

Universal Oxygen Sensor Installation Instructions



Step 1

Installation must only be carried out by trained personnel

Please read these instructions carefully before removing the Oxygen sensor from your vehicle

Tools required

Removal tool for Oxygen Sensors or a 22mm open ended spanner
Side cutter
Cable stripper
Measuring tape

Equipment supplied with the Bosch Universal Oxygen Sensor

1 Bosch universal Oxygen Sensor
1 Posi-lock connector
4 Grey cable connectors
8 Yellow cable seals
2 Cable fasteners

Important preliminary instructions

Make a note of how the cable of your vehicle's Oxygen Sensor is laid. The cable of the Universal Oxygen Sensor must be attached in the same way.

After removing the Oxygen Sensor, take care not to cut the cable too short. Part of this cable will be required as an extension for the Universal Oxygen Sensor to keep it in a strain free state during installation

Important: Under no circumstances, must the cable be soldered!

The maximum torque of 50 Nm must not be exceeded when screwing in the Oxygen Sensor.

Installing the Sensor [see illustrations]

Step 1

Remove the Oxygen Sensor from the exhaust system of your vehicle. Take care not to damage the cable fixtures as they will be used again later.

Step 2

After removing the Oxygen Sensor, measure the length of the cable from the hexagon to the end of the plug [fig. 2]. If any special fixtures are attached to the cable, proceed to step 3. If there are no special fixtures on the cable and if

- a) the cable is shorter than 75 cm, proceed to step 4
- b) the cable is longer than 75 cm, proceed to step 5

Step 3 (cable with fixtures)

Cut through the cable of the original Sensor at least 13 cm and no more than 60 cm from cable outlet on the Sensor. Leave all cable fixtures on the original cable.

Place the Universal Oxygen Sensor beside the original Sensor. Shorten the cable of the Universal Oxygen Sensor until it is the same length as the cable of the original sensor.

Proceed to step 6

Step 4 (cable shorter than 75 cm)

Cut the cable of the original Sensor in two around 10 cm from the connecting plug. Place the Universal Oxygen Sensor beside the original. Shorten the cable of the Universal Oxygen Sensor until it is the same length as the cable of the original Sensor

Proceed to step 6



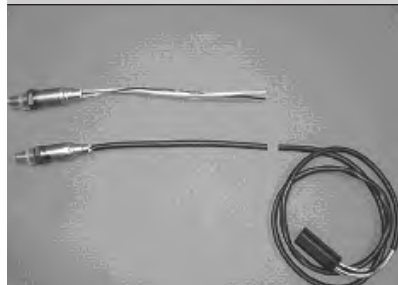
Step 2



Step 3



Step 4



Step 5



Step 6

**Step 5** (cable longer than 75 cm)

Place the Universal Oxygen Sensor beside the original Sensor. Cut the cable of the original sensor in two until it is as long as the cable from the Universal Oxygen Sensor (fig. 5) Remove the cable fastener on the Universal Oxygen Sensor. - Proceed to step 6

Step 6

Using installation pliers , remove approx. 1 cm (important!) of the cable insulation (fig. 6) from all cable ends, taking care not to damage any wires.

Step 7

Cable colour allocations for the Universal Oxygen Sensor are as follows, sensor output signal wire = black, sensor heater element cables = White (Note - heater is not polarity sensitive) Sensor signal ground (where used) = Grey

Important: The cable allocations must be assigned correctly. Otherwise the Sensor could be destroyed . Put the large plug housing over the cable from the Universal Oxygen Sensor and the small plug cover over the cable from the original Oxygen Sensor (fig. 7).

Step 8

Put the yellow seals over each cable end in such a way that the narrow end of the seals points to the rear of the plug housing (fig. 8)

Step 9

Insert the insulated cable ends from the Universal Oxygen Sensor into the grey cable connectors. Screw the centre pieces of the cable connectors together (fig. 9) ensure the leads are fitted tightly inside the cable connectors.

Step 10

Connect the Sensor to the cable harness in the vehicle (fig. 10) Check again that the cables are correctly assigned as in step 7 above

Note: Cables must not be knotted. Pull the cable connections into the plug housing . Check that the tension is correct.

Step 11

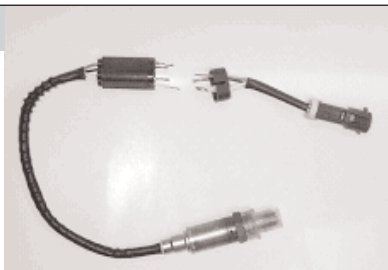
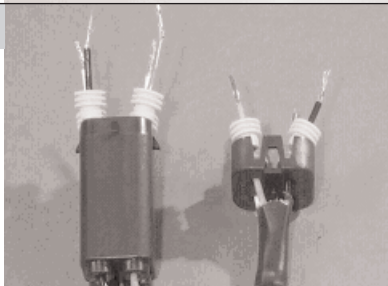
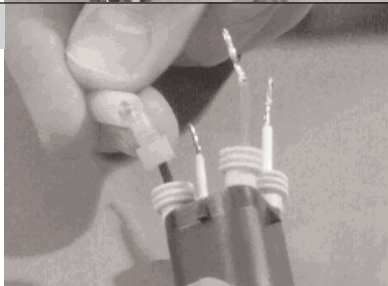
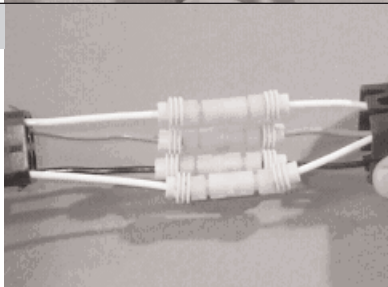
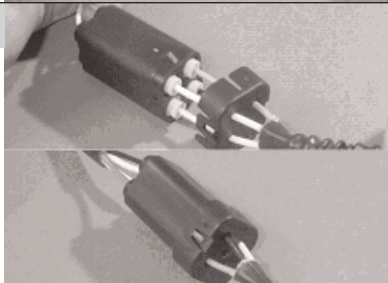
Insert the cable connectors into the plug housing. Press the plug cover onto the plug housing until it can be heard locking in place. (fig. 11)

Step 12

Install the Universal Oxygen Sensor into the vehicle (fig 12).

Secure the cable so that it is safe from extreme heat and scuffing .

Use the cable fixtures from the original Sensor. If necessary, use the cable fasteners so that the plug housing is free from strain and does not vibrate. This ensures that the cable will not wear when the engine is in motion.

Step 7**Step 8****Step 9****Step 10****Step 11****Step 12**