



Oxygen Sensor Removal & Installation Instructions

Universal 1 & 2 Wire Applications

These are recommended steps to follow when removing and installing oxygen sensors. Refer to the factory service manual for specific instructions for your vehicle.

Definition of Terms

- ⚠ **WARNING:** Describes precautions that should be observed in order to prevent injury or death to the user during installation.
- ⚠ **CAUTION:** Describes precautions that should be observed in order to prevent damage to the vehicle or its components, which may occur during installation if sufficient care is not taken.
- NOTE:** Provides additional information that facilitates installation work.

Removal Instructions

1. Exhaust system should be at ambient temperature.
2. Disconnect the oxygen sensor wire at the vehicle wire harness. Note the routing of the oxygen sensor wire.
3. Remove the oxygen sensor with the appropriate tool(s). (Ratchet & socket or wrench)
4. Check the threads on the exhaust manifold/pipe to make sure they are not damaged. If necessary, use the correct size tap to clean and repair the threads.
5. Compare the original and the new oxygen sensor(s) for the correct thread size, connector, number of wires and overall length.
6. With the two sensors laid out side by side, cut off the original sensor so overall length will be 1"-2" longer than before. (See Fig. 1) This will allow connections to be made at evenly spaced intervals so the heat shrink tube can fit over the butt connections and the finished overall length to match the original.

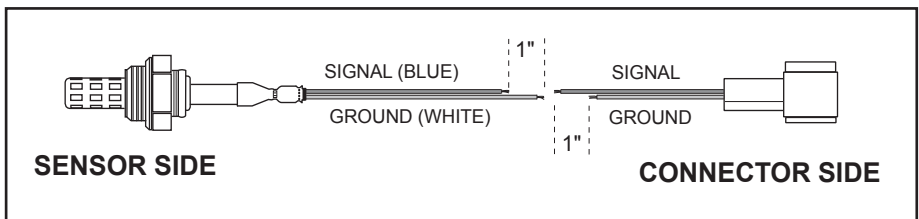


Fig. 1

⚠CAUTION: Refer to the appropriate connector illustration for wiring connections specific to your vehicle. If in doubt, use the factory service manual to prevent improper connections which may damage the vehicle ECU.

7. **(1-wire sensor)** Strip 1/4" of insulation from both the new sensor wire and from the wire still attached to the original connector.

(2-wire sensor) Trim blue signal wire (DENSO sensor side) approximately 1" back, then strip 1/4" of insulation from the wire and its corresponding wire (connector side). Trim the other connector side wire back approximately 1", then strip 1/4" of insulation from the wire and its corresponding white ground wire (DENSO sensor side).

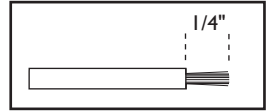


Fig. 2

8. Slide the heat shrink tube over the sensor wire(s).
9. **(1-wire)** Insert the stripped wire ends into butt connector and crimp with a suitable crimping tool.
(2-wire) Insert corresponding stripped wire ends into butt connectors and crimp with suitable crimping tool.
10. Center heat shrink tube over butt connector(s) and apply heat to seal the connection so water cannot enter. (See Fig. 3)

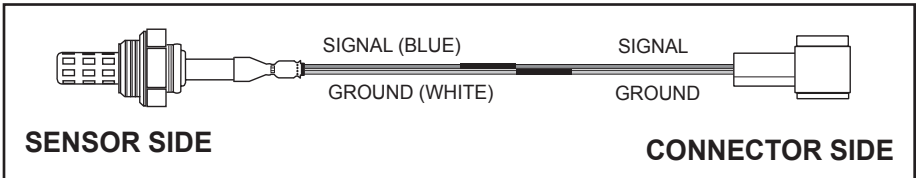


Fig. 3

Installation Instructions

⚠CAUTION: Oxygen sensors are fragile and must be handled with care; do not drop. Avoid exposing the sensor to RTV silicone based products.

1. Before installation, apply anti-seize compound to the threads of the new oxygen sensor. (Disregard for flange type sensor.)

⚠WARNING: Anti-seize compound may cause irritation to the skin or eyes. In case of contact, wash affected area with soap and water. In case of eye contact, flush with water for 15 minutes. If irritation persists, consult a physician. If swallowed, do not induce vomiting.

Keep out of reach of children.

2. Install the new oxygen sensor by hand, making sure it is not cross-threaded, and then torque to manufacturer's specifications. (For flange type sensor, use new gasket included with sensor.)
3. Route the new oxygen sensor wire along the original route to the vehicle wire harness and plug it in.

⚠CAUTION: Keep the oxygen sensor wire away from any hot surfaces/moving parts.

GM 2-wire

(Weatherpack Connector)

GM de 2 cables (Conector "Weatherpack")

2 fils pour GM (connecteur Weatherpack)

OE: Signal Black
or Purple

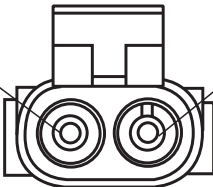
OE: Señal Negro
o Púrpura

OE : signal noir
ou violet

Universal: Blue

Universal: Azul

Universel : bleu



OE: Ground Tan

OE: Tierra Canela

OE : masse en brun

Universal: White

Universal: Blanco

Universel : blanc