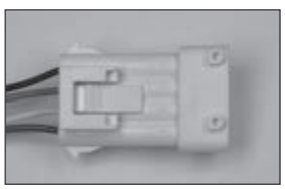
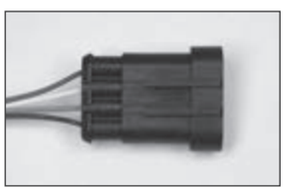
DOX-2004
4 WIRES - WIRE LENGTH 450mm



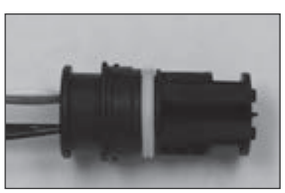
DOX-2005
4 WIRES - WIRE LENGTH 550mm



DOX-2006
4 WIRES - WIRE LENGTH 400mm

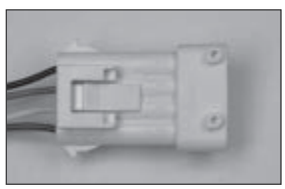


DOX-2007
4 WIRES - WIRE LENGTH 470mm

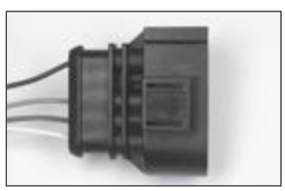


DOX-2008
4 WIRES - WIRE LENGTH 800mm

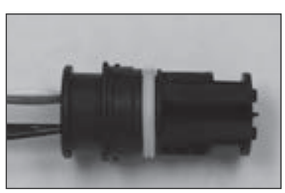
DOX-2009
4 WIRES - WIRE LENGTH 1640mm



DOX-2010
4 WIRES - WIRE LENGTH 620mm



DOX-2011
4 WIRES - WIRE LENGTH 900mm



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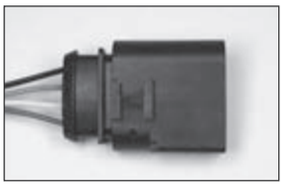
DOX-2012

4 WIRES - WIRE LENGTH 1250mm

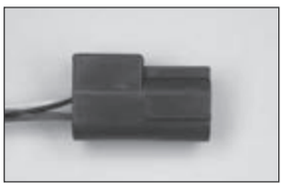


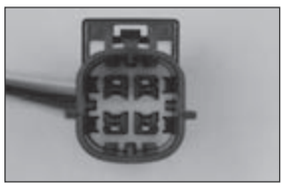
DOX-2013

4 WIRES - WIRE LENGTH 375mm

DOX-2014

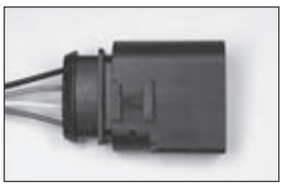
4 WIRES - WIRE LENGTH 470mm





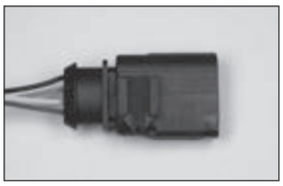
DOX-2015

4 WIRES - WIRE LENGTH 500mm



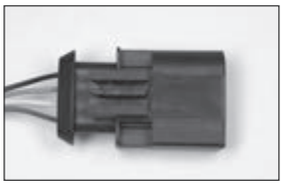
DOX-2016

4 WIRES - WIRE LENGTH 525mm



DOX-2017

4 WIRES - WIRE LENGTH 620mm

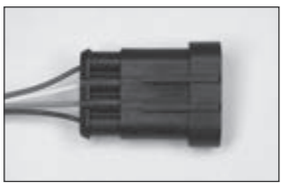


DOX-2018

4 WIRES - WIRE LENGTH 950mm

DOX-2020

4 WIRES - WIRE LENGTH 630mm



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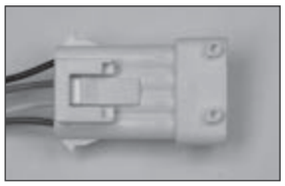
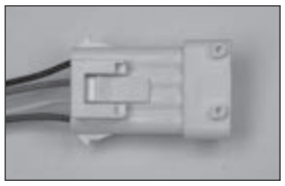
DOX-2021

4 WIRES - WIRE LENGTH 770mm



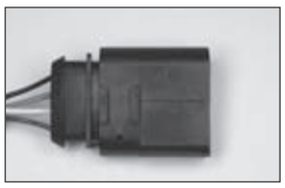
DOX-2022

4 WIRES - WIRE LENGTH 1045mm



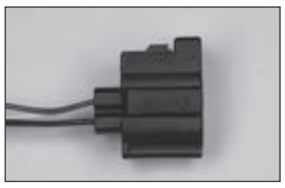
DOX-2023

4 WIRES - WIRE LENGTH 1525mm



DOX-2024

4 WIRES - WIRE LENGTH 500mm

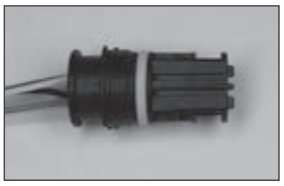


DOX-2025

4 WIRES - WIRE LENGTH 1190mm

DOX-2026

4 WIRES - WIRE LENGTH 500mm

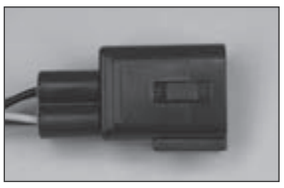


DOX-2027

4 WIRES - WIRE LENGTH 1100mm

DOX-2028

4 WIRES - WIRE LENGTH 425mm



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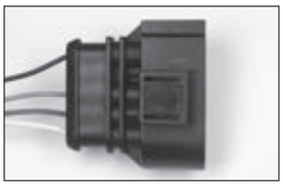
DOX-2030

4 WIRES - WIRE LENGTH 1900mm

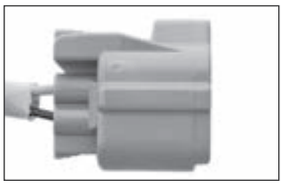
DOX-2035

4 WIRES - WIRE LENGTH 1690mm



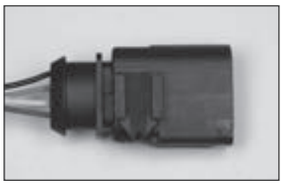
DOX-2031

4 WIRES - WIRE LENGTH 400mm



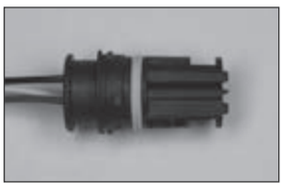
DOX-2036

4 WIRES - WIRE LENGTH 800mm



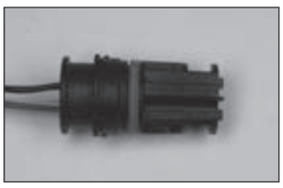
DOX-2033

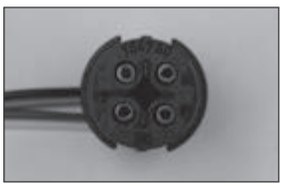
4 WIRES - WIRE LENGTH 590mm



DOX-2037

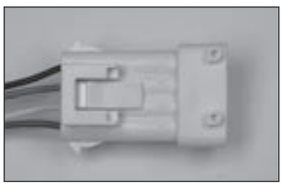
4 WIRES - WIRE LENGTH 425mm





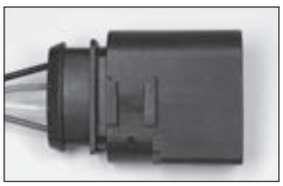
DOX-2034

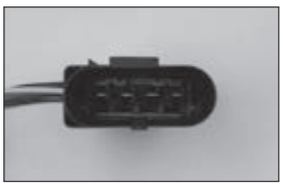
4 WIRES - WIRE LENGTH 1850mm



DOX-2038

4 WIRES - WIRE LENGTH 1700mm





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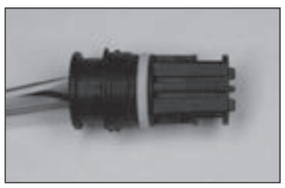
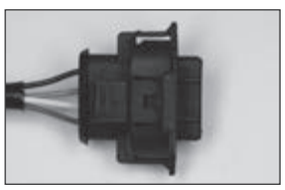
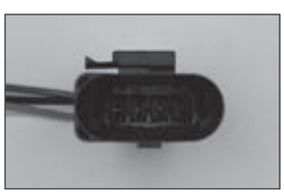
DOX-2039
4 WIRES - WIRE LENGTH 750mm



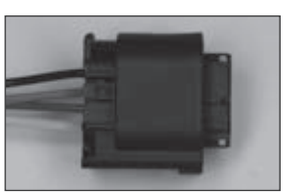
DOX-2040
4 WIRES - WIRE LENGTH 775mm



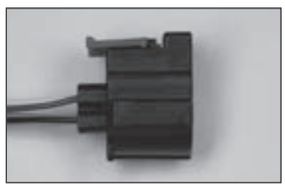
DOX-2041
4 WIRES - WIRE LENGTH 800mm



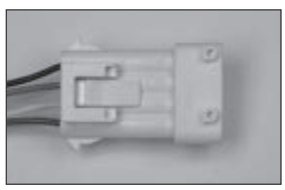
DOX-2042
4 WIRES - WIRE LENGTH 770mm



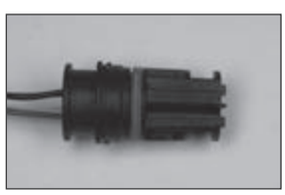
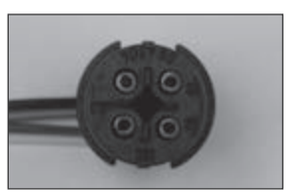
DOX-2044
4 WIRES - WIRE LENGTH 475mm



DOX-2045
4 WIRES - WIRE LENGTH 1250mm



DOX-2046
4 WIRES - WIRE LENGTH 600mm

DOX-2047
4 WIRES - WIRE LENGTH 925mm

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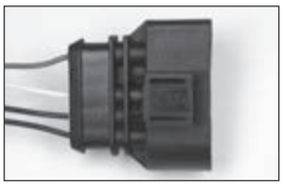
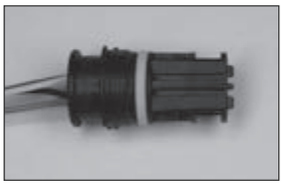
DOX-2048

4 WIRES - WIRE LENGTH 1620mm



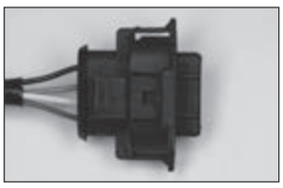
DOX-2049

4 WIRES - WIRE LENGTH 1170mm



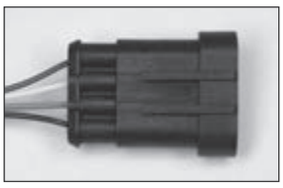
DOX-2050

4 WIRES - WIRE LENGTH 400mm



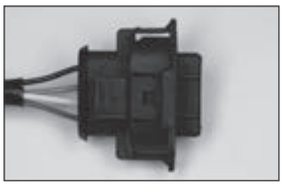
DOX-2051

4 WIRES - WIRE LENGTH 2030mm



DOX-2052

4 WIRES - WIRE LENGTH 1100mm

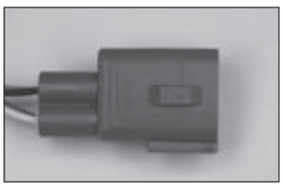


DOX-2053

4 WIRES - WIRE LENGTH 675mm

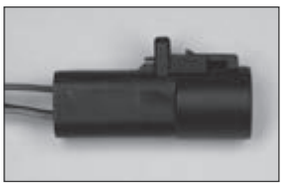
DOX-2054

4 WIRES - WIRE LENGTH 480mm



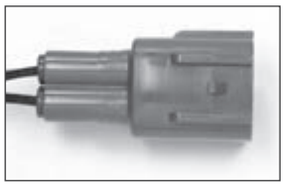
DOX-2055

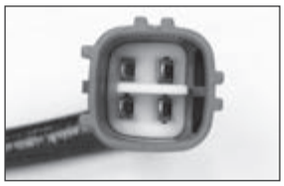
4 WIRES - WIRE LENGTH 525mm



DOX-2056

4 WIRES - WIRE LENGTH 725mm





DENSO Buyers Guide

Lambda Sensors

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0201	TOYOTA	CARINA E (92-97)	1.6
DOX-0202	TOYOTA	COROLLA (91-99)	1.6
		COROLLA (97-)	1.6
DOX-0203	TOYOTA	PASEO (95-00)	1.5
		TERCEL (94-99)	1.5
DOX-0204	DAIHATSU	CUORE (98-03)	1.0
		MOVE (94-02)	1.0
		SIRION (98-05)	1.0
		TERIOS (97-05)	1.3
		TERIOS (05-)	1.3/1.5
		YRV	1.0
	LEXUS	GS (93-97)	3.0
	TOYOTA	AVENSIS (97-03)	2.0
		AVENSIS (03-08)	2.0/2.4
		CAMRY (96-02)	3.0
		CAMRY (06-11)	2.4
		CARINA E (92-97)	2.0
		CELICA (93-99)	2.0
		MR 2 (99-07)	1.8
		PASEO (95-00)	1.5
		PICNIC (96-03)	2.0
		PRIUS (00-04)	1.5
		RAV 4 I (94-00)	2.0
		STARLET (96-99)	1.3
		TERCEL (94-99)	1.5
		YARIS (99-05)	1.0/1.3/1.5
		YARIS VERSO (99-05)	1.3/1.5
DOX-0205	DAIHATSU	GRAN MOVE	1.6
	LEXUS	IS I (99-05)	2.0/3.0
	TOYOTA	CAMRY (96-02)	2.2
		CELICA (93-99)	1.8
		COROLLA (97-)	1.6
		MR 2 (89-00)	2.0
		PREVIA (00-06)	2.4
DOX-0206	TOYOTA	CAMRY (96-02)	3.0
		MR 2 (99-07)	1.8
		YARIS (99-05)	1.0
DOX-0207	TOYOTA	CAMRY (86-91)	2.0
		COROLLA (87-95)	1.3
		SUPRA (86-93)	3.0
DOX-0208	TOYOTA	4 RUNNER (84-96)	3.0
		CAMRY (86-91)	2.0/2.5
		HILUX (83-05)	2.4
		MR 2 (89-00)	2.0
DOX-0209	TOYOTA	SUPRA (86-93)	3.0
DOX-0210	TOYOTA	COROLLA (87-95)	1.6
DOX-0211	TOYOTA	COROLLA (87-95)	1.6
DOX-0212	TOYOTA	CARINA II (83-93)	1.6/2.0
		CELICA (89-93)	1.6/2.0
		CELICA (89-94)	2.0
DOX-0213	TOYOTA	HIACE III (87-95)	2.4
		LAND CRUISER 80 (90-98)	4.0
		LAND CRUISER (69-97)	2.4
DOX-0214	TOYOTA	4 RUNNER (84-96)	2.4
DOX-0215	TOYOTA	CELICA (89-93)	2.0
		MR 2 (89-00)	2.0
DOX-0216	TOYOTA	4 RUNNER (84-96)	3.0
		CELICA (93-99)	1.8
		HILUX (83-05)	2.4
		LITEACE (92-97)	2.2
		MR 2 (89-00)	2.0
		PREVIA (90-00)	2.4
DOX-0217	TOYOTA	CAMRY (91-97)	2.2
		CAMRY (96-02)	2.2
		CARINA E (92-97)	1.6/2.0
		CELICA (89-93)	1.6/2.0
		CELICA (89-94)	2.0
		CELICA (93-99)	2.0
		HIACE III (87-95)	2.4
		LAND CRUISER (69-97)	2.4
DOX-0218	TOYOTA	SUPRA (86-93)	3.0

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0219	TOYOTA	COROLLA (91-99)	1.3/1.6/1.8
DOX-0220	TOYOTA	PREVIA (90-00)	2.4
		STARLET (89-96)	1.3
DOX-0221	TOYOTA	CAMRY (91-97)	3.0
DOX-0222	TOYOTA	COROLLA (91-99)	1.8
		COROLLA (97-)	1.8
		LITEACE (92-97)	2.2
		STARLET (89-96)	1.3
DOX-0223	TOYOTA	LAND CRUISER 80 (90-98)	4.5
DOX-0224	TOYOTA	4 RUNNER (84-96)	2.7/3.4
		LAND CRUISER 90 (95-)	3.4
		PREVIA (90-00)	2.4
DOX-0225	TOYOTA	COROLLA (91-99)	1.3
		COROLLA (97-)	1.4/1.6
DOX-0226	LEXUS	LX (98-08)	4.7
	TOYOTA	4 RUNNER (84-96)	2.7/3.4
		CARINA E (92-97)	2.0
		CELICA (93-99)	2.0
		HIACE IV (95-06)	2.4/2.7
		LAND CRUISER 90 (95-)	3.4
		LAND CRUISER 100 (98-)	4.7
		MR 2 (89-00)	2.0
DOX-0227	TOYOTA	SUPRA (93-02)	3.0
DOX-0228	TOYOTA	RAV 4 I (94-00)	2.0
		SUPRA (93-02)	3.0
DOX-0229	TOYOTA	4 RUNNER (84-96)	2.7/3.4
		COROLLA (97-)	1.8
		LAND CRUISER 90 (95-)	3.4
DOX-0231	LEXUS	IS I (99-05)	2.0
	TOYOTA	YARIS (99-05)	1.0/1.3
		YARIS (05-)	1.3
DOX-0232	TOYOTA	PREVIA (00-06)	2.4
DOX-0233	TOYOTA	RAV 4 II (00-06)	2.0
DOX-0234	TOYOTA	AVENSIS VERSO (01-09)	2.0
DOX-0236	DAIHATSU	COPEN	1.3
		MATERIA	1.3/1.5
		SIRION (98-05)	1.3
		SIRION (05-)	1.0/1.3/1.5
		TERIOS (97-05)	1.3
		YRV	1.3
	LEXUS	IS I (99-05)	3.0
	TOYOTA	LAND CRUISER 90 (95-)	3.4
		LAND CRUISER 100 (98-)	4.7
DOX-0237	DAIHATSU	SIRION (05-)	1.3
	TOYOTA	CAMRY (01-06)	3.0/3.5
		YARIS (99-05)	1.3
DOX-0238	TOYOTA	AVENSIS (97-03)	1.8/2.0
		AVENSIS (03-08)	2.0/2.4
		CAMRY (01-06)	3.0/3.5
		PREVIA (00-06)	2.4
DOX-0239	TOYOTA	PRIUS (03-09)	1.5
DOX-0240	TOYOTA	AVENSIS (03-08)	1.6/1.8
		COROLLA (01-07)	1.6/1.8
		COROLLA VERSO (01-09)	1.6/1.8
DOX-0241	TOYOTA	COROLLA (87-95)	1.6
DOX-0242	TOYOTA	AVENSIS VERSO (01-09)	2.0
		CAMRY (96-02)	2.2
		CAMRY (01-06)	2.4
		PICNIC (96-03)	2.0
		PREVIA (00-06)	2.4
		RAV 4 II (00-06)	2.0
DOX-0243	TOYOTA	CAMRY (96-02)	3.0
DOX-0244	TOYOTA	LAND CRUISER 90 (95-)	3.4
DOX-0245	TOYOTA	LAND CRUISER 90 (95-)	3.4
DOX-0246	TOYOTA	AVENSIS VERSO (01-09)	2.0
		PREVIA (00-06)	2.4
		RAV 4 II (00-06)	2.0
DOX-0247	TOYOTA	AVENSIS (03-08)	2.0
DOX-0248	TOYOTA	AVENSIS (03-08)	2.0
DOX-0249	TOYOTA	CARINA II (83-93)	1.6
DOX-0250	TOYOTA	CARINA E (92-97)	1.6

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0251	TOYOTA	AVENSIS (97-03)	1.6/1.8
		CARINA E (92-97)	1.6/1.8
DOX-0252	TOYOTA	AVENSIS (97-03)	1.8
DOX-0253	TOYOTA	AVENSIS (97-03)	1.8
DOX-0254	DAIHATSU	SIRION (05-)	1.0
	TOYOTA	AVENSIS (03-08)	1.6/1.8
		COROLLA (01-07)	1.6
		COROLLA VERSO (01-09)	1.6/1.8
DOX-0255	TOYOTA	LAND CRUISER (02-)	4.0
DOX-0256	TOYOTA	LAND CRUISER (02-)	4.0
DOX-0257	TOYOTA	YARIS (99-05)	1.0
		YARIS (05-)	1.3
DOX-0258	TOYOTA	AVENSIS (03-08)	2.0
		CAMRY (01-06)	3.0
DOX-0259	TOYOTA	CAMRY (01-06)	3.0
		LAND CRUISER (02-)	4.0
DOX-0260	TOYOTA	AVENSIS (03-08)	2.0
DOX-0261	TOYOTA	AVENSIS VERSO (01-09)	2.0
		CAMRY (01-06)	3.5
		CAMRY (06-11)	2.4
		PREVIA (00-06)	2.4
		RAV 4 II (00-06)	2.0
		RAV 4 III (05-12)	2.0/2.4
DOX-0262	TOYOTA	PRIUS (03-09)	1.5
DOX-0263	TOYOTA	LAND CRUISER 100 (98-)	4.7
		LAND CRUISER (02-)	4.0
DOX-0264	TOYOTA	AVENSIS (03-08)	2.0/2.2
		COROLLA VERSO (01-09)	2.2
DOX-0265	TOYOTA	AVENSIS (03-08)	2.0/2.2
DOX-0266	TOYOTA	RAV 4 III (05-12)	2.2
DOX-0267	TOYOTA	COROLLA (97-)	1.6
DOX-0269	LEXUS	LS (94-00)	4.0
		LX (98-08)	4.7
	TOYOTA	AVENSIS (97-03)	1.6
		LAND CRUISER 100 (98-)	4.7
DOX-0270	TOYOTA	AVENSIS (97-03)	1.8
DOX-0271	TOYOTA	CAMRY (96-02)	2.2
		PRIUS (00-04)	1.5
DOX-0273	TOYOTA	CELICA (99-05)	1.8
DOX-0274	TOYOTA	CELICA (99-05)	1.8
DOX-0275	TOYOTA	AVENSIS (03-08)	1.6/1.8
DOX-0276	TOYOTA	COROLLA (01-07)	1.4
		COROLLA (06-)	1.3
		YARIS (99-05)	1.3/1.5
		YARIS VERSO (99-05)	1.3/1.5
DOX-0277	TOYOTA	AVENSIS (97-03)	2.0
		AVENSIS VERSO (01-09)	2.0
		PICNIC (96-03)	2.0
		PREVIA (00-06)	2.4
		RAV 4 II (00-06)	2.0
DOX-0278	TOYOTA	AVENSIS (97-03)	2.0
DOX-0279	TOYOTA	AVENSIS (97-03)	1.6/1.8
		RAV 4 II (00-06)	1.8
DOX-0280	TOYOTA	RAV 4 II (00-06)	1.8
DOX-0282	TOYOTA	RAV 4 II (00-06)	2.0
DOX-0283	TOYOTA	PICNIC (96-03)	2.0
DOX-0284	TOYOTA	COROLLA VERSO (01-09)	1.8
DOX-0285	TOYOTA	COROLLA (01-07)	1.8
DOX-0286	TOYOTA	HIACE IV (95-06)	2.7
DOX-0287	TOYOTA	AVENSIS (03-08)	2.0/2.4
DOX-0288	TOYOTA	AVENSIS (03-08)	2.0/2.4
DOX-0289	TOYOTA	COROLLA (01-07)	1.6
DOX-0300	MAZDA	323 C IV (89-94)	1.3/1.6/1.8
		323 F IV (89-94)	1.6/1.8
		323 S IV (89-94)	1.3/1.6
		MX-3	1.6
DOX-0301	CHEVROLET	AVALANCHE (07-)	5.3
DOX-0305	SUBARU	OUTBACK (00-03)	3.0
DOX-0306	HONDA	CIVIC VII (00-05)	1.3/1.4
	SUBARU	FORESTER (97-02)	2.0
		FORESTER (02-08)	2.0

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0306		IMPREZA (00-08)	2.0
continued		OUTBACK (00-03)	3.0
DOX-0307	SUBARU	FORESTER (02-08)	2.0
		LEGACY III (98-03)	2.0/2.5
		LEGACY IV (03-)	2.0/2.5
		OUTBACK (00-03)	2.5
DOX-0308	SUBARU	FORESTER (02-08)	2.0
		IMPREZA (00-08)	2.0
DOX-0311	MITSUBISHI	SPACE RUNNER (99-02)	2.0/2.4
		SPACE WAGON (98-04)	2.4
DOX-0312	MITSUBISHI	SPACE RUNNER (99-02)	2.0/2.4
		SPACE WAGON (98-04)	2.4
DOX-0313	MITSUBISHI	CARISMA	1.6
		COLT V (95-03)	1.6
		GALANT VI (96-04)	2.5
		L 200 (96-07)	2.4
		PAJERO PININ	2.0
		SPACE STAR	1.3/1.6
DOX-0314	MITSUBISHI	LANCER EVO	2.0
		OUTLANDER (03-06)	2.4
DOX-0315	MITSUBISHI	OUTLANDER (03-06)	2.0
DOX-0316	MAZDA	MPV (99-06)	2.0
DOX-0317	MAZDA	MX-5 (98-05)	1.6/1.8
DOX-0318	MAZDA	MPV (99-06)	2.0/2.3
DOX-0319	MAZDA	MPV (99-06)	2.0/2.5
DOX-0320	MAZDA	MPV (99-06)	2.5
DOX-0321	MAZDA	MX-5 (98-05)	1.8
DOX-0322	MAZDA	MX-5 (98-05)	1.8
DOX-0323	MAZDA	MX-5 (98-05)	1.6/1.8
DOX-0324	MAZDA	MPV (99-06)	3.0
DOX-0325	MAZDA	MPV (99-06)	2.3
DOX-0326	SUZUKI	SWIFT III (05-)	1.3/1.5
		SX4 (06-)	1.5/1.6
DOX-0329	SUZUKI	ALTO IV (02-08)	1.1
DOX-0330	MAZDA	RX 8 (03-12)	2.6
DOX-0331	MAZDA	3 (00-09)	1.4/1.6
DOX-0332	MAZDA	3 (00-09)	1.4/1.6
		3 (09-)	1.6
DOX-0333	MAZDA	MPV (99-06)	3.0
DOX-0334	MAZDA	MX-5 (05-)	1.8/2.0
DOX-0335	MITSUBISHI	GRANDIS (04-)	2.4
		OUTLANDER (03-06)	2.4
		PAJERO III (00-07)	3.5
DOX-0336	MITSUBISHI	PAJERO III (00-07)	3.5
		PAJERO SPORT (97-09)	3.0
DOX-0337	MITSUBISHI	PAJERO PININ	1.8/2.0
DOX-0340	MITSUBISHI	GALANT VI (96-04)	2.0
DOX-0341	MITSUBISHI	COLT V (95-03)	1.6
		GALANT VI (96-04)	2.5
		L 400 (95-05)	2.0
		PAJERO PININ	1.8
DOX-0342	MITSUBISHI	GALANT VI (96-04)	2.5
DOX-0343	MITSUBISHI	PAJERO SPORT (97-09)	3.0
DOX-0344	MITSUBISHI	L 200 (96-07)	2.4
		PAJERO III (00-07)	3.5
		PAJERO SPORT (97-09)	3.0
DOX-0345	MITSUBISHI	GALANT VI (96-04)	2.0/2.4
		LANCER V (92-03)	1.6
		SPACE RUNNER (99-02)	2.0/2.4
		SPACE WAGON (98-04)	2.0/2.4
DOX-0346	MITSUBISHI	GALANT VI (96-04)	2.4
DOX-0347	MITSUBISHI	SPACE RUNNER (99-02)	2.0/2.4
		SPACE WAGON (98-04)	2.0/2.4
DOX-0349	MITSUBISHI	GRANDIS (04-)	2.4
		OUTLANDER (03-06)	2.4
DOX-0350	SUZUKI	IGNIS (00-03)	1.3
		JIMNY	1.3
DOX-0351	SUBARU	JUSTY III (03-)	1.3/1.5
	SUZUKI	IGNIS (00-03)	1.3
		IGNIS (03-)	1.3/1.5
		LIANA (01-)	1.3/1.6

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0351		SWIFT III (05-)	1.3/1.5
continued		WAGON R+ (00-)	1.3
DOX-0352	SUZUKI	BALENO (95-02)	1.3/1.6
		LIANA (01-)	1.3/1.6
DOX-0353	SUZUKI	ALTO IV (02-08)	1.1
DOX-0354	SUZUKI	GRAND VITARA (98-06)	1.6/2.0/2.7
		JIMNY	1.3
DOX-0357	SUBARU	FORESTER (97-02)	2.0
		FORESTER (02-08)	2.0/2.5
		IMPREZA (00-08)	2.0/2.5
		LEGACY IV (03-)	2.5
		OUTBACK (00-03)	3.0
		OUTBACK (03-)	2.5
DOX-0360	MAZDA	5 (05-10)	2.0
DOX-0400	VOLVO	S60 (00-10)	2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0401	VOLVO	S60 (00-10)	2.3/2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0402	VOLVO	S60 (00-10)	2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0403	VOLVO	S60 (00-10)	2.3/2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0404	VOLVO	S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0405	VOLVO	C70 II (06-)	2.4
		S40 (04-)	2.4
		V50 (04-)	1.8/2.0/2.4
DOX-0406	VOLVO	C30 (06-12)	2.4
		C70 II (06-)	2.4
		S40 (04-)	2.4
		V50 (04-)	1.8/2.0/2.4
DOX-0407	VOLVO	S80 (06-)	3.2
		V70 (07-)	3.2
		XC70 (07-)	3.2
DOX-0408	VOLVO	S80 (06-)	3.2
		V70 (07-)	3.2
		XC70 (07-)	3.2
DOX-0409	VOLVO	S60 (10-)	3.0
		V60 (10-)	3.0
		V70 (07-)	3.0
		XC60 (08-)	3.0
DOX-0410	VOLVO	S60 (00-10)	2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0411	VOLVO	S60 (00-10)	2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0412	VOLVO	S60 (00-10)	2.4
		S80 (98-06)	2.4
		V70 (00-07)	2.4
DOX-0413	LAND ROVER	RANGE ROVER III (02-12)	4.2
DOX-0414	LAND ROVER	DISCOVERY III (04-)	4.4
DOX-0415	LAND ROVER	DISCOVERY III (04-)	4.4
		RANGE ROVER SPORT (05-)	4.2/4.4
DOX-0416	LAND ROVER	DISCOVERY III (04-)	4.4
		RANGE ROVER SPORT (05-)	4.4
DOX-0420	MITSUBISHI	CARISMA	1.8
		SPACE STAR	1.8
DOX-0421	MITSUBISHI	CARISMA	1.6
		SPACE STAR	1.3/1.6/1.8
DOX-0422	MITSUBISHI	CARISMA	1.8
		SPACE STAR	1.8
DOX-0426	JAGUAR	S-TYPE	2.5/3.0/4.0/4.2
DOX-0427	JAGUAR	S-TYPE	2.5/3.0/4.0/4.2
DOX-0428	JAGUAR	S-TYPE	2.5/3.0/4.0/4.2
DOX-0429	JAGUAR	S-TYPE	2.5/3.0/4.0/4.2
DOX-0430	JAGUAR	X-TYPE	2.0/2.5/3.0

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1000	DAEWOO	ARANOS	1.5/1.8/2.0
		ESPERO	1.5/1.8/2.0
		LEGANZA	2.0
		NEXIA	1.5
		NUBIRA (97-03)	1.6/2.0
	OPEL	ASTRA F (91-01)	1.4/1.6/1.8
		ASTRA F CLASSIC (98-05)	1.4/1.6
		ASTRA G (98-09)	1.6
		CAMPO	2.3
		COMBO (94-01)	1.2/1.4
		CORSA A (82-93)	1.2/1.3/1.4/1.6
		CORSA B (93-)	1.2/1.4/1.6
		KADETT E (84-94)	1.3/1.4/1.6/1.8
		TIGRA	1.4/1.6
		VECTRA A (88-95)	1.6/1.8
		VECTRA B (95-03)	1.6
	SUBARU	JUSTY II (95-03)	1.3
	SUZUKI	SWIFT II (89-01)	1.0/1.3/1.6
	VAUXHALL	ASTRA Mk II (84-93)	1.4/1.6
		ASTRA Mk III (91-01)	1.4/1.6/1.8
		ASTRA Mk IV (98-06)	1.6
		ASTRAVAN Mk III (91-98)	1.4/1.6
		ASTRAVAN Mk IV (98-06)	1.6
		BRAVA (95-01)	2.3
		CAVALIER Mk III (88-95)	1.6/1.8
		COMBO (94-01)	1.4
		CORSA (93-00)	1.2/1.4/1.6
		CORSAVAN (94-00)	1.4
		NOVA	1.2/1.4/1.6
		TIGRA (94-00)	1.4/1.6
		VECTRA (95-03)	1.6
DOX-1003	MITSUBISHI	COLT III (88-92)	1.3/1.5/1.6/1.8
		GALANT IV (87-92)	1.8
		GALANT IV (87-93)	1.8
		LANCER III (83-92)	1.5/1.8
		LANCER IV (88-94)	1.6/1.8
DOX-1004	HONDA	CIVIC IV (87-95)	1.3/1.5/1.6
		CONCERTO (89-96)	1.5/1.6
		CRX (87-92)	1.6
		LEGEND I (86-90)	2.7
		PRELUDE III (86-92)	2.0
	ROVER	200 (89-00)	1.6
		400 (90-98)	1.6
		CABRIOLET (93-00)	1.6
DOX-1005	KIA	PRIDE	1.3
		SEPHIA	1.6
DOX-1006	AUDI	80 (86-91)	1.8
		80 (91-96)	1.6
	NISSAN	BLUEBIRD (83-92)	2.0
		BLUEBIRD (85-90)	2.0
		MICRA (82-92)	1.2
		PRAIRIE PRO	2.0
		VANETTE (86-95)	2.4
	RENAULT	19 II (92-95)	1.7
		19 II (92-03)	1.7
		21	2.2
		25	2.2/2.8
		ESPACE (84-92)	2.2
		RAPID	1.4
		SUPER 5	1.4
	SEAT	TOLEDO I (91-99)	1.6/1.8
	SUBARU	JUSTY I (84-95)	1.0
	VW	CADDY I (82-92)	1.8
		GOLF I (74-93)	1.6/1.8
		GOLF II (83-92)	1.6/1.8
		JETTA (84-92)	1.6/1.8
		PASSAT (88-97)	1.6/1.8
		SCIROCCO (80-92)	1.8
DOX-1008	NISSAN	100 NX (90-94)	1.6
		BLUEBIRD (83-92)	1.8/2.0
		BLUEBIRD (85-90)	1.8/2.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1008		MICRA (82-92)	1.2
continued		PRAIRIE PRO	2.0/2.4
		PRIMERA (90-98)	1.6
		SUNNY (82-91)	1.4/1.6/1.8
		SUNNY (90-03)	1.4/1.6
		TERRANO I	2.4
		VANETTE (86-95)	2.4
DOX-1016	MITSUBISHI	SPACE RUNNER (91-99)	1.8
		SPACE WAGON (91-98)	1.8
DOX-1023	VW	GOLF II (83-92)	1.8
		PASSAT (88-97)	2.0
		TRANSPORTER IV (90-03)	2.0/2.5
DOX-1024	SUZUKI	VITARA (88-99)	1.6
		VITARA (88-02)	1.6
DOX-1025	SEAT	CORDOBA (93-99)	1.8
		IBIZA II (93-99)	1.8
	VW	CORRADO	1.8/2.0
		GOLF I (74-93)	1.8
		GOLF II (83-92)	1.8
		GOLF III (91-99)	1.8
		PASSAT (88-97)	1.8/2.0
		VENTO	1.8
DOX-1031	MAZDA	323 C V (94-98)	1.5
		323 F V (94-98)	1.5
		323 S V (94-98)	1.5
		MX-3	1.6
DOX-1053	CHRYSLER	VOYAGER (95-01)	2.0/2.4
DOX-1055	CHRYSLER	NEON (99-)	2.0
		PT CRUISER	2.0/2.4
DOX-1056	CHRYSLER	VOYAGER (00-08)	2.4/3.3/3.8
DOX-1060	MITSUBISHI	COLT IV (92-96)	1.3
		LANCER IV (88-94)	1.3
		LANCER V (92-96)	1.3
DOX-1061	CHRYSLER	VOYAGER (00-08)	2.4
DOX-1064	SUZUKI	GRAND VITARA (98-06)	2.5
		WAGON R+ (97-00)	1.0/1.2
DOX-1068	SUBARU	JUSTY II (95-03)	1.3
	SUZUKI	CARRY (99-)	1.3
		GRAND VITARA (98-06)	1.6/2.0
		JIMNY	1.3
		SWIFT II (89-01)	1.0/1.3
DOX-1070	SUZUKI	ALTO III (94-)	1.0
		VITARA (88-99)	1.6
		VITARA (88-02)	1.6
		X-90	1.6
DOX-1076	CHRYSLER	300 M (98-04)	2.7/3.5
		NEON (99-)	1.6/2.0
		SEBRING (01-07)	2.0/2.4/2.7
		SEBRING (01-)	2.0/2.4/2.7
		STRATUS	2.0/2.4
DOX-1077	SUZUKI	GRAND VITARA (98-06)	2.5
DOX-1087	SUZUKI	BALENO (95-02)	1.8
		GRAND VITARA (98-06)	2.5
DOX-1093	MERCEDES-BENZ	E-CLASS (S210) (96-03)	2.0
		E-CLASS (W210) (95-02)	2.0
		SLK (R170) (96-04)	2.0/2.3
DOX-1097	MERCEDES-BENZ	S-CLASS (C140) (92-99)	4.2/5.0
		S-CLASS (C215) (99-06)	5.0
		S-CLASS (W140) (91-98)	4.2/5.0
		S-CLASS (W220) (98-05)	2.8/3.2/4.3/5.0
DOX-1098	MERCEDES-BENZ	C-CLASS (W202) (93-00)	2.8/3.6
		M-CLASS (W163) (98-05)	3.2/4.3/5.4
		S-CLASS (C140) (92-99)	6.0
		S-CLASS (W140) (91-98)	6.0
		SL (R129) (89-01)	6.0
DOX-1099	BMW	3 (E46)	2.2/2.5/3.0
		5 (E39)	2.2/2.5/3.0
		5 (E60)	2.2/2.5/3.0
		5 (E61)	2.5
		7 (E65, E66)	3.0
		Z3 (E36)	2.2/3.0

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1099		Z4 (E85)	2.2/2.5/3.0
continued	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.4/2.8/4.3
		C-CLASS (W202) (93-00)	2.4/2.8/4.3
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
DOX-1100	MERCEDES-BENZ	M-CLASS (W163) (98-05)	3.2/4.3/5.4
		S-CLASS (C215) (99-06)	5.0
		S-CLASS (W140) (91-98)	2.8/3.2
		S-CLASS (W220) (98-05)	2.8/3.2/4.3/5.0
		SL (R129) (89-01)	2.8/3.2/5.0
DOX-1102	MERCEDES-BENZ	E-CLASS (W210) (95-02)	2.8/3.2
DOX-1103	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.4/2.8/4.3
		C-CLASS (W202) (93-00)	2.4/2.8/4.3
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
DOX-1104	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.4/2.8/4.3
		C-CLASS (W202) (93-00)	2.4/2.8/4.3
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
DOX-1105	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.4/2.6/2.8/4.3
		C-CLASS (W202) (93-00)	2.4/2.8/4.3
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
		E-CLASS (S210) (96-03)	2.4/2.8/3.2
		E-CLASS (W210) (95-02)	2.4/2.8/3.2
		G-CLASS (W463) (89-)	3.2/5.0
		S-CLASS (C140) (92-99)	5.0
		S-CLASS (W140) (91-98)	5.0
		SL (R129) (89-01)	5.0
		V-CLASS (638/2) (96-03)	2.0/2.3/2.8
		VITO (638) (96-03)	2.0
DOX-1108	SUZUKI	GRAND VITARA (98-06)	1.6/2.0/2.7
DOX-1157	CHRYSLER	NEON (99-)	2.0
	MITSUBISHI	L 200 (96-07)	2.0
		L 400 (95-05)	2.0/2.4
		PAJERO II (90-00)	3.0
DOX-1160	MITSUBISHI	3000 GT	3.0
		OUTLANDER (06-)	3.0
		PAJERO II (90-00)	3.0/3.5
DOX-1161	MITSUBISHI	3000 GT	3.0
		COLT IV (92-96)	1.6
		L 200 (96-07)	2.4
		PAJERO II (90-00)	3.0
		PAJERO IV (06-)	3.8
DOX-1163	MITSUBISHI	COLT IV (92-96)	1.6/1.8
		ECLIPSE (94-99)	2.0
		GALANT V (92-96)	1.8/2.0
		LANCER IV (88-94)	1.6/1.8
		LANCER V (92-96)	1.6/1.8
		LANCER V (92-03)	1.6
		SPACE RUNNER (91-99)	1.8
		SPACE WAGON (91-98)	2.0/2.4
DOX-1167	MITSUBISHI	ECLIPSE (89-95)	2.0
		ECLIPSE (94-99)	2.0
		GALANT IV (87-92)	2.0
		GALANT IV (87-93)	2.0
DOX-1169	SUBARU	JUSTY II (95-03)	1.3
	SUZUKI	SWIFT II (89-01)	1.0/1.3
DOX-1170	MITSUBISHI	OUTLANDER (06-)	3.0
		PAJERO II (90-00)	3.5
		PAJERO IV (06-)	3.8
DOX-1171	AUDI	A6 (94-97)	1.8
		A8 (94-02)	3.7/4.2
	SEAT	CORDOBA (93-99)	1.0/1.4/1.6
		CORDOBA (99-02)	1.6
		IBIZA II (93-99)	1.0/1.4/1.6
		IBIZA III (99-02)	1.6
		INCA (95-03)	1.4/1.6
		TOLEDO I (91-99)	2.0
	VW	CADDY II (95-04)	1.4/1.6
		CORRADO	2.0/2.9

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1171		GOLF III (91-99)	1.4/1.6/2.0/2.8
continued		PASSAT (88-97)	2.8
		POLO (95-02)	1.4/1.6/1.8
		POLO (95-05)	1.4
		POLO (97-01)	1.4/1.6
		SHARAN (95-)	2.8
		TRANSPORTER IV (90-03)	2.8
		VENTO	1.4/1.6/2.0/2.8
DOX-1172	SEAT	CORDOBA (93-99)	1.4/1.6/1.8/2.0
		IBIZA II (93-99)	1.0/1.3/1.4
		TOLEDO I (91-99)	2.0
	SKODA	FAVORIT	1.3
		FELICIA I (94-98)	1.3
	VW	CORRADO	2.0/2.9
		GOLF III (91-99)	1.4/1.6/2.0/2.8
		PASSAT (88-97)	2.0/2.8
		POLO (95-02)	1.8
		VENTO	1.4/1.6/2.0/2.8
DOX-1173	AUDI	A3 (96-03)	1.8
		A4 (94-01)	1.8
		A6 (97-05)	1.8
	SEAT	CORDOBA (93-99)	1.8/2.0
		IBIZA II (93-99)	1.8/2.0
		TOLEDO I (91-99)	2.0
	VW	CORRADO	2.0/2.9
		GOLF III (91-99)	2.0/2.8
		PASSAT (88-97)	2.8
		PASSAT (96-00)	1.8/2.3
		PASSAT (96-01)	1.8/2.3
		POLO (95-02)	1.8
		TRANSPORTER IV (90-03)	2.8
		VENTO	2.0/2.8
DOX-1174	BMW	3 (E36)	1.9
		3 (E46)	1.9/2.0/2.2
		5 (E39)	2.0/2.2/2.5
		5 (E60)	2.2/2.5/3.0
		5 (E61)	2.5
		7 (E38)	2.8/3.5/4.4/5.4
		7 (E65, E66)	3.0
		8 (E31)	4.4/5.4
		X3 (E83)	2.5/3.0
		X5 (E53)	3.0/4.4/4.6
		Z3 (E36)	1.9/2.0/2.2
		Z4 (E85)	2.2/2.5/3.0
		Z8 (E52)	4.9
	LAND ROVER	RANGE ROVER III (02-12)	4.4
DOX-1175	BMW	3 (E46)	1.9/2.0/2.2
		5 (E39)	2.0/2.2/2.5
		5 (E60)	2.2/2.5/3.0
		5 (E61)	2.5
		7 (E38)	2.8
		7 (E65, E66)	3.0
		X3 (E83)	2.5/3.0
		X5 (E53)	3.0/4.4/4.6
		Z3 (E36)	2.0/2.2/2.8/3.0
		Z4 (E85)	2.2/2.5/3.0
	LAND ROVER	RANGE ROVER III (02-12)	4.4
DOX-1176	KIA	CARENS (00-02)	1.8
		RETONA	2.0
		SHUMA (01-04)	1.8
		SPORTAGE (94-03)	2.0
DOX-1177	KIA	CARENS (00-02)	1.8
		SHUMA (01-04)	1.8
DOX-1183	MERCEDES-BENZ	C-CLASS (W202) (93-00)	1.8/2.0/2.2/2.3
		SPRINTER 2-t (901, 902) (95-06)	2.3
		SPRINTER 3-t (903) (95-06)	2.3
		SPRINTER 4-t (904) (96-06)	2.3
		V-CLASS (638/2) (96-03)	2.0/2.3/2.8
		VITO (638) (96-03)	2.0/2.3
DOX-1196	JAGUAR	X-TYPE	2.0/2.5/3.0
DOX-1310	RENAULT	19 I (88-92)	1.4/1.7

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1310		19 II (92-95)	1.4/1.7
continued		19 II (92-03)	1.4/1.7
		21	1.7
		SUPER 5	1.7
DOX-1311	VW	CORRADO	1.8
		GOLF II (83-92)	1.3/1.8
		JETTA (84-92)	1.3/1.8
		LT 40-55 I (75-96)	2.4
		PASSAT (88-97)	1.8
		POLO (81-94)	1.3
DOX-1314	MERCEDES-BENZ	C-CLASS (S202) (96-01)	1.8/2.0/2.3
		C-CLASS (W202) (93-00)	2.0/2.3
		CLK (A208) (98-02)	2.0/2.3
		CLK (C208) (97-02)	2.0/2.3
		E-CLASS (S210) (96-03)	2.3
		E-CLASS (W210) (95-02)	2.3
		M-CLASS (W163) (98-05)	2.3
		SLK (R170) (96-04)	2.0/2.3
DOX-1317	BMW	3 (E36)	1.8/2.0/2.5
DOX-1318	BMW	3 (E36)	1.6/1.8
		8 (E31)	4.0
		Z3 (E36)	1.8
DOX-1319	BMW	3 (E36)	2.0/2.5
		8 (E31)	4.0
DOX-1350	RENAULT	CLIO I (90-98)	1.4
		LAGUNA (93-01)	1.8/2.0
		MEGANE I (95-03)	1.4/1.6
		MEGANE I (96-03)	1.4/1.6
		RAPID	1.4
		SAFRANE I (92-96)	2.0/2.2/3.0
		TRAFIC (89-01)	2.2
		TWINGO (93-07)	1.2
DOX-1351	AUDI	80 (86-91)	1.8/2.0
		80 (91-96)	2.0
		100 (90-94)	2.0/2.2
		A6 (94-97)	2.0/2.2
		CABRIOLET (93-00)	2.0
		COUPE (88-96)	2.0/2.2
		V8 (88-94)	3.6/4.2
	FIAT	COUPE	2.0
		FIORINO (77-88)	1.5
		FIORINO (88-01)	1.4/1.5/1.6
		PANDA (80-04)	1.0/1.1
		TEMPRA	1.4/1.6
		TIPO	1.4/1.6/1.8/2.0
		UNO (83-10)	1.0/1.1/1.3
	LANCIA	DEDRA	1.6/1.8/2.0
		DELTA (93-99)	1.4/2.0
		THEMA (86-94)	2.0
		Y10	1.1/1.3
	VOLVO	740	2.0/2.3
		760	2.3
		940	2.0/2.3
		960	2.0
	VW	GOLF II (83-92)	1.8
		JETTA (84-92)	1.8
		PASSAT (88-97)	1.8
DOX-1352	AUDI	80 (91-96)	2.0/2.6/2.8
		100 (90-94)	2.0/2.6/2.8
		A6 (94-97)	2.0/2.6
		CABRIOLET (93-00)	2.6
		COUPE (88-96)	2.8
DOX-1353	FORD	ESCORT V (90-94)	1.8/2.0
		ESCORT VI (92-95)	1.6/1.8/2.0
		ESCORT VII (95-98)	1.6/1.8/2.0
		ESCORT VII (95-02)	1.6/1.8
		FIESTA III (89-97)	1.6
		ORION III (90-93)	1.6/1.8
		SIERRA (87-93)	1.8
DOX-1354	HYUNDAI	ATOS	1.0
		ATOS PRIME	1.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1355	FIAT	BRAVA (95-01)	1.6
		BRAVO (95-02)	1.6
		MAREA	1.6
	LANCIA	DELTA (93-99)	1.6
DOX-1356	MAZDA	323 C V (94-98)	1.5
		323 F V (94-98)	1.5
		323 F VI (98-04)	1.5
		323 P V (96-)	1.5
		323 S V (94-98)	1.5
		323 S VI (98-04)	1.5
		MX-3	1.6
DOX-1357	MAZDA	323 F VI (98-04)	2.0
		323 S VI (98-04)	2.0
		PREMACY	1.9/2.0
DOX-1358	MAZDA	323 F VI (98-04)	2.0
		323 S VI (98-04)	2.0
		PREMACY	1.9/2.0
DOX-1359	MITSUBISHI	CARISMA	1.8
		SPACE STAR	1.8
DOX-1360	PEUGEOT	307	1.6
		PARTNER (96-08)	1.4
DOX-1361	FORD	COUGAR	2.5
		MONDEO I (93-96)	1.6/1.8/2.0
		MONDEO II (96-00)	1.6/1.8/2.5
DOX-1362	AUDI	A4 (94-01)	1.6/1.8
		A6 (97-05)	1.8
		CABRIOLET (93-00)	1.8
	VW	PASSAT (96-00)	1.6/1.8
		PASSAT (96-01)	1.6/1.8
		POLO (95-05)	1.0/1.3/1.4/1.6
DOX-1363	AUDI	A6 (94-97)	4.2
	SEAT	CORDOBA (93-99)	1.8/2.0
		IBIZA II (93-99)	1.8/2.0
		TOLEDO I (91-99)	2.0
	VW	CORRADO	2.0/2.9
		GOLF III (91-99)	1.4/2.0/2.8/2.9
		PASSAT (88-97)	2.8/2.9
		POLO (95-02)	1.8
		POLO (95-05)	1.3
		SHARAN (95-)	2.8
		VENTO	1.4/2.0/2.8
DOX-1364	BMW	3 (E30)	1.6/1.8/2.0/2.5
		3 (E36)	1.6/1.8
		5 (E34)	1.8/2.0/2.5
		8 (E31)	5.6
		Z1	2.5
DOX-1365	HYUNDAI	COUPE (96-02)	2.0
DOX-1366	NISSAN	MICRA (03-10)	1.0/1.2/1.4
DOX-1367	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
DOX-1368	BMW	3 (E36)	2.0/2.5/2.8
		5 (E39)	2.0/2.5/2.8
		7 (E38)	2.8
DOX-1369	BMW	5 (E34)	2.0/2.5
DOX-1370	FIAT	BARCHETTA	1.8
	MAZDA	626 IV (91-97)	1.8/2.0
		MX-6 (87-97)	2.0
DOX-1371	FORD	COUGAR	2.0
		ESCORT VII (95-02)	1.4
		FIESTA IV (95-02)	1.3/1.6
		FIESTA V (01-10)	1.3/1.4/1.6
		FOCUS I (98-05)	1.4/1.6/1.8/2.0
		FUSION	1.3/1.4/1.6
		KA (96-08)	1.3/1.6
		MONDEO II (96-00)	1.6/1.8/2.0
		STREET KA	1.6
		TOURNEO (12-)	1.8
		TRANSIT CONNECT (02-)	1.8
	MAZDA	2 (03-07)	1.3/1.4/1.6
		2 (07-)	1.3
DOX-1372	FORD	COUGAR	2.5

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1372		FIESTA IV (95-02)	1.3
continued		FIESTA V (01-10)	1.3
		FOCUS I (98-05)	2.0
		KA (96-08)	1.3/1.6
		MONDEO I (93-96)	2.5
		MONDEO II (96-00)	2.5
		STREET KA	1.6
DOX-1373	HYUNDAI	ACCENT (94-00)	1.3/1.5
DOX-1374	MAZDA	323 F VI (98-04)	1.6
		323 S VI (98-04)	1.6
		DEMIO	1.3/1.5
DOX-1375	MAZDA	323 F VI (98-04)	1.9
		626 V (97-02)	1.8/2.0
		PREMACY	1.9
DOX-1376	MERCEDES-BENZ	COUPE (C124) (87-93)	2.3/3.0
		E-CLASS (W124) (84-95)	2.0/2.3/2.6/3.0
		KOMBI (S124) (85-93)	2.0/2.3/3.0
DOX-1377	MERCEDES-BENZ	190 (W201)	2.0/2.3/2.5/2.6
DOX-1378	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		PRIMERA (96-02)	1.8
DOX-1379	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		PRIMERA (96-02)	1.8/2.0
DOX-1380	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		PRIMERA (02-)	1.6/1.8
DOX-1381	AUDI	80 (91-96)	1.6/2.0/2.6/2.8
		100 (90-94)	2.6/2.8
		A6 (94-97)	2.6/2.8
		A6 (97-05)	2.4
		A8 (94-02)	2.8
		CABRIOLET (93-00)	2.8
		COUPE (88-96)	2.6/2.8
DOX-1403	DAIHATSU	COPEN	0.7
		CUORE (98-03)	1.0
		CUORE (03-07)	1.0
		MOVE (94-02)	1.0
		SIRION (98-05)	1.0
		TREVIS	1.0
		YRV	1.0
DOX-1404	DAIHATSU	FEROZA Hard Top	1.6
		FEROZA Soft Top	1.6
		TERIOS (97-05)	1.3
DOX-1405	DAIHATSU	APPLAUSE (97-00)	1.6
		CHARADE (93-00)	1.3/1.5
		GRAN MOVE	1.5/1.6
DOX-1409	HONDA	CIVIC V (91-97)	1.5
		CIVIC VI (93-01)	1.4/1.6
		CR-V (95-02)	2.0
		CRX (92-98)	1.6
		HR-V	1.6
DOX-1411	HONDA	CIVIC VI (93-01)	1.4/1.5/1.6
DOX-1415	HONDA	CR-V (02-06)	2.0
DOX-1419	VOLVO	C70 I (98-05)	2.5
		S60 (00-10)	2.4
		S70 (96-00)	2.0/2.4/2.5
		S80 (98-06)	2.4
		V70 (96-00)	2.4/2.5
		V70 (00-07)	2.4
DOX-1420	VOLVO	C70 I (98-05)	2.5
		S60 (00-10)	2.4
		S70 (96-00)	2.4/2.5
		S80 (98-06)	2.4
		V70 (96-00)	2.4/2.5
		V70 (00-07)	2.4
DOX-1424	HONDA	ACCORD VIII (03-08)	2.0/2.4
DOX-1430	MITSUBISHI	COLT III (88-92)	1.5
		L 300 (80-94)	2.0
		SPACE WAGON (84-92)	2.0
DOX-1431	MITSUBISHI	GALANT IV (87-92)	2.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1431		GALANT IV (87-93)	2.0
continued		LANCER III (83-92)	1.5
		SPACE WAGON (84-92)	2.0
DOX-1432	MITSUBISHI	COLT III (88-92)	1.5
		ECLIPSE (89-95)	1.8
		GALANT IV (87-92)	2.0
		GALANT IV (87-93)	1.8/2.0
		LANCER III (83-92)	1.8
		LANCER IV (88-94)	1.5
DOX-1433	MITSUBISHI	COLT III (88-92)	1.3/1.5
		L 300 (80-94)	2.0
		L 300 (94-08)	2.0
		L 400 (95-05)	2.0
		LANCER III (83-92)	1.5
		LANCER IV (88-94)	1.3/1.5
DOX-1435	MAZDA	323 C V (94-98)	1.8
		323 F V (94-98)	1.8
		323 S V (94-98)	1.8
		MX-3	1.8
		MX-5 (90-98)	1.6/1.8
DOX-1436	MITSUBISHI	ECLIPSE (94-99)	2.0
		GALANT VI (96-04)	2.4
DOX-1437	MITSUBISHI	LANCER VII (03-07)	2.0
DOX-1438	MITSUBISHI	GALANT V (92-96)	2.0/2.5
		GALANT VI (96-04)	2.0/2.5
DOX-1439	MITSUBISHI	OUTLANDER (03-06)	2.0
DOX-1440	MITSUBISHI	GRANDIS (04-)	2.4
		L 300 (80-94)	2.0
		L 300 (94-08)	2.0
DOX-1441	MITSUBISHI	COLT V (95-03)	1.6
		LANCER VI (95-04)	1.6
		PAJERO SPORT (97-09)	3.0
DOX-1446	SUBARU	FORESTER (97-02)	2.0
DOX-1447	MITSUBISHI	COLT V (95-03)	1.6
		LANCER VI (95-04)	1.6
	NISSAN	X-TRAIL (07-)	2.5
	RENAULT	KOLEOS	2.5
DOX-1448	SUBARU	FORESTER (02-08)	2.5
		IMPREZA (00-08)	2.5
DOX-1449	MAZDA	RX 8 (03-12)	2.6
DOX-1452	HONDA	ACCORD VII (97-05)	2.0
DOX-1453	HONDA	CIVIC VII (00-05)	1.4/1.6
DOX-1454	HONDA	CIVIC VIII (05-)	1.3/1.4/1.8
		CR-V (06-12)	2.0
		FR-V	1.8
DOX-1455	HONDA	HR-V	1.6
DOX-1456	HONDA	ACCORD VII (97-05)	2.0
		CIVIC VII (00-05)	1.4/1.6
		LOGO	1.3
DOX-1457	HONDA	CIVIC VII (00-05)	1.3/1.4
DOX-1459	HONDA	ACCORD VII (97-05)	3.0
		CIVIC V (91-97)	1.6
		CIVIC VI (93-01)	1.6
		CRX (92-98)	1.6
		LEGEND II (91-96)	3.2
		LEGEND III (96-)	3.5
		LOGO	1.3
		NSX (94-05)	3.0
DOX-1460	HONDA	JAZZ III (08-)	1.2/1.4
DOX-1461	HONDA	CIVIC VII (00-05)	2.0
DOX-1500	OPEL	ASTRA F (91-01)	2.0
		CALIBRA	2.0
		OMEGA A (86-94)	2.0/2.6/3.0
		SENATOR B (87-93)	2.6/3.0
		VECTRA A (88-95)	2.0
	VAUXHALL	CALIBRA	2.0
		CARLTON Mk III (86-94)	2.0/2.6
		CAVALIER Mk III (88-95)	2.0
		OMEGA	2.5/3.0
		SENATOR (87-93)	2.6/3.0
		VECTRA (95-03)	2.5

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1501	CHEVROLET	CORVETTE (83-97)	5.6/5.7
	RENAULT	19 I (88-92)	1.4/1.7/1.8
		19 II (92-95)	1.4/1.7/1.8
		19 II (92-03)	1.2/1.4/1.7/1.8
		21	1.7/2.0/2.1/2.2
		25	2.0/2.5
		CLIO I (90-98)	1.2/1.4/1.8/2.0
		ESPACE (91-96)	2.0/2.2/2.8
		RAPID	1.4
		SUPER 5	1.7
DOX-1502	RENAULT	19 II (92-95)	1.4
		CLIO I (90-98)	1.2/1.4
DOX-1503	RENAULT	CLIO I (90-98)	1.2
		CLIO II (98-)	1.0/1.2
		KANGOO (97-)	1.2
		TWINGO (93-07)	1.2
DOX-1504	OPEL	CORSA B (93-)	1.4/1.6
		TIGRA	1.4
	VAUXHALL	ASTRA Mk III (91-01)	1.6
		CORSA (93-00)	1.4/1.6
DOX-1534	CITROËN	BERLINGO (96-08)	1.4
		C2	1.4
		C3 (02-09)	1.4
		C3 Pluriel (03-)	1.4/1.6
		C5 (01-04)	1.8
		SAXO	1.4
		XSARA	1.4
		XSARA PICASSO	1.8
	PEUGEOT	106 (96-04)	1.4
		206 (98-)	1.4
		306	1.4
		307	1.4
		406	1.8
		1007	1.4
		PARTNER (96-08)	1.4
DOX-1535	CITROËN	BERLINGO (96-08)	1.1/1.4
		C15	1.1/1.4
		SAXO	1.0/1.1/1.4/1.6
		XANTIA (93-98)	1.6/1.8/2.0
		XANTIA (98-03)	1.6/2.0
		XSARA	1.4/1.6/2.0
		ZX	1.1/1.4
	PEUGEOT	106 (91-96)	1.0/1.1/1.3
		106 (96-04)	1.0/1.1/1.4/1.6
		206 (98-)	1.4
		306	1.1/1.4/1.6
		406	1.6/1.8/2.0
		PARTNER (96-08)	1.1/1.4
	VOLVO	850	2.0/2.5
DOX-1536	CITROËN	AX	1.0/1.1/1.4
		EVASION	1.8/2.0
		JUMPER (94-02)	2.0
		JUMPY (95-06)	1.6
		XANTIA (93-98)	2.0
		XANTIA (98-03)	2.0
		XM (94-00)	2.0
		XSARA	1.8/2.0
		ZX	1.1/1.4/1.6
	FIAT	DUCATO (94-02)	2.0
		SCUDO (96-06)	1.6
		ULYSSE (94-02)	1.8/2.0
	LANCIA	ZETA	2.0
	PEUGEOT	106 (96-04)	1.6
		306	2.0
		307	1.4
		405 (92-96)	1.6/1.8/2.0
		406	2.0
		605	2.0
		806	1.8/2.0
		BOXER (94-06)	2.0
		EXPERT (95-07)	1.6/1.8

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1537	CITROËN	BERLINGO (96-08)	1.8
		SAXO	1.4
		XANTIA (93-98)	1.8
		XANTIA (98-03)	1.8
		XSARA	1.4/1.8
	PEUGEOT	106 (91-96)	1.1
		106 (96-04)	1.4
		206 (98-)	1.1/1.4
		306	1.4/1.8
		406	1.8
		PARTNER (96-08)	1.4/1.8
DOX-1538	CITROËN	BERLINGO (96-08)	1.1/1.4
		C2	1.1/1.4
		C3 (02-09)	1.1/1.4
		C3 (09-)	1.1/1.4
		C3 Pluriel (03-)	1.4/1.6
		NEMO	1.4
		SAXO	1.4/1.6
		XSARA	1.4
	PEUGEOT	106 (96-04)	1.4/1.6
		206 (98-)	1.1/1.4
		206+ (09-)	1.1/1.4
		207	1.4
		306	1.4
		307	1.4
		1007	1.4
		BIPPER	1.4
		BIPPER Tepee	1.4
		PARTNER (96-08)	1.1/1.4
DOX-1539	CITROËN	C5 (01-04)	1.8
		DS4	2.0
		XSARA PICASSO	1.8
	PEUGEOT	406	1.8
		407	1.8
DOX-1541	FIAT	BARCHETTA	1.8
		PANDA (80-04)	1.1
		PUNTO (99-10)	1.8
		SEICENTO (98-)	1.1
		STILO	1.8
	LANCIA	LYBRA	1.8
DOX-1542	FIAT	BRAVA (95-01)	1.6
		BRAVO (95-02)	1.6
		MAREA	1.6
		MULTIPLA	1.6
		PALIO	1.6
DOX-1543	FIAT	BRAVA (95-01)	1.6
		BRAVO (95-02)	1.6
		MAREA	1.6
		MULTIPLA	1.6
DOX-1544	FIAT	BRAVA (95-01)	1.4
		BRAVO (95-02)	1.4
		CINQUECENTO	1.1
		MAREA	1.4
		PUNTO (93-00)	1.2
		SEICENTO (98-)	1.1
	LANCIA	Y	1.2
DOX-1545	ALFA ROMEO	145	1.4/1.6/1.7
		146	1.4/1.6/1.7
		155	1.6/1.7/2.0
		156	1.6
		164	2.0/3.0
		GTV (95-05)	2.0/3.0
		SPIDER (94-05)	2.0/3.0
	FIAT	BRAVO (95-02)	2.0
		COUPE	2.0
		CROMA (85-96)	2.0
		FIORINO (88-01)	1.4/1.6
		MAREA	2.0
		PANDA (80-04)	0.9/1.0/1.1
		PUNTO (93-00)	1.1/1.2/1.4
		SEICENTO (98-)	0.9

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1545		TEMPRA	1.4/1.6
continued		TIPO	1.4
	LANCIA	DEDRA	1.8
		DELTA (93-99)	1.4/1.6/1.8
		KAPPA	2.0/2.4/3.0
		Y	1.1/1.2/1.4
		Y10	1.1
DOX-1546	FIAT	PUNTO (93-00)	1.2
DOX-1547	FIAT	BARCHETTA	1.8
		BRAVA (95-01)	1.8
		BRAVO (95-02)	1.8
		DOBLO (10-)	2.0
		MAREA	1.8
		PALIO	1.2
		STRADA	1.2
DOX-1548	FIAT	BRAVA (95-01)	1.6
		BRAVO (95-02)	1.6
		MAREA	1.6
		PALIO	1.6
		PUNTO (99-10)	1.8
		SIENA	1.6
	LANCIA	DEDRA	1.6
		DELTA (93-99)	1.6
		LYBRA	1.6
DOX-1549	FIAT	COUPE	1.8
		MULTIPLA	1.6
		PALIO	1.6
	LANCIA	DELTA (93-99)	1.8
		LYBRA	1.8
DOX-1551	AUDI	A3 (96-03)	1.6/1.8
	SEAT	AROSA (97-04)	1.0/1.4
		CORDOBA (93-99)	1.0/1.4
		IBIZA II (93-99)	1.0/1.4
		IBIZA III (99-02)	1.0
		INCA (95-03)	1.4
		LEON (99-06)	1.8
		TOLEDO II (99-06)	1.8/2.3
	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.6/1.8
	VW	BORA	1.8/2.3
		CADDY II (95-04)	1.4
		GOLF IV (97-08)	1.6/1.8/2.3
		LUPO (98-05)	1.0/1.4
		POLO (95-02)	1.4
		POLO (95-05)	1.0/1.4/1.6
		POLO (97-01)	1.4
DOX-1552	AUDI	A3 (96-03)	1.6
	SEAT	ALHAMBRA (96-10)	1.8
		AROSA (97-04)	1.0
		LEON (99-06)	1.4
		TOLEDO II (99-06)	1.4
	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.6
	VW	BORA	1.4
		GOLF IV (97-08)	1.4
		LUPO (98-05)	1.0/1.4
		POLO (95-05)	1.4/1.6
		POLO (97-01)	1.4
		SHARAN (95-)	1.8
DOX-1553	OPEL	ASTRA G (98-09)	1.2
		CORSA B (93-)	1.0/1.2
	VAUXHALL	ASTRA Mk IV (98-06)	1.2
		CORSA (93-00)	1.0/1.2
DOX-1556	RENAULT	CLIO I (90-98)	1.2
		RAPID	1.2
		TWINGO (93-07)	1.2
DOX-1559	SEAT	CORDOBA (02-09)	1.2
		IBIZA IV (02-09)	1.2
		IBIZA V (08-)	1.2/1.6
	SKODA	FABIA (99-08)	1.2
		FABIA (06-)	1.2
		ROOMSTER	1.2
	VW	POLO (01-09)	1.2

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1559		POLO (09-)	1.2
continued			
DOX-1560	SEAT	CORDOBA (02-09)	1.4
		IBIZA IV (02-09)	1.4
		IBIZA V (08-)	1.4
	SKODA	FABIA (99-08)	1.4
		FABIA (06-)	1.4
		ROOMSTER	1.4
	VW	POLO (95-05)	1.4
		POLO (01-09)	1.4
		POLO (09-)	1.4
DOX-1561	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.6
	VW	LUPO (98-05)	1.4
DOX-1562	SEAT	AROSA (97-04)	1.4
	VW	LUPO (98-05)	1.4
		POLO (97-01)	1.4
DOX-1564	SEAT	LEON (99-06)	1.6
		TOLEDO II (99-06)	1.6
	VW	BORA	1.6
		GOLF IV (97-08)	1.6
DOX-1565	SEAT	IBIZA IV (02-09)	1.2
	SKODA	FABIA (99-08)	1.2
		FABIA (06-)	1.2
	VW	FOX (03-)	1.2/1.4
		POLO (01-09)	1.2
DOX-1566	AUDI	A4 (94-01)	1.6
		A4 (00-04)	1.6
		A4 (02-09)	1.6
	SEAT	EXEO (08-)	1.6
	SKODA	SUPERB (01-08)	2.0
	VW	PASSAT (96-00)	1.6
		PASSAT (96-01)	1.6
		PASSAT (00-05)	1.6/2.0
DOX-1567	SEAT	CORDOBA (99-02)	1.4
		IBIZA III (99-02)	1.4
		INCA (95-03)	1.4
	VW	CADDY II (95-04)	1.4
		POLO (95-02)	1.4
		POLO (97-01)	1.4
DOX-1568	OPEL	ZAFIRA (99-05)	1.8
	SAAB	9-3 (02-)	1.8
DOX-1569	OPEL	ASTRA H (04-)	1.6/1.8
		SIGNUM	1.8
		VECTRA C (02-)	1.8
		ZAFIRA (99-05)	1.8
		ZAFIRA (05-11)	1.6/1.8
	SAAB	9-3 (02-)	1.8
	VAUXHALL	ASTRA MK V (04-)	1.6/1.8
		SIGNUM	1.8
		VECTRA (00-08)	1.8
		ZAFIRA (05-)	1.6/1.8
DOX-1572	RENAULT	ESPACE (96-02)	2.0
		LAGUNA (93-01)	1.8/2.0
		MEGANE I (95-03)	2.0
		MEGANE I (96-03)	2.0
		SAFRANE II (96-00)	3.0
		SPORT SPIDER	2.0
DOX-1573	SEAT	AROSA (97-04)	1.0
	VW	LUPO (98-05)	1.0
		POLO (95-05)	1.0
DOX-1574	OPEL	ASTRA G (98-09)	1.6
	VAUXHALL	ASTRA Mk IV (98-06)	1.6
		ASTRAVAN Mk IV (98-06)	1.6
DOX-1575	OPEL	ASTRA G (98-09)	1.4/1.6
		COMBO (01-12)	1.6
		CORSA C (00-09)	1.4
		MERIVA (03-10)	1.6
		VECTRA C (02-)	1.6
		ZAFIRA (99-05)	1.6
	VAUXHALL	ASTRA Mk IV (98-06)	1.4/1.6
		COMBO	1.6

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-1575		COMBO (01-12)	1.6
continued		CORSA (00-06)	1.4
		MERIVA (03-10)	1.6
		VECTRA (00-08)	1.6
		ZAFIRA (98-05)	1.6
DOX-1576	OPEL	VECTRA B (95-03)	1.6
	VAUXHALL	VECTRA (95-03)	1.6
DOX-1588	SEAT	IBIZA IV (02-09)	1.2
	SKODA	FABIA (99-08)	1.2
		FABIA (06-)	1.2
	VW	FOX (03-)	1.2
		POLO (01-09)	1.2
		POLO (09-)	1.2
DOX-1589	AUDI	A4 (94-01)	1.6
		A4 (00-04)	1.6
		A4 (02-09)	1.6
	SKODA	SUPERB (01-08)	2.0
	VW	PASSAT (96-00)	1.6
		PASSAT (96-01)	1.6
		PASSAT (00-05)	1.6/2.0
DOX-1593	OPEL	FRONTERA A (92-98)	2.2
		OMEGA B (94-03)	2.0/2.5/3.0
		SINTRA	3.0
		VECTRA B (95-03)	2.5
	RENAULT	LAGUNA (93-01)	1.8/2.0
		RAPID	1.2
	VAUXHALL	FRONTERA (92-98)	2.0/2.2
		OMEGA	2.0
DOX-1594	CHRYSLER	GS DAYTONA SHELBY	2.2
		LE BARON (86-96)	2.5
	RENAULT	CLIO I (90-98)	1.2
		CLIO II (98-)	1.2
		KANGOO (97-)	1.2
		RAPID	1.4
DOX-1598	OPEL	ASTRA G (98-09)	1.4/1.6
		VECTRA B (95-03)	1.6
		ZAFIRA (99-05)	1.6
	VAUXHALL	ASTRA Mk IV (98-06)	1.4/1.6
		VECTRA (95-03)	1.6
		ZAFIRA (98-05)	1.6
DOX-1599	DAEWOO	LANOS	1.4/1.5
		MATIZ	0.8
DOX-1617	OPEL	ZAFIRA (99-05)	2.2
DOX-1618	OPEL	VECTRA C (02-)	2.2
DOX-2000	AUDI	A3 (96-03)	1.6/1.8
		A6 (04-11)	3.0/4.2
		TT (98-06)	1.8/3.2
	SEAT	CORDOBA (02-09)	1.6/2.0
		IBIZA IV (02-09)	1.6/2.0
		IBIZA V (08-)	2.0
		LEON (99-06)	1.4/1.6/1.8
		TOLEDO II (99-06)	1.8
	SKODA	FABIA (99-08)	1.0/1.4/2.0
		OCTAVIA 1U2/1U5 (96-10)	1.6/1.8
	VW	BORA	1.4/1.6
		GOLF IV (97-08)	1.4/1.6/1.8/2.0
		GOLF V (03-09)	3.2
		NEW BEETLE (98-11)	1.6/1.8
		TOUAREG (02-10)	3.2
DOX-2001	CITROËN	BERLINGO (96-08)	1.1/1.4/1.6
		BERLINGO (08-)	1.6
		C2	1.1/1.4/1.6
		C3 (02-09)	1.1/1.4/1.6
		C3 Pluriel (03-)	1.6
		C4	1.4/1.6/2.0
		C4 Grand Picasso	1.8/2.0
		C4 Picasso (07-)	1.8/2.0
		C5 (01-04)	2.0/3.0
		C5 (04-08)	1.8/2.0/3.0
		C5 (08-)	1.8/2.0/3.0
		C6	3.0

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DOX-2001		C8	2.0/2.2/3.0
continued		EVASION	2.0
		JUMPER (02-)	2.0
		JUMPY (95-06)	2.0
		JUMPY (07-)	2.0
		SAXO	1.1/1.4/1.6
		XANTIA (98-03)	1.8
		XSARA	1.4/1.6/2.0
		XSARA PICASSO	1.6/2.0
	FIAT	SCUDO (96-06)	2.0
		ULYSSE (94-02)	2.0
		ULYSSE (02-11)	2.0/3.0
	LANCIA	PHEDRA	2.0/3.0
		ZETA	2.0
	PEUGEOT	106 (96-04)	1.1/1.4
		206 (98-)	1.1/1.4/1.6/2.0
		207	1.4/1.6
		306	1.4/1.6/1.8
		307	1.4/1.6/2.0
		308 (07-13)	1.6
		406	1.8/2.0/3.0
		407	1.8/2.0/2.2/3.0
		607	3.0
		806	2.0
		807	2.0/2.2/3.0
		1007	1.4/1.6
		BOXER (94-06)	2.0
		EXPERT (95-07)	2.0
		EXPERT (07-)	2.0
		EXPERT Tepee (07-)	2.0
		PARTNER (96-08)	1.1/1.6
		PARTNER (08-)	1.6
DOX-2002	RENAULT	AVANTIME	2.0
		CLIO II (98-)	1.1/1.2/1.4
		CLIO III (05-)	1.4/1.6
		ESPACE (96-02)	2.0
		ESPACE (02-)	2.0
		GRAND SCÉNIC (04-)	1.6/2.0
		KANGOO (97-)	1.2/1.6
		KANGOO (08-)	1.6
		KANGOO BE BOP	1.6
		LAGUNA (93-01)	1.6/1.8/2.0
		LAGUNA (01-07)	1.6/1.8/2.0
		LAGUNA (07-)	1.6
		MEGANE I (95-03)	1.4/1.6/1.8/2.0
		MEGANE I (96-03)	1.4/1.6/1.8
		MEGANE II (02-)	1.4/1.6/2.0
		MODUS	1.4/1.6
		SCÉNIC I (99-03)	1.4/1.6/1.8/2.0
		SCÉNIC II (03-)	1.4/1.6/2.0
		THALIA (98-03)	1.4/1.6
		THALIA II (08-)	1.6
		TRAFIC II (01-)	2.0
		TWINGO (93-07)	1.2
		TWINGO (07-)	1.2
		VEL SATIS	2.0
DOX-2003	OPEL	AGILA (00-07)	1.0
		ASTRA G (98-09)	1.6
		ASTRA H (04-)	1.4/1.6
		COMBO (01-12)	1.4
		CORSA C (00-09)	1.0/1.2/1.4
		CORSA C BOX (00-)	1.2
		MERIVA (03-10)	1.4/1.6
		OMEGA B (94-03)	2.6/3.2
		TIGRA	1.4
		VECTRA B (95-03)	2.6
		VECTRA C (02-)	1.6
		ZAFIRA (05-11)	1.6
	VAUXHALL	AGILA (00-08)	1.0
		ASTRA Mk IV (98-06)	1.2/1.6/2.0
		ASTRA MK V (04-)	1.4/1.6/2.0

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2003		COMBO (01-12)	1.4
continued		CORSA (00-06)	1.0/1.2/1.4
		CORSA (06-)	1.0/1.2/1.4
		CORSAVAN (00-)	1.2
		CORSAVAN (06-)	1.2
		MERIVA (03-10)	1.4/1.6
		OMEGA	2.6/3.2
		SPEEDSTER (VX220)	2.0
		TIGRA (04-09)	1.4
		VECTRA (95-03)	2.6
		ZAFIRA (98-05)	2.0
		ZAFIRA (05-)	1.6/2.0
DOX-2004	FORD	C-MAX (07-)	1.6/1.8/2.0
		FIESTA V (01-10)	2.0
		FOCUS C-MAX (03-07)	1.6/1.8/2.0
		FOCUS I (98-05)	1.4/1.6
		FOCUS II (04-10)	1.4/1.6/1.8/2.0
		GALAXY (92-06)	2.0/2.3
		GRAND C-MAX	1.6
		TRANSIT (00-06)	2.3
	VOLVO	C30 (06-12)	1.8/2.0
		S40 (04-)	1.6/1.8/2.0
DOX-2005	CITROËN	BERLINGO (96-08)	1.1/1.6
		BERLINGO (08-)	1.6
		C2	1.6
		C3 (02-09)	1.6
		C3 Pluriel (03-)	1.6
		C4	1.6/2.0
		C5 (01-04)	3.0
		C5 (04-08)	3.0
		C5 (08-)	3.0
		C6	3.0
		C8	3.0
		SAXO	1.1/1.4/1.6
		XSARA	1.6/2.0
		XSARA PICASSO	1.6
	FIAT	DUCATO (94-02)	2.0
		DUCATO (02-06)	2.0
		ULYSSE (02-11)	3.0
	LANCIA	PHEDRA	3.0
	PEUGEOT	106 (96-04)	1.1
		206 (98-)	1.6
		207	1.6
		306	1.6
		307	1.6
		308 (07-13)	1.6
		406	2.0/3.0
		407	3.0
		607	3.0
		807	3.0
		1007	1.6
		PARTNER (96-08)	1.1/1.6
		PARTNER (08-)	1.6
	RENAULT	AVANTIME	3.0
		CLIO II (98-)	3.0
		LAGUNA (01-07)	3.0
		LAGUNA (07-)	2.0
	SAAB	9-3 (02-)	1.8/2.0
DOX-2006	ALFA ROMEO	147	1.6/2.0/3.2
		156	1.6/1.8/2.0
		166	2.0/2.5/3.0/3.2
		GIULIETTA (10-)	1.4
		GT (03-10)	1.8/3.2
		GTV (95-05)	2.0/3.0/3.2
		MITO	1.4
		SPIDER (94-05)	2.0/3.2
	FIAT	500 (07-)	1.4
		500 C (09-)	1.4
		BRAVA (95-01)	1.2
		BRAVO (95-02)	1.2
		BRAVO (06-)	1.4

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DOX-2006		DOBLO (01-)	1.2/1.4/1.6
continued		DOBLO (10-)	1.4
		GRANDE PUNTO (05-)	1.2/1.4
		IDEA	1.2/1.4
		LINEA	1.4
		MAREA	1.2/2.0
		PALIO	1.2
		PANDA (03-12)	1.2/1.4
		PUNTO (99-10)	1.2/1.4
		PUNTO EVO (08-12)	1.2/1.4
		SIENA	1.2
		STILO	1.2/1.4/1.6/2.4
		STRADA	1.2
	LANCIA	DELTA (08-)	1.4
		LYBRA	2.0
		MUSA	1.4
		THESIS	2.0/2.4/3.0
		Y	1.2
		YPSILON (843) (03-11)	1.2/1.4
DOX-2007	MERCEDES-BENZ	A-CLASS (W168) (97-04)	1.4/1.6/1.9/2.1
		C-CLASS (CL203) (01-08)	2.0/2.3/3.2
		C-CLASS (S202) (96-01)	2.0
		C-CLASS (S203) (01-07)	2.0/2.6/3.0
		C-CLASS (W203) (00-07)	2.0/2.6/3.0
		CLK (A208) (98-02)	2.0/2.3
		CLK (A209) (03-10)	2.6/3.2/5.0/5.5
		CLK (C208) (97-02)	2.0/2.3
		CLK (C209) (02-09)	2.6/3.2/5.0/5.4
		CLS (C219) (04-10)	5.0/5.4
		E-CLASS (S210) (96-03)	2.0/2.4/2.6
		E-CLASS (S211) (03-09)	2.6/3.0/3.2
		E-CLASS (W210) (95-02)	2.0/2.4/2.6
		E-CLASS (W211) (02-08)	2.6/3.0/3.2
		G-CLASS (W463) (89-)	3.2/5.0/5.4
		M-CLASS (W163) (98-05)	3.2/3.7/4.3/5.0
		S-CLASS (C215) (99-06)	5.0/5.4/5.5
		S-CLASS (W220) (98-05)	2.8/3.2/3.7
		S-CLASS (W221) (05-)	6.0
		SL (R230) (01-12)	3.7/5.0/5.4
		SLK (R170) (96-04)	2.0/2.3/3.2
		SLR (R199) (04-)	5.4
		VANEO (414) (02-05)	1.6/1.9
		VIANO (W639) (03-)	3.2
		VITO / MIXTO Box (W639)	3.0/3.2
DOX-2008	AUDI	A3 (96-03)	1.6/1.8
		A4 (94-01)	1.8
		A4 (00-04)	1.8/2.0/2.4
		A4 (02-09)	1.8/2.0/2.4
		A6 (97-05)	1.8/2.0/2.4
		ALLROAD (00-05)	2.7/4.2
		TT (98-06)	1.8
	SEAT	AROSA (97-04)	1.0/1.4
		CORDOBA (02-09)	2.0
		EXEO (08-)	1.8
		IBIZA IV (02-09)	2.0
		IBIZA V (08-)	2.0
		LEON (99-06)	1.4/1.8
		TOLEDO II (99-06)	1.4
	SKODA	FABIA (99-08)	1.0/1.4
		OCTAVIA 1U2/1U5 (96-10)	1.4/1.8/2.0
		SUPERB (01-08)	1.8
	VW	BORA	1.6/2.0/2.3
		GOLF IV (97-08)	1.4/1.6/2.0
		LUPO (98-05)	1.0
		NEW BEETLE (98-11)	1.4/1.6/1.8/2.3
		PASSAT (96-00)	1.8
		PASSAT (96-01)	1.8
		PASSAT (00-05)	1.8/2.0
		PHAETON	4.2/6.0
		POLO (95-05)	1.6
		POLO (97-01)	1.0/1.4

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2008		POLO (01-09)	1.8
continued			
DOX-2009	CITROËN	BERLINGO (96-08)	1.1
		C4	2.0
		EVASION	2.0
		JUMPER (02-)	2.0
		XANTIA (98-03)	1.8
		XSARA	1.6/2.0
		XSARA PICASSO	2.0
	FIAT	DUCATO (94-02)	2.0
		DUCATO (02-06)	2.0
		ULYSSE (94-02)	2.0
	LANCIA	ZETA	2.0
	PEUGEOT	206 (98-)	2.0
		306	1.8
		307	2.0
		406	1.8/2.0/2.2
		607	2.0/2.2
		BOXER (94-06)	2.0
		PARTNER (96-08)	1.1
	SAAB	9-5 (97-)	3.0
	VOLVO	S80 (98-06)	2.8/2.9/3.0
DOX-2010	AUDI	A4 (94-01)	2.4/2.7/2.8
		A6 (97-05)	2.4/2.7/2.8/4.2
		A8 (94-02)	2.8
		ALLROAD (00-05)	2.7
	FORD	GALAXY (92-06)	2.8
	SKODA	SUPERB (01-08)	2.8
	VW	PASSAT (96-00)	2.8
		PASSAT (96-01)	2.8
		PASSAT (00-05)	2.8
		SHARAN (95-)	2.8
DOX-2011	MERCEDES-BENZ	C CLASS (S204) (07-)	1.8
		C CLASS (W204) (07-)	1.6/1.8
		C-CLASS (CL203) (01-08)	1.8/2.0/2.3/3.2
		C-CLASS (S202) (96-01)	2.0/2.6/2.8/4.3
		C-CLASS (S203) (01-07)	1.8/2.0/2.6
		C-CLASS (W203) (00-07)	1.8/2.0/2.6
		CLK (A208) (98-02)	2.3/3.2/4.3
		CLK (A209) (03-10)	1.8/2.6/3.2
		CLK (C208) (97-02)	2.3/3.2/4.3/5.4
		CLK (C209) (02-09)	1.8/2.6/3.2
		E-CLASS (S210) (96-03)	2.0/2.4/2.6
		E-CLASS (S211) (03-09)	1.8/2.6/3.2/5.0
		E-CLASS (W210) (95-02)	2.0/2.4/2.6
		E-CLASS (W211) (02-08)	1.8/2.6/3.2/5.0
		G-CLASS (W463) (89-)	3.2/5.0/5.4
		M-CLASS (W164) (05-)	5.0
		R-CLASS (W251, V251) (06-)	5.0
		SLK (R171) (04-11)	1.8/5.5
DOX-2012	AUDI	A3 (96-03)	1.6
		A4 (94-01)	1.8
		A6 (97-05)	1.8
	SEAT	LEON (99-06)	1.6
		TOLEDO II (99-06)	1.6
	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.6/2.0
	VW	BORA	1.6
		GOLF IV (97-08)	1.6/2.0
		NEW BEETLE (98-11)	2.0
		PASSAT (96-00)	1.8
		PASSAT (96-01)	1.8
		PASSAT (00-05)	2.3
		TOUAREG (02-10)	4.2
		TRANSPORTER IV (90-03)	2.5/2.8
DOX-2013	FORD	FIESTA IV (95-02)	1.3/1.4
		GALAXY (92-06)	2.0/2.3
		PUMA	1.4/1.6/1.7
		SCORPIO II (94-98)	2.0/2.3
		TRANSIT (94-00)	2.0
		TRANSIT TOURNEO (94-00)	2.0
DOX-2014	NISSAN	ALMERA (00-)	1.5/1.8

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DOX-2014		ALMERA TINO (00-)	1.8
continued		MICRA (03-10)	1.0/1.2/1.4
		MICRA C+C (05-)	1.4
		NOTE (06-)	1.4
		PATHFINDER (05-)	4.0
		PRIMERA (02-)	1.6/1.8
DOX-2015	AUDI	A3 (96-03)	1.8
		TT (98-06)	1.8
	SEAT	CORDOBA (99-02)	1.0/1.4/1.6
		IBIZA III (99-02)	1.0/1.4/1.6
		INCA (95-03)	1.4
	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.4/2.0
	VW	BORA	2.0
		CADDY II (95-04)	1.4
		GOLF IV (97-08)	2.0
		LUPO (98-05)	1.6
		NEW BEETLE (98-11)	1.8/2.0/2.5
		POLO (95-02)	1.4/1.6
		POLO (95-05)	1.6
		POLO (97-01)	1.4/1.6
DOX-2016	AUDI	A3 (03-12)	1.6/1.8/2.0/3.2
		A4 (02-09)	4.2
		A8 (02-10)	5.2
		A8 (09-)	4.2
		Q7 (06-)	3.6
	SEAT	ALTEA (04-)	2.0
		ALTEA XL (06-)	2.0
		LEON (05-)	2.0
		TOLEDO III (04-09)	2.0
	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.4
		OCTAVIA 1Z3/1Z5 (04-12)	1.4/1.6/2.0
		YETI	1.8
	VW	CADDY III (04-)	1.4
		EOS (06-)	1.6/2.0
		GOLF PLUS (05-)	1.4/1.6
		GOLF V (03-09)	1.4/1.6/2.0
		TOUAREG (02-10)	3.6
		TOURAN	1.6
DOX-2017	LAND ROVER	FREELANDER (98-06)	1.8
	MG	MG TF	1.6/1.8
		MG ZR	1.4/1.8
		MG ZS	1.6/1.8
		MGF	1.6/1.8
	ROVER	25 (99-05)	1.1/1.4/1.6/1.8
		45 (00-05)	1.4/1.6/1.8
		STREETWISE	1.4/1.6/1.8
DOX-2018	AUDI	A8 (02-10)	3.7/4.2
		TT (98-06)	3.2
	SEAT	INCA (95-03)	1.4
	VW	CADDY II (95-04)	1.4
		NEW BEETLE (98-11)	1.8
		PASSAT (00-05)	4.0
		PHAETON	3.2/6.0
		TOUAREG (02-10)	4.2
DOX-2020	ALFA ROMEO	147	1.6
		156	2.0/2.5
		166	2.0
		GT (03-10)	2.0
		GTV (95-05)	3.0
		MITO	1.4
		SPIDER (94-05)	2.0
	FIAT	500 (07-)	1.4
		500 C (09-)	1.4
		BRAVA (95-01)	1.2
		BRAVO (95-02)	1.2/2.0
		BRAVO (06-)	1.4
		COUPE	2.0
		GRANDE PUNTO (05-)	1.4
		LINEA	1.4
		MAREA	2.0
		PALIO	1.6

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2020		SIENA	1.6
continued		STILO	1.6
	LANCIA	DELTA (08-)	1.4
		KAPPA	2.0/2.4
		LYBRA	2.0
DOX-2021	FORD	FOCUS II (04-10)	2.5
		KUGA	2.5
	SAAB	9-3 (98-03)	2.0/2.3
		9-5 (97-)	2.0/2.3/3.0
	VOLVO	C30 (06-12)	2.5
		C70 I (98-05)	2.0/2.3/2.4/2.5
		C70 II (06-)	2.5
		S40 (04-)	2.5
		S60 (00-10)	2.3/2.4/2.5
		S70 (96-00)	2.0/2.3/2.4
		S80 (98-06)	2.0/2.4/2.5
		V50 (04-)	2.5
		V70 (96-00)	2.3/2.4/2.5
		V70 (00-07)	2.0/2.3/2.4/2.5
		XC70 (97-07)	2.4/2.5
		XC90 (02-)	2.5/2.9
DOX-2022	SAAB	9-3 (98-03)	2.0/2.3
		9-3 (02-)	1.8/2.0
		9-5 (97-)	2.0/2.3
	VOLVO	S80 (98-06)	2.8/2.9/3.0
DOX-2023	AUDI	A6 (97-05)	2.4
		ALLROAD (00-05)	2.7
	SEAT	CORDOBA (99-02)	1.0/1.4/1.6
		IBIZA III (99-02)	1.0/1.4/1.6
		INCA (95-03)	1.4
		LEON (99-06)	2.8
		TOLEDO II (99-06)	2.3
	VW	BORA	2.3/2.8
		CADDY II (95-04)	1.4
		GOLF IV (97-08)	2.3/2.8/3.2
		NEW BEETLE (98-11)	2.3/3.2
		PASSAT (00-05)	4.0
		PHAETON	6.0
		POLO (95-02)	1.4/1.6
		POLO (97-01)	1.4/1.6
		TOUAREG (02-10)	4.2/6.0
DOX-2024	MERCEDES-BENZ	C CLASS (W204) (07-)	2.5/3.0/3.5
		CLS (C219) (04-10)	6.2
		E-CLASS (S211) (03-09)	6.2
		E-CLASS (W211) (02-08)	6.2
		GL-CLASS (X164) (06-)	4.7/5.5
		M-CLASS (W164) (05-)	3.5/6.2
		R-CLASS (W251, V251) (06-)	6.2
		S-CLASS (W221) (05-)	3.5/4.7/5.5
		VIANO (W639) (03-)	3.7
DOX-2025	ALFA ROMEO	145	1.4/1.6/1.8/2.0
		146	1.4/1.6/1.8/2.0
		156	1.6/1.8/2.0/2.5
		159	1.8
		166	2.0/2.5/3.0
		BRERA	1.8
		GTV (95-05)	1.8/2.0/3.0
		SPIDER (94-05)	1.8/2.0
		SPIDER (06-)	1.8
	FIAT	DOBLO (01-)	1.2/1.6
	LANCIA	KAPPA	3.0
DOX-2026	BMW	1 (E81, E87)	3.0
		1 (E82)	3.0
		1 (E88)	3.0
		3 (E90)	2.5/3.0
		3 (E91)	2.5/3.0
		3 (E92)	2.5/3.0
		3 (E93)	2.5/3.0
		5 (E60)	2.5/3.0
		5 (E61)	2.5/3.0
		5 (F10)	3.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2026		5 (F11)	3.0
continued		7 (E65, E66)	3.0
		X1 (E84)	3.0
		X3 (E83)	2.5/3.0
		X5 (E70)	3.0
		Z4 (E85)	2.5/3.0
		Z4 (E86)	3.0
		Z4 (E89)	2.5/3.0
	MERCEDES-BENZ	C-CLASS (CL203) (01-08)	3.2
		C-CLASS (S203) (01-07)	2.6/3.2/5.4
		C-CLASS (W203) (00-07)	2.6/3.2/5.4
		CLK (A209) (03-10)	2.6/3.2/5.0/5.5
		CLK (C209) (02-09)	2.6/3.2/5.0/5.4
		CLS (C219) (04-10)	5.0/5.4
		E-CLASS (S211) (03-09)	2.6/3.2/5.0/5.4
		E-CLASS (W211) (02-08)	2.6/3.2/5.0/5.5
		M-CLASS (W164) (05-)	5.0
		R-CLASS (W251, V251) (06-)	5.0
		SL (R230) (01-12)	5.0/5.4
		SLR (R199) (04-)	5.4
DOX-2027	AUDI	A3 (96-03)	1.8
		TT (98-06)	1.8
	SEAT	ALHAMBRA (96-10)	1.8/2.0
		IBIZA IV (02-09)	1.8
		LEON (99-06)	1.8
		TOLEDO II (99-06)	1.8
	SKODA	OCTAVIA 1U2/1U5 (96-10)	1.8/2.0
	VW	BORA	1.8/2.0
		GOLF IV (97-08)	1.8/2.0/2.3
		NEW BEETLE (98-11)	1.8/2.0
		PHAETON	4.2
		SHARAN (95-)	1.8/2.0
DOX-2028	CITROËN	C1	1.0
	PEUGEOT	107	1.0
	TOYOTA	AYGO (05-)	1.0
		COROLLA (01-07)	1.4
		YARIS (05-)	1.0
DOX-2030	AUDI	A4 (00-04)	1.8/4.2
		A4 (02-09)	3.0/4.2
		A6 (97-05)	2.7/3.0
		ALLROAD (00-05)	4.2
	SEAT	AROSA (97-04)	1.0
		EXEO (08-)	1.8
	VW	BORA	2.3
		NEW BEETLE (98-11)	1.8/2.3
		PHAETON	4.2
DOX-2031	HONDA	JAZZ II (02-08)	1.2/1.4
DOX-2033	MERCEDES-BENZ	C-CLASS (CL203) (01-08)	2.0
		C-CLASS (S202) (96-01)	2.4/2.6/2.8/4.3
		C-CLASS (S203) (01-07)	2.0
		C-CLASS (W203) (00-07)	2.0
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
DOX-2034	CITROËN	C5 (01-04)	2.0
		C5 (04-08)	1.8
	PEUGEOT	407	2.0/2.2
DOX-2035	AUDI	A4 (94-01)	1.8/2.4/2.7/2.8
		A6 (97-05)	2.4/2.7/2.8/4.2
		A8 (94-02)	2.8
		ALLROAD (00-05)	2.7
	SKODA	SUPERB (01-08)	2.8
	VW	PASSAT (96-00)	2.8
		PASSAT (96-01)	2.8
		PASSAT (00-05)	2.8
DOX-2036	AUDI	A3 (03-12)	3.2
		A4 (02-09)	2.0/4.2
		A6 (04-11)	2.0/3.0/4.2
		A6 Allroad (06-11)	4.2
		A8 (02-10)	4.2
		Q7 (06-)	3.6
		R8 (07-)	4.2/5.2

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2036	SEAT	EXEO (08-)	2.0
continued	SKODA	SUPERB (08-)	3.6
	VW	PASSAT (05-10)	3.2/3.6
		PASSAT (09-)	3.6
		PASSAT CC (08-)	3.6
		TOUAREG (02-10)	3.6
DOX-2037	BMW	3 (E90)	4.0
		3 (E92)	4.0
		3 (E93)	4.0
		5 (E60)	2.5/3.0/4.0/4.8
		5 (E61)	2.5/3.0/4.8
		6 (E63)	4.8
		6 (E64)	4.8
		7 (E65, E66)	3.0/4.0/4.8/6.0
		X5 (E70)	4.4/4.8
		X6 (E71)	4.4
	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.4/2.6/2.8/4.3
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
DOX-2038	AUDI	A8 (02-10)	6.0
	SEAT	ALHAMBRA (96-10)	2.8
		AROSA (97-04)	1.0/1.4
		CORDOBA (99-02)	1.8
		IBIZA III (99-02)	1.8
	VW	LUPO (98-05)	1.0/1.4
		PASSAT (00-05)	2.3
		PHAETON	6.0
		POLO (97-01)	1.0/1.4/1.6
		SHARAN (95-)	2.8
		TOUAREG (02-10)	3.2/6.0
DOX-2039	BMW	5 (E60)	2.5/3.0
		5 (E61)	2.5/3.0
		5 (F10)	3.0
		6 (E63)	3.0
		6 (E64)	3.0
		7 (F01, F02)	3.0
		X6 (E71)	3.0
	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.6/2.8/4.3
		C-CLASS (S203) (01-07)	2.6/3.2
		C-CLASS (W203) (00-07)	2.6/3.2
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
		SL (R230) (01-12)	3.7
		SLK (R171) (04-11)	5.5
DOX-2040	OPEL	AGILA (00-07)	1.0/1.2
		ASTRA G (98-09)	1.2/2.0
		ASTRA H (04-)	2.0
		CORSA C (00-09)	1.2
		CORSA C BOX (00-)	1.2
		OMEGA B (94-03)	2.6/3.2
		SPEEDSTER	2.0
		VECTRA B (95-03)	2.6
		ZAFIRA (99-05)	2.0
		ZAFIRA (05-11)	2.0
	VAUXHALL	AGILA (00-08)	1.2
		OMEGA	2.6/3.2
		VECTRA (95-03)	2.6
DOX-2041	AUDI	A1 (10-)	1.4
		A3 (03-12)	1.4/1.8/2.0/3.2
		A4 (07-)	1.8/2.0
		A4 Allroad (09-)	2.0
		A5 (07-)	1.8/2.0/4.2
		A6 (04-11)	3.0/4.2/5.2
		A6 (10-)	2.0
		A6 Allroad (06-11)	4.2
		A8 (02-10)	4.2
		A8 (09-)	4.2
		Q3 (11-)	2.0
		Q5 (08-)	2.0
		TT (06-)	2.5
	SEAT	ALTEA (04-)	1.8/2.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2041		ALTEA XL (06-)	1.8/2.0
continued		EXEO (08-)	1.8/2.0
		IBIZA V (08-)	1.4
		LEON (05-)	1.8/2.0
		TOLEDO III (04-09)	2.0
	SKODA	FABIA (06-)	1.4
		OCTAVIA 1Z3/1Z5 (04-12)	1.4/1.8/2.0
		SUPERB (08-)	1.8/2.0/3.6
		YETI	1.4
	VW	BEETLE (11-ON)	1.4
		CADDY III (04-)	2.0
		EOS (06-)	1.4/2.0/3.2
		GOLF PLUS (05-)	1.4/2.0
		GOLF V (03-09)	1.4/2.0/3.2
		GOLF VI (08-13)	1.4
		GOLF VI (08-)	1.4/1.8
		JETTA (05-10)	1.4/2.0
		MULTIVAN	2.0/3.2
		PASSAT (05-10)	1.4/1.6/1.8
		PASSAT (09-)	1.4/3.6
		PASSAT CC (08-)	1.4/1.8/2.0/3.6
		POLO (95-05)	1.6
		POLO (09-)	1.4
		SCIROCCO (08-)	1.4/2.0
		SHARAN (10-)	1.4
		TIGUAN	1.4/2.0
		TOUAREG (10-)	3.0/3.6
		TOURAN	1.4/1.6/2.0
		TRANSPORTER V (03-)	2.0/3.2
DOX-2042	MG	MG ZR	1.4
		MG ZS	1.6/1.8/2.5
	ROVER	25 (99-05)	1.1/1.4/1.6
		45 (00-05)	1.4/1.6/1.8/2.0
		STREETWISE	1.4/1.6
DOX-2044	MERCEDES-BENZ	A-CLASS (W169) (04-12)	1.5/1.7/2.0
		B-CLASS (W245) (05-11)	1.5/1.7/2.0
		C CLASS (S204) (07-)	2.5/3.0/3.5/6.2
		C CLASS (W204) (07-)	2.5/3.0/3.5/6.2
		C-CLASS (CL203) (01-08)	2.5/3.5
		C-CLASS (S203) (01-07)	2.5/3.0/3.5
		C-CLASS (W203) (00-07)	2.5/3.0/3.5
		CLK (A209) (03-10)	3.0/3.5/6.2
		CLK (C209) (02-09)	3.0/3.5/6.2
		CLS (C219) (04-10)	3.5
		E-CLASS (S211) (03-09)	3.0/3.5/5.5
		E-CLASS (W211) (02-08)	2.5/3.0/3.5/5.5
		GL-CLASS (X164) (06-)	4.7/5.5
		M-CLASS (W164) (05-)	3.5
		SL (R230) (01-12)	3.5/5.5
		SLK (R171) (04-11)	3.0/3.5
DOX-2045	CITROËN	BERLINGO (96-08)	1.1/1.4
		C2	1.1
		C3 (02-09)	1.1/1.4
		C4	1.6/2.0
		C5 (01-04)	2.0/3.0
		C5 (04-08)	1.8/3.0
		C5 (08-)	3.0
		C6	3.0
		C8	2.0/2.2
		EVASION	2.0
		JUMPER (02-)	2.0
		JUMPY (95-06)	2.0
		SAXO	1.1/1.4/1.6
		XSARA	1.4/1.6/2.0
		XSARA PICASSO	2.0
	FIAT	ULYSSE (94-02)	2.0
	LANCIA	ZETA	2.0
	PEUGEOT	106 (96-04)	1.1
		206 (98-)	2.0
		306	1.4/1.6/1.8
		307	1.6/2.0

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2045		406	2.0/2.2
continued		407	2.0/2.2/3.0
		607	2.0/2.2/3.0
		806	2.0
		807	2.0/2.2
		BOXER (94-06)	2.0
		EXPERT (95-07)	2.0
		PARTNER (96-08)	1.1/1.6
	VOLVO	S60 (00-10)	2.5
		S80 (98-06)	2.5
		V70 (00-07)	2.3/2.5
		XC70 (97-07)	2.5
		XC90 (02-)	2.5
DOX-2046	BMW	1 (E81, E87)	1.6/2.0/3.0
		1 (E82)	2.0/3.0
		1 (E88)	2.0/3.0
		3 (E90)	1.6/2.0/2.5/3.0
		3 (E91)	1.6/2.0/2.5/3.0
		3 (E92)	2.0/2.5/3.0
		3 (E93)	2.0/2.5/3.0
		5 (E60)	2.5/3.0/4.0/4.8
		5 (E61)	2.5/3.0/4.8
		5 (F10)	3.0/4.4
		5 (F11)	3.0
		5 GRAN TURISMO (F07)	4.4
		6 (E63)	3.0/4.8
		6 (E64)	3.0/4.8
		7 (E65, E66)	4.0/4.8
		7 (F01, F02)	3.0/4.4/6.0
		X1 (E84)	2.0/3.0
		X3 (E83)	2.5/3.0
		X5 (E70)	3.0/4.4
		X6 (E71)	3.0/4.4
		Z4 (E85)	2.5/3.0
		Z4 (E86)	3.0
		Z4 (E89)	2.5/3.0
DOX-2047	AUDI	A3 (96-03)	1.8
		TT (98-06)	1.8
	SEAT	ALHAMBRA (96-10)	2.8
		LEON (99-06)	1.8
	VW	BORA	1.4
		SHARAN (95-)	2.8
DOX-2048	AUDI	A8 (94-02)	3.7/4.2
DOX-2049	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.6/2.8/4.3
		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
DOX-2050	CHEVROLET	CAPTIVA (06-)	3.2
	OPEL	AGILA (00-07)	1.0/1.2
		ASTRA G (98-09)	1.2
		ASTRA H (04-)	1.2/1.4
		COMBO (01-12)	1.4
		CORSA C (00-09)	1.0/1.2/1.4
		CORSA C BOX (00-)	1.2
		CORSA D (06-)	1.0/1.2/1.4
		MERIVA (03-10)	1.4
		OMEGA B (94-03)	2.6
		SIGNUM	3.2
		TIGRA	1.4
		VECTRA C (02-)	3.2
	SAAB	9-3 (02-)	2.8
	VAUXHALL	AGILA (00-08)	1.0/1.2
		ANTARA	3.2
		ASTRA Mk IV (98-06)	1.2
		ASTRA MK V (04-)	1.4
		COMBO (01-12)	1.4
		CORSA (00-06)	1.0/1.2/1.4
		CORSA (06-)	1.0/1.2/1.4
		CORSAVAN (00-)	1.2
		CORSAVAN (06-)	1.2
		MERIVA (03-10)	1.4
		OMEGA	2.6

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-2050		SIGNUM	2.8/3.2
continued		TIGRA (04-09)	1.4
		VECTRA (00-08)	2.8/3.2
DOX-2051	ALFA ROMEO	147	1.6/2.0/3.2
		156	1.6/1.8/2.0
		GT (03-10)	1.8/3.2
		GTV (95-05)	2.0/3.0/3.2
		SPIDER (94-05)	2.0/3.2
DOX-2052	OPEL	ASTRA G (98-09)	2.0
		ASTRA H (04-)	2.0
		SPEEDSTER	2.0
		ZAFIRA (99-05)	2.0
		ZAFIRA (05-11)	2.0
	VAUXHALL	ASTRA Mk IV (98-06)	2.0
		ASTRA MK V (04-)	2.0
		SPEEDSTER (VX220)	2.0
		ZAFIRA (98-05)	2.0
		ZAFIRA (05-)	2.0
DOX-2053	HONDA	JAZZ II (02-08)	1.2/1.4
DOX-2054	TOYOTA	AURIS (06-12)	1.4
		COROLLA (01-07)	1.4
DOX-2055	FORD	C-MAX (07-)	1.6
		FOCUS C-MAX (03-07)	1.6
		FOCUS II (04-10)	1.4/1.6
		GRAND C-MAX	1.6
DOX-2056	TOYOTA	YARIS (99-05)	1.0
		YARIS (05-)	1.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0101	TOYOTA	4 RUNNER (84-96)	2.4/3.0
		CAMRY (86-91)	2.0/2.5
		CAMRY (91-97)	2.2
		CAMRY (96-02)	2.2
		CARINA E (92-97)	1.6/2.0
		CARINA II (83-93)	1.6/2.0
		CELICA (89-93)	1.6/2.0
		CELICA (89-94)	2.0
		CELICA (93-99)	1.8/2.0
		COROLLA (87-95)	1.6
		HIACE III (87-95)	2.4
		HILUX (83-05)	2.4
		LAND CRUISER 80 (90-98)	4.0
		LAND CRUISER (69-97)	2.4
		LITEACE (92-97)	2.2
		MR 2 (89-00)	2.0
		PREVIA (90-00)	2.4
DOX-0102	TOYOTA	COROLLA (91-99)	1.8
		COROLLA (97-)	1.8
		LITEACE (92-97)	2.2
		PREVIA (90-00)	2.4
		STARLET (89-96)	1.3
DOX-0104	CITROËN	BERLINGO (96-08)	1.8
		SAXO	1.4
		XANTIA (93-98)	1.8
		XANTIA (98-03)	1.8
		XSARA	1.4/1.8
	PEUGEOT	106 (91-96)	1.1
		106 (96-04)	1.4
		206 (98-)	1.1/1.4
		306	1.4/1.8
		406	1.8
		PARTNER (96-08)	1.4/1.8
	TOYOTA	CARINA E (92-97)	1.6
DOX-0106	DAIHATSU	SIRION (05-)	1.0
	LEXUS	GS (05-11)	3.0
		LS (06-)	4.6
	TOYOTA	AURIS (06-12)	1.3/1.6/1.8
		AVENSIS (97-03)	1.8
		AVENSIS (03-08)	1.6/1.8
		COROLLA (01-07)	1.6
		COROLLA (06-)	1.6
		COROLLA VERSO (01-09)	1.6/1.8
		LAND CRUISER (02-)	4.0
		YARIS (99-05)	1.0
		YARIS (05-)	1.3
DOX-0107	TOYOTA	CAMRY (86-91)	2.0
		CAMRY (91-97)	3.0
		COROLLA (87-95)	1.3
		SUPRA (86-93)	3.0
DOX-0108	TOYOTA	COROLLA (87-95)	1.6
		COROLLA (91-99)	1.3/1.6/1.8
DOX-0109	DAIHATSU	COPEN	0.7/1.3
		CUORE (98-03)	1.0
		CUORE (03-07)	1.0
		GRAN MOVE	1.6
		MATERIA	1.3/1.5
		MOVE (94-02)	1.0
		SIRION (98-05)	1.0/1.3
		SIRION (05-)	1.0/1.3/1.5
		TERIOS (97-05)	1.3
		TERIOS (05-)	1.3/1.5
		TREVIS	1.0
		YRV	1.0/1.3
	HONDA	ACCORD VII (97-05)	2.0/3.0
		CIVIC V (91-97)	1.5/1.6
		CIVIC VI (93-01)	1.4/1.6
		CIVIC VII (00-05)	1.4/1.6/1.7
		CR-V (95-02)	2.0
		CRX (92-98)	1.6
		HR-V	1.6

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0109		LEGEND II (91-96)	3.2
continued		LEGEND III (96-)	3.5
		LOGO	1.3
		NSX (94-05)	3.0/3.2
		PRELUDE V (96-00)	2.0
	LAND ROVER	DISCOVERY III (04-)	4.4
		RANGE ROVER III (02-12)	4.2
		RANGE ROVER SPORT (05-)	4.4
	LEXUS	GS (93-97)	3.0
		GS (97-05)	3.0/4.3
		GS (05-11)	3.0/3.5/4.3/4.6
		GX (09-)	4.6
		IS C (09-)	2.5
		IS I (99-05)	2.0/3.0
		IS II (05-)	2.5/5.0
		LS (94-00)	4.0
		LS (00-06)	4.3
		LS (06-)	4.6/5.0
		LX (98-08)	4.7
		RX (03-08)	3.0/3.3/3.5
		RX (08-)	3.5
		SC (01-10)	4.3
	MAZDA	3 (00-09)	1.4/1.6
		3 (09-)	1.6
		323 C V (94-98)	1.8
		323 F V (94-98)	1.8
		323 S V (94-98)	1.8
		MPV (95-99)	3.0
		MPV (99-06)	2.0/2.3/2.5/3.0
		MX-3	1.8
		MX-5 (90-98)	1.6/1.8
		MX-5 (98-05)	1.6/1.8
		MX-5 (05-)	1.8/2.0
		RX 8 (03-12)	2.6
	MITSUBISHI	3000 GT	3.0
		CARISMA	1.6/1.8
		COLT III (88-92)	1.6/1.8
		COLT IV (92-96)	1.6/1.8
		COLT V (95-03)	1.6
		ECLIPSE (89-95)	2.0
		ECLIPSE (94-99)	2.0
		GALANT IV (87-92)	2.0
		GALANT IV (87-93)	2.0
		GALANT V (92-96)	1.8/2.0/2.5
		GALANT VI (96-04)	2.0/2.4/2.5
		GRANDIS (04-)	2.4
		L 200 (96-07)	2.4
		L 300 (80-94)	2.0
		L 300 (94-08)	2.0
		L 400 (95-05)	2.0
		LANCER EVO	2.0
		LANCER IV (88-94)	1.6/1.8
		LANCER V (92-96)	1.6/1.8
		LANCER V (92-03)	1.6
		LANCER VI (95-04)	1.6
		LANCER VII (03-07)	2.0
		OUTLANDER (03-06)	2.0/2.4
		OUTLANDER (06-)	3.0
		PAJERO II (90-00)	3.0/3.5
		PAJERO III (00-07)	3.5
		PAJERO IV (06-)	3.8
		PAJERO PININ	1.8/2.0
		PAJERO SPORT (97-09)	3.0
		SIGMA (90-96)	3.0
		SPACE RUNNER (91-99)	1.8
		SPACE RUNNER (99-02)	2.0/2.4
		SPACE STAR	1.3/1.6/1.8
		SPACE WAGON (91-98)	2.0/2.4
		SPACE WAGON (98-04)	2.0/2.4
	OPEL	ASTRA G (98-09)	2.2
		SPEEDSTER	2.2

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0109		VECTRA B (95-03)	2.2
continued		VECTRA C (02-)	2.2
		ZAFIRA (99-05)	2.2
	SUBARU	FORESTER (97-02)	2.0
		JUSTY II (95-03)	1.3
	SUZUKI	ALTO III (94-)	1.0
		ALTO IV (02-08)	1.1
		BALENO (95-02)	1.3/1.6
		CARRY (99-)	1.3
		GRAND VITARA (98-06)	1.6/2.0/2.7
		IGNIS (00-03)	1.3
		JIMNY	1.3
		LIANA (01-)	1.3/1.6
		SWIFT II (89-01)	1.0/1.3
		SWIFT III (05-)	1.3/1.5
		SX4 (06-)	1.5/1.6
		VITARA (88-99)	1.6
		VITARA (88-02)	1.6
		X-90	1.6
	TOYOTA	AURIS (06-12)	1.3/1.6/1.8
		AVENSIS (97-03)	1.6/1.8/2.0
		AVENSIS (03-08)	1.6/1.8/2.0/2.4
		AVENSIS (09-)	1.6/1.8/2.0
		AVENSIS VERSO (01-09)	2.0
		CAMRY (96-02)	2.2/3.0
		CAMRY (01-06)	3.0/3.5
		CAMRY (06-11)	2.4
		CARINA E (92-97)	2.0
		CELICA (93-99)	1.8/2.0
		CELICA (99-05)	1.8
		COROLLA (97-)	1.6/1.8
		COROLLA (01-07)	1.4/1.6/1.8
		COROLLA (06-)	1.3/1.6
		COROLLA VERSO (01-09)	1.6/1.8
		HIACE IV (95-06)	2.7
		LAND CRUISER 90 (95-)	3.4
		LAND CRUISER 100 (98-)	4.7
		LAND CRUISER (02-)	4.0
		MR 2 (89-00)	2.0
		MR 2 (99-07)	1.8
		PASEO (95-00)	1.5
		PICNIC (96-03)	2.0
		PREVIA (00-06)	2.4
		PRIUS (00-04)	1.5
		PRIUS (03-09)	1.5
		PRIUS (09-)	1.8
		RAV 4 I (94-00)	2.0
		RAV 4 II (00-06)	1.8/2.0
		RAV 4 III (05-12)	2.0
		STARLET (96-99)	1.3
		TERCEL (94-99)	1.5
		YARIS (99-05)	1.0/1.3/1.5
		YARIS (05-)	1.3/1.8
		YARIS VERSO (99-05)	1.3/1.5
	VAUXHALL	ASTRA Mk IV (98-06)	2.2
		VECTRA (95-03)	2.2
		VECTRA (00-08)	2.2
		VX220	2.2
		ZAFIRA (98-05)	2.2
	VOLVO	C30 (06-12)	2.4
		C70 II (06-)	2.4
		S40 (04-)	2.4
		S60 (00-10)	2.3/2.4
		S80 (98-06)	2.4
		V50 (04-)	1.8/2.0/2.4
		V70 (00-07)	2.4
DOX-0110	LEXUS	LX (98-08)	4.7
	TOYOTA	4 RUNNER (84-96)	2.7/3.4
		CARINA E (92-97)	2.0
		CELICA (93-99)	2.0
		COROLLA (97-)	1.8

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0110		HIACE IV (95-06)	2.4/2.7
continued		LAND CRUISER 80 (90-98)	4.5
		LAND CRUISER 90 (95-)	3.4
		LAND CRUISER 100 (98-)	4.7
		MR 2 (89-00)	2.0
		PREVIA (90-00)	2.4
		RAV 4 I (94-00)	2.0
		SUPRA (93-02)	3.0
DOX-0111	TOYOTA	COROLLA (91-99)	1.3
		COROLLA (97-)	1.4/1.6
DOX-0113	DAIHATSU	COPEN	0.7/1.3
		MATERIA	1.3/1.5
		SIRION (05-)	1.3/1.5
		TERIOS (05-)	1.3/1.5
		YRV	1.3
	HONDA	ACCORD VII (97-05)	2.0
		CIVIC VII (00-05)	1.4/1.6
		NSX (94-05)	3.0/3.2
	JAGUAR	X-TYPE	2.0/2.5/3.0
	MAZDA	3 (00-09)	1.4/1.6
		MPV (99-06)	2.0/2.3/3.0
		MX-5 (98-05)	1.6/1.8
	MITSUBISHI	ASX	1.8
		CARISMA	1.6/1.8
		COLT V (95-03)	1.6
		GALANT VI (96-04)	2.0/2.4/2.5
		GRANDIS (04-)	2.4
		L 200 (96-07)	2.4
		OUTLANDER (03-06)	2.0/2.4
		OUTLANDER (06-)	3.0
		PAJERO III (00-07)	3.5
		PAJERO IV (06-)	3.8
		PAJERO PININ	2.0
		PAJERO SPORT (97-09)	3.0
		SPACE RUNNER (99-02)	2.0/2.4
		SPACE STAR	1.3/1.6/1.8
		SPACE WAGON (98-04)	2.0/2.4
	SUBARU	FORESTER (97-02)	2.0
		FORESTER (02-08)	2.0/2.5
		IMPREZA (00-08)	2.0/2.5
		JUSTY III (03-)	1.3/1.5
		LEGACY IV (03-)	2.5/3.0
		OUTBACK (00-03)	3.0
		OUTBACK (03-)	2.5/3.0
	SUZUKI	ALTO IV (02-08)	1.1
		IGNIS (00-03)	1.3
		IGNIS (03-)	1.3/1.5
		LIANA (01-)	1.3/1.6
		SWIFT III (05-)	1.3/1.5
		WAGON R+ (00-)	1.3
	VOLVO	C70 I (98-05)	2.5
		S60 (00-10)	2.4
		S70 (96-00)	2.4/2.5
		S80 (98-06)	2.4
		V70 (96-00)	2.4/2.5
		V70 (00-07)	2.4
DOX-0114	AUDI	A4 (94-01)	2.4/2.8
		A6 (94-97)	2.8
		A6 (97-05)	2.4/2.7/2.8
		A8 (94-02)	2.8
	CHEVROLET	AVALANCHE (07-)	5.3
	FIAT	PUNTO (93-00)	1.2
	FORD	ESCORT V (90-94)	1.3/1.4/1.8/2.0
		ESCORT VI (92-95)	1.3/1.4/1.6
		ESCORT VII (95-98)	1.3/1.4/1.6
		ESCORT VII (95-02)	1.3/1.4/1.6/1.8
		FIESTA III (89-97)	1.1/1.3/1.4/1.6
		FIESTA IV (95-02)	1.3
		KA (96-08)	1.3
		ORION III (90-93)	1.3/1.4/1.6/1.8
		SCORPIO I (85-94)	2.0/2.4/2.9

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0114		SCORPIO II (94-98)	2.0/2.9
continued		TRANSIT (91-94)	2.0/2.9
	HYUNDAI	COUPE (96-02)	1.6/2.0
		LANTRA	1.5/1.6/1.8/2.0
	MERCEDES-BENZ	C-CLASS (S202) (96-01)	1.8/2.0/2.3
		C-CLASS (W202) (93-00)	2.0/2.3
		CLK (A208) (98-02)	2.0/2.3
		CLK (C208) (97-02)	2.0/2.3
		E-CLASS (S210) (96-03)	2.0/2.3
		E-CLASS (W210) (95-02)	2.0/2.3
		M-CLASS (W163) (98-05)	2.3
		SLK (R170) (96-04)	2.0/2.3
	MITSUBISHI	CARISMA	1.6/1.8
		SPACE STAR	1.3/1.8
	NISSAN	MICRA (92-03)	1.0/1.4
	OPEL	ASTRA G (98-09)	1.4/1.6
		COMBO (01-12)	1.6
		CORSA C (00-09)	1.4
		MERIVA (03-10)	1.6
		VECTRA B (95-03)	1.6
		VECTRA C (02-)	1.6
		ZAFIRA (99-05)	1.6
	RENAULT	CLIO II (98-)	1.6
		ESPACE (96-02)	2.0
		LAGUNA (93-01)	1.6/1.8/2.0
		MEGANE I (95-03)	2.0
		MEGANE I (96-03)	2.0
		SAFRANE II (96-00)	3.0
		SPORT SPIDER	2.0
		TWINGO (93-07)	1.2
	SEAT	AROSA (97-04)	1.0
		CORDOBA (93-99)	1.4/1.6/1.8
		IBIZA II (93-99)	1.0/1.4/1.6/1.8
		INCA (95-03)	1.4/1.6
		TOLEDO I (91-99)	1.6/1.8
	TOYOTA	AVENSIS (97-03)	1.6
		CARINA E (92-97)	1.6
		COROLLA (97-)	1.4
	VAUXHALL	ASTRA Mk IV (98-06)	1.4/1.6
		ASTRAVAN Mk IV (98-06)	1.6
		COMBO	1.6
		COMBO (01-12)	1.6
		CORSA (00-06)	1.4
		MERIVA (03-10)	1.6
		VECTRA (95-03)	1.6
		VECTRA (00-08)	1.6
		ZAFIRA (98-05)	1.6
	VOLVO	850	2.0/2.5
	VW	CADDY II (95-04)	1.4/1.6
		GOLF III (91-99)	1.8
		GOLF IV (97-08)	1.8
		LUPO (98-05)	1.0
		PASSAT (88-97)	1.8
		PASSAT (96-00)	2.8
		PASSAT (96-01)	2.8
		POLO (95-02)	1.4/1.6
		POLO (95-05)	1.0
		VENTO	1.8
DOX-0115	AUDI	80 (86-91)	1.8/2.0
		80 (91-96)	1.6/2.0/2.3
		90 (87-91)	2.0/2.2/2.3
		100 (90-94)	2.0/2.2/2.3
		A6 (94-97)	2.0/2.2/2.3
		A6 (97-05)	2.4
		A8 (94-02)	2.8
		CABRIOLET (93-00)	2.0/2.3/2.8
		COUPE (88-96)	2.0/2.2/2.3
		QUATTRO (80-91)	2.2
		V8 (88-94)	3.6/4.2
	CHRYSLER	GS DAYTONA SHELBY	2.2
		LE BARON (86-96)	2.5

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0115	FIAT	COUPE	2.0
continued		FIORINO (77-88)	1.5
		FIORINO (88-01)	1.4/1.5/1.6
		PANDA (80-04)	1.0/1.1
		TEMPRA	1.4/1.6
		TIPO	1.4/1.6/1.8/2.0
		UNO (83-10)	1.0/1.1/1.3
	FORD	ESCORT IV (85-90)	1.4/1.6
		ORION I (83-86)	1.6
		ORION II (85-90)	1.4/1.6
		SCORPIO I (85-94)	2.0/2.4/2.9
		SIERRA (87-93)	2.0/2.9
	HYUNDAI	ACCENT (94-00)	1.3/1.5
		LANTRA	1.5
	LANCIA	DEDRA	1.6/1.8/2.0
		DELTA (93-99)	1.4/2.0
		THEMA (86-94)	2.0
		Y10	1.1/1.3
	MERCEDES-BENZ	COUPE (C124) (87-93)	2.3
		E-CLASS (W124) (84-95)	2.0/2.3/2.6/3.0
	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		MICRA (92-03)	1.0/1.3
		PRIMERA (96-02)	1.8/2.0
	OPEL	ASTRA F (91-01)	2.0
		CALIBRA	2.0/2.5
		FRONTERA A (92-98)	2.0/2.2
		OMEGA A (86-94)	2.0/2.6/3.0
		OMEGA B (94-03)	2.0/2.5/3.0
		SENATOR B (87-93)	2.6/3.0
		SINTRA	2.2/3.0
		VECTRA A (88-95)	2.0/2.5
		VECTRA B (95-03)	2.5
	RENAULT	CLIO I (90-98)	1.2
		CLIO II (98-)	1.2
		KANGOO (97-)	1.2
		LAGUNA (93-01)	1.8/2.0
		RAPID	1.2/1.4
	SEAT	TOLEDO I (91-99)	1.8
	SUBARU	IMPREZA (92-00)	1.6/1.8/2.0
		LEGACY III (98-03)	2.0/2.5
	VAUXHALL	CALIBRA	2.0/2.5
		CARLTON Mk III (86-94)	2.0/2.6
		CAVALIER Mk III (88-95)	2.0
		FRONTERA (92-98)	2.0/2.2
		OMEGA	2.0/2.5/3.0
		SENATOR (87-93)	2.6/3.0
		VECTRA (95-03)	2.5
	VOLVO	440	1.6/1.7/1.8/2.0
		460	1.6/1.7/1.8/2.0
		480	1.7/2.0
		740	2.0/2.3
		760	2.3/2.8
		940	2.0/2.3
		960	2.0
	VW	CORRADO	1.8
		GOLF II (83-92)	1.3/1.8
		JETTA (84-92)	1.3/1.8
		PASSAT (88-97)	1.8/2.0
		POLO (81-94)	1.0/1.3
		SCIROCCO (80-92)	1.8
		TRANSPORTER IV (90-03)	2.0/2.5
DOX-0116	AUDI	80 (91-96)	2.0/2.6/2.8
		100 (90-94)	2.0/2.6/2.8
		A6 (94-97)	2.0/2.6
		CABRIOLET (93-00)	2.6
		COUPE (88-96)	2.8
	CHEVROLET	CORVETTE (83-97)	5.6/5.7
	HYUNDAI	ACCENT (94-00)	1.3/1.5
	MAZDA	323 C V (94-98)	1.5
		323 F V (94-98)	1.5

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0116		323 S V (94-98)	1.5
continued		DEMIO	1.3
		MX-3	1.6
	MERCEDES-BENZ	190 (W201)	2.0/2.3/2.5/2.6
		COUPE (C124) (87-93)	2.3/3.0
		E-CLASS (W124) (84-95)	2.0/2.3/2.6/3.0
		KOMBI (S124) (85-93)	2.0/2.3/3.0
	NISSAN	100 NX (90-94)	1.6
		ALMERA (95-00)	1.4/1.6
		PRIMERA (90-98)	1.6
		PRIMERA (96-02)	1.6/2.0
		SUNNY (90-03)	1.4/1.6
	RENAULT	19 I (88-92)	1.4/1.7/1.8
		19 II (92-95)	1.4/1.7/1.8
		19 II (92-03)	1.2/1.4/1.7/1.8
		21	1.7/2.0/2.1/2.2
		25	2.0/2.5
		CLIO I (90-98)	1.2/1.4/1.8/2.0
		CLIO II (98-)	1.0/1.1/1.2
		ESPACE (91-96)	2.0/2.2/2.8
		KANGOO (97-)	1.2/1.4
		LAGUNA (93-01)	1.8/2.0
		MEGANE I (95-03)	1.4/1.6
		MEGANE I (96-03)	1.4/1.6/2.0
		RAPID	1.4
		SAFRANE I (92-96)	2.0/2.2/3.0
		SUPER 5	1.7
		THALIA (98-03)	1.6
		TRAFIC (89-01)	2.2
		TWINGO (93-07)	1.2
	SEAT	CORDOBA (93-99)	1.8
		IBIZA II (93-99)	1.8
	SUZUKI	VITARA (88-99)	1.6
		VITARA (88-02)	1.6
	VOLVO	940	2.0/2.3
	VW	CORRADO	1.8/2.0
		GOLF I (74-93)	1.8
		GOLF II (83-92)	1.3/1.8
		GOLF III (91-99)	1.8
		JETTA (84-92)	1.3/1.8
		LT 40-55 I (75-96)	2.4
		PASSAT (88-97)	1.8/2.0
		POLO (81-94)	1.3
		TRANSPORTER IV (90-03)	2.0/2.5
		VENTO	1.8
DOX-0117	AUDI	A3 (96-03)	1.6/1.8
		A4 (94-01)	1.6/1.8
		A6 (94-97)	1.8/4.2
		A6 (97-05)	1.8
		A8 (94-02)	3.7/4.2
		CABRIOLET (93-00)	1.8
	BMW	3 (E36)	1.9
		3 (E46)	1.8/1.9/2.0
		5 (E39)	2.0/2.2/2.5
		5 (E60)	2.2/2.5/3.0
		5 (E61)	2.5
		7 (E38)	2.8/3.5/4.4/5.4
		7 (E65, E66)	3.0
		8 (E31)	4.4/5.4
		X3 (E83)	2.5/3.0
		X5 (E53)	3.0/4.4/4.6/4.8
		Z3 (E36)	1.9/2.0/2.2
		Z4 (E85)	2.2/2.5/3.0
		Z8 (E52)	4.9
	HYUNDAI	COUPE (96-02)	2.0
	KIA	CARENS (00-02)	1.8
		RETONA	2.0
		SHUMA (01-04)	1.8
		SPORTAGE (94-03)	2.0
	LAND ROVER	RANGE ROVER III (02-12)	4.4
	MERCEDES-BENZ	C-CLASS (S202) (96-01)	2.4/2.6/2.8/4.3

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0117		C-CLASS (W202) (93-00)	2.4/2.8/3.6/4.3
continued		CLK (A208) (98-02)	3.2/4.3
		CLK (C208) (97-02)	3.2/4.3/5.4
		E-CLASS (S210) (96-03)	2.4/2.8/3.2
		E-CLASS (W210) (95-02)	2.4/2.8/3.2
		G-CLASS (W463) (89-)	3.2/5.0
		M-CLASS (W163) (98-05)	3.2/4.3/5.4
		S-CLASS (C140) (92-99)	4.2/5.0/6.0
		S-CLASS (C215) (99-06)	5.0
		S-CLASS (W140) (91-98)	2.8/3.2/4.2
		S-CLASS (W220) (98-05)	2.8/3.2/4.3/5.0
		SL (R129) (89-01)	2.8/3.2/5.0/6.0
		V-CLASS (638/2) (96-03)	2.0/2.3/2.8
		VITO (638) (96-03)	2.0
	OPEL	ASTRA G (98-09)	1.2
		CORSA B (93-)	1.0/1.2
	PEUGEOT	307	1.6
		PARTNER (96-08)	1.4
	SAAB	9-3 (98-03)	2.0
		9-5 (97-)	2.0/2.3/3.0
		900 (93-98)	2.0
		9000 (84-98)	2.3
	SEAT	ALHAMBRA (96-10)	1.8
		AROSA (97-04)	1.0/1.4
		CORDOBA (93-99)	1.0/1.4/1.6
		CORDOBA (99-02)	1.6
		IBIZA II (93-99)	1.0/1.4/1.6
		IBIZA III (99-02)	1.0/1.6
		INCA (95-03)	1.4/1.6
		LEON (99-06)	1.4/1.8
		TOLEDO I (91-99)	2.0
		TOLEDO II (99-06)	1.4/1.8/2.3
	SKODA	FELICIA I (94-98)	1.3/1.6
		FELICIA II (98-01)	1.3/1.6
		OCTAVIA 1U2/1U5 (96-10)	1.6/1.8
	VAUXHALL	ASTRA Mk IV (98-06)	1.2
		CORSA (93-00)	1.0/1.2
	VOLVO	850	2.0/2.3/2.5
		C70 I (98-05)	2.0/2.3/2.5
		S70 (96-00)	2.0/2.3/2.4/2.5
		V70 (96-00)	2.0/2.3/2.4/2.5
		XC70 (97-07)	2.4
	VW	BORA	1.4/1.8/2.3
		CADDY II (95-04)	1.4/1.6
		CORRADO	2.0/2.9
		GOLF III (91-99)	1.4/1.6/2.0
		GOLF IV (97-08)	1.4/1.6/1.8/2.3
		LUPO (98-05)	1.0/1.4
		PASSAT (88-97)	2.8/2.9
		PASSAT (96-00)	1.6/1.8/2.3
		PASSAT (96-01)	1.6/1.8/2.3
		POLO (95-02)	1.4/1.6/1.8
		POLO (95-05)	1.0/1.3/1.4/1.6
		POLO (97-01)	1.4/1.6
		SHARAN (95-)	1.8/2.8
		TRANSPORTER IV (90-03)	2.8
		VENTO	1.4/1.6/2.0/2.8
DOX-0118	BMW	3 (E30)	1.6/1.8/2.0
		3 (E36)	1.6/1.8/2.0/2.5
		5 (E34)	1.8/2.0/2.5
		8 (E31)	4.0/5.6
		Z1	2.5
		Z3 (E36)	1.8
	MERCEDES-BENZ	E-CLASS (W210) (95-02)	2.8/3.2
	SEAT	CORDOBA (93-99)	1.4/1.6/1.8/2.0
		IBIZA II (93-99)	1.0/1.3/1.4
		TOLEDO I (91-99)	2.0
	SKODA	FAVORIT	1.3
		FELICIA I (94-98)	1.3
	VW	CORRADO	2.0/2.9
		GOLF II (83-92)	1.8

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DOX-0118		GOLF III (91-99)	1.4/1.6/2.0/2.8
continued		GOLF IV (97-08)	1.6
		PASSAT (88-97)	1.6/2.0/2.8
		POLO (95-02)	1.6/1.8
		POLO (97-01)	1.6
		SHARAN (95-)	2.0
		TRANSPORTER IV (90-03)	2.0/2.5
		VENTO	1.4/1.6/2.0/2.8
DOX-0119	AUDI	A2 (01-05)	1.4
		A3 (03-12)	1.6
		A4 (94-01)	1.6
		A4 (00-04)	1.6
		A4 (02-09)	1.6
		A6 (04-11)	2.4/2.8/3.0/3.2
		A6 Allroad (06-11)	3.0/3.2
	CHRYSLER	300 M (98-04)	2.7/3.5
		NEON (99-)	1.6/2.0
		PT CRUISER	2.0/2.4
		SEBRING (01-07)	2.0/2.4/2.7
		SEBRING (01-)	2.0/2.4/2.7
		STRATUS	2.0/2.4
		VOYAGER (95-01)	2.0/2.4
		VOYAGER (00-08)	2.4/3.3/3.8
	CITROËN	BERLINGO (96-08)	1.1/1.4
		C2	1.1/1.4
		C3 (02-09)	1.1/1.4
		C3 (09-)	1.1/1.4
		C3 Pluriel (03-)	1.4/1.6
		C5 (01-04)	1.8
		DS4	2.0
		NEMO	1.4
		SAXO	1.4/1.6
		XSARA	1.4
		XSARA PICASSO	1.8
	DAEWOO	LANOS	1.4/1.5
		LEGANZA	2.2
		MATIZ	0.8
	FIAT	BARCHETTA	1.8
		BRAVA (95-01)	1.6/1.8
		BRAVO (95-02)	1.6/1.8
		COUPE	1.8
		DOBLO (10-)	2.0
		MAREA	1.6/1.8
		MULTIPLA	1.6
		PALIO	1.2/1.6
		PUNTO (99-10)	1.8
		SIENA	1.6
		STRADA	1.2
	FORD	COUGAR	2.0/2.5
		ESCORT V (90-94)	1.8/2.0
		ESCORT VI (92-95)	1.6/1.8
		ESCORT VII (95-98)	1.6/1.8/2.0
		ESCORT VII (95-02)	1.4/1.6/1.8
		FIESTA III (89-97)	1.6
		FIESTA IV (95-02)	1.3/1.6
		FIESTA V (01-10)	1.3/1.4/1.6
		FOCUS I (98-05)	1.4/1.6/1.8/2.0
		FUSION	1.3/1.4/1.6
		KA (96-08)	1.3/1.6
		MONDEO I (93-96)	1.6/1.8/2.0
		MONDEO II (96-00)	1.6/1.8/2.0/2.5
		ORION III (90-93)	1.6/1.8
		SIERRA (87-93)	1.8
		STREET KA	1.6
		TOURNEO (12-)	1.8
		TRANSIT CONNECT (02-)	1.8
	HONDA	CR-V (02-06)	2.0
	HYUNDAI	ATOS	1.0
		ATOS PRIME	1.0
	LANCIA	DEDRA	1.6/1.8/2.0
		DELTA (93-99)	1.6/1.8

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0119		LYBRA	1.6/1.8
continued	MAZDA	2 (03-07)	1.3/1.4/1.6
		2 (07-)	1.3
		6 (02-07)	1.8/2.0/2.3
		323 C V (94-98)	1.5
		323 F V (94-98)	1.5
		323 F VI (98-04)	1.5/1.6/1.9/2.0
		323 P V (96-)	1.5
		323 S V (94-98)	1.5
		323 S VI (98-04)	1.5/1.6/2.0
		626 IV (91-97)	1.8/2.0
		626 V (97-02)	1.8/2.0
		DEMIO	1.3/1.5
		MX-3	1.6
		MX-6 (87-97)	2.0
		PREMACY	1.9/2.0
	MG	MG ZS	2.5
		MG ZT	1.8/2.5
	MITSUBISHI	COLT IV (92-96)	1.3
		L 200 (96-07)	2.0
		L 400 (95-05)	2.0/2.4
		LANCER IV (88-94)	1.3
		LANCER V (92-96)	1.3
		PAJERO II (90-00)	3.0
	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		PRIMERA (02-)	1.6/1.8/2.0
		X-TRAIL (01-07)	2.0/2.5
	OPEL	ASTRA H (04-)	1.6/1.8
		SIGNUM	1.8
		VECTRA C (02-)	1.8
		ZAFIRA (99-05)	1.8
		ZAFIRA (05-11)	1.6/1.8
	PEUGEOT	106 (96-04)	1.4/1.6
		206 (98-)	1.1/1.4
		206+ (09-)	1.1/1.4
		207	1.4
		306	1.4
		307	1.4
		406	1.8
		407	1.8
		1007	1.4
		BIPPER	1.4
		BIPPER Tepee	1.4
		PARTNER (96-08)	1.1/1.4
	ROVER	45 (00-05)	2.0
		75	1.8/2.0/2.5
	SAAB	9-3 (02-)	1.8
	SEAT	ALTEA (04-)	1.4/1.6
		ALTEA XL (06-)	1.4/1.6
		AROSA (97-04)	1.4
		CORDOBA (99-02)	1.4
		CORDOBA (02-09)	1.2/1.4/1.6
		EXEO (08-)	1.6
		IBIZA III (99-02)	1.4
		IBIZA IV (02-09)	1.2/1.4/1.6
		IBIZA V (08-)	1.2/1.4/1.6
		INCA (95-03)	1.4
		LEON (99-06)	1.6
		LEON (05-)	1.4/1.6
		TOLEDO II (99-06)	1.6
		TOLEDO III (04-09)	1.6
	SKODA	FABIA (99-08)	1.2/1.4
		FABIA (06-)	1.2/1.4/1.6
		OCTAVIA 1Z3/1Z5 (04-12)	1.4/1.6
		ROOMSTER	1.2/1.4/1.6
		SUPERB (01-08)	2.0
	SUZUKI	GRAND VITARA (98-06)	1.6/2.0/2.5/2.7
		JIMNY	1.3
		WAGON R+ (97-00)	1.0/1.2
	TOYOTA	YARIS (99-05)	1.5

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0119		YARIS VERSO (99-05)	1.3
continued	VAUXHALL	ASTRA Mk IV (98-06)	1.8
		ASTRA MK V (04-)	1.6/1.8
		CORSA (00-06)	1.8
		MERIVA (03-10)	1.8
		OMEGA	2.2
		SIGNUM	1.8
		TIGRA (04-09)	1.8
		VECTRA (95-03)	1.8
		VECTRA (00-08)	1.8
		ZAFIRA (98-05)	1.8
		ZAFIRA (05-)	1.6/1.8
	VOLVO	S40 (95-03)	1.6/1.8/2.0
		V40 (95-04)	1.6/1.8/2.0
	VW	BORA	1.6
		CADDY II (95-04)	1.4
		CADDY III (04-)	1.4/1.6
		FOX (03-)	1.2/1.4
		GOLF IV (97-08)	1.6
		GOLF PLUS (05-)	1.4/1.6
		GOLF V (03-09)	1.4/1.6
		GOLF VI (08-13)	1.4/1.6
		GOLF VI (08-)	1.4/1.6
		JETTA (05-10)	1.6
		LUPO (98-05)	1.4
		PASSAT (96-00)	1.6
		PASSAT (96-01)	1.6
		PASSAT (00-05)	1.6/2.0
		POLO (95-02)	1.4
		POLO (95-05)	1.4
		POLO (97-01)	1.4
		POLO (01-09)	1.2/1.4/1.6
		POLO (09-)	1.2/1.4/1.6
		TOURAN	1.6
DOX-0120	ALFA ROMEO	145	1.4/1.6/1.7
		146	1.4/1.6/1.7
		155	1.6/1.7/1.8
		156	1.6
		164	2.0/3.0
		GTV (95-05)	2.0/3.0
		SPIDER (94-05)	2.0/3.0
	BMW	3 (E30)	1.8
		5 (E34)	3.0/3.4/3.6/3.8
		7 (E32)	3.0/3.4
	CITROËN	AX	1.0/1.1/1.4
		BERLINGO (96-08)	1.1/1.4
		BX	1.4/1.6/1.9
		C15	1.1/1.4
		EVASION	1.8/2.0
		JUMPER (94-02)	2.0
		JUMPY (95-06)	1.6
		SAXO	1.0/1.1/1.4/1.6
		XANTIA (93-98)	1.6/1.8/2.0
		XANTIA (98-03)	1.6/2.0
		XM (89-94)	2.0
		XM (94-00)	2.0
		XSARA	1.4/1.6/1.8/2.0
		ZX	1.1/1.4/1.6
	FIAT	BRAVA (95-01)	1.4
		BRAVO (95-02)	1.4/2.0
		CINQUECENTO	1.1
		COUPE	2.0
		CROMA (85-96)	2.0/2.5
		DUCATO (94-02)	2.0
		FIORINO (88-01)	1.4/1.6
		MAREA	1.4/2.0
		PANDA (80-04)	0.9/1.0/1.1
		PUNTO (93-00)	1.1/1.2/1.4
		SCUDO (96-06)	1.6
		SEICENTO (98-)	0.9/1.1
		TEMPRA	1.4/1.6/1.8

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0120		TIPO	1.4/1.6/1.8
continued		ULYSSE (94-02)	1.8/2.0
	FORD	ESCORT IV (85-90)	1.4
		ORION II (85-90)	1.4
		SCORPIO I (85-94)	2.0
		SIERRA (87-93)	1.6/2.0
	LANCIA	DEDRA	1.6/1.8
		DELTA (93-99)	1.4/1.6/1.8
		KAPPA	2.0/2.4/3.0
		THEMA (86-94)	2.0/3.0
		Y	1.1/1.2/1.4
		Y10	1.1
		ZETA	2.0
	LAND ROVER	DISCOVERY I (89-98)	2.0
		FREELANDER (98-06)	1.8
	MERCEDES-BENZ	C-CLASS (W202) (93-00)	1.8/2.0/2.2
		COUPE (C124) (87-93)	2.2
		E-CLASS (A124) (93-98)	2.0/2.2
		E-CLASS (C124) (93-97)	2.0/2.2
		E-CLASS (S124) (92-96)	2.0
		E-CLASS (W124) (84-95)	2.0
		E-CLASS (W124) (93-95)	2.0
		KOMBI (S124) (85-93)	2.0
		S-CLASS (W140) (91-98)	3.2
		SPRINTER 2-t (901, 902) (95-06)	2.3
		SPRINTER 3-t (903) (95-06)	2.3
		SPRINTER 4-t (904) (96-06)	2.3
		V-CLASS (638/2) (96-03)	2.0/2.3/2.8
		VITO (638) (96-03)	2.0/2.3
	MG	MGF	1.6/1.8
	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		MICRA (03-10)	1.0/1.2/1.4
		PRIMERA (96-02)	1.8/2.0
	PEUGEOT	106 (91-96)	1.0/1.1/1.3
		106 (96-04)	1.0/1.1/1.4/1.6
		205 (83-98)	1.0/1.1/1.4
		206 (98-)	1.4
		306	1.1/1.4/1.6
		307	1.4
		309 (89-93)	1.1/1.4/1.6/1.9
		405 (87-93)	1.6/1.9
		405 (92-96)	1.4/1.6/1.8/2.0
		406	1.6/1.8/2.0
		605	2.0
		806	1.8/2.0
		BOXER (94-06)	2.0
		EXPERT (95-07)	1.6/1.8
		PARTNER (96-08)	1.1/1.4
	ROVER	100 (METRO) (90-98)	1.1/1.4
		100 (94-98)	1.1/1.4
		200 (89-00)	1.1/1.4/1.6
		400 (90-98)	1.4/1.8/2.0
		400 (95-00)	1.4/1.6/2.0
		600	2.0
		800	2.0
		CABRIOLET (93-00)	1.4/1.6
		COUPE	1.6/1.8
		MINI MK I (91-01)	1.3
	SUBARU	FORESTER (97-02)	2.0
		FORESTER (02-08)	2.0
		IMPREZA (00-08)	1.6/2.0
		LEGACY III (98-03)	2.0/2.5
		OUTBACK (00-03)	2.5
	VOLVO	850	2.0/2.5
	VW	GOLF III (91-99)	2.0
		PASSAT (88-97)	2.0
DOX-0121	AUDI	A4 (94-01)	1.6
		A4 (00-04)	1.6
		A4 (02-09)	1.6
	CITROËN	BERLINGO (96-08)	1.4

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0121		C2	1.4
continued		C3 (02-09)	1.4
		C3 Pluriel (03-)	1.4/1.6
		C5 (01-04)	1.8
		SAXO	1.4
		XSARA	1.4
		XSARA PICASSO	1.8
	DACIA	DUSTER	1.6
		LOGAN	1.4/1.6
		LOGAN MCV	1.4/1.6
		SANDERO	1.6
	FIAT	BARCHETTA	1.8
		BRAVA (95-01)	1.6
		BRAVO (95-02)	1.6
		MAREA	1.6
		MULTIPLA	1.6
		PALIO	1.6
		PANDA (80-04)	1.1
		PANDA (03-12)	1.1/1.2
		PUNTO (99-10)	1.8
		SEICENTO (98-)	1.1
		STILO	1.8
	FORD	COUGAR	2.5
		FIESTA IV (95-02)	1.3
		FIESTA V (01-10)	1.3
		FOCUS I (98-05)	2.0
		KA (96-08)	1.3/1.6
		MONDEO I (93-96)	2.5
		MONDEO II (96-00)	2.5
		STREET KA	1.6
	HONDA	CIVIC VII (00-05)	1.4/1.6/1.7
		CR-V (02-06)	2.0
		FR-V	1.7
		STREAM (01-05)	1.7
	KIA	RIO (00-05)	1.3/1.5
	LANCIA	LYBRA	1.8
	MAZDA	3 (00-09)	2.0
		5 (05-10)	1.8/2.0
		6 (02-07)	1.8/2.0/2.3
		323 F VI (98-04)	1.6/2.0
		323 S VI (98-04)	1.6/2.0
		DEMIO	1.3/1.5
		PREMACY	1.9/2.0
	MINI	MINI (R50, R53) (01-07)	1.6
		MINI Convertible (R52) (04-07)	1.6
	NISSAN	ALMERA (00-)	1.5/1.8
		MICRA (03-10)	1.0/1.2/1.4
		PRIMERA (02-)	1.6/1.8/2.0
		X-TRAIL (01-07)	2.0/2.5
	PEUGEOT	106 (96-04)	1.4
		206 (98-)	1.4
		306	1.4
		307	1.4
		406	1.8
		1007	1.4
		PARTNER (96-08)	1.4
	RENAULT	CLIO II (98-)	1.0/1.2/1.4
		CLIO III (05-)	1.2
		KANGOO (97-)	1.2/1.4
		MODUS	1.2
		THALIA (98-03)	1.2/1.4/1.6
		THALIA II (08-)	1.6
		TWINGO (93-07)	1.2
	SEAT	CORDOBA (02-09)	1.2
		IBIZA IV (02-09)	1.2
		IBIZA V (08-)	1.2
	SKODA	FABIA (99-08)	1.2
		FABIA (06-)	1.2
		ROOMSTER	1.2
		SUPERB (01-08)	2.0
	SUZUKI	BALENO (95-02)	1.8

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0121		GRAND VITARA (98-06)	2.5
continued	VW	FOX (03-)	1.2
		PASSAT (96-00)	1.6
		PASSAT (96-01)	1.6
		PASSAT (00-05)	1.6/2.0
		POLO (01-09)	1.2
		POLO (09-)	1.2
DOX-0123	CHEVROLET	REZZO	2.0
	DAEWOO	LANOS	1.4/1.5/1.6
		LEGANZA	2.0/2.2
		MATIZ	0.8/1.0
		NUBIRA (97-03)	1.6/2.0
		REZZO	1.6/2.0
	MITSUBISHI	COLT III (88-92)	1.3/1.5
		ECLIPSE (89-95)	1.8
		GALANT IV (87-92)	2.0
		GALANT IV (87-93)	1.8/2.0
		L 300 (80-94)	2.0
		L 300 (94-08)	2.0
		L 400 (95-05)	2.0
		LANCER III (83-92)	1.5/1.8
		LANCER IV (88-94)	1.3/1.5
		PAJERO I (82-91)	3.0
		PAJERO II (90-00)	2.4
		SPACE RUNNER (91-99)	1.8
		SPACE WAGON (91-98)	1.8
	RENAULT	CLIO I (90-98)	1.2
		RAPID	1.2
		TWINGO (93-07)	1.2
	TOYOTA	COROLLA (91-99)	1.6
		COROLLA (97-)	1.6
		PASEO (95-00)	1.5
		TERCEL (94-99)	1.5
DOX-0125	AUDI	80 (86-91)	1.8
		80 (91-96)	1.6
	BMW	3 (E30)	1.8
	DAEWOO	ARANOS	1.5/1.8/2.0
		ESPERO	1.5/1.8/2.0
		LEGANZA	2.0
		NEXIA	1.5
		NUBIRA (97-03)	1.6/2.0
	DAIHATSU	CUORE (98-03)	1.0
	HONDA	CIVIC IV (87-95)	1.3/1.5/1.6
		CIVIC VI (93-01)	1.4/1.5/1.6
		CONCERTO (89-96)	1.5/1.6
		CRX (87-92)	1.6
		LEGEND I (86-90)	2.7
		PRELUDE III (86-92)	2.0
	HYUNDAI	ATOS	1.0
		ATOS PRIME	1.0
	KIA	PRIDE	1.3
		SEPHIA	1.6
	MAZDA	323 C IV (89-94)	1.3/1.6/1.8
		323 F IV (89-94)	1.6/1.8
		323 S IV (89-94)	1.3/1.6
		626 II (82-87)	2.0
		MX-3	1.6
		MX-5 (90-98)	1.6
	MITSUBISHI	COLT III (88-92)	1.3/1.5
		GALANT IV (87-92)	1.8/2.0
		GALANT IV (87-93)	1.8/2.0
		L 200 (86-96)	2.6
		L 300 (80-94)	2.0
		LANCER III (83-92)	1.5/1.8
		LANCER IV (88-94)	1.8
		SPACE WAGON (84-92)	2.0
	NISSAN	100 NX (90-94)	1.6
		BLUEBIRD (83-92)	1.8/2.0
		BLUEBIRD (85-90)	1.8/2.0
		MICRA (82-92)	1.2
		PRAIRIE PRO	2.0/2.4

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0125		PRIMERA (90-98)	1.6
continued		SUNNY (82-91)	1.4/1.6/1.8
		SUNNY (90-03)	1.4/1.6
		TERRANO I	2.4
		VANETTE (86-95)	2.4
	OPEL	ASTRA F (91-01)	1.4/1.6/1.8
		ASTRA F CLASSIC (98-05)	1.4/1.6
		ASTRA G (98-09)	1.6
		CAMPO	2.3
		COMBO (94-01)	1.2/1.4
		CORSA A (82-93)	1.2/1.3/1.4/1.6
		CORSA B (93-)	1.2/1.4/1.6
		KADETT E (84-94)	1.3/1.4/1.6/1.8
		TIGRA	1.4/1.6
		VECTRA A (88-95)	1.6/1.8
		VECTRA B (95-03)	1.6
	RENAULT	19 I (88-92)	1.4/1.7
		19 II (92-95)	1.4/1.7
		19 II (92-03)	1.4/1.7
		21	1.7/2.2
		25	2.2/2.8
		CLIO I (90-98)	1.2
		ESPACE (84-92)	2.2
		RAPID	1.4
		SUPER 5	1.4/1.7
	ROVER	200 (89-00)	1.6
		400 (90-98)	1.6
		CABRIOLET (93-00)	1.6
	SEAT	CORDOBA (93-99)	1.6/1.8
		IBIZA II (93-99)	1.8
		TOLEDO I (91-99)	1.6/1.8
	SUBARU	JUSTY I (84-95)	1.0
		JUSTY II (95-03)	1.3
		LIBERO	1.2
		VIVIO	0.7
	SUZUKI	SWIFT II (89-01)	1.0/1.3/1.6
	VAUXHALL	ASTRA Mk II (84-93)	1.4/1.6
		ASTRA Mk III (91-01)	1.4/1.6/1.8
		ASTRA Mk IV (98-06)	1.6
		ASTRAVAN Mk III (91-98)	1.4/1.6
		ASTRAVAN Mk IV (98-06)	1.6
		BRAVA (95-01)	2.3
		CAVALIER Mk III (88-95)	1.6/1.8
		COMBO (94-01)	1.4
		CORSA (93-00)	1.2/1.4/1.6
		CORSAVAN (94-00)	1.4
		NOVA	1.2/1.4/1.6
		TIGRA (94-00)	1.4/1.6
		VECTRA (95-03)	1.6
	VW	CADDY I (82-92)	1.8
		GOLF I (74-93)	1.6/1.8
		GOLF II (83-92)	1.6/1.8
		GOLF III (91-99)	1.8
		JETTA (84-92)	1.6/1.8
		PASSAT (88-97)	1.6/1.8
		SCIROCCO (80-92)	1.8
		VENTO	1.8
DOX-0150	ALFA ROMEO	145	1.4/1.6/1.8/2.0
		146	1.4/1.6/1.8/2.0
		147	1.6/2.0/3.2
		156	1.6/1.8/2.0
		159	1.8
		166	2.0/2.5/3.0/3.2
		BRERA	1.8
		GIULIETTA (10-)	1.4
		GT (03-10)	1.8/2.0/3.2
		GTV (95-05)	1.8/2.0/3.0/3.2
		MITO	1.4
		SPIDER (94-05)	1.8/2.0/3.2
		SPIDER (06-)	1.8
	AUDI	80 (91-96)	2.2

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0150		A1 (10-)	1.4
continued		A3 (96-03)	1.6/1.8
		A3 (03-12)	1.4/1.6/1.8
		A4 (94-01)	1.8/2.4/2.7/2.8
		A4 (00-04)	1.8/2.0/2.4
		A4 (02-09)	1.8/2.0/2.4
		A4 (07-)	1.8/2.0
		A4 Allroad (09-)	2.0
		A5 (07-)	1.8/2.0/4.2
		A6 (94-97)	2.2
		A6 (97-05)	1.8/2.0/2.4
		A6 (04-11)	2.0/3.0/4.2
		A6 (10-)	2.0
		A6 Allroad (06-11)	4.2
		A8 (94-02)	2.8/3.7/4.2
		A8 (02-10)	3.0/3.7/4.2
		A8 (09-)	4.2
		ALLROAD (00-05)	2.7/4.2
		Q3 (11-)	2.0
		Q5 (08-)	2.0
		Q7 (06-)	3.6/4.2
		R8 (07-)	4.2/5.2
		TT (98-06)	1.8/3.2
		TT (06-)	1.8/2.0/2.5
	BMW	1 (E81, E87)	1.6/2.0/3.0
		1 (E82)	2.0/3.0
		1 (E88)	2.0/3.0
		3 (E90)	1.6/2.0/2.5
		3 (E91)	1.6/2.0/2.5/3.0
		3 (E92)	2.0/2.5/3.0/4.0
		3 (E93)	2.0/2.5/3.0/4.0
		5 (E60)	2.5/3.0/4.0/4.8
		5 (E61)	2.5/3.0/4.8
		5 (F10)	3.0/4.4
		5 (F11)	3.0
		5 GRAN TURISMO (F07)	4.4
		6 (E63)	3.0/4.8
		6 (E64)	3.0/4.8
		7 (E65, E66)	3.0/4.0/4.8/6.0
		7 (F01, F02)	3.0/4.4/6.0
		X1 (E84)	2.0/3.0
		X3 (E83)	2.5/3.0
		X5 (E70)	3.0/4.4/4.8
		X6 (E71)	3.0/4.4
		Z4 (E85)	2.5/3.0
		Z4 (E86)	3.0
		Z4 (E89)	2.5/3.0
	CHEVROLET	CAPTIVA (06-)	3.2
	CITROËN	BERLINGO (96-08)	1.1/1.4/1.6
		BERLINGO (08-)	1.6
		C1	1.0
		C2	1.1/1.4/1.6
		C3 (02-09)	1.1/1.4/1.6
		C3 Pluriel (03-)	1.6
		C4	1.4/1.6/2.0
		C4 Grand Picasso	1.8/2.0
		C4 Picasso (07-)	1.8/2.0
		C5 (01-04)	2.0/3.0
		C5 (04-08)	1.8/2.0/3.0
		C5 (08-)	1.8/2.0/3.0
		C6	3.0
		C8	2.0/2.2/3.0
		EVASION	2.0
		JUMPER (02-)	2.0
		JUMPY (95-06)	2.0
		JUMPY (07-)	2.0
		SAXO	1.1/1.4/1.6
		XANTIA (98-03)	1.8
		XSARA	1.4/1.6/2.0
		XSARA PICASSO	1.6/2.0
	FIAT	500 (07-)	1.4

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0150		500 C (09-)	1.4
continued		BRAVA (95-01)	1.2
		BRAVO (95-02)	1.2/2.0
		BRAVO (06-)	1.4
		COUPE	2.0
		DOBLO (01-)	1.2/1.4/1.6
		DOBLO (10-)	1.4
		DUCATO (94-02)	2.0
		DUCATO (02-06)	2.0
		GRANDE PUNTO (05-)	1.2/1.4
		IDEA	1.2/1.4
		LINEA	1.4
		MAREA	1.2/2.0
		PALIO	1.2/1.6
		PANDA (03-12)	1.2/1.4
		PUNTO (99-10)	1.2/1.4
		PUNTO EVO (08-12)	1.2/1.4
		SCUDO (96-06)	2.0
		SIENA	1.2/1.6
		STILO	1.2/1.4/1.6/2.4
		STRADA	1.2
		ULYSSE (94-02)	2.0
		ULYSSE (02-11)	2.0/3.0
	FORD	C-MAX (07-)	1.6/1.8/2.0
		FIESTA IV (95-02)	1.3/1.4
		FIESTA V (01-10)	2.0
		FOCUS C-MAX (03-07)	1.6/1.8/2.0
		FOCUS I (98-05)	1.4/1.6
		FOCUS II (04-10)	1.4/1.6/1.8
		GALAXY (92-06)	2.0/2.3/2.8
		GRAND C-MAX	1.6
		KUGA	2.5
		PUMA	1.4/1.6/1.7
		SCORPIO II (94-98)	2.0/2.3
		TRANSIT (94-00)	2.0
		TRANSIT (00-06)	2.3
		TRANSIT TOURNEO (94-00)	2.0
	HONDA	JAZZ II (02-08)	1.2/1.4
	LADA	KALINA	1.4/1.6
		NIVA	1.6/1.7
		PRIORA (2170/2171/2172) (08-)	1.6
		SAMARA	1.5
	LANCIA	DELTA (08-)	1.4
		KAPPA	2.0/2.4/3.0
		LYBRA	2.0
		MUSA	1.4
		PHEDRA	2.0/3.0
		THESIS	2.0/2.4/3.0
		Y	1.2
		YPSILON (843) (03-11)	1.2/1.4
		ZETA	2.0
	LAND ROVER	FREELANDER (98-06)	1.8
	MERCEDES-BENZ	A-CLASS (W168) (97-04)	1.4/1.6/1.9/2.1
		A-CLASS (W169) (04-12)	1.5/1.7/2.0
		B-CLASS (W245) (05-11)	1.5/1.7/2.0
		C CLASS (S204) (07-)	1.8/2.5/3.0
		C CLASS (W204) (07-)	1.6/1.8/2.5
		C-CLASS (CL203) (01-08)	1.8/2.0/2.3
		C-CLASS (S202) (96-01)	2.0/2.4/2.6
		C-CLASS (S203) (01-07)	1.8/2.0/2.5
		C-CLASS (W203) (00-07)	1.8/2.0/2.5
		CLK (A208) (98-02)	2.0/2.3/3.2/4.3
		CLK (A209) (03-10)	1.8/2.6/3.0
		CLK (C208) (97-02)	2.0/2.3/3.2
		CLK (C209) (02-09)	1.8/2.6/3.0
		CLS (C219) (04-10)	3.5/5.0/5.4/6.2
		E-CLASS (S210) (96-03)	2.0/2.4/2.6
		E-CLASS (S211) (03-09)	1.8/2.6/3.0
		E-CLASS (W210) (95-02)	2.0/2.4/2.6
		E-CLASS (W211) (02-08)	1.8/2.5/2.6
		G-CLASS (W463) (89-)	3.2/5.0/5.4

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0150		GL-CLASS (X164) (06-)	4.7/5.5
continued		M-CLASS (W163) (98-05)	3.2/3.7/4.3/5.0
		M-CLASS (W164) (05-)	3.5/5.0/6.2
		R-CLASS (W251, V251) (06-)	5.0/6.2
		S-CLASS (C215) (99-06)	5.0/5.4/5.5
		S-CLASS (W220) (98-05)	2.8/3.2/3.7
		S-CLASS (W221) (05-)	3.5/4.7/5.5/6.0
		SL (R230) (01-12)	3.5/3.7/5.0
		SLK (R170) (96-04)	2.0/2.3/3.2
		SLK (R171) (04-11)	1.8/3.0/3.5/5.5
		SLR (R199) (04-)	5.4
		VANEO (414) (02-05)	1.6/1.9
		VIANO (W639) (03-)	3.2/3.7
		VITO / MIXTO Box (W639)	3.0/3.2
	MG	MG TF	1.6/1.8
		MG ZR	1.4/1.8
		MG ZS	1.6/1.8/2.5
		MGF	1.6/1.8
	NISSAN	ALMERA (00-)	1.5/1.8
		ALMERA TINO (00-)	1.8
		MICRA (03-10)	1.0/1.2/1.4
		MICRA C+C (05-)	1.4
		NOTE (06-)	1.4
		PATHFINDER (05-)	4.0
		PRIMERA (02-)	1.6/1.8
	OPEL	AGILA (00-07)	1.0/1.2
		ASTRA G (98-09)	1.2/1.6/2.0
		ASTRA H (04-)	1.2/1.4/1.6/2.0
		COMBO (01-12)	1.4
		CORSA C (00-09)	1.0/1.2/1.4
		CORSA C BOX (00-)	1.2
		CORSA D (06-)	1.0/1.2/1.4
		MERIVA (03-10)	1.4/1.6
		OMEGA B (94-03)	2.6/3.2
		SIGNUM	3.2
		SPEEDSTER	2.0
		TIGRA	1.4
		VECTRA B (95-03)	2.6
		VECTRA C (02-)	1.6/3.2
		ZAFIRA (99-05)	2.0
		ZAFIRA (05-11)	1.6/2.0
	PEUGEOT	106 (96-04)	1.1/1.4
		107	1.0
		206 (98-)	1.1/1.4/1.6/2.0
		207	1.4/1.6
		306	1.4/1.6/1.8
		307	1.4/1.6/2.0
		308 (07-13)	1.6
		406	1.8/2.0/2.2/3.0
		407	1.8/2.0/2.2/3.0
		607	2.0/2.2/3.0
		806	2.0
		807	2.0/2.2/3.0
		1007	1.4/1.6
		BOXER (94-06)	2.0
		EXPERT (95-07)	2.0
		EXPERT (07-)	2.0
		EXPERT Tepee (07-)	2.0
		PARTNER (96-08)	1.1/1.6
		PARTNER (08-)	1.6
	RENAULT	AVANTIME	2.0/3.0
		CLIO II (98-)	1.1/1.2/1.4
		CLIO III (05-)	1.4/1.6
		ESPACE (96-02)	2.0
		ESPACE (02-)	2.0
		GRAND SCÉNIC (04-)	1.6/2.0
		KANGOO (97-)	1.2/1.6
		KANGOO (08-)	1.6
		KANGOO BE BOP	1.6
		LAGUNA (93-01)	1.6/1.8/2.0
		LAGUNA (01-07)	1.6/1.8/2.0/3.0

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DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0150		LAGUNA (07-)	1.6/2.0
continued		MEGANE I (95-03)	1.4/1.6/1.8/2.0
		MEGANE I (96-03)	1.4/1.6/1.8
		MEGANE II (02-)	1.4/1.6/2.0
		MODUS	1.4/1.6
		SCÉNIC I (99-03)	1.4/1.6/1.8/2.0
		SCÉNIC II (03-)	1.4/1.6/2.0
		THALIA (98-03)	1.4/1.6
		THALIA II (08-)	1.6
		TRAFIC II (01-)	2.0
		TWINGO (93-07)	1.2
		TWINGO (07-)	1.2
		VEL SATIS	2.0
	ROVER	25 (99-05)	1.1/1.4/1.6/1.8
		45 (00-05)	1.4/1.6/1.8/2.0
		STREETWISE	1.4/1.6/1.8
	SAAB	9-3 (98-03)	2.0/2.3
		9-3 (02-)	1.8/2.0/2.8
		9-5 (97-)	2.0/2.3/3.0
	SEAT	ALHAMBRA (96-10)	1.8/2.0/2.8
		ALHAMBRA (10-)	1.4/2.0
		ALTEA (04-)	1.8/2.0
		ALTEA XL (06-)	1.8/2.0
		AROSA (97-04)	1.0/1.4
		CORDOBA (99-02)	1.0/1.4/1.6/1.8
		CORDOBA (02-09)	1.6/2.0
		EXEO (08-)	1.8/2.0
		IBIZA III (99-02)	1.0/1.4/1.6/1.8
		IBIZA IV (02-09)	1.6/1.8/2.0
		IBIZA V (08-)	1.4/2.0
		INCA (95-03)	1.4
		LEON (99-06)	1.4/1.6/1.8/2.8
		LEON (05-)	1.8/2.0
		TOLEDO II (99-06)	1.4/1.6/1.8/2.3
		TOLEDO III (04-09)	2.0
	SKODA	FABIA (99-08)	1.0/1.4/2.0
		FABIA (06-)	1.4
		OCTAVIA 1U2/1U5 (96-10)	1.4/1.6/1.8/2.0
		OCTAVIA 1Z3/1Z5 (04-12)	1.4/1.6/1.8/2.0
		SUPERB (01-08)	1.8/2.8
		SUPERB (08-)	1.8/2.0/3.6
		YETI	1.4/1.8
	TOYOTA	AURIS (06-12)	1.4
		AYGO (05-)	1.0
		COROLLA (01-07)	1.4
		YARIS (99-05)	1.0
		YARIS (05-)	1.0
	VAUXHALL	AGILA (00-08)	1.0/1.2
		ANTARA	3.2
		ASTRA Mk IV (98-06)	1.2/1.6/2.0
		ASTRA MK V (04-)	1.4/1.6/2.0
		COMBO (01-12)	1.4
		CORSA (00-06)	1.0/1.2/1.4
		CORSA (06-)	1.0/1.2/1.4
		CORSAVAN (00-)	1.2
		CORSAVAN (06-)	1.2
		MERIVA (03-10)	1.4/1.6
		OMEGA	2.6/3.2
		SIGNUM	2.8/3.2
		SPEEDSTER (VX220)	2.0
		TIGRA (04-09)	1.4
		VECTRA (95-03)	2.6
		VECTRA (00-08)	2.8/3.2
		ZAFIRA (98-05)	2.0
		ZAFIRA (05-)	1.6/2.0
	VOLVO	C30 (06-12)	1.8/2.0/2.5
		C70 I (98-05)	2.0/2.3/2.4/2.5
		C70 II (06-)	2.5
		S40 (04-)	1.6/1.8/2.0/2.5
		S60 (00-10)	2.3/2.4/2.5
		S70 (96-00)	2.0/2.3/2.4

DENSO P/N	MAKE	MODEL	ENGINE CAPACITY
DOX-0150		S80 (98-06)	2.0/2.4/2.5
continued		V50 (04-)	2.5
		V70 (96-00)	2.3/2.4/2.5
		V70 (00-07)	2.0/2.3/2.4/2.5
		XC70 (97-07)	2.4/2.5
		XC90 (02-)	2.5/2.9
	VW	BEETLE (11-ON)	1.4
		BORA	1.4/1.6/1.8
		CADDY II (95-04)	1.4
		CADDY III (04-)	1.4/2.0
		EOS (06-)	1.4/1.6/2.0/3.2
		GOLF IV (97-08)	1.4/1.6/1.8
		GOLF PLUS (05-)	1.4/1.6/2.0
		GOLF V (03-09)	1.4/1.6/2.0/3.2
		GOLF VI (08-13)	1.4
		GOLF VI (08-)	1.4/1.8/2.0
		JETTA (05-10)	1.4/2.0
		JETTA (10-)	2.0
		LUPO (98-05)	1.0/1.4/1.6
		MULTIVAN	2.0/3.2
		NEW BEETLE (98-11)	1.4/1.6/1.8
		PASSAT (96-00)	1.8/2.8
		PASSAT (96-01)	1.8/2.8
		PASSAT (00-05)	1.8/2.0/2.3
		PASSAT (05-10)	1.4/1.6/1.8
		PASSAT (09-)	1.4/1.8/2.0/3.6
		PASSAT CC (08-)	1.4/1.8/2.0/3.6
		PHAETON	3.2/4.2/6.0
		POLO (95-02)	1.4/1.6
		POLO (95-05)	1.6
		POLO (97-01)	1.0/1.4/1.6
		POLO (01-09)	1.8
		POLO (09-)	1.4
		SCIROCCO (08-)	1.4/2.0
		SHARAN (95-)	1.8/2.0/2.8
		SHARAN (10-)	1.4/2.0
		TIGUAN	1.4/2.0
		TOUAREG (02-10)	3.2/3.6/4.2/6.0
		TOUAREG (10-)	3.0/3.6
		TOURAN	1.4/1.6/2.0
		TRANSPORTER IV (90-03)	2.5/2.8
		TRANSPORTER V (03-)	2.0/3.2

DENSO Cross Reference Chart

Lambda Sensors

Cross Reference Chart - Direct fit

ALFA ROMEO	DENSO
46444284	DOX-1545
46455518	DOX-1545
46523497	DOX-1545
46760863	DOX-2051
46786048	DOX-2051
46805749	DOX-2051
60810814	DOX-1545
60812802	DOX-1545
60814386	DOX-1545

AUDI	DENSO
021906262C	DOX-2018
021906265A	DOX-1172
021906265AC	DOX-1363
021906265AE	DOX-1173
021906265AG	DOX-1173
021906265AK	DOX-1171
021906265AQ	DOX-1173
021906265N	DOX-1172
022906262AB	DOX-2041
022906262AF	DOX-2036
022906262AG	DOX-2041
022906262AH	DOX-2018
022906262AP	DOX-2041
022906262AQ	DOX-2036
022906262BG	DOX-2000
022906262BH	DOX-2038
022906262BJ	DOX-2041
022906262BM	DOX-2016
022906262BQ	DOX-2036
022906262BR	DOX-2041
022906262BS	DOX-2036
022906262CC	DOX-2041
022906262CE	DOX-2016
022906262CF	DOX-2036
022906262F	DOX-2015
022906262L	DOX-2023
022906262M	DOX-2047
022906262S	DOX-2047
022906265B	DOX-2018
022906265C	DOX-2000
023906262	DOX-2012
030906262	DOX-2038
030906262A	DOX-2030
030906262C	DOX-1562
030906262D	DOX-2008
030906262E	DOX-2008
030906262F	DOX-1562
030906262L	DOX-2008
030906262M	DOX-2015
030906262N	DOX-2030
030906265	DOX-1311
030906265AA	DOX-1025
030906265AB	DOX-1025
030906265AD	DOX-1171
030906265CB	DOX-1573
030906265K	DOX-1025
032906265	DOX-1362
032906265C	DOX-1552
032906265F	DOX-1561
035906265B	DOX-1006
036906262D	DOX-1560
036906262F	DOX-1564
036906262H	DOX-2000
036906262M	DOX-1562
036906262P	DOX-2016
036906262Q	DOX-1562
037906265B	DOX-1025
037906265G	DOX-1023
03C906262	DOX-1559
03D906265	DOX-1588

AUDI	DENSO
03D906265A	DOX-1565
03D906265C	DOX-1588
047906265B	DOX-2015
047906265C	DOX-2015
048906265	DOX-1352
053906265	DOX-1351
058906265	DOX-2035
058906265B	DOX-2012
058906265C	DOX-2008
06A906262AH	DOX-2000
06A906262AJ	DOX-2000
06A906262AK	DOX-2012
06A906262AL	DOX-2012
06A906262AM	DOX-2008
06A906262AQ	DOX-2023
06A906262AR	DOX-2015
06A906262AT	DOX-2015
06A906262BA	DOX-2047
06A906262BB	DOX-2008
06A906262BG	DOX-2015
06A906262BL	DOX-2008
06A906262BM	DOX-2000
06A906262CK	DOX-2041
06A906262CM	DOX-2015
06A906262CN	DOX-2015
06A906262CT	DOX-2008
06A906262F	DOX-2015
06A906262N	DOX-2000
06A906262P	DOX-2047
06A906262Q	DOX-2027
06A906265AM	DOX-1561
06A906265AP	DOX-1551
06A906265E	DOX-1551
06A906265F	DOX-1551
06A906265H	DOX-1551
06A906265P	DOX-1552
06B906265A	DOX-1566
06B906265B	DOX-1589
06B906265E	DOX-1566
06C906265	DOX-2008
06C906265C	DOX-2030
06C906265L	DOX-2008
06C906265M	DOX-2008
06D906265	DOX-2036
06F906262AE	DOX-2041
06F906262P	DOX-2016
06H906262A	DOX-2041
06J906262K	DOX-2041
06J906262N	DOX-2041
06K0906262A	DOX-1567
077906262B	DOX-2012
077906262C	DOX-2023
077906262G	DOX-2018
077906265AA	DOX-2048
077906265AD	DOX-2018
077906265AE	DOX-2018
077906265K	DOX-2035
077906265L	DOX-2035
077906265R	DOX-2035
077906265T	DOX-2048
078906265AA	DOX-2023
078906265B	DOX-1381
078906265M	DOX-2010
078906265N	DOX-2035
078906265P	DOX-2035
078906265Q	DOX-2035
078906265R	DOX-2035
078906265T	DOX-2023
079906265	DOX-2036
079906265A	DOX-2041
079906265D	DOX-2036

AUDI	DENSO
079906265E	DOX-2041
079906265F	DOX-2036
07C906262A	DOX-2008
07C906262AE	DOX-2023
07C906262AF	DOX-2038
07C906262AG	DOX-2038
07C906262AH	DOX-2038
07C906262H	DOX-2008
07C906262J	DOX-2018
07C906262M	DOX-2018
07C906262P	DOX-2018
07D906262A	DOX-2018
07D906262B	DOX-2018
07D906262E	DOX-2018
07L906265G	DOX-2016
07L906265H	DOX-2041
6K0906262A	DOX-1567
6K0906262B	DOX-2038
6U0906265B	DOX-1172
7M0906265C	DOX-2010

BMW	DENSO
11781247235	DOX-1317
11781247406	DOX-1174
11781247475	DOX-1318
11781427884	DOX-1368
11781433940	DOX-1175
11781720860	DOX-1364
11781721125	DOX-1364
11781730007	DOX-1364
11781734393	DOX-1364
11781735499	DOX-1317
11781735500	DOX-1319
11781735710	DOX-1369
11781739845	DOX-1175
11781742050	DOX-1174
11787503441	DOX-1099
11787513962	DOX-1174
11787513963	DOX-1175
11787518495	DOX-1099
11787526262	DOX-2046
11787539125	DOX-2037
11787539126	DOX-2046
11787539136	DOX-2046
11787539137	DOX-2026
11787544654	DOX-2037
11787544655	DOX-2026
11787545074	DOX-2046
11787545075	DOX-2026
11787545243	DOX-2046
11787545244	DOX-2039
11787558179	DOX-2037
11787569968	DOX-2046
11787577666	DOX-2046
11787577667	DOX-2039

CHRYSLER	DENSO
04606133AC	DOX-1076
30042191	DOX-1055
4606133AD	DOX-1076
4606133AE	DOX-1076
4686933AB	DOX-1053
4686935AB	DOX-1056
4727436AA	DOX-1061
5033039AA	DOX-1055
5033081AA	DOX-1076
5293036AB	DOX-1157
5293037AD	DOX-1157
5293038AB	DOX-1076
MD108934	DOX-1003
MD119609	DOX-1003

CHRYSLER	DENSO
MD127062	DOX-1003
MD136308	DOX-1167
MD174677	DOX-1016
MD182691	DOX-1060
MD183145	DOX-1163
MD183399	DOX-1163
MD185334	DOX-1163
MD186991	DOX-1161
MD186992	DOX-1160

CITROEN/PEUGEOT	DENSO
1618Q5	DOX-2028
1618Z7	DOX-2001
16287R	DOX-1537
16287S	DOX-1535
16288C	DOX-1536
16289A	DOX-1535
16289S	DOX-1536
16289T	DOX-1536
16289W	DOX-1535
1628AA	DOX-1537
1628HN	DOX-2005
1628HQ	DOX-2045
1628HR	DOX-2001
1628HT	DOX-1535
1628HV	DOX-2005
1628HV	DOX-2009
1628KN	DOX-1534
1628KP	DOX-1539
1628KY	DOX-2005
1628NY	DOX-1538
1628PL	DOX-2009
1628QY	DOX-1539
1628R5	DOX-2045
1628TH	DOX-1539
1628VN	DOX-2034
1628YK	DOX-1360

DAEWOO	DENSO
25105107	DOX-1000
25106073	DOX-1000
25162753	DOX-1000
25164596	DOX-1000
25165313	DOX-1599
96507986	DOX-1599

DAIHATSU	DENSO
8946520280	DOX-0205
8946520450	DOX-0205
8946520600	DOX-0204
8946522170	DOX-0224
8946522190	DOX-0224
8946535300	DOX-0226
8946540030	DOX-0224
8946587102	DOX-1404
8946587106	DOX-1405
8946587108	DOX-1404
8946587109	DOX-1405
8946587112	DOX-0204
8946587113	DOX-0205
8946587401	DOX-0204
8946587402	DOX-0204
8946587708	DOX-0205
8946597403	DOX-0204
8946597405	DOX-0236
8946597407	DOX-0236
8946597408	DOX-1403
8946597501	DOX-0204
89465B1020	DOX-0236
89465B1030	DOX-0254
89465B1060	DOX-0237

Lambda Sensors

Cross Reference Chart - Direct fit

DAIHATSU	DENSO
89465B4020	DOX-0204

FIAT	DENSO
46407316	DOX-1370
46417969	DOX-1545
46418568	DOX-1544
46426389	DOX-1546
46444284	DOX-1545
46449401	DOX-1544
46452598	DOX-1545
46455518	DOX-1545
46455802	DOX-1544
46460055	DOX-1544
46462006	DOX-2025
46481457	DOX-1547
46481568	DOX-2020
46521170	DOX-1548
46523129	DOX-1549
46523497	DOX-1545
46529385	DOX-1547
46545432	DOX-1547
46552313	DOX-1543
46750241	DOX-2025
46750243	DOX-2020
46750245	DOX-2006
46751082	DOX-2006
46760867	DOX-1541
46762182	DOX-2006
46762653	DOX-2020
46774531	DOX-1542
60810814	DOX-1545
60814386	DOX-1545
60815649	DOX-2025
60815699	DOX-2020
7619303	DOX-1351
7674048	DOX-1351
7751308	DOX-1355
9628448280	DOX-1536
9635978280	DOX-2001
9635978580	DOX-2005
9635978980	DOX-2045
9636148880	DOX-2009
9636876580	DOX-2005
9636876680	DOX-2009

FORD	DENSO
1000169	DOX-2010
1001702	DOX-1361
1010006	DOX-2013
1035595	DOX-1371
1053108	DOX-1371
1088851	DOX-2004
1108795	DOX-2013
1113382	DOX-1372
1143514	DOX-1371
1148070	DOX-1371
1309292	DOX-2004
1322705	DOX-2004
1322706	DOX-2055
1351337	DOX-2004
1367825	DOX-2021
1471423	DOX-1372
1536254	DOX-2055
1X439F472AA	DOX-0430
1X439F472AB	DOX-0430
1X439F472AC	DOX-0430
1X439F472AD	DOX-0430
2S6A9F472BB	DOX-1371
2S6A9G444BA	DOX-1371
3040432	DOX-2004
3559458	DOX-1372

FORD	DENSO
3721930	DOX-1371
3M519F472AC	DOX-2004
3M519F472BB	DOX-2004
3M519F472BC	DOX-2004
3M519G444BB	DOX-2055
3M519G444BC	DOX-2055
6628848	DOX-1353
6847908	DOX-1353
6847911	DOX-1361
6G9N9G444LA	DOX-2021
7038055	DOX-2013
7318042	DOX-2013
7G9N9G444AA	DOX-0409
8S6A9F472AA	DOX-1372
92AB9F472AA	DOX-1353
93AB9F472AA	DOX-1353
93BB9F472AA	DOX-1361
95VW9F472FB	DOX-2010
96BB9F472BA	DOX-1361
96VB9F472AA	DOX-2013
96VB9F472BA	DOX-2013
96VB9F472DA	DOX-2013
96VB9F472DB	DOX-2013
98AB9F472BB	DOX-1371
98AB9G444BB	DOX-1371
98FB9F472CA	DOX-2004
XC2F9F472BA	DOX-1372
XR3F9G444BA	DOX-1371
YS6A9F472AC	DOX-1372

GM	DENSO
12597989	DOX-0301
93185493	DOX-1569

HONDA	DENSO
36531P0AA01	DOX-1409
36531P1HE01	DOX-1459
36531P1KE01	DOX-1411
36531P1KE11	DOX-1409
36531P2EA01	DOX-1459
36531P2EG01	DOX-1409
36531P2JJ01	DOX-1411
36531P2RA01	DOX-1409
36531P2YG01	DOX-1411
36531P3FA01	DOX-1409
36531P54003	DOX-1409
36531P64003	DOX-1411
36531P7AG01	DOX-1459
36531P7AG02	DOX-1459
36531P8CA01	DOX-1459
36531PAA307	DOX-1452
36531PAAL21	DOX-1452
36531PAAL22	DOX-1452
36531PAAL23	DOX-1452
36531PELG03	DOX-1455
36531PK1014	DOX-1004
36531PL2013	DOX-1004
36531PLD003	DOX-1453
36531PLD013	DOX-1453
36531PLMA01	DOX-1452
36531PM5A01	DOX-1004
36531PNDA11	DOX-1461
36531PPA003	DOX-1415
36531PRBA01	DOX-1461
36531PWEE01	DOX-2053
36531PWEG01	DOX-2053
36531PZAE01	DOX-1457
36531RB0003	DOX-1460
36531RBB003	DOX-1424
36531RMXA01	DOX-1454
36531RMXAA0	DOX-1454

HONDA	DENSO
36531RNA003	DOX-1454
36531RSHE01	DOX-1454
36532P5A003	DOX-1459
36532P7AG01	DOX-1456
36532P8CA21	DOX-1456
36532PAAA02	DOX-1456
36532PLD003	DOX-1456
36532PLD013	DOX-1456
36532PR7A01	DOX-1459
36532PR7J01	DOX-1459
36532PWEG01	DOX-2031
36532PY3003	DOX-1459
36541PR7A02	DOX-1459
36542PR7A02	DOX-1456

HYUNDAI	DENSO
3921002600	DOX-1354
3921022015	DOX-1373
3921023060	DOX-1365
3921023065	DOX-1365

JAGUAR	DENSO
2R839F472AC	DOX-0428
2R839F472AD	DOX-0428
2R839G444AC	DOX-0429
6R839F472AC	DOX-0426
6R839G444AB	DOX-0427
C2C1238	DOX-1196
C2C12588	DOX-0428
C2C22679	DOX-0427
C2C22681	DOX-0426
C2C25956	DOX-0429
C2C29250	DOX-0428
C2C7359	DOX-0430
C2C7360	DOX-1196
C2C8442	DOX-0427
C2N3717	DOX-0430
C2P8810	DOX-0426
C2S2669	DOX-0430
C2S38497	DOX-1196
C2S51801	DOX-0430

KIA	DENSO
0K08A18861B	DOX-1176
0K08B18861B	DOX-1176
0K2AA18861	DOX-1176
0K2AB18861	DOX-1177
KK34818861	DOX-1005
MBP0318861B	DOX-1005

LANCIA	DENSO
46417969	DOX-1545
46444284	DOX-1545
46452598	DOX-1545
46455518	DOX-1545
46460055	DOX-1544
46521170	DOX-1548
46523129	DOX-1549
46760867	DOX-1541
60810814	DOX-1545
60812802	DOX-1545
962844280	DOX-1536

LAND ROVER	DENSO
5H229F472BA	DOX-0414
5H229F472CA	DOX-0415
6H429F472AA	DOX-0413
7H22-9F472-AA	DOX-0416
MHK000210	DOX-1174
MHK000220	DOX-1175
MHK100840L	DOX-2017

LAND ROVER	DENSO
MHK500870	DOX-0413
MHK500910	DOX-0414
MHK500960	DOX-0415
MHK501050	DOX-0416

MAZDA	DENSO
AJ5118861	DOX-0333
AJ5218861A	DOX-0324
AJ5318861A	DOX-0324
AJ5518861	DOX-0333
AJ9518861	DOX-0333
AJD618861	DOX-0333
B5E118861B	DOX-1374
B6DC18861A	DOX-1031
BP0318861B	DOX-0300
BP4W18861B	DOX-0317
BP6F18861B	DOX-0322
BP6G18861C	DOX-0321
BP6J18861B	DOX-0322
BP6L18861	DOX-0323
BPD318861A	DOX-1435
BPE118861A	DOX-1435
BPE818861A	DOX-1435
C20118861	DOX-1371
C60118861	DOX-1371
FP3318861A	DOX-1375
FP3318861B	DOX-1375
FP3518861A	DOX-1375
FP4718861B	DOX-1375
FS1R18861	DOX-0319
FS8A18861	DOX-1358
FS8B18861A	DOX-1357
GY0418861B	DOX-0324
GY0518861A	DOX-0318
GY0718861	DOX-0319
GY0818861A	DOX-0320
JE5018861A	DOX-1370
JE5018861B	DOX-1370
K80518861A	DOX-1435
L33618861	DOX-0325
L34318861A	DOX-0318
LFG218861A	DOX-0334
N3H118861B	DOX-0330
N3H1188G1B	DOX-1449
N3H2188G1A	DOX-1449
N3H318861B	DOX-0330
N3H3188G1A	DOX-1449
RF7N188G1	DOX-0360
Z53618861A	DOX-1356
Z53618861C	DOX-1356
Z60118861A	DOX-0331
Z60118861B	DOX-0331
Z60218861A	DOX-0332
ZL0218861C	DOX-1356
ZL2718861A	DOX-1374
ZM0318861A	DOX-0316

MERCEDES-BENZ	DENSO
0005400417	DOX-1314
0005405817	DOX-1183
0005405917	DOX-1102
0005406217	DOX-1093
0005406417	DOX-1183
0005406517	DOX-1183
0005407417	DOX-1098
0005407517	DOX-1105
0005407617	DOX-1097
0005408117	DOX-1100
0005408517	DOX-1105
0005409017	DOX-1105
0005409117	DOX-1100

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Cross Reference Chart - Direct fit

MERCEDES-BENZ	DENSO
0005409217	DOX-1314
0005409517	DOX-1314
0005409717	DOX-1098
0015400417	DOX-1314
0015400517	DOX-2007
0015400617	DOX-2007
0015400717	DOX-2011
0015400817	DOX-1105
0015401017	DOX-1099
0015401117	DOX-1103
0015401217	DOX-1104
0015402117	DOX-1314
0015402817	DOX-1098
0015403717	DOX-2007
0015403817	DOX-2007
0015404617	DOX-2026
0015404717	DOX-2011
0015405017	DOX-2007
0015405117	DOX-2007
0015406017	DOX-2007
0015407117	DOX-2037
0015407217	DOX-2049
0015407317	DOX-2033
0015407417	DOX-2011
0015407517	DOX-2039
0015407617	DOX-2026
0015407917	DOX-2007
0015408017	DOX-2011
0015408517	DOX-2011
0015408717	DOX-2011
0015408917	DOX-2039
0015409117	DOX-2011
0015409217	DOX-2039
0015409417	DOX-2007
0015409517	DOX-2007
0025400117	DOX-2007
0025400617	DOX-2011
0025400817	DOX-2011
0025405617	DOX-2026
0025405717	DOX-2007
0035428218	DOX-2044
0045420718	DOX-2044
0045420818	DOX-2024
0065423918	DOX-2024
0065424018	DOX-2024
0095423917	DOX-1376
0095424117	DOX-1377
A0005405817	DOX-1183
A0005406117	DOX-1093

MITSUBISHI	DENSO
1588A011	DOX-0315
1588A013	DOX-0420
1588A014	DOX-0422
1588A020	DOX-0313
1588A021	DOX-0421
1588A063	DOX-1161
1588A126	DOX-1437
1588A130	DOX-1437
1588A132	DOX-1439
1588A147	DOX-1170
1588A148	DOX-1160
MD073036	DOX-1431
MD073175	DOX-1431
MD089922	DOX-1431
MD108934	DOX-1003
MD109613	DOX-1430
MD110487	DOX-1430
MD110492	DOX-1431
MD117240	DOX-1431
MD119210	DOX-1430

MITSUBISHI	DENSO
MD119609	DOX-1003
MD126177	DOX-1430
MD126181	DOX-1430
MD127062	DOX-1003
MD127426	DOX-1430
MD128262	DOX-1431
MD136308	DOX-1167
MD136309	DOX-1167
MD140388	DOX-1431
MD147878	DOX-1432
MD148329	DOX-1431
MD148687	DOX-1432
MD148738	DOX-1433
MD150608	DOX-1432
MD150609	DOX-1432
MD154365	DOX-1433
MD160578	DOX-1432
MD166841	DOX-1432
MD171047	DOX-1433
MD173005	DOX-1432
MD174677	DOX-1016
MD176183	DOX-1016
MD176884	DOX-1433
MD177969	DOX-1157
MD178294	DOX-1016
MD180618	DOX-1438
MD182691	DOX-1060
MD183145	DOX-1163
MD183399	DOX-1163
MD184939	DOX-1436
MD185334	DOX-1163
MD186391	DOX-1163
MD186991	DOX-1161
MD186992	DOX-1160
MD189008	DOX-1438
MD189462	DOX-1436
MD191064	DOX-1433
MD194704	DOX-1433
MD194705	DOX-1163
MD198841	DOX-1016
MD300080	DOX-1163
MD302068	DOX-1163
MD302761	DOX-1433
MD305144	DOX-1161
MD305145	DOX-1440
MD305146	DOX-1440
MD305147	DOX-1441
MD306893	DOX-1160
MD306894	DOX-1161
MD307258	DOX-1161
MD312083	DOX-1441
MD312465	DOX-1433
MD313819	DOX-1440
MD314060	DOX-1440
MD326168	DOX-1016
MD327693	DOX-1441
MD329341	DOX-1161
MD331050	DOX-1161
MD338845	DOX-0345
MD339641	DOX-1170
MD342689	DOX-1441
MD343421	DOX-1436
MD348431	DOX-0341
MD348460	DOX-0312
MD348512	DOX-0311
MD351752	DOX-1359
MD369189	DOX-0335
MD369191	DOX-0344
MD369610	DOX-0336
MN153009	DOX-1161
MN153035	DOX-0349

MITSUBISHI	DENSO
MN153036	DOX-0335
MN153037	DOX-0314
MN153038	DOX-0314
MN153156	DOX-0314
MN158779	DOX-1439
MN158825	DOX-1439
MN158826	DOX-1439
MN158916	DOX-1170
MN158917	DOX-1161
MN163431	DOX-1440
MN171805	DOX-0314
MN176515	DOX-1440
MN183468	DOX-0349
MN183469	DOX-0335
MR420649	DOX-0341
MR420812	DOX-0312
MR507031	DOX-0345
MR507138	DOX-0344
MR507378	DOX-0343
MR507380	DOX-0336
MR507381	DOX-0344
MR507749	DOX-0313
MR507751	DOX-0341
MR507752	DOX-0342
MR507761	DOX-0422
MR507769	DOX-0340
MR507771	DOX-0345
MR507848	DOX-0313
MR507849	DOX-0337
MR514342	DOX-0344
MR514374	DOX-0347
MR514477	DOX-0313
MR514490	DOX-0344
MR560271	DOX-0341
MR560331	DOX-0346
MR560393	DOX-0347
MR578494	DOX-0337
MR578604	DOX-0335

NISSAN	DENSO
2269006F00	DOX-1008
2269007G00	DOX-1008
2269017B00	DOX-1008
2269019B10	DOX-1008
2269040F00	DOX-1008
226904E811	DOX-1008
2269081N00	DOX-1008
226908U300	DOX-2014
226909F600	DOX-1378
226909F601	DOX-1379
22690AU000	DOX-2014
22690F5300	DOX-1008
22693JA00B	DOX-1447
226A05M300	DOX-1367
226A07S001	DOX-2014
226A08U300	DOX-2014
226A0AU011	DOX-1380
226A0AX000	DOX-1366
226A0EA200	DOX-2014

OPEL	DENSO
12567680	DOX-1617
12567681	DOX-1617
12574574	DOX-1618
13103981	DOX-2003
25105107	DOX-1000
25106073	DOX-1000
25133391	DOX-1000
25162753	DOX-1000
25163613	DOX-1504
25164596	DOX-1000

OPEL	DENSO
25165313	DOX-1599
4300009	DOX-1000
855302	DOX-1500
855305	DOX-1000
855306	DOX-1500
855307	DOX-1500
855314	DOX-1504
855315	DOX-1000
855320	DOX-1000
855321	DOX-1504
855322	DOX-1593
855325	DOX-1593
855329	DOX-1000
855332	DOX-1504
855333	DOX-1000
855337	DOX-1500
855338	DOX-1500
855341	DOX-1553
855345	DOX-1598
855351	DOX-2050
855353	DOX-1576
855355	DOX-2040
855356	DOX-1569
855359	DOX-2003
855360	DOX-1576
855361	DOX-1568
855362	DOX-2040
855366	DOX-1574
855371	DOX-1617
855372	DOX-1617
855378	DOX-2052
855385	DOX-2003
855386	DOX-2050
855387	DOX-2003
855388	DOX-2040
855389	DOX-1568
855390	DOX-1575
855395	DOX-1618
855396	DOX-2003
855402	DOX-2003
855404	DOX-2003
855405	DOX-2050
855406	DOX-2050
855426	DOX-1569
855429	DOX-2003
855523	DOX-1576
855524	DOX-1575
90397523	DOX-1500
90397524	DOX-1500
90509274	DOX-1593
90541930	DOX-1500
90543281	DOX-1553
9118698	DOX-1598
9158718	DOX-1568
9195111	DOX-1568
9202575	DOX-1569
96335925	DOX-1000
96507986	DOX-1599
97018586	DOX-1000

RENAULT	DENSO
22693JA00B	DOX-1447
7700101345	DOX-1594
7700107433	DOX-2002
7700108027	DOX-2002
7700273273	DOX-1502
7700746375	DOX-1501
7700854136	DOX-1006
7700854148	DOX-1501
7700854506	DOX-1350
7700860246	DOX-1556

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RENAULT	DENSO
7700864987	DOX-1502
7700867295	DOX-1350
7700870318	DOX-1350
7700871544	DOX-1572
7700872878	DOX-1503
8200036544	DOX-2002
8200036545	DOX-2002
8200196260	DOX-2002
8200551743	DOX-2002
8933002455	DOX-1310

ROVER	DENSO
MHK10023	DOX-1004
MHK100840	DOX-2017
MHK100960	DOX-1004
MHK101086	DOX-2042

SAAB	DENSO
4570909	DOX-2021
4570917	DOX-2022
4571477	DOX-2009
55353148	DOX-2005
55353149	DOX-2022
9158718	DOX-1568
9195111	DOX-1568

SEAT	DENSO
021906262C	DOX-2018
021906265A	DOX-1172
021906265AC	DOX-1363
021906265AE	DOX-1173
021906265AG	DOX-1173
021906265AK	DOX-1171
021906265AQ	DOX-1173
021906265N	DOX-1172
022906262AB	DOX-2041
022906262AF	DOX-2036
022906262AG	DOX-2041
022906262AH	DOX-2018
022906262AP	DOX-2041
022906262AQ	DOX-2036
022906262BG	DOX-2000
022906262BH	DOX-2038
022906262BJ	DOX-2041
022906262BM	DOX-2016
022906262BQ	DOX-2036
022906262BR	DOX-2041
022906262BS	DOX-2036
022906262CC	DOX-2041
022906262CE	DOX-2016
022906262CF	DOX-2036
022906262F	DOX-2015
022906262L	DOX-2023
022906262M	DOX-2047
022906262S	DOX-2047
022906265B	DOX-2018
022906265C	DOX-2000
023906262	DOX-2012
030906262	DOX-2038
030906262A	DOX-2030
030906262C	DOX-1562
030906262D	DOX-2008
030906262E	DOX-2008
030906262F	DOX-1562
030906262L	DOX-2008
030906262M	DOX-2015
030906262N	DOX-2030
030906265	DOX-1311
030906265AA	DOX-1025
030906265AB	DOX-1025
030906265AD	DOX-1171

SEAT	DENSO
030906265CB	DOX-1573
030906265K	DOX-1025
032906265	DOX-1362
032906265C	DOX-1552
032906265F	DOX-1561
035906265B	DOX-1006
036906262D	DOX-1560
036906262F	DOX-1564
036906262H	DOX-2000
036906262M	DOX-1562
036906262P	DOX-2016
036906262Q	DOX-1562
037906265B	DOX-1025
037906265G	DOX-1023
03C906262	DOX-1559
03D906265	DOX-1588
03D906265A	DOX-1565
03D906265C	DOX-1588
047906265B	DOX-2015
047906265C	DOX-2015
048906265	DOX-1352
053906265	DOX-1351
058906265	DOX-2035
058906265B	DOX-2012
058906265C	DOX-2008
06A906262AH	DOX-2000
06A906262AJ	DOX-2000
06A906262AK	DOX-2012
06A906262AL	DOX-2012
06A906262AM	DOX-2008
06A906262AQ	DOX-2023
06A906262AR	DOX-2015
06A906262AT	DOX-2015
06A906262BA	DOX-2047
06A906262BB	DOX-2008
06A906262BG	DOX-2015
06A906262BL	DOX-2008
06A906262BM	DOX-2000
06A906262CK	DOX-2041
06A906262CM	DOX-2015
06A906262CN	DOX-2015
06A906262CT	DOX-2008
06A906262F	DOX-2015
06A906262N	DOX-2000
06A906262P	DOX-2047
06A906262Q	DOX-2027
06A906265AM	DOX-1561
06A906265AP	DOX-1551
06A906265E	DOX-1551
06A906265F	DOX-1551
06A906265H	DOX-1551
06A906265P	DOX-1552
06B906265A	DOX-1566
06B906265B	DOX-1589
06B906265E	DOX-1566
06C906265	DOX-2008
06C906265C	DOX-2030
06C906265L	DOX-2008
06C906265M	DOX-2008
06D906265	DOX-2036
06F906262AE	DOX-2041
06F906262P	DOX-2016
06H906262A	DOX-2041
06J906262K	DOX-2041
06J906262N	DOX-2041
06K0906262A	DOX-1567
077906262B	DOX-2012
077906262C	DOX-2023
077906262G	DOX-2018
077906265AA	DOX-2048
077906265AD	DOX-2018

SEAT	DENSO
077906265AE	DOX-2018
077906265K	DOX-2035
077906265L	DOX-2035
077906265R	DOX-2035
077906265T	DOX-2048
078906265AA	DOX-2023
078906265B	DOX-1381
078906265M	DOX-2010
078906265N	DOX-2035
078906265P	DOX-2035
078906265Q	DOX-2035
078906265R	DOX-2035
078906265T	DOX-2023
079906265	DOX-2036
079906265A	DOX-2041
079906265D	DOX-2036
079906265E	DOX-2041
079906265F	DOX-2036
07C906262A	DOX-2008
07C906262AE	DOX-2023
07C906262AF	DOX-2038
07C906262AG	DOX-2038
07C906262AH	DOX-2038
07C906262H	DOX-2008
07C906262J	DOX-2018
07C906262M	DOX-2018
07C906262P	DOX-2018
07D906262A	DOX-2018
07D906262B	DOX-2018
07D906262E	DOX-2018
07L906265G	DOX-2016
07L906265H	DOX-2041
6K0906262A	DOX-1567
6K0906262B	DOX-2038
6U0906265B	DOX-1172
7M0906265C	DOX-2010

SKODA	DENSO
021906262C	DOX-2018
021906265A	DOX-1172
021906265AC	DOX-1363
021906265AE	DOX-1173
021906265AG	DOX-1173
021906265AK	DOX-1171
021906265AQ	DOX-1173
021906265N	DOX-1172
022906262AB	DOX-2041
022906262AF	DOX-2036
022906262AG	DOX-2041
022906262AH	DOX-2018
022906262AP	DOX-2041
022906262AQ	DOX-2036
022906262BG	DOX-2000
022906262BH	DOX-2038
022906262BJ	DOX-2041
022906262BM	DOX-2016
022906262BQ	DOX-2036
022906262BR	DOX-2041
022906262BS	DOX-2036
022906262CC	DOX-2041
022906262CE	DOX-2016
022906262CF	DOX-2036
022906262F	DOX-2015
022906262L	DOX-2023
022906262M	DOX-2047
022906262S	DOX-2047
022906265B	DOX-2018
022906265C	DOX-2000
023906262	DOX-2012
030906262	DOX-2038
030906262A	DOX-2030

SKODA	DENSO
030906262C	DOX-1562
030906262D	DOX-2008
030906262E	DOX-2008
030906262F	DOX-1562
030906262L	DOX-2008
030906262M	DOX-2015
030906262N	DOX-2030
030906265	DOX-1311
030906265AA	DOX-1025
030906265AB	DOX-1025
030906265AD	DOX-1171
030906265CB	DOX-1573
030906265K	DOX-1025
032906265	DOX-1362
032906265C	DOX-1552
032906265F	DOX-1561
035906265B	DOX-1006
036906262D	DOX-1560
036906262F	DOX-1564
036906262H	DOX-2000
036906262M	DOX-1562
036906262P	DOX-2016
036906262Q	DOX-1562
037906265B	DOX-1025
037906265G	DOX-1023
03C906262	DOX-1559
03D906265	DOX-1588
03D906265A	DOX-1565
03D906265C	DOX-1588
047906265B	DOX-2015
047906265C	DOX-2015
048906265	DOX-1352
053906265	DOX-1351
058906265	DOX-2035
058906265B	DOX-2012
058906265C	DOX-2008
06A906262AH	DOX-2000
06A906262AJ	DOX-2000
06A906262AK	DOX-2012
06A906262AL	DOX-2012
06A906262AM	DOX-2008
06A906262AQ	DOX-2023
06A906262AR	DOX-2015
06A906262AT	DOX-2015
06A906262BA	DOX-2047
06A906262BB	DOX-2008
06A906262BG	DOX-2015
06A906262BL	DOX-2008
06A906262BM	DOX-2000
06A906262CK	DOX-2041
06A906262CM	DOX-2015
06A906262CN	DOX-2015
06A906262CT	DOX-2008
06A906262F	DOX-2015
06A906262N	DOX-2000
06A906262P	DOX-2047
06A906262Q	DOX-2027
06A906265AM	DOX-1561
06A906265AP	DOX-1551
06A906265E	DOX-1551
06A906265F	DOX-1551
06A906265H	DOX-1551
06A906265P	DOX-1552
06B906265A	DOX-1566
06B906265B	DOX-1589
06B906265E	DOX-1566
06C906265	DOX-2008
06C906265C	DOX-2030
06C906265L	DOX-2008
06C906265M	DOX-2008
06D906265	DOX-2036

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SKODA	DENSO
06F906262AE	DOX-2041
06F906262P	DOX-2016
06H906262A	DOX-2041
06J906262K	DOX-2041
06J906262N	DOX-2041
06K0906262A	DOX-1567
077906262B	DOX-2012
077906262C	DOX-2023
077906262G	DOX-2018
077906265AA	DOX-2048
077906265AD	DOX-2018
077906265AE	DOX-2018
077906265K	DOX-2035
077906265L	DOX-2035
077906265R	DOX-2035
077906265T	DOX-2048
078906265AA	DOX-2023
078906265B	DOX-1381
078906265M	DOX-2010
078906265N	DOX-2035
078906265P	DOX-2035
078906265Q	DOX-2035
078906265R	DOX-2035
078906265T	DOX-2023
079906265	DOX-2036
079906265A	DOX-2041
079906265D	DOX-2036
079906265E	DOX-2041
079906265F	DOX-2036
07C906262A	DOX-2008
07C906262AE	DOX-2023
07C906262AF	DOX-2038
07C906262AG	DOX-2038
07C906262AH	DOX-2038
07C906262H	DOX-2008
07C906262J	DOX-2018
07C906262M	DOX-2018
07C906262P	DOX-2018
07D906262A	DOX-2018
07D906262B	DOX-2018
07D906262E	DOX-2018
07L906265G	DOX-2016
07L906265H	DOX-2041
6K0906262A	DOX-1567
6K0906262B	DOX-2038
6U0906265B	DOX-1172
7M0906265C	DOX-2010

SUBARU	DENSO
22641AA032	DOX-0305
22641AA042	DOX-0306
22641AA140	DOX-0307
22641AA211	DOX-1448
22641AA230	DOX-0307
22641AA280	DOX-0307
22641AA381	DOX-0308
22690AA370	DOX-1446
22690AA452	DOX-0357
22690AA491	DOX-0357
22690AA501	DOX-0357
22690AA520	DOX-0357
22690AA590	DOX-0357
22690AA650	DOX-0357
22690KA000	DOX-1006

SUZUKI	DENSO
1821350G00	DOX-1068
1821350G10	DOX-1169
1821354D01	DOX-0353
1821356B00	DOX-1024
1821358B20	DOX-1070

SUZUKI	DENSO
1821360B00	DOX-1000
1821360J00	DOX-0326
1821362J00	DOX-0351
1821362J01	DOX-0351
1821362J10	DOX-0326
1821362J11	DOX-0326
1821362J12	DOX-0326
1821364B00	DOX-1000
1821364F00	DOX-1064
1821365D01	DOX-1068
1821365D21	DOX-0326
1821365D30	DOX-0354
1821365D31	DOX-0354
1821365D32	DOX-0354
1821365D40	DOX-1108
1821365D41	DOX-1108
1821365D42	DOX-1108
1821365D43	DOX-0350
1821365D70	DOX-0354
1821365D71	DOX-0354
1821365D72	DOX-0354
1821365G00	DOX-1087
1821365G30	DOX-0352
1821365G31	DOX-0352
1821365G32	DOX-0352
1821365G41	DOX-0353
1821367D00	DOX-1087
1821367D10	DOX-1064
1821367D30	DOX-1087
1821367D50	DOX-1077
1821370H00	DOX-0351
1821370H01	DOX-0351
1821370H02	DOX-0351
1821376J10	DOX-0350
1821376J11	DOX-0350
1821379GA0	DOX-0329
1821379GA1	DOX-0329
1821379GA2	DOX-0329
1821380A00	DOX-0354
1821380A01	DOX-0354
1821380C01	DOX-0350
1821380G00	DOX-0351
1821380G01	DOX-0351
1821380G02	DOX-0351
1821380G12	DOX-0353
1821380G21	DOX-0350
1821386G00	DOX-0351
1821386G01	DOX-0351

TOYOTA	DENSO
8946329025	DOX-0249
8946329035	DOX-0249
8946329045	DOX-0250
8946329055	DOX-0251
8946329065	DOX-0251
8946502060	DOX-2028
8946502080	DOX-0240
8946502090	DOX-0240
8946502100	DOX-0285
8946502140	DOX-2054
8946502150	DOX-0289
8946505080	DOX-0254
8946505090	DOX-0240
8946505100	DOX-0204
8946505110	DOX-0238
8946505120	DOX-0287
8946505130	DOX-0288
8946505190	DOX-0275
894650D010	DOX-2056
894650D030	DOX-0231
894650D040	DOX-0237

TOYOTA	DENSO
894650D070	DOX-0231
894650D080	DOX-0257
894650D110	DOX-0257
894650D120	DOX-0231
894650D130	DOX-2056
894650H010	DOX-2028
8946510070	DOX-0204
8946512340	DOX-0219
8946512410	DOX-0202
8946512520	DOX-0202
8946512540	DOX-0205
8946512550	DOX-0267
8946512620	DOX-0240
8946512700	DOX-0284
8946512750	DOX-0254
8946512760	DOX-0240
8946513030	DOX-0254
8946513040	DOX-0240
8946516050	DOX-0204
8946516080	DOX-0204
8946516110	DOX-0203
8946517180	DOX-0204
8946517201	DOX-0206
8946519155	DOX-0207
8946519275	DOX-0207
8946519285	DOX-0210
8946519295	DOX-0210
8946519305	DOX-0211
8946519316	DOX-0207
8946519345	DOX-0209
8946519366	DOX-0241
8946519385	DOX-0210
8946519405	DOX-0220
8946519415	DOX-0208
8946519455	DOX-0218
8946519485	DOX-0222
8946519515	DOX-0216
8946519575	DOX-0219
8946519595	DOX-0227
8946519605	DOX-0228
8946519665	DOX-0222
8946519675	DOX-0225
8946519745	DOX-0225
8946519755	DOX-0229
8946520300	DOX-0201
8946520430	DOX-0204
8946520490	DOX-0204
8946520520	DOX-0205
8946520560	DOX-0205
8946520660	DOX-0238
8946520670	DOX-0273
8946520680	DOX-0274
8946520690	DOX-0273
8946520710	DOX-0274
8946520720	DOX-0278
8946520730	DOX-0269
8946520740	DOX-0279
8946520750	DOX-0204
8946520760	DOX-0277
8946520770	DOX-0252
8946520780	DOX-0253
8946520790	DOX-0238
8946520800	DOX-0270
8946526080	DOX-0286
8946528220	DOX-0205
8946528230	DOX-0238
8946528280	DOX-0277
8946528290	DOX-0277
8946528340	DOX-0232
8946529285	DOX-0208
8946529295	DOX-0212

TOYOTA	DENSO
8946529316	DOX-0207
8946529365	DOX-0215
8946529375	DOX-0212
8946529415	DOX-0220
8946529495	DOX-0216
8946529545	DOX-0217
8946529565	DOX-0216
8946529575	DOX-0222
8946529675	DOX-0224
8946529715	DOX-0226
8946529735	DOX-0217
8946529765	DOX-0216
8946529825	DOX-0226
8946529835	DOX-0220
8946533120	DOX-0206
8946533130	DOX-0205
8946533180	DOX-0204
8946533250	DOX-0237
8946533260	DOX-0238
8946533340	DOX-0271
8946533360	DOX-0237
8946533420	DOX-0238
8946533440	DOX-0204
8946535110	DOX-0214
8946535120	DOX-0214
8946535130	DOX-0214
8946535580	DOX-0236
8946539175	DOX-0214
8946539195	DOX-0208
8946539205	DOX-0207
8946539226	DOX-0213
8946539305	DOX-0214
8946539325	DOX-0214
8946539345	DOX-0208
8946539355	DOX-0208
8946539405	DOX-0221
8946539435	DOX-0217
8946539446	DOX-0217
8946539485	DOX-0216
8946539735	DOX-0229
8946539755	DOX-0226
8946539825	DOX-0224
8946539835	DOX-0229
8946539855	DOX-0226
8946539895	DOX-0224
8946542060	DOX-0279
8946542070	DOX-0280
8946542090	DOX-0277
8946542100	DOX-0282
8946542120	DOX-0233
8946544010	DOX-0283
8946544040	DOX-0236
8946544050	DOX-0277
8946544060	DOX-0277
8946544110	DOX-0234
8946547030	DOX-0204
8946547050	DOX-0204
8946547060	DOX-0271
8946547070	DOX-0239
8946549045	DOX-0228
8946550150	DOX-0269
8946552020	DOX-0206
8946552030	DOX-0204
8946552050	DOX-0204
8946552060	DOX-0276
8946552070	DOX-0276
8946552120	DOX-0276
8946552180	DOX-0204
8946553010	DOX-0236
8946553030	DOX-0236
8946553040	DOX-0205

Lambda Sensors

Cross Reference Chart - Direct fit

TOYOTA	DENSO
8946553150	DOX-0231
8946553200	DOX-0231
8946553210	DOX-0205
8946560150	DOX-0269
8946560220	DOX-0255
8946560230	DOX-0256
8946560290	DOX-0236
8946560300	DOX-0236
8946569025	DOX-0213
8946569035	DOX-0213
8946569045	DOX-0217
8946569085	DOX-0223
8946569175	DOX-0226
8946580004	DOX-0226
8946580009	DOX-0226
8946580011	DOX-0226
8946580028	DOX-0226
8946580034	DOX-0229
8946580035	DOX-0224
8946720020	DOX-0258
8946720030	DOX-0260
8946720040	DOX-0247
8946720050	DOX-0248
8946720060	DOX-0264
8946720070	DOX-0265
8946728010	DOX-0261
8946728030	DOX-0242
8946728040	DOX-0246
8946733020	DOX-0242
8946733040	DOX-0242
8946733050	DOX-0258
8946733060	DOX-0259
8946733080	DOX-0261
8946733090	DOX-0261
8946733120	DOX-0258
8946733130	DOX-0261
8946734021	DOX-0245
8946735021	DOX-0244
8946741011	DOX-0243
8946741021	DOX-0243
8946742010	DOX-0242
8946742020	DOX-0246
8946742070	DOX-0266
8946744010	DOX-0242
8946744030	DOX-0242
8946747010	DOX-0262
8946760010	DOX-0259
8946760020	DOX-0263
8946764020	DOX-0264
8946771020	DOX-0263

VAUXHALL	DENSO
12571768	DOX-2050
12574574	DOX-1618
25105107	DOX-1000
25106073	DOX-1000
25133396	DOX-1504
25133607	DOX-1504
25163613	DOX-1504
25164596	DOX-1000
25335280	DOX-1575
55560617	DOX-2003
9158718	DOX-1568
9192922	DOX-2050
9193148	DOX-2003
9193654	DOX-2003
9195111	DOX-1568
9195606	DOX-2040
9199469	DOX-2003
9199470	DOX-2050
9199590	DOX-2003

VAUXHALL	DENSO
9199591	DOX-2040
9201421	DOX-2052
93177169	DOX-2003
93177450	DOX-2050
93177451	DOX-2050
93186115	DOX-2050
93189975	DOX-1575
93190419	DOX-2003
97018586	DOX-1000

VOLKSWAGEN	DENSO
021906262C	DOX-2018
021906265A	DOX-1172
021906265AC	DOX-1363
021906265AE	DOX-1173
021906265AG	DOX-1173
021906265AK	DOX-1171
021906265AQ	DOX-1173
021906265N	DOX-1172
022906262AB	DOX-2041
022906262AF	DOX-2036
022906262AG	DOX-2041
022906262AH	DOX-2018
022906262AP	DOX-2041
022906262AQ	DOX-2036
022906262BG	DOX-2000
022906262BH	DOX-2038
022906262BJ	DOX-2041
022906262BM	DOX-2016
022906262BQ	DOX-2036
022906262BR	DOX-2041
022906262BS	DOX-2036
022906262CC	DOX-2041
022906262CE	DOX-2016
022906262CF	DOX-2036
022906262F	DOX-2015
022906262L	DOX-2023
022906262M	DOX-2047
022906262S	DOX-2047
022906265B	DOX-2018
022906265C	DOX-2000
023906262	DOX-2012
030906262	DOX-2038
030906262A	DOX-2030
030906262C	DOX-1562
030906262D	DOX-2008
030906262E	DOX-2008
030906262F	DOX-1562
030906262L	DOX-2008
030906262M	DOX-2015
030906262N	DOX-2030
030906265	DOX-1311
030906265AA	DOX-1025
030906265AB	DOX-1025
030906265AD	DOX-1171
030906265CB	DOX-1573
030906265K	DOX-1025
032906265	DOX-1362
032906265C	DOX-1552
032906265F	DOX-1561
035906265B	DOX-1006
036906262D	DOX-1560
036906262F	DOX-1564
036906262H	DOX-2000
036906262M	DOX-1562
036906262P	DOX-2016
036906262Q	DOX-1562
037906265B	DOX-1025
037906265G	DOX-1023
03C906262	DOX-1559
03D906265	DOX-1588

VOLKSWAGEN	DENSO
03D906265A	DOX-1565
03D906265C	DOX-1588
047906265B	DOX-2015
047906265C	DOX-2015
048906265	DOX-1352
053906265	DOX-1351
058906265	DOX-2035
058906265B	DOX-2012
058906265C	DOX-2008
06A906262AH	DOX-2000
06A906262AJ	DOX-2000
06A906262AK	DOX-2012
06A906262AL	DOX-2012
06A906262AM	DOX-2008
06A906262AQ	DOX-2023
06A906262AR	DOX-2015
06A906262AT	DOX-2015
06A906262BA	DOX-2047
06A906262BB	DOX-2008
06A906262BG	DOX-2015
06A906262BL	DOX-2008
06A906262BM	DOX-2000
06A906262CK	DOX-2041
06A906262CM	DOX-2015
06A906262CN	DOX-2015
06A906262CT	DOX-2008
06A906262F	DOX-2015
06A906262N	DOX-2000
06A906262P	DOX-2047
06A906262Q	DOX-2027
06A906265AM	DOX-1561
06A906265AP	DOX-1551
06A906265E	DOX-1551
06A906265F	DOX-1551
06A906265H	DOX-1551
06A906265P	DOX-1552
06B906265A	DOX-1566
06B906265B	DOX-1589
06B906265E	DOX-1566
06C906265	DOX-2008
06C906265C	DOX-2030
06C906265L	DOX-2008
06C906265M	DOX-2008
06D906265	DOX-2036
06F906262AE	DOX-2041
06F906262P	DOX-2016
06H906262A	DOX-2041
06J906262K	DOX-2041
06J906262N	DOX-2041
06K0906262A	DOX-1567
077906262B	DOX-2012
077906262C	DOX-2023
077906262G	DOX-2018
077906265AA	DOX-2048
077906265AD	DOX-2018
077906265AE	DOX-2018
077906265K	DOX-2035
077906265L	DOX-2035
077906265R	DOX-2035
077906265T	DOX-2048
078906265AA	DOX-2023
078906265B	DOX-1381
078906265M	DOX-2010
078906265N	DOX-2035
078906265P	DOX-2035
078906265Q	DOX-2035
078906265R	DOX-2035
078906265T	DOX-2023
079906265	DOX-2036
079906265A	DOX-2041
079906265D	DOX-2036

VOLKSWAGEN	DENSO
079906265E	DOX-2041
079906265F	DOX-2036
07C906262A	DOX-2008
07C906262AE	DOX-2023
07C906262AF	DOX-2038
07C906262AG	DOX-2038
07C906262AH	DOX-2038
07C906262H	DOX-2008
07C906262J	DOX-2018
07C906262M	DOX-2018
07C906262P	DOX-2018
07D906262A	DOX-2018
07D906262B	DOX-2018
07D906262E	DOX-2018
07L906265G	DOX-2016
07L906265H	DOX-2041
6K0906262A	DOX-1567
6K0906262B	DOX-2038
6U0906265B	DOX-1172
7M0906265C	DOX-2010

VOLVO	DENSO
30622243	DOX-0400
30622251	DOX-0401
30622251	DOX-0403
30622252	DOX-0402
30637016	DOX-2021
30637520	DOX-2021
30637521	DOX-2021
30637837	DOX-2021
30650089	DOX-0403
30650090	DOX-0404
30650109	DOX-2021
30651723	DOX-0405
30677175	DOX-0406
30731563	DOX-2004
30751797	DOX-0405
30756121	DOX-0407
30756122	DOX-0408
30774700	DOX-0409
3531400	DOX-1351
8627202	DOX-1420
8627599	DOX-0410
8627600	DOX-0411
8642230	DOX-2021
8653653	DOX-2004
8658090	DOX-2009
8658237	DOX-0412
8658480	DOX-0401
8670130	DOX-2022
8670131	DOX-2021
8677894	DOX-2045
9125583	DOX-1419
9135664	DOX-1535
9186934	DOX-2021
9202309	DOX-1419
9470011	DOX-2022
9497252	DOX-1419
9497345	DOX-2021
9497468	DOX-1420

Lambda Sensors

Cross Reference Chart - Universal fit

ALFA ROMEO	DENSO
46444284	DOX-0120
46523497	DOX-0120
46760863	DOX-0150
46786048	DOX-0150
46805749	DOX-0150
60578768	DOX-0120
60814386	DOX-0120

AUDI	DENSO
021906262C	DOX-0150
021906265A	DOX-0118
021906265AB	DOX-0118
021906265AC	DOX-0117
021906265AE	DOX-0117
021906265AG	DOX-0117
021906265AK	DOX-0117
021906265AQ	DOX-0117
021906265BD	DOX-0118
021906265C	DOX-0120
021906265N	DOX-0118
022906262AF	DOX-0150
022906262AG	DOX-0150
022906262AH	DOX-0150
022906262BG	DOX-0150
022906262BH	DOX-0150
022906262BJ	DOX-0150
022906262BQ	DOX-0150
022906262CE	DOX-0150
022906262CF	DOX-0150
022906262F	DOX-0150
022906262K	DOX-0150
022906262L	DOX-0150
022906262S	DOX-0150
022906265B	DOX-0150
022906265C	DOX-0150
023906262	DOX-0150
023906265D	DOX-0118
030906262	DOX-0150
030906262A	DOX-0150
030906262C	DOX-0119
030906262F	DOX-0119
030906262L	DOX-0150
030906262N	DOX-0150
030906265	DOX-0116
030906265AA	DOX-0116
030906265AB	DOX-0116
030906265AD	DOX-0117
030906265AN	DOX-0115
030906265BH	DOX-0114
030906265C	DOX-0115
030906265CB	DOX-0114
030906265F	DOX-0116
030906265J	DOX-0115
030906265K	DOX-0116
030906265N	DOX-0115
030906265Q	DOX-0115
032906265	DOX-0117
032906265C	DOX-0117
032906265F	DOX-0117
034906265F	DOX-0115
035906265B	DOX-0125
036906262AA	DOX-0119
036906262D	DOX-0119
036906262F	DOX-0119
036906262H	DOX-0150
036906262M	DOX-0119
036906262P	DOX-0150
036906262Q	DOX-0119
036906265H	DOX-0119
037906265	DOX-0115
037906265AD	DOX-0118

AUDI	DENSO
037906265B	DOX-0116
037906265G	DOX-0116
03C906262	DOX-0119
03D906265	DOX-0121
03D906265A	DOX-0119
03D906265C	DOX-0121
03E906262B	DOX-0121
047906265B	DOX-0150
048906265	DOX-0116
051906265E	DOX-0125
053906265	DOX-0115
058906265B	DOX-0150
058906265C	DOX-0150
06A906262AC	DOX-0150
06A906262AG	DOX-0150
06A906262AH	DOX-0150
06A906262AJ	DOX-0150
06A906262AK	DOX-0150
06A906262AL	DOX-0150
06A906262AM	DOX-0150
06A906262AQ	DOX-0150
06A906262AR	DOX-0150
06A906262BA	DOX-0150
06A906262BB	DOX-0150
06A906262BG	DOX-0150
06A906262BL	DOX-0150
06A906262BS	DOX-0119
06A906262C	DOX-0150
06A906262CN	DOX-0150
06A906262DQ	DOX-0150
06A906262EA	DOX-0150
06A906262ED	DOX-0150
06A906262F	DOX-0150
06A906262P	DOX-0150
06A906262Q	DOX-0150
06A906265AM	DOX-0117
06A906265AP	DOX-0117
06A906265E	DOX-0117
06A906265F	DOX-0117
06A906265H	DOX-0117
06A906265M	DOX-0150
06A906265N	DOX-0150
06A906265P	DOX-0117
06B906265A	DOX-0119
06B906265B	DOX-0121
06B906265E	DOX-0119
06C906265	DOX-0150
06C906265A	DOX-0150
06C906265C	DOX-0150
06C906265L	DOX-0150
06C906265M	DOX-0150
06D906265	DOX-0150
06E906265D	DOX-0119
06E906265E	DOX-0119
06F906262AE	DOX-0150
06F906262D	DOX-0150
06F906262E	DOX-0150
06F906262P	DOX-0150
06F906262S	DOX-0150
06F906265	DOX-0150
06H906262A	DOX-0150
06J906262K	DOX-0150
077906262B	DOX-0150
077906262C	DOX-0150
077906262G	DOX-0150
077906265AA	DOX-0150
077906265AD	DOX-0150
077906265AE	DOX-0150
077906265AF	DOX-0150
077906265H	DOX-0150
077906265J	DOX-0150

AUDI	DENSO
077906265K	DOX-0150
077906265L	DOX-0150
077906265R	DOX-0150
077906265T	DOX-0150
078906265AA	DOX-0150
078906265B	DOX-0115
078906265M	DOX-0150
078906265N	DOX-0150
078906265P	DOX-0150
078906265Q	DOX-0150
078906265R	DOX-0150
078906265T	DOX-0150
079906262G	DOX-0150
079906262H	DOX-0150
079906265	DOX-0150
079906265A	DOX-0150
079906265E	DOX-0150
079906265F	DOX-0150
07C906262A	DOX-0150
07C906262AE	DOX-0150
07C906262AG	DOX-0150
07C906262AH	DOX-0150
07C906262AR	DOX-0150
07C906262H	DOX-0150
07C906262J	DOX-0150
07C906262M	DOX-0150
07C906262P	DOX-0150
07C906262S	DOX-0150
07C906262T	DOX-0150
07D906262A	DOX-0150
07D906262B	DOX-0150
07D906262E	DOX-0150
07L906265F	DOX-0150
07L906265G	DOX-0150
07L906265H	DOX-0150
1K0998262	DOX-0150
1K0998262A	DOX-0150
1k0998262AB	DOX-0150
1K0998262AC	DOX-0150
1K0998262B	DOX-0150
1K0998262C	DOX-0150
1K0998262E	DOX-0150
1K0998262Q	DOX-0150
1K0998262R	DOX-0150
1K0998262S	DOX-0150
1K0998262T	DOX-0150
330906265	DOX-0118
6A906262CM	DOX-0150
6K0906262A	DOX-0119
6U0906265B	DOX-0118
6U0906265C	DOX-0117
6U0906265D	DOX-0117

BMW	DENSO
11761277565	DOX-0125
11780872674	DOX-0121
11781247235	DOX-0118
11781247406	DOX-0117
11781247475	DOX-0118
11781433159	DOX-0118
11781433940	DOX-0117
11781437586	DOX-0117
11781714772	DOX-0118
11781715263	DOX-0120
11781716114	DOX-0118
11781720537	DOX-0120
11781720860	DOX-0118
11781721125	DOX-0118
11781730007	DOX-0118
11781734393	DOX-0118
11781735499	DOX-0118

BMW	DENSO
11781735500	DOX-0118
11781735710	DOX-0118
11781739845	DOX-0117
11781742050	DOX-0117
11781742051	DOX-0117
11787503441	DOX-0117
11787506531	DOX-0117
11787506539	DOX-0117
11787513962	DOX-0117
11787513963	DOX-0117
11787518495	DOX-0117
11787526262	DOX-0150
11787539125	DOX-0150
11787539126	DOX-0150
11787539136	DOX-0150
11787539137	DOX-0150
11787544654	DOX-0150
11787544655	DOX-0150
11787545074	DOX-0150
11787545075	DOX-0150
11787545243	DOX-0150
11787545244	DOX-0150
11787558179	DOX-0150
11787569968	DOX-0150
11787577666	DOX-0150
11787577667	DOX-0150

CHRYSLER	DENSO
04606133AC	DOX-0119
21062455	DOX-0119
30042191	DOX-0119
4606133AD	DOX-0119
4606133AE	DOX-0119
4686933AB	DOX-0119
4686935AB	DOX-0119
4727436AA	DOX-0119
5033039AA	DOX-0119
5033081AA	DOX-0119
5293036AB	DOX-0119
5293037AD	DOX-0119
5293038AB	DOX-0119
MD073175	DOX-0125
MD089922	DOX-0125
MD136308	DOX-0109
MD182691	DOX-0119
MD183145	DOX-0109
MD183399	DOX-0109
MD185334	DOX-0109
MD186991	DOX-0109
MD186992	DOX-0109

CITROEN/PEUGEOT	DENSO
1618Q5	DOX-0150
16287R	DOX-0104
16287S	DOX-0120
16288C	DOX-0120
16289A	DOX-0120
16289S	DOX-0120
16289T	DOX-0120
16289W	DOX-0120
1628AA	DOX-0104
1628HN	DOX-0150
1628HQ	DOX-0150
1628HR	DOX-0150
1628HT	DOX-0120
1628HV	DOX-0150
1628J4	DOX-0120
1628KN	DOX-0121
1628KP	DOX-0119
1628KY	DOX-0150
1628L4	DOX-0120

Lambda Sensors

Cross Reference Chart - Universal fit

CITROEN/PEUGEOT	DENSO
1628NY	DOX-0119
1628PL	DOX-0150
1628QY	DOX-0119
1628R5	DOX-0150
1628T2	DOX-0120
1628TH	DOX-0119
1628V4	DOX-0120
1628VN	DOX-0150
1628YK	DOX-0117

DAIHATSU	DENSO
8946520280	DOX-0109
8946520450	DOX-0109
8946520600	DOX-0109
8946522170	DOX-0110
8946522190	DOX-0110
8946535300	DOX-0110
8946540030	DOX-0110
8946587101	DOX-0125
8946587102	DOX-0125
8946587106	DOX-0125
8946587107	DOX-0125
8946587112	DOX-0109
8946587113	DOX-0109
8946587211	DOX-0125
8946587601	DOX-0125
8946587702	DOX-0125
8946587706	DOX-0125
8946587708	DOX-0109
8946597220	DOX-0125
8946597221	DOX-0113
8946597403	DOX-0109
8946597407	DOX-0109
8946597410	DOX-0113
8946597501	DOX-0109
89465B1020	DOX-0109
89465B1030	DOX-0106
89465B1040	DOX-0113
89465B1060	DOX-0109
89465B4020	DOX-0109
89465B4030	DOX-0113

FIAT	DENSO
46407316	DOX-0119
46417969	DOX-0120
46418568	DOX-0120
46418813	DOX-0119
46423798	DOX-0120
46426389	DOX-0114
46444284	DOX-0120
46449401	DOX-0120
46452598	DOX-0120
46455518	DOX-0120
46455802	DOX-0120
46460055	DOX-0120
46481457	DOX-0119
46481568	DOX-0150
46521170	DOX-0119
46523129	DOX-0119
46529385	DOX-0119
46545432	DOX-0119
46552313	DOX-0121
46750241	DOX-0150
46750243	DOX-0150
46750245	DOX-0150
46751082	DOX-0150
46760867	DOX-0121
46762182	DOX-0150
46762653	DOX-0150
46774531	DOX-0121
55184545	DOX-0121

FIAT	DENSO
55201610	DOX-0121
60810814	DOX-0120
60814386	DOX-0120
60815699	DOX-0150
7619303	DOX-0115
7668286	DOX-0120
7674048	DOX-0115
7751308	DOX-0119
9628448280	DOX-0120
9635978280	DOX-0150
9635978580	DOX-0150
9635978980	DOX-0150
9636148880	DOX-0150
9636876580	DOX-0150
9636876680	DOX-0150

FORD	DENSO
1000169	DOX-0150
1001702	DOX-0119
1013764	DOX-0114
1035595	DOX-0119
1053108	DOX-0119
1088851	DOX-0150
1108795	DOX-0150
1113382	DOX-0121
1143514	DOX-0119
1148070	DOX-0119
1309292	DOX-0150
1322705	DOX-0150
1322706	DOX-0150
1351337	DOX-0150
1367825	DOX-0150
1536254	DOX-0150
1S6A9G444BA	DOX-0119
1S7F9G444BB	DOX-0119
2S6A9F472BB	DOX-0119
2S6A9G444BA	DOX-0119
3040432	DOX-0150
3559458	DOX-0121
3721930	DOX-0119
3M519F472AC	DOX-0150
3M519F472BB	DOX-0150
3M519F472BC	DOX-0150
3M519G444BB	DOX-0150
3M519G444BC	DOX-0150
6196227	DOX-0115
6199647	DOX-0120
6628848	DOX-0119
6847908	DOX-0114
6847908	DOX-0119
6847911	DOX-0119
6G9N9G444LA	DOX-0150
7011190	DOX-0114
7126155	DOX-0114
92AB9F472AA	DOX-0119
93AB9F472AA	DOX-0119
93BB9F472AA	DOX-0119
93GB9F472DA	DOX-0114
95FB9F472CB	DOX-0114
95VW9F472FB	DOX-0150
96BB9F472BA	DOX-0119
96FB9F472CA	DOX-0114
96VB9F472DB	DOX-0150
97BB9F472AA	DOX-0119
98AB9F472BB	DOX-0119
98AB9G444BB	DOX-0119
98FB9F472CA	DOX-0150
XC2F9F472BA	DOX-0121
XR3F9G444BA	DOX-0119
YS6A9F472AC	DOX-0121

HONDA	DENSO
35631PR7003	DOX-0113
36531P0AA01	DOX-0109
36531P0FA01	DOX-0109
36531P1EJ01	DOX-0109
36531P1HE01	DOX-0109
36531P1KE02	DOX-0109
36531P1KE03	DOX-0109
36531P2EA01	DOX-0109
36531P2TJ01	DOX-0109
36531P3FG01	DOX-0109
36531P3FJ02	DOX-0109
36531P3YG01	DOX-0125
36531P3YG02	DOX-0125
36531P5A003	DOX-0109
36531P5K003	DOX-0109
36531P73VG0	DOX-0109
36531P7AG01	DOX-0109
36531P8CA01	DOX-0109
36531P8CA21	DOX-0113
36531PADG11	DOX-0113
36531PBY003	DOX-0113
36531PBYJ01	DOX-0109
36531PCA004	DOX-0109
36531PCA014	DOX-0109
36531PEL023	DOX-0113
36531PELG03	DOX-0109
36531PK1014	DOX-0125
36531PK2003	DOX-0125
36531PL2013	DOX-0125
36531PLD003	DOX-0113
36531PLD013	DOX-0113
36531PLRA01	DOX-0121
36531PM5A01	DOX-0125
36531PNBG01	DOX-0121
36531PNBG02	DOX-0121
36531PR7A01	DOX-0109
36531PR7J01	DOX-0109
36531PWEE01	DOX-0150
36531PWEG01	DOX-0150
36531PWOG02	DOX-0125
36531PY3003	DOX-0109
36532P5A003	DOX-0109
36532P7AG01	DOX-0109
36532P8CA21	DOX-0109
36532PAAA02	DOX-0109
36532PBY003	DOX-0113
36532PBYJ01	DOX-0109
36532PLAG01	DOX-0109
36532PLD013	DOX-0109
36532PNBG01	DOX-0119
36532PNBG02	DOX-0119
36532PPA004	DOX-0119
36532PR7003	DOX-0113
36532PR7A01	DOX-0109
36532PR7J01	DOX-0109
36532PWEG01	DOX-0150
36532PY3003	DOX-0109
36533PNBG00	DOX-0119
36535P5A003	DOX-0109
36541PR7A02	DOX-0109
36541PR7J51	DOX-0109
36542PR7A02	DOX-0109
36542PR7J51	DOX-0109

HYUNDAI	DENSO
3921002500	DOX-0125
3921002600	DOX-0119
3921022015	DOX-0116
3921022019	DOX-0115
3921023060	DOX-0117
3921023065	DOX-0117

HYUNDAI	DENSO
3921023215	DOX-0114
3921023216	DOX-0114

JAGUAR	DENSO
6R839G444AB	DOX-0109

KIA	DENSO
0K08A18861B	DOX-0117
0K08B18861B	DOX-0117
0K2AA18861	DOX-0117
0K2AB18861	DOX-0117
0K32A18861	DOX-0121
0K32B18861	DOX-0121
392102X010	DOX-0121
392102X020	DOX-0121
KK34818861	DOX-0125
MBP0318861B	DOX-0125

LADA	DENSO
11180385001000	DOX-0150
2108385001010	DOX-0150
2112385001020	DOX-0150
2112385001030	DOX-0150

LANCIA	DENSO
46417969	DOX-0120
46444284	DOX-0120
46455518	DOX-0120
46460055	DOX-0120
46521170	DOX-0119
46523129	DOX-0119
46760867	DOX-0121
60812802	DOX-0120

LAND ROVER	DENSO
MHK000210	DOX-0117
MHK000220	DOX-0117
MHK10004L	DOX-0120
MHK100720	DOX-0120
MHK100840L	DOX-0150
MHK500910	DOX-0109
MHK501050	DOX-0109

MAZDA	DENSO
AJ5118861	DOX-0113
AJ5218861A	DOX-0109
AJ5318861A	DOX-0109
AJ5518861	DOX-0113
AJ9518861	DOX-0113
AJD618861	DOX-0113
B31R18861A	DOX-0116
B5E118861B	DOX-0121
B5F318861A	DOX-0119
B61R18861A	DOX-0125
B6B118861	DOX-0125
B6DC18861A	DOX-0116
B6KP18861A	DOX-0125
BP0318861B	DOX-0125
BP3A18861	DOX-0109
BP3C18861	DOX-0109
BP4W18861B	DOX-0109
BP6F18861B	DOX-0113
BP6G18861C	DOX-0109
BP6J18861B	DOX-0113
BP6L18861	DOX-0113
BP6M1886ZA	DOX-0109
BPD318861A	DOX-0109
BPE118861A	DOX-0109
BPE818861A	DOX-0109
C20118861	DOX-0119
C60118861	DOX-0119

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MAZDA	DENSO
FEH118861	DOX-0125
FP3318861A	DOX-0119
FP3318861B	DOX-0119
FP3518861A	DOX-0119
FP4718861B	DOX-0119
FS1R18861	DOX-0109
FS5R18861B	DOX-0119
FS7N18861	DOX-0113
FS8A18861	DOX-0121
FS8B18861A	DOX-0119
GY0418861B	DOX-0109
GY0518861A	DOX-0109
GY0718861	DOX-0109
GY0818861A	DOX-0109
JE5018861A	DOX-0119
JE5018861B	DOX-0119
JEA318861	DOX-0109
K80518861A	DOX-0109
K80618861A	DOX-0109
L33618861	DOX-0113
L34318861A	DOX-0109
L3E118861	DOX-0121
L3E218861	DOX-0119
LF1718861C	DOX-0119
LF6618861C	DOX-0121
LFG218861A	DOX-0109
LFH218861B	DOX-0121
N3H118861B	DOX-0109
N3H318861B	DOX-0109
Z53618861A	DOX-0119
Z53618861C	DOX-0119
Z60118861A	DOX-0113
Z60218861A	DOX-0109
ZL0218861C	DOX-0119
ZL2718861A	DOX-0121
ZM0318861A	DOX-0113
ZM4018861B	DOX-0119

MERCEDES-BENZ	DENSO
0005403917	DOX-0120
0005404017	DOX-0120
0005404217	DOX-0120
0005404317	DOX-0120
0005405617	DOX-0120
0005405917	DOX-0118
0005406117	DOX-0114
0005406217	DOX-0114
0005406417	DOX-0120
0005406517	DOX-0120
0005407417	DOX-0117
0005407517	DOX-0117
0005407617	DOX-0117
0005408117	DOX-0117
0005408517	DOX-0117
0005409017	DOX-0117
0005409117	DOX-0117
0005409217	DOX-0114
0005409717	DOX-0117
0015400417	DOX-0114
0015400517	DOX-0150
0015400617	DOX-0150
0015400717	DOX-0150
0015400817	DOX-0117
0015401017	DOX-0117
0015401117	DOX-0117
0015401217	DOX-0117
0015402117	DOX-0114
0015402817	DOX-0117
0015403717	DOX-0150
0015403817	DOX-0150
0015404617	DOX-0150

MERCEDES-BENZ	DENSO
0015404717	DOX-0150
0015405017	DOX-0150
0015405117	DOX-0150
0015406017	DOX-0150
0015407117	DOX-0150
0015407217	DOX-0150
0015407317	DOX-0150
0015407417	DOX-0150
0015407517	DOX-0150
0015407617	DOX-0150
0015407917	DOX-0150
0015408017	DOX-0150
0015408517	DOX-0150
0015408717	DOX-0150
0015408917	DOX-0150
0015409117	DOX-0150
0015409217	DOX-0150
0015409417	DOX-0150
0015409517	DOX-0150
0025400117	DOX-0150
0025400617	DOX-0150
0025400817	DOX-0150
0035428218	DOX-0150
0045420718	DOX-0150
0045420818	DOX-0150
0065423918	DOX-0150
0065424018	DOX-0150
0095423917	DOX-0115
0095423917	DOX-0116
0095424117	DOX-0116
A0005405617	DOX-0120
A0005405817	DOX-0120
A0015400517	DOX-0150

MG	DENSO
MHK10006	DOX-0120
MHK100728	DOX-0119

MITSUBISHI	DENSO
1588A011	DOX-0113
1588A013	DOX-0109
1588A020	DOX-0113
1588A021	DOX-0109
1588A063	DOX-0109
1588A081	DOX-0113
1588A126	DOX-0109
1588A129	DOX-0109
1588A130	DOX-0109
1588A131	DOX-0109
1588A132	DOX-0109
1588A141	DOX-0113
1588A144	DOX-0113
1588A147	DOX-0109
1588A148	DOX-0109
1588A165	DOX-0113
MD073036	DOX-0125
MD073175	DOX-0125
MD089922	DOX-0125
MD108934	DOX-0125
MD109613	DOX-0125
MD110487	DOX-0125
MD110492	DOX-0125
MD117240	DOX-0125
MD119210	DOX-0125
MD119609	DOX-0125
MD126177	DOX-0125
MD126181	DOX-0125
MD127062	DOX-0125
MD127426	DOX-0125
MD128262	DOX-0125
MD129183	DOX-0123

MITSUBISHI	DENSO
MD131229	DOX-0123
MD136308	DOX-0109
MD136309	DOX-0109
MD136310	DOX-0109
MD140388	DOX-0125
MD147878	DOX-0123
MD148329	DOX-0125
MD148687	DOX-0123
MD148738	DOX-0123
MD149813	DOX-0125
MD149888	DOX-0123
MD150608	DOX-0123
MD150609	DOX-0123
MD154365	DOX-0123
MD160578	DOX-0123
MD163530	DOX-0123
MD166841	DOX-0123
MD171047	DOX-0123
MD173005	DOX-0123
MD174677	DOX-0123
MD176183	DOX-0123
MD176245	DOX-0123
MD176884	DOX-0123
MD177968	DOX-0109
MD177969	DOX-0109
MD177969	DOX-0119
MD178294	DOX-0123
MD180618	DOX-0109
MD181398	DOX-0109
MD182691	DOX-0119
MD183145	DOX-0109
MD183399	DOX-0109
MD184939	DOX-0109
MD185334	DOX-0109
MD185335	DOX-0109
MD186391	DOX-0109
MD186392	DOX-0109
MD186990	DOX-0109
MD186991	DOX-0109
MD186992	DOX-0109
MD189007	DOX-0109
MD189008	DOX-0109
MD189462	DOX-0109
MD191064	DOX-0123
MD191862	DOX-0125
MD192071	DOX-0109
MD192072	DOX-0109
MD194702	DOX-0123
MD194704	DOX-0123
MD194705	DOX-0109
MD197852	DOX-0114
MD198841	DOX-0123
MD300080	DOX-0109
MD302068	DOX-0109
MD302761	DOX-0123
MD305144	DOX-0109
MD305145	DOX-0109
MD305146	DOX-0109
MD305147	DOX-0109
MD306893	DOX-0109
MD306894	DOX-0109
MD307258	DOX-0109
MD312083	DOX-0109
MD312191	DOX-0109
MD312465	DOX-0123
MD313045	DOX-0123
MD313819	DOX-0109
MD314060	DOX-0109
MD315073	DOX-0109
MD316135	DOX-0109
MD319021	DOX-0123

MITSUBISHI	DENSO
MD326168	DOX-0123
MD327693	DOX-0109
MD329341	DOX-0109
MD331050	DOX-0109
MD335431	DOX-0109
MD338845	DOX-0109
MD338847	DOX-0109
MD339640	DOX-0109
MD339641	DOX-0109
MD339900	DOX-0114
MD342689	DOX-0109
MD343421	DOX-0109
MD348431	DOX-0109
MD348512	DOX-0109
MD351752	DOX-0114
MD362314	DOX-0114
MD369189	DOX-0113
MD369191	DOX-0109
MD369610	DOX-0109
MN153009	DOX-0109
MN153035	DOX-0113
MN153036	DOX-0113
MN153037	DOX-0109
MN153038	DOX-0109
MN153156	DOX-0109
MN158670	DOX-0113
MN158773	DOX-0109
MN158779	DOX-0109
MN158825	DOX-0109
MN158826	DOX-0109
MN158916	DOX-0109
MN158917	DOX-0109
MN158918	DOX-0113
MN163431	DOX-0109
MN171805	DOX-0109
MN176515	DOX-0109
MN183468	DOX-0113
MN183469	DOX-0113
MR420649	DOX-0109
MR507031	DOX-0109
MR507138	DOX-0109
MR507378	DOX-0113
MR507380	DOX-0109
MR507381	DOX-0109
MR507749	DOX-0113
MR507751	DOX-0109
MR507752	DOX-0109
MR507769	DOX-0113
MR507771	DOX-0109
MR507848	DOX-0113
MR507849	DOX-0109
MR514342	DOX-0109
MR514374	DOX-0113
MR514477	DOX-0113
MR514490	DOX-0109
MR560271	DOX-0109
MR560331	DOX-0113
MR560393	DOX-0113
MR578494	DOX-0109
MR578604	DOX-0113

NISSAN	DENSO
2269006F00	DOX-0125
2269007G00	DOX-0125
2269017B00	DOX-0125
2269019B10	DOX-0125
226901F700	DOX-0114
226901F701	DOX-0114
226901N000	DOX-0116
226901N001	DOX-0116
226902F010	DOX-0116

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NISSAN	DENSO
226903J410	DOX-0116
2269040F00	DOX-0125
226904E811	DOX-0125
2269073C00	DOX-0116
2269073C01	DOX-0116
2269076J00	DOX-0116
2269081N00	DOX-0125
226908J001	DOX-0121
226908U300	DOX-0150
2269099B00	DOX-0115
226909F600	DOX-0115
226909F601	DOX-0115
22690AU000	DOX-0150
22690AX000	DOX-0121
22690BX000	DOX-0121
22690F5300	DOX-0125
226A01F701	DOX-0114
226A01F725	DOX-0114
226A05M300	DOX-0120
226A07J600	DOX-0120
226A07J601	DOX-0120
226A07S001	DOX-0150
226A08J001	DOX-0119
226A08U300	DOX-0150
226A0AU011	DOX-0119
226A0AX000	DOX-0120
226A0EA200	DOX-0150
B26908J001	DOX-0121

OPEL	DENSO
12567680	DOX-0109
12567681	DOX-0109
12569391	DOX-0109
12574574	DOX-0109
12597989	DOX-0114
25105107	DOX-0125
25106073	DOX-0125
25133391	DOX-0125
25162753	DOX-0125
25163613	DOX-0125
25164596	DOX-0125
25165313	DOX-0119
4300009	DOX-0125
855302	DOX-0115
855305	DOX-0125
855306	DOX-0115
855307	DOX-0115
855314	DOX-0125
855315	DOX-0125
855321	DOX-0125
855322	DOX-0115
855325	DOX-0115
855329	DOX-0125
855332	DOX-0125
855333	DOX-0125
855337	DOX-0115
855338	DOX-0115
855341	DOX-0117
855345	DOX-0114
855351	DOX-0150
855353	DOX-0114
855355	DOX-0150
855356	DOX-0119
855359	DOX-0150
855360	DOX-0114
855361	DOX-0119
855362	DOX-0150
855366	DOX-0114
855371	DOX-0109
855372	DOX-0109
855375	DOX-0114

OPEL	DENSO
855378	DOX-0150
855382	DOX-0109
855385	DOX-0150
855386	DOX-0150
855387	DOX-0150
855388	DOX-0150
855389	DOX-0119
855390	DOX-0114
855395	DOX-0109
855402	DOX-0150
855404	DOX-0150
855405	DOX-0150
855406	DOX-0150
855426	DOX-0119
855429	DOX-0150
855523	DOX-0114
855524	DOX-0114
90509274	DOX-0115
90541930	DOX-0115
90543281	DOX-0117
9118698	DOX-0114
9158718	DOX-0119
9202575	DOX-0119
93185493	DOX-0119
96253546	DOX-0123
96335925	DOX-0125
96335926	DOX-0123
96377500	DOX-0123
96507986	DOX-0119
97018586	DOX-0125
D96253546	DOX-0123
D96335925	DOX-0125
D96335926	DOX-0123

RENAULT	DENSO
6001549007	DOX-0121
7700101345	DOX-0115
7700107433	DOX-0150
7700107434	DOX-0114
7700107438	DOX-0114
7700108027	DOX-0150
7700273273	DOX-0116
7700273715	DOX-0116
7700274190	DOX-0121
7700746375	DOX-0116
7700854136	DOX-0125
7700854148	DOX-0116
7700854506	DOX-0116
7700860246	DOX-0123
7700861016	DOX-0125
7700864987	DOX-0116
7700867295	DOX-0116
7700870318	DOX-0116
7700871544	DOX-0114
7700872878	DOX-0116
8200024503	DOX-0116
8200036544	DOX-0150
8200036545	DOX-0150
8200052063	DOX-0121
8200196260	DOX-0150
8933002455	DOX-0125

ROVER	DENSO
MHK10004	DOX-0120
MHK10021	DOX-0120
MHK10023	DOX-0125
MHK100840	DOX-0150
MHK100960	DOX-0125
MHK101086	DOX-0150

SAAB	DENSO
4570909	DOX-0150
4570917	DOX-0150
4571477	DOX-0150
4660445	DOX-0117
4662359	DOX-0117
55353148	DOX-0150
55353149	DOX-0150

SEAT	DENSO
021906262C	DOX-0150
021906265A	DOX-0118
021906265AB	DOX-0118
021906265AC	DOX-0117
021906265AE	DOX-0117
021906265AG	DOX-0117
021906265AK	DOX-0117
021906265AQ	DOX-0117
021906265BD	DOX-0118
021906265C	DOX-0120
021906265N	DOX-0118
022906262AF	DOX-0150
022906262AG	DOX-0150
022906262AH	DOX-0150
022906262BG	DOX-0150
022906262BH	DOX-0150
022906262BJ	DOX-0150
022906262BQ	DOX-0150
022906262CE	DOX-0150
022906262CF	DOX-0150
022906262F	DOX-0150
022906262K	DOX-0150
022906262L	DOX-0150
022906262S	DOX-0150
022906265B	DOX-0150
022906265C	DOX-0150
023906262	DOX-0150
023906265D	DOX-0118
030906262	DOX-0150
030906262A	DOX-0150
030906262C	DOX-0119
030906262F	DOX-0119
030906262L	DOX-0150
030906262N	DOX-0150
030906265	DOX-0116
030906265AA	DOX-0116
030906265AB	DOX-0116
030906265AD	DOX-0117
030906265AN	DOX-0115
030906265BH	DOX-0114
030906265C	DOX-0115
030906265CB	DOX-0114
030906265F	DOX-0116
030906265J	DOX-0115
030906265K	DOX-0116
030906265N	DOX-0115
030906265Q	DOX-0115
032906265	DOX-0117
032906265C	DOX-0117
032906265F	DOX-0117
034906265F	DOX-0115
035906265B	DOX-0125
036906262AA	DOX-0119
036906262D	DOX-0119
036906262F	DOX-0119
036906262H	DOX-0150
036906262M	DOX-0119
036906262P	DOX-0150
036906262Q	DOX-0119
036906265H	DOX-0119
037906265	DOX-0115
037906265AD	DOX-0118

SEAT	DENSO
037906265B	DOX-0116
037906265G	DOX-0116
03C906262	DOX-0119
03D906265	DOX-0121
03D906265A	DOX-0119
03D906265C	DOX-0121
03E906262B	DOX-0121
047906265B	DOX-0150
048906265	DOX-0116
051906265E	DOX-0125
053906265	DOX-0115
058906265B	DOX-0150
058906265C	DOX-0150
06A906262AC	DOX-0150
06A906262AG	DOX-0150
06A906262AH	DOX-0150
06A906262AJ	DOX-0150
06A906262AK	DOX-0150
06A906262AL	DOX-0150
06A906262AM	DOX-0150
06A906262AQ	DOX-0150
06A906262AR	DOX-0150
06A906262BA	DOX-0150
06A906262BB	DOX-0150
06A906262BG	DOX-0150
06A906262BL	DOX-0150
06A906262BS	DOX-0119
06A906262C	DOX-0150
06A906262CN	DOX-0150
06A906262DQ	DOX-0150
06A906262EA	DOX-0150
06A906262ED	DOX-0150
06A906262F	DOX-0150
06A906262P	DOX-0150
06A906262Q	DOX-0150
06A906265AM	DOX-0117
06A906265AP	DOX-0117
06A906265E	DOX-0117
06A906265F	DOX-0117
06A906265H	DOX-0117
06A906265M	DOX-0150
06A906265N	DOX-0150
06A906265P	DOX-0117
06B906265A	DOX-0119
06B906265B	DOX-0121
06B906265E	DOX-0119
06C906265	DOX-0150
06C906265A	DOX-0150
06C906265C	DOX-0150
06C906265L	DOX-0150
06C906265M	DOX-0150
06D906265	DOX-0150
06E906265D	DOX-0119
06E906265E	DOX-0119
06F906262AE	DOX-0150
06F906262D	DOX-0150
06F906262E	DOX-0150
06F906262P	DOX-0150
06F906262S	DOX-0150
06F906265	DOX-0150
06H906262A	DOX-0150
06J906262K	DOX-0150
077906262B	DOX-0150
077906262C	DOX-0150
077906262G	DOX-0150
077906265AA	DOX-0150
077906265AD	DOX-0150
077906265AE	DOX-0150
077906265AF	DOX-0150
077906265H	DOX-0150
077906265J	DOX-0150

Lambda Sensors

Cross Reference Chart - Universal fit

SEAT	DENSO
077906265K	DOX-0150
077906265L	DOX-0150
077906265R	DOX-0150
077906265T	DOX-0150
078906265AA	DOX-0150
078906265B	DOX-0115
078906265M	DOX-0150
078906265N	DOX-0150
078906265P	DOX-0150
078906265Q	DOX-0150
078906265R	DOX-0150
078906265T	DOX-0150
079906262G	DOX-0150
079906262H	DOX-0150
079906265	DOX-0150
079906265A	DOX-0150
079906265E	DOX-0150
079906265F	DOX-0150
07C906262A	DOX-0150
07C906262AE	DOX-0150
07C906262AG	DOX-0150
07C906262AH	DOX-0150
07C906262AR	DOX-0150
07C906262H	DOX-0150
07C906262J	DOX-0150
07C906262M	DOX-0150
07C906262P	DOX-0150
07C906262S	DOX-0150
07C906262T	DOX-0150
07D906262A	DOX-0150
07D906262B	DOX-0150
07D906262E	DOX-0150
07L906265F	DOX-0150
07L906265G	DOX-0150
07L906265H	DOX-0150
1K0998262	DOX-0150
1K0998262A	DOX-0150
1k0998262AB	DOX-0150
1K0998262AC	DOX-0150
1K0998262B	DOX-0150
1K0998262C	DOX-0150
1K0998262E	DOX-0150
1K0998262Q	DOX-0150
1K0998262R	DOX-0150
1K0998262S	DOX-0150
1K0998262T	DOX-0150
330906265	DOX-0118
6A906262CM	DOX-0150
6K0906262A	DOX-0119
6U0906265B	DOX-0118
6U0906265C	DOX-0117
6U0906265D	DOX-0117

SKODA	DENSO
021906262C	DOX-0150
021906265A	DOX-0118
021906265AB	DOX-0118
021906265AC	DOX-0117
021906265AE	DOX-0117
021906265AG	DOX-0117
021906265AK	DOX-0117
021906265AQ	DOX-0117
021906265BD	DOX-0118
021906265C	DOX-0120
021906265N	DOX-0118
022906262AF	DOX-0150
022906262AG	DOX-0150
022906262AH	DOX-0150
022906262BG	DOX-0150
022906262BH	DOX-0150
022906262BJ	DOX-0150

SKODA	DENSO
022906262BQ	DOX-0150
022906262CE	DOX-0150
022906262CF	DOX-0150
022906262F	DOX-0150
022906262K	DOX-0150
022906262L	DOX-0150
022906262S	DOX-0150
022906265B	DOX-0150
022906265C	DOX-0150
023906262	DOX-0150
023906265D	DOX-0118
030906262	DOX-0150
030906262A	DOX-0150
030906262C	DOX-0119
030906262F	DOX-0119
030906262L	DOX-0150
030906262N	DOX-0150
030906265	DOX-0116
030906265AA	DOX-0116
030906265AB	DOX-0116
030906265AD	DOX-0117
030906265AN	DOX-0115
030906265BH	DOX-0114
030906265C	DOX-0115
030906265CB	DOX-0114
030906265F	DOX-0116
030906265J	DOX-0115
030906265K	DOX-0116
030906265N	DOX-0115
030906265Q	DOX-0115
032906265	DOX-0117
032906265C	DOX-0117
032906265F	DOX-0117
034906265F	DOX-0115
035906265B	DOX-0125
036906262AA	DOX-0119
036906262D	DOX-0119
036906262F	DOX-0119
036906262H	DOX-0150
036906262M	DOX-0119
036906262P	DOX-0150
036906262Q	DOX-0119
036906265H	DOX-0119
037906265	DOX-0115
037906265AD	DOX-0118
037906265B	DOX-0116
037906265G	DOX-0116
03C906262	DOX-0119
03D906265	DOX-0121
03D906265A	DOX-0119
03D906265C	DOX-0121
03E906262B	DOX-0121
047906265B	DOX-0150
048906265	DOX-0116
051906265E	DOX-0125
053906265	DOX-0115
058906265B	DOX-0150
058906265C	DOX-0150
06A906262AC	DOX-0150
06A906262AG	DOX-0150
06A906262AH	DOX-0150
06A906262AJ	DOX-0150
06A906262AK	DOX-0150
06A906262AL	DOX-0150
06A906262AM	DOX-0150
06A906262AQ	DOX-0150
06A906262AR	DOX-0150
06A906262BA	DOX-0150
06A906262BB	DOX-0150
06A906262BG	DOX-0150
06A906262BL	DOX-0150

SKODA	DENSO
06A906262BS	DOX-0119
06A906262C	DOX-0150
06A906262CN	DOX-0150
06A906262DQ	DOX-0150
06A906262EA	DOX-0150
06A906262ED	DOX-0150
06A906262F	DOX-0150
06A906262P	DOX-0150
06A906262Q	DOX-0150
06A906265AM	DOX-0117
06A906265AP	DOX-0117
06A906265E	DOX-0117
06A906265F	DOX-0117
06A906265H	DOX-0117
06A906265M	DOX-0150
06A906265N	DOX-0150
06A906265P	DOX-0117
06B906265A	DOX-0119
06B906265B	DOX-0121
06B906265E	DOX-0119
06C906265	DOX-0150
06C906265A	DOX-0150
06C906265C	DOX-0150
06C906265L	DOX-0150
06C906265M	DOX-0150
06D906265	DOX-0150
06E906265D	DOX-0119
06E906265E	DOX-0119
06F906262AE	DOX-0150
06F906262D	DOX-0150
06F906262E	DOX-0150
06F906262P	DOX-0150
06F906262S	DOX-0150
06F906265	DOX-0150
06H906262A	DOX-0150
06J906262K	DOX-0150
077906262B	DOX-0150
077906262C	DOX-0150
077906262G	DOX-0150
077906265AA	DOX-0150
077906265AD	DOX-0150
077906265AE	DOX-0150
077906265AF	DOX-0150
077906265H	DOX-0150
077906265J	DOX-0150
077906265K	DOX-0150
077906265L	DOX-0150
077906265R	DOX-0150
077906265T	DOX-0150
078906265AA	DOX-0150
078906265B	DOX-0115
078906265M	DOX-0150
078906265N	DOX-0150
078906265P	DOX-0150
078906265Q	DOX-0150
078906265R	DOX-0150
078906265T	DOX-0150
079906262G	DOX-0150
079906262H	DOX-0150
079906265	DOX-0150
079906265A	DOX-0150
079906265E	DOX-0150
079906265F	DOX-0150
07C906262A	DOX-0150
07C906262AE	DOX-0150
07C906262AG	DOX-0150
07C906262AH	DOX-0150
07C906262AR	DOX-0150
07C906262H	DOX-0150
07C906262J	DOX-0150
07C906262M	DOX-0150

SKODA	DENSO
07C906262P	DOX-0150
07C906262S	DOX-0150
07C906262T	DOX-0150
07D906262A	DOX-0150
07D906262B	DOX-0150
07D906262E	DOX-0150
07L906265F	DOX-0150
07L906265G	DOX-0150
07L906265H	DOX-0150
1K0998262	DOX-0150
1K0998262A	DOX-0150
1k0998262AB	DOX-0150
1K0998262AC	DOX-0150
1K0998262B	DOX-0150
1K0998262C	DOX-0150
1K0998262E	DOX-0150
1K0998262Q	DOX-0150
1K0998262R	DOX-0150
1K0998262S	DOX-0150
1K0998262T	DOX-0150
330906265	DOX-0118
6A906262CM	DOX-0150
6K0906262A	DOX-0119
6U0906265B	DOX-0118
6U0906265C	DOX-0117
6U0906265D	DOX-0117

SUBARU	DENSO
22690AA370	DOX-0109
22690AA501	DOX-0113
22690AA640	DOX-0120
22690AA740	DOX-0115
22690AA840	DOX-0113
22690KA000	DOX-0125
22690KA100	DOX-0125
22690KA110	DOX-0125
22690KA120	DOX-0125
22690KA140	DOX-0125

SUZUKI	DENSO
1821350G00	DOX-0109
1821350G01	DOX-0109
1821350G10	DOX-0109
1821354D01	DOX-0113
1821356B00	DOX-0116
1821357B21	DOX-0109
1821358B11	DOX-0109
1821358B20	DOX-0109
1821358B21	DOX-0109
1821360B00	DOX-0125
1821360J00	DOX-0109
1821361J00	DOX-0113
1821362J01	DOX-0113
1821362J10	DOX-0109
1821362J11	DOX-0109
1821362J12	DOX-0109
1821363J12	DOX-0109
1821364B00	DOX-0125
1821364F00	DOX-0119
1821365D01	DOX-0109
1821365D30	DOX-0119
1821365D31	DOX-0119
1821365D40	DOX-0109
1821365D41	DOX-0109
1821365D42	DOX-0109
1821365D43	DOX-0109
1821365D72	DOX-0113
1821365G00	DOX-0121
1821365G41	DOX-0113
1821365J10	DOX-0113
1821365J11	DOX-0113

Lambda Sensors

Cross Reference Chart - Universal fit

SUZUKI	DENSO
1821365J12	DOX-0113
1821367D00	DOX-0121
1821367D10	DOX-0119
1821367D30	DOX-0121
1821367D50	DOX-0119
1821376J01	DOX-0113
1821377E00	DOX-0119
1821379GA2	DOX-0109
1821380C01	DOX-0109
1821380G12	DOX-0113
1821380G21	DOX-0109
1821383000	DOX-0125
1821383E11	DOX-0109
1821386G01	DOX-0113
1821386G11	DOX-0109

TOYOTA	DENSO
8946501090	DOX-0109
8946501100	DOX-0109
8946501110	DOX-0109
8946502020	DOX-0111
8946502030	DOX-0109
8946502040	DOX-0114
8946502050	DOX-0114
8946502060	DOX-0150
8946502080	DOX-0109
8946502090	DOX-0109
8946502100	DOX-0109
8946502110	DOX-0109
8946502130	DOX-0109
8946502140	DOX-0150
8946502150	DOX-0106
8946502170	DOX-0109
8946502171	DOX-0109
8946502190	DOX-0109
8946502200	DOX-0109
8946502210	DOX-0109
8946502220	DOX-0109
8946502230	DOX-0109
8946502240	DOX-0109
8946502250	DOX-0109
8946502280	DOX-0109
8946502290	DOX-0109
8946502300	DOX-0109
8946502310	DOX-0106
8946502330	DOX-0109
8946502360	DOX-0109
8946502370	DOX-0109
8946504270	DOX-0109
8946504280	DOX-0109
8946504290	DOX-0109
8946504300	DOX-0109
8946504320	DOX-0109
8946504330	DOX-0109
8946504340	DOX-0109
8946504350	DOX-0109
8946504360	DOX-0109
8946505020	DOX-0114
8946505030	DOX-0109
8946505040	DOX-0109
8946505050	DOX-0109
8946505060	DOX-0109
8946505070	DOX-0109
8946505080	DOX-0106
8946505090	DOX-0109
8946505100	DOX-0109
8946505110	DOX-0109
8946505120	DOX-0109
8946505130	DOX-0109
8946505190	DOX-0109
8946506010	DOX-0109

TOYOTA	DENSO
8946506020	DOX-0109
8946506030	DOX-0109
8946506040	DOX-0109
8946506060	DOX-0109
8946506070	DOX-0109
8946506080	DOX-0109
8946506090	DOX-0109
8946506100	DOX-0109
8946506110	DOX-0109
8946506130	DOX-0109
8946506140	DOX-0109
8946506150	DOX-0109
8946506160	DOX-0109
8946506170	DOX-0109
8946506180	DOX-0109
8946506210	DOX-0109
8946506220	DOX-0109
8946506230	DOX-0109
8946506240	DOX-0109
8946506250	DOX-0109
8946507020	DOX-0109
8946507030	DOX-0109
8946507040	DOX-0109
8946507050	DOX-0109
8946507060	DOX-0109
8946507070	DOX-0109
8946507080	DOX-0109
8946508010	DOX-0109
8946508030	DOX-0109
8946508040	DOX-0109
8946508050	DOX-0109
8946508051	DOX-0109
8946508060	DOX-0109
8946508070	DOX-0109
8946508080	DOX-0109
8946508090	DOX-0109
8946508100	DOX-0109
894650C140	DOX-0109
894650C150	DOX-0109
894650C160	DOX-0109
894650C170	DOX-0109
894650C180	DOX-0109
894650C190	DOX-0109
894650D010	DOX-0150
894650D030	DOX-0109
894650D040	DOX-0109
894650D070	DOX-0109
894650D080	DOX-0106
894650D110	DOX-0106
894650D120	DOX-0109
894650D130	DOX-0150
894650D140	DOX-0109
894650D150	DOX-0109
894650D170	DOX-0109
894650D180	DOX-0109
894650D200	DOX-0109
894650E010	DOX-0109
894650E020	DOX-0109
894650E030	DOX-0109
894650E040	DOX-0109
894650E050	DOX-0109
894650E060	DOX-0109
894650E070	DOX-0109
894650G010	DOX-0109
894650G020	DOX-0109
894650G030	DOX-0109
894650G040	DOX-0109
894650G050	DOX-0109
894650G060	DOX-0109
894650G070	DOX-0109
894650G080	DOX-0109

TOYOTA	DENSO
894650G100	DOX-0109
894650H010	DOX-0150
894650K010	DOX-0106
894650K020	DOX-0109
894650K030	DOX-0109
894650K040	DOX-0109
894650K050	DOX-0109
894650K060	DOX-0109
894650K070	DOX-0109
894650K080	DOX-0109
894650K100	DOX-0109
894650K110	DOX-0109
894650K130	DOX-0109
894650K140	DOX-0109
894650K150	DOX-0109
894650K160	DOX-0109
894650M010	DOX-0109
894650N020	DOX-0109
894650N030	DOX-0109
894650N040	DOX-0109
894650N050	DOX-0109
894650P010	DOX-0109
894650Q010	DOX-0109
894650R020	DOX-0109
894650R030	DOX-0109
894650T010	DOX-0109
894650T030	DOX-0109
8946510060	DOX-0109
8946510070	DOX-0109
8946512390	DOX-0109
8946512400	DOX-0109
8946512410	DOX-0123
8946512440	DOX-0111
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8946513030	DOX-0106
8946513040	DOX-0109
8946514120	DOX-0109
8946514140	DOX-0109
8946514200	DOX-0109
8946514210	DOX-0109
8946514220	DOX-0109
8946514230	DOX-0109

TOYOTA	DENSO
8946516050	DOX-0109
8946516060	DOX-0109
8946516080	DOX-0109
8946516110	DOX-0123
8946516120	DOX-0109
8946516140	DOX-0109
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8946519285	DOX-0108
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8946519385	DOX-0108
8946519405	DOX-0102
8946519415	DOX-0101
8946519485	DOX-0102
8946519515	DOX-0101
8946519575	DOX-0108
8946519595	DOX-0110
8946519605	DOX-0110
8946519665	DOX-0102
8946519675	DOX-0111
8946519745	DOX-0111
8946519755	DOX-0110
8946520270	DOX-0109
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8946520820	DOX-0106
8946520830	DOX-0106
8946520840	DOX-0109
8946520850	DOX-0109
8946520851	DOX-0109
8946520860	DOX-0109
8946520870	DOX-0109

Lambda Sensors

Cross Reference Chart - Universal fit

TOYOTA	DENSO
8946520880	DOX-0109
8946520A00	DOX-0109
8946520A10	DOX-0109
8946521020	DOX-0109
8946521030	DOX-0109
8946521040	DOX-0109
8946522180	DOX-0109
8946522230	DOX-0109
8946522250	DOX-0109
8946522260	DOX-0109
8946522270	DOX-0109
8946522280	DOX-0109
8946522290	DOX-0109
8946522300	DOX-0106
8946524090	DOX-0109
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8946524160	DOX-0109
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8946524200	DOX-0109
8946524210	DOX-0109
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8946529495	DOX-0101
8946529545	DOX-0101
8946529565	DOX-0101
8946529575	DOX-0102
8946529675	DOX-0110
8946529715	DOX-0110
8946529735	DOX-0101
8946529765	DOX-0101
8946529825	DOX-0110
8946529835	DOX-0102
8946530180	DOX-0109
8946530190	DOX-0109
8946530250	DOX-0109
8946530290	DOX-0109
8946530300	DOX-0109
8946530310	DOX-0109

TOYOTA	DENSO
8946530340	DOX-0109
8946530350	DOX-0109
8946530360	DOX-0109
8946530370	DOX-0109
8946530380	DOX-0109
8946530390	DOX-0109
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8946533210	DOX-0109
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8946533240	DOX-0109
8946533250	DOX-0109
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8946533270	DOX-0109

TOYOTA	DENSO
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8946533290	DOX-0109
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8946535680	DOX-0109
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8946535700	DOX-0106
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8946536030	DOX-0109
8946536040	DOX-0109
8946536050	DOX-0109
8946536060	DOX-0109
8946537120	DOX-0109
8946537140	DOX-0109
8946537150	DOX-0109
8946538040	DOX-0109
8946539195	DOX-0101
8946539226	DOX-0101
8946539305	DOX-0101
8946539325	DOX-0101
8946539345	DOX-0101
8946539355	DOX-0101
8946539405	DOX-0107
8946539435	DOX-0101
8946539446	DOX-0101
8946539485	DOX-0101
8946539735	DOX-0110
8946539755	DOX-0110
8946539825	DOX-0110
8946539835	DOX-0110
8946539855	DOX-0110
8946539895	DOX-0110
8946540040	DOX-0109
8946540050	DOX-0109
8946540060	DOX-0109
8946540080	DOX-0109
8946540090	DOX-0109
8946540100	DOX-0109
8946540110	DOX-0109
8946540120	DOX-0109
8946540130	DOX-0109

TOYOTA	DENSO
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8946540150	DOX-0109
8946540160	DOX-0109
8946540170	DOX-0109
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8946548160	DOX-0106
8946548170	DOX-0109
8946548180	DOX-0109
8946548200	DOX-0109
8946548210	DOX-0109
8946548220	DOX-0109
8946548230	DOX-0109
8946548240	DOX-0109

Lambda Sensors

Cross Reference Chart - Universal fit

TOYOTA	DENSO
8946548270	DOX-0109
8946548280	DOX-0109
8946549045	DOX-0110
8946550040	DOX-0109
8946550060	DOX-0109
8946550070	DOX-0109
8946550080	DOX-0109
8946550090	DOX-0109
8946550100	DOX-0109
8946550110	DOX-0109
8946550120	DOX-0109
8946550130	DOX-0109
8946550140	DOX-0109
8946550150	DOX-0109
8946550160	DOX-0109
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8946553190	DOX-0109
8946553200	DOX-0109
8946553210	DOX-0109
8946553230	DOX-0109
8946558010	DOX-0109
8946558020	DOX-0109

TOYOTA	DENSO
8946558030	DOX-0109
8946558040	DOX-0109
8946558050	DOX-0109
8946558060	DOX-0109
8946558070	DOX-0109
8946558080	DOX-0109
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8946569025	DOX-0101
8946569035	DOX-0101
8946569045	DOX-0101
8946569085	DOX-0110
8946569175	DOX-0110
8946575010	DOX-0109
8946577010	DOX-0109
8946580004	DOX-0110
8946580009	DOX-0110
8946580011	DOX-0110
8946580028	DOX-0110
8946580034	DOX-0110
8946580035	DOX-0110
8946747040	DOX-0109

VAUXHALL	DENSO
12571768	DOX-0150
55560617	DOX-0150
9192922	DOX-0150
9193148	DOX-0150
9193654	DOX-0150
9195606	DOX-0150
9199469	DOX-0150
9199470	DOX-0150

VAUXHALL	DENSO
9199590	DOX-0150
9199591	DOX-0150
9201421	DOX-0150
93177169	DOX-0150
93177450	DOX-0150
93177451	DOX-0150
93185456	DOX-0150
93186115	DOX-0150

VOLKSWAGEN	DENSO
021906262C	DOX-0150
021906265A	DOX-0118
021906265AB	DOX-0118
021906265AC	DOX-0117
021906265AE	DOX-0117
021906265AG	DOX-0117
021906265AK	DOX-0117
021906265AQ	DOX-0117
021906265BD	DOX-0118
021906265C	DOX-0120
021906265N	DOX-0118
022906262AF	DOX-0150
022906262AG	DOX-0150
022906262AH	DOX-0150
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022906262BH	DOX-0150
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022906262K	DOX-0150
022906262L	DOX-0150
022906262S	DOX-0150
022906265B	DOX-0150
022906265C	DOX-0150
023906262	DOX-0150
023906265D	DOX-0118
030906262	DOX-0150
030906262A	DOX-0150
030906262C	DOX-0119
030906262F	DOX-0119
030906262L	DOX-0150
030906262N	DOX-0150
030906265	DOX-0116
030906265AA	DOX-0116
030906265AB	DOX-0116
030906265AD	DOX-0117
030906265AN	DOX-0115
030906265BH	DOX-0114
030906265C	DOX-0115
030906265CB	DOX-0114
030906265F	DOX-0116
030906265J	DOX-0115
030906265K	DOX-0116
030906265N	DOX-0115
030906265Q	DOX-0115
032906265	DOX-0117
032906265C	DOX-0117
032906265F	DOX-0117
034906265F	DOX-0115
035906265B	DOX-0125
036906262AA	DOX-0119
036906262D	DOX-0119
036906262F	DOX-0119
036906262H	DOX-0150
036906262M	DOX-0119
036906262P	DOX-0150
036906262Q	DOX-0119
036906265H	DOX-0119
037906265	DOX-0115

VOLKSWAGEN	DENSO
037906265AD	DOX-0118
037906265B	DOX-0116
037906265G	DOX-0116
03C906262	DOX-0119
03D906265	DOX-0121
03D906265A	DOX-0119
03D906265C	DOX-0121
03E906262B	DOX-0121
047906265B	DOX-0150
048906265	DOX-0116
051906265E	DOX-0125
053906265	DOX-0115
058906265B	DOX-0150
058906265C	DOX-0150
06A906262AC	DOX-0150
06A906262AG	DOX-0150
06A906262AH	DOX-0150
06A906262AJ	DOX-0150
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06A906262BS	DOX-0119
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06A906262CN	DOX-0150
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06A906265AM	DOX-0117
06A906265AP	DOX-0117
06A906265E	DOX-0117
06A906265F	DOX-0117
06A906265H	DOX-0117
06A906265M	DOX-0150
06A906265N	DOX-0150
06A906265P	DOX-0117
06B906265A	DOX-0119
06B906265B	DOX-0121
06B906265E	DOX-0119
06C906265	DOX-0150
06C906265A	DOX-0150
06C906265C	DOX-0150
06C906265L	DOX-0150
06C906265M	DOX-0150
06D906265	DOX-0150
06E906265D	DOX-0119
06E906265E	DOX-0119
06F906262AE	DOX-0150
06F906262D	DOX-0150
06F906262E	DOX-0150
06F906262P	DOX-0150
06F906262S	DOX-0150
06F906265	DOX-0150
06H906262A	DOX-0150
06J906262K	DOX-0150
077906262B	DOX-0150
077906262C	DOX-0150
077906262G	DOX-0150
077906265AA	DOX-0150
077906265AD	DOX-0150
077906265AE	DOX-0150
077906265AF	DOX-0150
077906265H	DOX-0150

Lambda Sensors

Cross Reference Chart - Universal fit

VOLKSWAGEN	DENSO
077906265J	DOX-0150
077906265K	DOX-0150
077906265L	DOX-0150
077906265R	DOX-0150
077906265T	DOX-0150
078906265AA	DOX-0150
078906265B	DOX-0115
078906265M	DOX-0150
078906265N	DOX-0150
078906265P	DOX-0150
078906265Q	DOX-0150
078906265R	DOX-0150
078906265T	DOX-0150
079906262G	DOX-0150
079906262H	DOX-0150
079906265	DOX-0150
079906265A	DOX-0150
079906265E	DOX-0150
079906265F	DOX-0150
07C906262A	DOX-0150
07C906262AE	DOX-0150
07C906262AG	DOX-0150
07C906262AH	DOX-0150
07C906262AR	DOX-0150
07C906262H	DOX-0150
07C906262J	DOX-0150
07C906262M	DOX-0150
07C906262P	DOX-0150
07C906262S	DOX-0150
07C906262T	DOX-0150
07D906262A	DOX-0150
07D906262B	DOX-0150
07D906262E	DOX-0150
07L906265F	DOX-0150
07L906265G	DOX-0150
07L906265H	DOX-0150
1K0998262	DOX-0150
1K0998262A	DOX-0150
1k0998262AB	DOX-0150
1K0998262AC	DOX-0150
1K0998262B	DOX-0150
1K0998262C	DOX-0150
1K0998262E	DOX-0150
1K0998262Q	DOX-0150
1K0998262R	DOX-0150
1K0998262S	DOX-0150
1K0998262T	DOX-0150
330906265	DOX-0118
6A906262CM	DOX-0150
6K0906262A	DOX-0119
6U0906265B	DOX-0118
6U0906265C	DOX-0117
6U0906265D	DOX-0117

VOLVO	DENSO
30622252	DOX-0109
30637016	DOX-0150
30637520	DOX-0150
30637521	DOX-0150
30637837	DOX-0150
30650109	DOX-0150
30731563	DOX-0150
30814907	DOX-0119
3474457	DOX-0115
3501753	DOX-0115
3531075	DOX-0114
3531400	DOX-0115
36022250	DOX-0114
8627202	DOX-0113
8642230	DOX-0150
8653653	DOX-0150

VOLVO	DENSO
8658090	DOX-0150
8670130	DOX-0150
8670131	DOX-0150
8677894	DOX-0150
9135621	DOX-0116
9135664	DOX-0120
9135794	DOX-0116
9186934	DOX-0150
9202719	DOX-0117
9202720	DOX-0117
9202721	DOX-0117
9470011	DOX-0150
9497345	DOX-0150
9497468	DOX-0113

Lambda Sensors

Cross Reference Chart - Direct fit to Universal fit

Direct Fit	Universal Fit
DOX-0201	DOX-0104
DOX-0202	DOX-0123
DOX-0203	DOX-0123
DOX-0204	DOX-0109
DOX-0205	DOX-0109
DOX-0206	DOX-0109
DOX-0208	DOX-0101
DOX-0210	DOX-0108
DOX-0211	DOX-0101
DOX-0212	DOX-0101
DOX-0213	DOX-0101
DOX-0214	DOX-0101
DOX-0215	DOX-0101
DOX-0216	DOX-0101
DOX-0217	DOX-0101
DOX-0219	DOX-0108
DOX-0220	DOX-0102
DOX-0221	DOX-0107
DOX-0222	DOX-0102
DOX-0223	DOX-0110
DOX-0224	DOX-0110
DOX-0225	DOX-0111
DOX-0226	DOX-0110
DOX-0227	DOX-0110
DOX-0228	DOX-0110
DOX-0229	DOX-0110
DOX-0231	DOX-0109
DOX-0232	DOX-0109
DOX-0233	DOX-0109
DOX-0236	DOX-0109
DOX-0237	DOX-0109
DOX-0238	DOX-0109
DOX-0239	DOX-0109
DOX-0240	DOX-0109
DOX-0254	DOX-0106
DOX-0255	DOX-0106
DOX-0256	DOX-0106
DOX-0257	DOX-0106
DOX-0267	DOX-0109
DOX-0269	DOX-0109
DOX-0270	DOX-0109
DOX-0271	DOX-0109
DOX-0273	DOX-0109
DOX-0274	DOX-0109
DOX-0275	DOX-0109
DOX-0276	DOX-0109
DOX-0277	DOX-0109
DOX-0278	DOX-0109
DOX-0279	DOX-0109
DOX-0280	DOX-0109
DOX-0282	DOX-0109
DOX-0283	DOX-0109
DOX-0284	DOX-0109
DOX-0285	DOX-0109
DOX-0287	DOX-0109
DOX-0288	DOX-0109
DOX-0289	DOX-0106
DOX-0291	DOX-0109
DOX-0300	DOX-0125
DOX-0301	DOX-0114
DOX-0311	DOX-0109
DOX-0312	DOX-0109
DOX-0313	DOX-0113
DOX-0314	DOX-0109
DOX-0315	DOX-0113
DOX-0316	DOX-0113
DOX-0317	DOX-0109
DOX-0318	DOX-0109
DOX-0319	DOX-0109
DOX-0320	DOX-0109
DOX-0321	DOX-0109

Direct Fit	Universal Fit
DOX-0322	DOX-0113
DOX-0323	DOX-0113
DOX-0324	DOX-0109
DOX-0325	DOX-0113
DOX-0326	DOX-0109
DOX-0327	DOX-0109
DOX-0328	DOX-0109
DOX-0329	DOX-0109
DOX-0330	DOX-0109
DOX-0331	DOX-0113
DOX-0332	DOX-0109
DOX-0333	DOX-0113
DOX-0334	DOX-0109
DOX-0335	DOX-0113
DOX-0336	DOX-0109
DOX-0337	DOX-0109
DOX-0340	DOX-0113
DOX-0341	DOX-0109
DOX-0342	DOX-0109
DOX-0343	DOX-0113
DOX-0344	DOX-0109
DOX-0345	DOX-0109
DOX-0346	DOX-0113
DOX-0347	DOX-0113
DOX-0349	DOX-0113
DOX-0350	DOX-0109
DOX-0351	DOX-0113
DOX-0352	DOX-0109
DOX-0353	DOX-0113
DOX-0354	DOX-0113
DOX-0357	DOX-0113
DOX-0400	DOX-0109
DOX-0402	DOX-0109
DOX-0403	DOX-0109
DOX-0404	DOX-0109
DOX-0406	DOX-0109
DOX-0411	DOX-0109
DOX-0416	DOX-0109
DOX-0422	DOX-0113
DOX-1000	DOX-0125
DOX-1003	DOX-0125
DOX-1004	DOX-0125
DOX-1005	DOX-0125
DOX-1006	DOX-0125
DOX-1008	DOX-0125
DOX-1016	DOX-0123
DOX-1023	DOX-0116
DOX-1024	DOX-0116
DOX-1025	DOX-0116
DOX-1031	DOX-0116
DOX-1053	DOX-0119
DOX-1055	DOX-0119
DOX-1056	DOX-0119
DOX-1060	DOX-0119
DOX-1061	DOX-0119
DOX-1063	DOX-0119
DOX-1064	DOX-0119
DOX-1068	DOX-0109
DOX-1070	DOX-0109
DOX-1076	DOX-0119
DOX-1077	DOX-0119
DOX-1087	DOX-0121
DOX-1093	DOX-0114
DOX-1097	DOX-0117
DOX-1098	DOX-0117
DOX-1099	DOX-0117
DOX-1100	DOX-0117
DOX-1102	DOX-0118
DOX-1103	DOX-0117
DOX-1104	DOX-0117
DOX-1105	DOX-0117

Direct Fit	Universal Fit
DOX-1108	DOX-0109
DOX-1157	DOX-0119
DOX-1160	DOX-0109
DOX-1161	DOX-0109
DOX-1163	DOX-0109
DOX-1167	DOX-0109
DOX-1168	DOX-0109
DOX-1169	DOX-0109
DOX-1170	DOX-0109
DOX-1171	DOX-0117
DOX-1172	DOX-0118
DOX-1173	DOX-0117
DOX-1174	DOX-0117
DOX-1175	DOX-0117
DOX-1176	DOX-0117
DOX-1177	DOX-0117
DOX-1183	DOX-0120
DOX-1196	DOX-0113
DOX-1310	DOX-0125
DOX-1311	DOX-0116
DOX-1314	DOX-0114
DOX-1317	DOX-0118
DOX-1318	DOX-0118
DOX-1319	DOX-0118
DOX-1350	DOX-0116
DOX-1351	DOX-0115
DOX-1352	DOX-0116
DOX-1353	DOX-0114
DOX-1354	DOX-0119
DOX-1355	DOX-0119
DOX-1356	DOX-0119
DOX-1357	DOX-0119
DOX-1358	DOX-0121
DOX-1359	DOX-0114
DOX-1360	DOX-0117
DOX-1361	DOX-0119
DOX-1362	DOX-0117
DOX-1363	DOX-0117
DOX-1364	DOX-0118
DOX-1365	DOX-0117
DOX-1366	DOX-0120
DOX-1367	DOX-0120
DOX-1369	DOX-0118
DOX-1370	DOX-0119
DOX-1371	DOX-0119
DOX-1372	DOX-0121
DOX-1373	DOX-0116
DOX-1374	DOX-0121
DOX-1375	DOX-0119
DOX-1376	DOX-0116
DOX-1377	DOX-0116
DOX-1378	DOX-0115
DOX-1379	DOX-0115
DOX-1380	DOX-0119
DOX-1381	DOX-0115
DOX-1400	DOX-0109
DOX-1401	DOX-0109
DOX-1403	DOX-0109
DOX-1404	DOX-0125
DOX-1405	DOX-0125
DOX-1406	DOX-0109
DOX-1407	DOX-0125
DOX-1408	DOX-0109
DOX-1409	DOX-0109
DOX-1410	DOX-0109
DOX-1411	DOX-0125
DOX-1412	DOX-0109
DOX-1413	DOX-0109
DOX-1416	DOX-0113
DOX-1420	DOX-0113
DOX-1430	DOX-0125

Direct Fit	Universal Fit
DOX-1431	DOX-0125
DOX-1432	DOX-0123
DOX-1433	DOX-0123
DOX-1434	DOX-0123
DOX-1435	DOX-0109
DOX-1436	DOX-0109
DOX-1437	DOX-0109
DOX-1438	DOX-0109
DOX-1439	DOX-0109
DOX-1440	DOX-0109
DOX-1441	DOX-0109
DOX-1442	DOX-0109
DOX-1444	DOX-0109
DOX-1450	DOX-0109
DOX-1451	DOX-0109
DOX-1453	DOX-0113
DOX-1455	DOX-0109
DOX-1456	DOX-0109
DOX-1459	DOX-0109
DOX-1500	DOX-0115
DOX-1501	DOX-0116
DOX-1502	DOX-0116
DOX-1503	DOX-0116
DOX-1504	DOX-0125
DOX-1506	DOX-0118
DOX-1534	DOX-0121
DOX-1535	DOX-0120
DOX-1536	DOX-0120
DOX-1537	DOX-0104
DOX-1538	DOX-0119
DOX-1539	DOX-0119
DOX-1541	DOX-0121
DOX-1542	DOX-0121
DOX-1543	DOX-0121
DOX-1544	DOX-0120
DOX-1545	DOX-0120
DOX-1546	DOX-0114
DOX-1547	DOX-0119
DOX-1548	DOX-0119
DOX-1549	DOX-0119
DOX-1551	DOX-0117
DOX-1552	DOX-0117
DOX-1553	DOX-0117
DOX-1556	DOX-0123
DOX-1559	DOX-0119
DOX-1560	DOX-0119
DOX-1561	DOX-0117
DOX-1562	DOX-0119
DOX-1564	DOX-0119
DOX-1565	DOX-0119
DOX-1566	DOX-0119
DOX-1567	DOX-0119
DOX-1568	DOX-0119
DOX-1569	DOX-0119
DOX-1572	DOX-0114
DOX-1573	DOX-0114
DOX-1574	DOX-0114
DOX-1575	DOX-0114
DOX-1576	DOX-0114
DOX-1586	DOX-0121
DOX-1588	DOX-0121
DOX-1589	DOX-0121
DOX-1593	DOX-0115
DOX-1594	DOX-0115
DOX-1598	DOX-0114
DOX-1599	DOX-0119
DOX-1612	DOX-0117
DOX-1613	DOX-0117
DOX-1615	DOX-0117
DOX-1616	DOX-0117
DOX-1617	DOX-0109

Lambda Sensors

Cross Reference Chart - Direct fit to Universal fit

Direct Fit	Universal Fit
DOX-1618	DOX-0109
DOX-2000	DOX-0150
DOX-2001	DOX-0150
DOX-2002	DOX-0150
DOX-2003	DOX-0150
DOX-2004	DOX-0150
DOX-2005	DOX-0150
DOX-2006	DOX-0150
DOX-2007	DOX-0150
DOX-2008	DOX-0150
DOX-2009	DOX-0150
DOX-2010	DOX-0150
DOX-2011	DOX-0150
DOX-2012	DOX-0150
DOX-2013	DOX-0150
DOX-2014	DOX-0150
DOX-2015	DOX-0150
DOX-2016	DOX-0150
DOX-2017	DOX-0150
DOX-2018	DOX-0150
DOX-2020	DOX-0150
DOX-2021	DOX-0150
DOX-2022	DOX-0150
DOX-2023	DOX-0150
DOX-2024	DOX-0150
DOX-2025	DOX-0150
DOX-2026	DOX-0150
DOX-2027	DOX-0150
DOX-2028	DOX-0150
DOX-2030	DOX-0150
DOX-2031	DOX-0150
DOX-2033	DOX-0150
DOX-2034	DOX-0150
DOX-2035	DOX-0150
DOX-2036	DOX-0150
DOX-2037	DOX-0150
DOX-2038	DOX-0150
DOX-2039	DOX-0150
DOX-2040	DOX-0150
DOX-2041	DOX-0150
DOX-2042	DOX-0150
DOX-2044	DOX-0150
DOX-2045	DOX-0150
DOX-2046	DOX-0150
DOX-2047	DOX-0150
DOX-2048	DOX-0150
DOX-2049	DOX-0150
DOX-2050	DOX-0150
DOX-2051	DOX-0150
DOX-2052	DOX-0150
DOX-2053	DOX-0150
DOX-2054	DOX-0150
DOX-2055	DOX-0150
DOX-2056	DOX-0150

GB

Disclaimer

In order to find the right lambda sensor for your application, please refer to the original part number (OEM) on the part and find the corresponding DENSO p/n in the cross reference table. In case, you do not have the original part number (OEM) then it is best to find the right lambda sensor for the application in the application tables.

The recommendations in this catalogue are based on the latest information from manufacturers for operating under standard conditions. We do not accept any responsibility of legal claims arising out of the contents of this list. The lambda sensors listed in this catalogue can be used in vehicles which we recommend in this catalogue. Recognizable mistakes, such as printing errors, are subject to careful scrutiny by the user.

In the event of any damage which is solely and directly attributable to a manufacturing defect in a DENSO lambda sensor, DENSO will pay the cost of repair to a condition equivalent to that existing before the failure. This does not include breakdown or damage caused by improper installation, disassembly, reconstruction, repair, usage or modification of the lambda sensors as well as breakdown or damage caused by other products or parts.

D

Haftungsausschluss

Um die richtige Lambdasonde für die gewünschte Anwendung zu finden, die Originalteilnummer (OEM) am Teil prüfen und die korrespondierende DENSO-Teilnummer der Querverweistabelle entnehmen. Falls die Originalteilnummer (OEM) nicht bekannt ist, ist es am besten, die für die jeweilige Anwendung richtige Lambdasonde den Anwendungstabellen zu entnehmen.

Die Empfehlungen in diesem Katalog basieren auf den aktuellen Herstellerinformationen für den Betrieb unter normalen Bedingungen. Wir übernehmen keine Haftung für rechtliche Ansprüche, die auf den Inhalt dieses Katalogs zurückzuführen sind. Die im vorliegenden Katalog aufgeführten Lambdasonden können in Fahrzeugen verwendet werden, die in diesem Katalog empfohlen werden. Erkennbare Fehler, wie Druckfehler, unterliegen der kritischen Prüfung durch den Benutzer.

Für Schäden, die eindeutig einem Fertigungsfehler an einer DENSO-Lambdasonde zuzuordnen sind, wird DENSO die Kosten der Reparatur übernehmen, um einen vergleichbaren Zustand herzustellen, wie er vor dem Ausfall war. Davon ausgeschlossen sind Ausfälle oder Schäden aufgrund fehlerhaften Einbaus, Ausbaus, Umbaus, unsachgemäßer Reparatur, Nutzung oder Modifizierung der Lambdasonden sowie Ausfälle oder Schäden, die durch andere Produkte oder Teile verursacht werden

F

Exclusion de responsabilité

De manière à trouver la sonde lambda approprié à votre application, veuillez vous reporter au numéro de référence du constructeur d'origine (OEM) se trouvant sur la pièce et recherchez le numéro de référence DENSO correspondant dans la table de renvois. Au cas où le numéro de référence du constructeur d'origine (OEM) vous serait inconnu, la meilleure option est de rechercher la sonde lambda approprié à l'application dans les tableaux d'applications.

Les recommandations figurant dans ce catalogue sont basées sur les informations les plus récentes, émanant de fabricants, relatives à une opération dans des conditions normales. Nous n'acceptons aucune responsabilité pour les réclamations légales découlant du contenu de cette liste. Les sondes lambda répertoriés dans ce catalogue peuvent être utilisés sur les véhicules que nous recommandons dans ce catalogue. Les erreurs reconnaissables, telles que les erreurs d'impression, relèvent d'un examen minutieux par l'utilisateur.

En cas de dommage uniquement et directement imputable à un défaut de fabrication affectant une sonde lambda DENSO, DENSO assumera le coût de la réparation à une condition équivalente à celle existant avant la défaillance. Ceci n'inclut pas une panne ou un dommage causé par une installation incorrecte, un démontage, une reconstruction, une réparation, un usage ou une modification des sondes lambda ainsi qu'une panne ou un dommage causé par d'autres produits ou pièces.

E

Exención de responsabilidades

Para encontrar el sensor lambda adecuado para su aplicación, remítase al número de pieza de recambio original (OEM) y busque el número de recambio DENSO correspondiente en la tabla de referencias cruzadas. En caso de no tener el número de la pieza original (OEM) lo mejor es buscar el sensor lambda adecuado para la aplicación en las tablas de aplicaciones.

Las recomendaciones incluidas en este catálogo se basan en la última información facilitada por los fabricantes para el funcionamiento en condiciones normales. En ningún caso seremos responsables de cualesquiera reclamaciones legales originadas por el contenido de esta lista. Los sensores lambda que figuran en la lista pueden utilizarse en los vehículos que recomendamos en este catálogo. Los errores fácilmente reconocibles, como los errores de imprenta, están sujetos a un examen riguroso por parte del usuario.

En caso de cualesquiera daños imputables exclusiva y directamente a un defecto de fabricación en un sensor lambda, DENSO pagará el coste de la reparación a una condición equivalente a la existente antes del fallo.
Esta garantía excluye cualesquiera averías o daños ocasionados por una instalación incorrecta, desmontaje, reconstrucción, reparación, modificación o uso indebido de los sensores lambda así como por cualesquiera averías o daños ocasionados por otros productos o piezas.

I

Dichiarazione di non responsabilità

Per una corretta identificazione della sonda per ogni specifica applicazione fare riferimento al codice originale (OEM) del prodotto e cercare il codice DENSO corrispondente nella tabella di riferimento.
Se il codice originale (OEM) non fosse disponibile, per cercare la sonda lambda corretta per ogni specifico veicolo si possono utilizzare le tabelle delle applicazioni.

Le raccomandazioni in questo catalogo sono basate sulle ultime informazioni dei costruttori per il funzionamento in condizioni normali. DENSO non accetta alcuna responsabilità per eventuali azioni legali che potrebbero essere basate sul contenuto di questa lista. Le sonde lambda elencate in questo catalogo possono essere installate nei veicoli raccomandati nel catalogo stesso. L'utente dovrà sottoporre il documento a un attento esame per verificare eventuali inesattezze riconoscibili, come ad esempio gli errori di stampa.

In caso di danni attribuibili chiaramente ed esclusivamente a un difetto di costruzione di un sensore o sonda lambda, DENSO si farà carico dei costi di riparazione necessari a riportare il sistema nelle condizioni in cui si trovava prima del guasto. La responsabilità di DENSO non include i guasti o i danni causati da impropria installazione, smontaggio, ricostruzione, riparazione, utilizzo o modifica dei sensori o delle sonde lambda oltre ai guasti o ai danni eventualmente causati da altri prodotti o componenti.

SE

Friskrivningsklausul

Utgå från originalartikelnumret (OEM) på komponenten och sök motsvarande DENSO-artikelnummer i korsreferenstabellen så hittar du rätt komponent till ditt fordon. Om du inte har originalartikelnumret (OEM) är bästa sättet att hitta rätt lambdasond att söka i fordonsmodelltabellerna.

Rekommendationerna i katalogen grundas på den senaste informationen från tillverkarna och gäller användning under normala betingelser.
Vi frånsäger oss allt ansvar för krav som kan uppkomma utifrån innehållet i listan. Lambdasonderna i listan i katalogen kan användas i de fordon som vi rekommenderar i katalogen. Eventuella felaktigheter som upptäcks, t.ex. tryckfel, måste granskas noggrant av läsaren.

I händelse av skador som direkt kan hänföras till tillverkningsfel hos en DENSO lambdasond, så betalar DENSO för en reparation som återställer fordonet till samma skick som innan felet uppstod. Det gäller ej fel och skador orsakade av felaktig montering, isärtagning, sammansättning, reparation, användning eller ombyggnad av lambdasonden, eller fel orsakade av andra produkter eller komponenter.

PL

Zrzeczenie się odpowiedzialności

Aby dobrać właściwą sondę lambda do danego modelu samochodu, prosimy odczytać numer oryginalnej części (OEM) umieszczony na niej i odnaleźć odpowiadający jej numer części DENSO w tabeli zamienników znajdujących się w katalogu.
W przypadku, jeżeli nie posiadacie Państwo numeru oryginalnej częśći (OEM) wtedy najlepszym sposobem na dobranie właściwej sondy lambda jest odszukanie według zastosowań w katalogu.

Zalecenia podane w katalogu są oparte na najnowszych informacjach od producentów dotyczących pracy w standardowych warunkach. Nie bierzemy żadnej odpowiedzialności za roszczenia prawne wynikające z zawartości tej listy. Sondy lambda wymienione w katalogu mogą zostać wykorzystane w samochodach, które rekomendujemy w katalogu. Wyraźne pomyłki, takie jak pomyłki drukarskie, powinny zostać wychwycone przez użytkownika.

W przypadku uszkodzenia, które przypisane może zostać wyłącznie i bezpośrednio wadzie produkcyjnej sondy lambda firmy DENSO, DENSO pokryje koszty naprawy przywracającej stan istniejący przed powstaniem tej usterki. Nie obejmuje to awarii ani szkód spowodowanych nieprawidłowym montażem, demontażem, rekonstrukcją, naprawą czy modyfikacją sondy lambda ani uszkodzeń spowodowanych przez inne produkty czy części.

RU

Условия п редоставления информации

Чтобы выбрать правильный лямбда-зонд для Вашего автомобиля, найдите указанный на запчасти оригинальный номер завода-изготовителя и соответсвующий номер DENSO в таблице перекрестных ссылок. Если Вы не нашли оригинальный номер, Вам следует искать нужный лямбда-зонд в таблице применяемости.

Рекомендации данного каталога основаны на последней информации от производителя для работы в стандартных условиях. Мы не несем ответственности по претензиям, возникшим в связи с содержанием каталога. Указанные в каталоге лямбда-зонды могут быть использованы в автомобилях, рекомендованных нашим каталогом. Пользователю следует обращать внимание на распознаваемые ошибки, такие как ошибки печати.

В случае повреждения, которое прямо и однозначно можно отнести к дефектам производственного характера в лямбда-зондах DENSO, компания DENSO возьмет на себя затраты по восстановлению до состояния, имевшегося до повреждения. К таким случаям не относятся поломка или повреждения,связанные с неправильной установкой, демонтажом, реконструированием, ремонтом, эксплуатацией или модификацией лямбда-зондов, так же, как и повреждения, вызванные другими продуктами или деталями.

Lambda Sensors | Abbreviations

	GB	DE	FR	ES	IT	SE	PL	RU
	Vehicle, Make, Model, Engine Capacity	Fahrzeug, Marke, Modell, Hubraum	Véhicule, Marque, Modèle, Cylindrée	Vehículo, Marca, modelo, cilindrada del motor	Veicolo, Marca, Modello, Cilindrata	Fordon, märke, modell motorvolym	Pojazd, marka, model, pojemność silnika	Автомобиль, марка, модель, литраж двигателя
	Fuel	Kraftstoff	Carburant	Combustible	Alimentazione	Bränsle	Paliwo	Топливо
kW/HP	Engine Power	Motorleistung	Puissance du moteur	Potencia del motor	Potenza motore	Motoreffekt	Moc silnika	Мощность двигателя
	Engine Code	Motorcode	Code du moteur	Código del motor	Numero motore	Motorkod	Kod silnika	Код двигателя
	Transmission	Getriebe	Transmission	Transmisión	Trasmissione	Transmission	Skrzynia biegów	Коробка передач
	Year (from - to)	Jahr (von – bis)	Année (de - à)	Año (de – a)	Anno (da - a)	Årsmodell (från - till)	Rok (od - do)	Год (с - до)
	Additional information	Zusätzliche Information	Informations complémentaires	Información adicional	Informazioni aggiuntive	Ytterligare information	Informacje dodatkowe	Дополнительная информация
Direct Fit	Direct Fit	Direkteinbau	Montage facile	Ajuste directo	Direct fit	Direktmontering	Sonda dedykowana	Прямая замена
Universal	Universal	Universal	Universel	Universal	Universale	Universell	Sonda uniwersalna	Универсальный
L	Left	Links	Gauche	Izquierda (Izq.)	S	Vänster	Lewy	Левый
R	Right	Rechts	Droite	Derecha (Der.)	D	Höger	Prawy	Правый
Before	In front of catalyst	Vor Katalysator	Avant le catalyseur	Delante	Davanti	Framför katalysator	Przed katalizatorem	До катализатора
After	After catalyst	Nach Katalysator	Après le catalyseur	Después	Dietro	Efter katalysator	Za katalizatorem	После катализатора
M	Manual transmission	Schaltgetriebe	Boîte de vitesses manuelle	Manual	M	Manuell transmission	Manualna skrzynia biegów	МКПП
A	Automatic transmission	Automatikgetriebe	Boîte de vitesses automatique	Automática	A	Automatisk transmission	Automatyczna skrzynia biegów	АКПП
Petrol	Petrol	Benzin	Essence	Gasolina	B	Bensin	Benzyna	Бензин
Diesel	Diesel	Diesel	Diesel	Diesel	D	Diesel	Diesel	Дизель
Hybrid	Hybrid	Hybrid	Hybride	Híbrido	I	Hybrid	Hybryda	Гибрид

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