



Installation Instructions for Universal Oxygen Sensor/Lambda Sensor

Installation must only be carried out by trained personnel!

Please read these instructions carefully before removing the Lambda Sensor from your vehicle.

Tools required

- Removal tool for Lambda Sensors or a fork spanner
- Side cutter
- Wire stripper
- Measuring tape
- Heat gun or equivalent tool

Equipment supplied with the universal Lambda Sensor:

- Universal Lambda Sensor
- Heat shrinkable tube
- Rubber seal
- Butt connector

Installing the sensor(see illustrations)

Step1

Disconnect the Old Sensor at the multiplug connection to the vehicle harness (do not cut the wires). Then, using an appropriate socket or tool, remove the Old Sensor from the vehicle. At this stage check both the vehicle harness and old sensor multiplug connectors for damage or corrosion as a fault here can affect the sensor's performance.

Step2

Place the Old Sensor next to the Universal Sensor. Measuring from the hex/flange, ensure that the New Sensor is at least 40mm shorter than the Old Sensor. If the Universal Sensor is longer, it is recommended that you cut its leads such that its length is 40mm shorter than the Old Sensor.

Step3

Cut the lead wires of the Universal Sensor so that each lead wire is 40mm successively shorter than the previous one.

Step4

Cut the Old Sensor lead wires in the same fashion.

Step5

Place one heat shrinkable tube, over each lead wire of the Universal Sensor or over each lead wire of the Old Sensor's connector.

Step6

Place one rubber seal over every lead wire, with the corrugated end of the seal facing the cut end of the lead wire.

Step7

Using an appropriate tool (wire stripper recommended), strip 8mm of insulation from the cut ends of all lead wires. Then using an appropriate crimping tool, crimp the butt connectors onto the Universal Sensor lead wires. Ensure that no bare wire is exposed and that the crimp is secure.

Step8

Use the following table to assign the cable colors of the original Lambda Sensor (column A) to the cable colors of the universal Lambda Sensor (column B). Important! The cable colors must be assigned correctly. Otherwise, the Sensor could be destroyed.

Step9

Push the rubber seals firmly against the butt connector. Move the heat shrinkable tube over the centre of the butt connector. The tube must be shrunk in this position.

Step10

Carefully shrink the heat shrinkable tube completely, using a heat gun or equivalent. The rubber wire seals must remain inside the heat shrinkable tube to ensure a waterproof connection.

Step11

Remove the protector cap from the Universal Sensor, and install the sensor.

Important! The cable colors must be assigned correctly. Otherwise, the Sensor could be destroyed.

A (Original Sensor)					B
	Sensor type 1	Sensor type 2	Sensor type 3	Sensor type 4	Universal Lambda Sensor
Sensor signal (plus)	black	purple	blue	white	black
Heater (2 cables) ¹⁾	white	dark brown	black	black	2 × white
Ground cable (minus, optional)	grey	bright brown	white	green	grey

¹⁾Heater cables can be connected to either polarity.