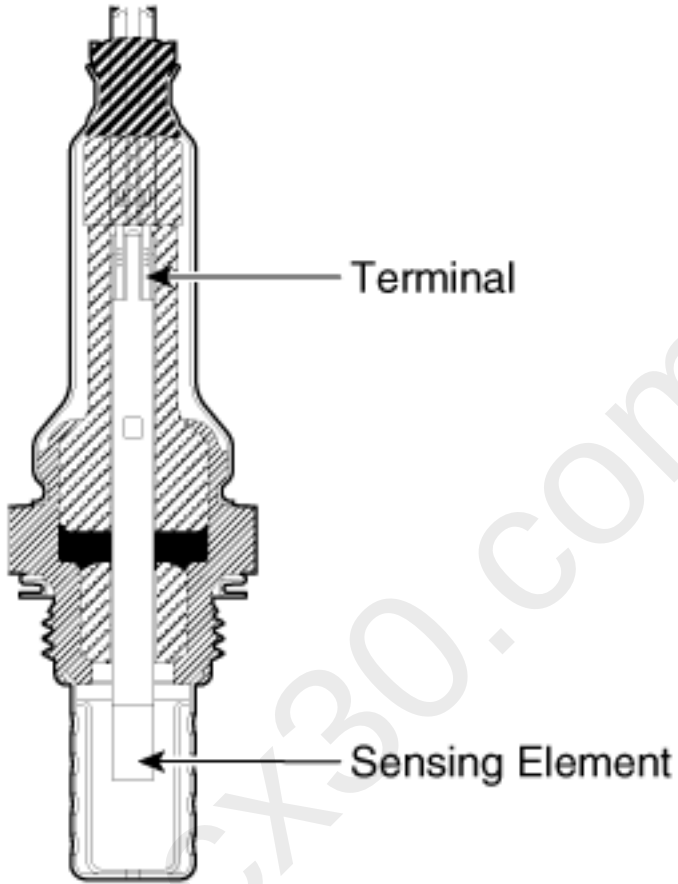


Description

Heated Oxygen Sensor (HO2S) consists of the zirconium and the alumina and is installed on upstream and downstream of the Manifold Catalyst Converter (MCC).

In order that this sensor normally operates, the temperature of the sensor tip is higher than 370°C (698° F). So it has a heater which is controlled by the ECM duty signal.

When the exhaust gas temperature is lower than the specified value, the heater warms the sensor tip.



Specification

[Bank 1 / Sensor 1]

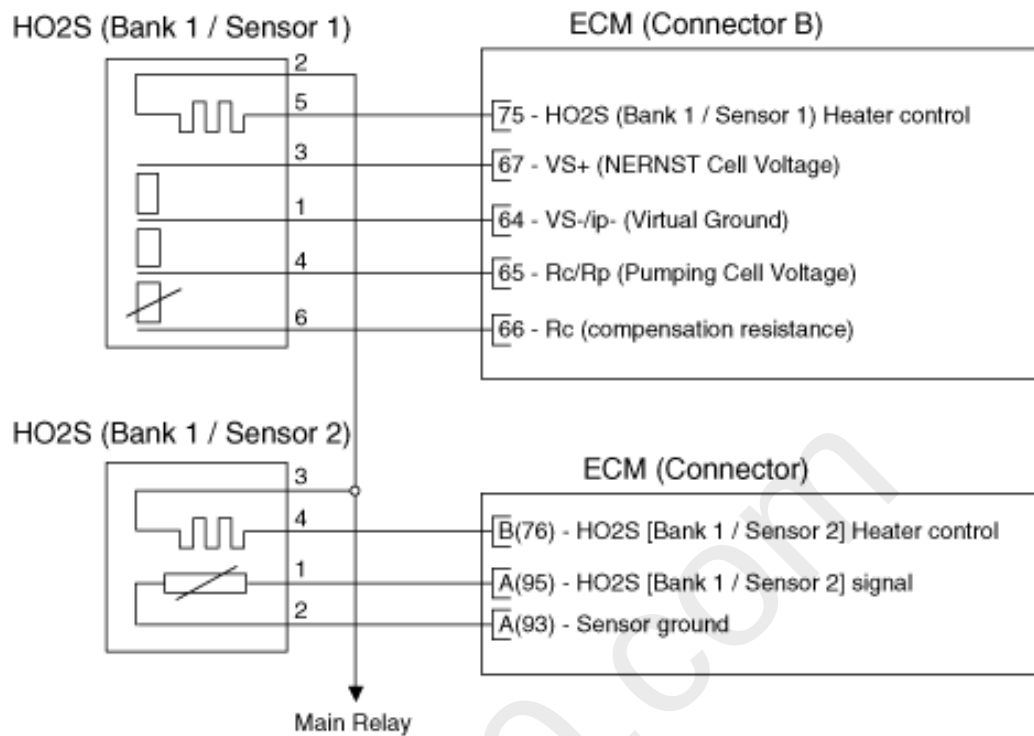
Item	Specification
Heater Resistance (Ω)	Approx. 2.5 [20°C (68°F)]

[Bank 1 / Sensor 2]

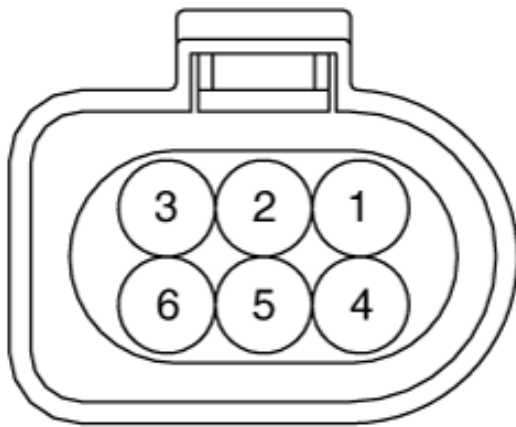
Item	Specification
Heater Resistance (Ω)	Approx. 3.0 [20°C (68°F)]

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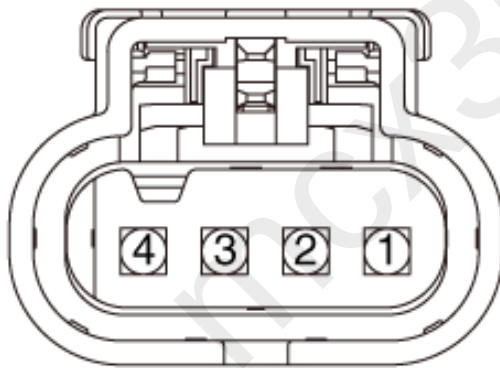
Circuit
Diagram



Harness Connector
HO2S [Bank 1 / Sensor 1]



HO2S [Bank 1 / Sensor 2]



Inspection

1. Turn the ignition switch OFF.
2. Disconnect the HO2S connector.
3. Measure resistance between HO2S heater terminals 2 and 5. [B1 / S1]
Measure resistance between HO2S heater terminals 3 and 4. [B1 / S2]
4. Check that the resistance is within the specification.

[Bank 1 / Sensor 1]

Item	Specification
Heater Resistance (Ω)	Approx. 2.5 [20°C (68°F)]

[Bank 1 / Sensor 2]

Item	Specification
Heater Resistance (Ω)	Approx. 3.0 [20°C (68°F)]

Removal

1. Turn ignition switch OFF and disconnect the battery negative (-) terminal.
2. Disconnect the heated oxygen sensor connector (A).
3. Remove the heated oxygen sensor (B).

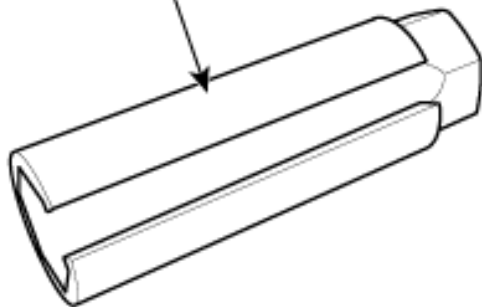
Tightening Torque :

39.2 - 49.0 N.m (4.0 - 5.0 kgf.m, 28.9 - 36.1 lb-ft)

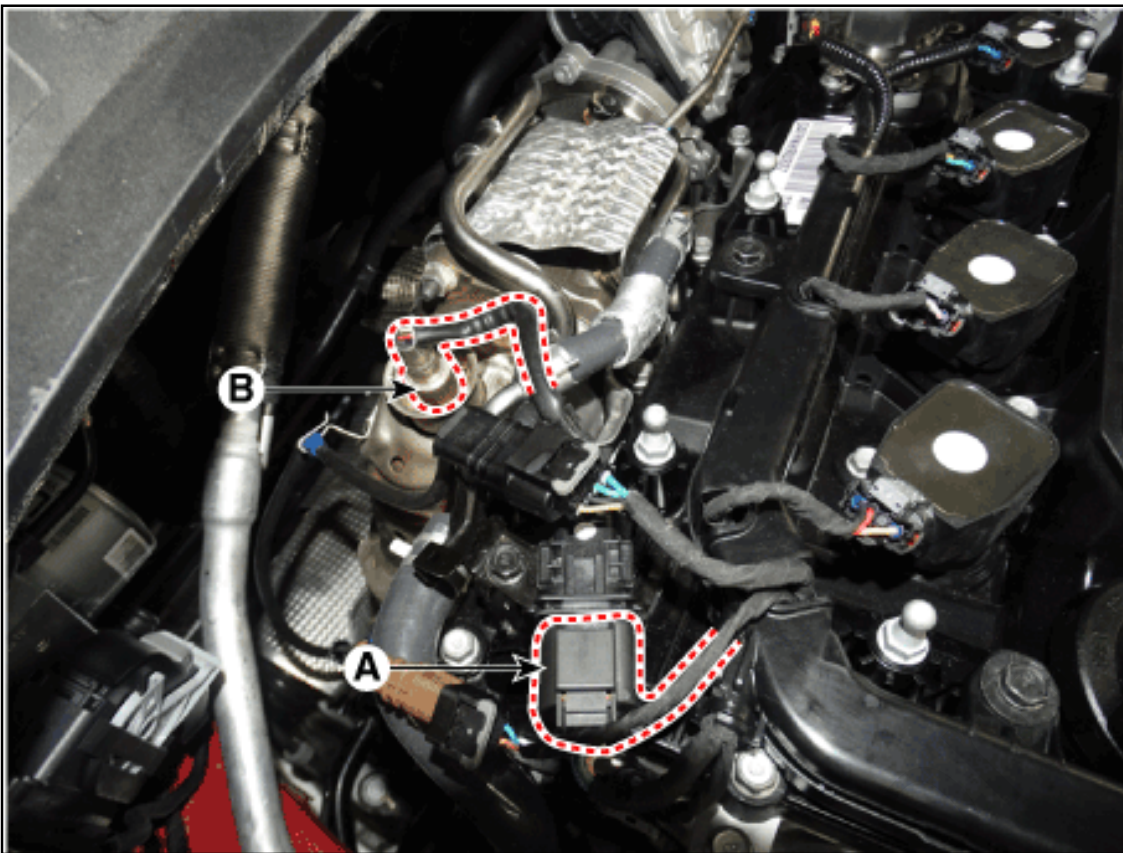


- Note that the SST (Part No. : 09392-2H100 or 09392-1Y100) is useful when removing the heated oxygen sensor.

09392-1Y100

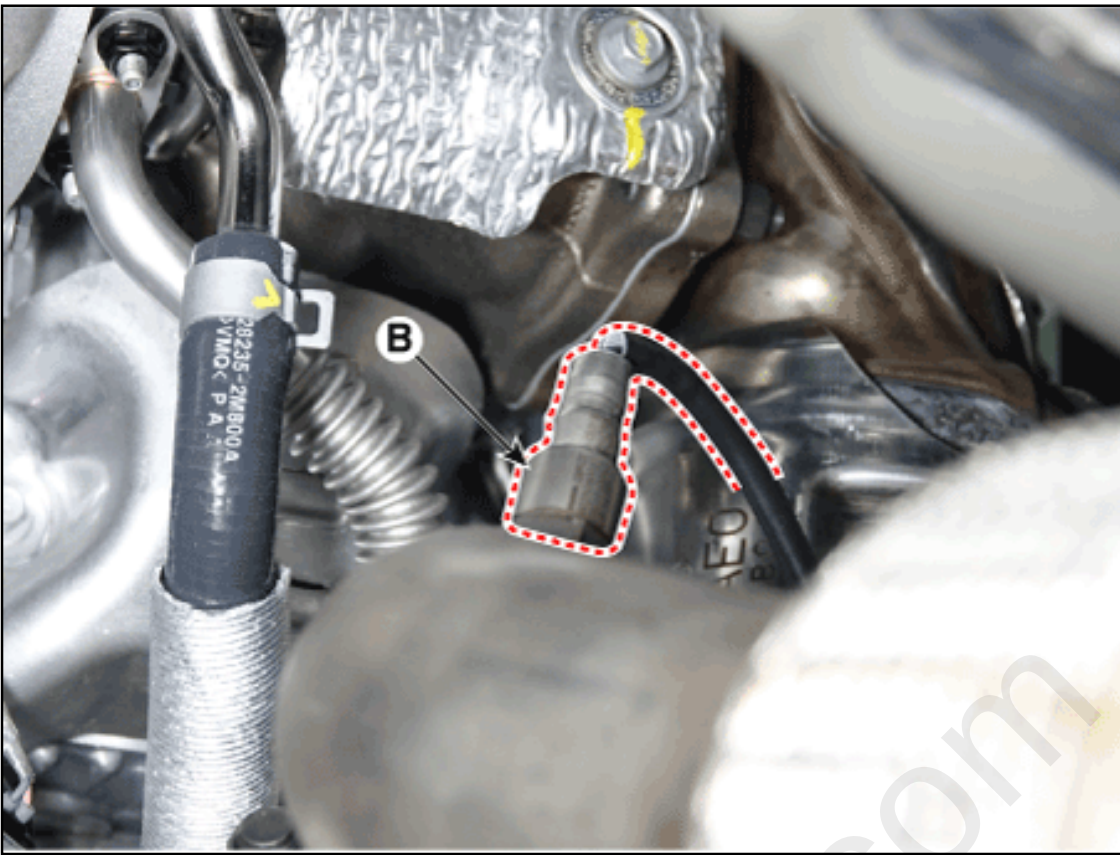


HO2S [Bank 1 / Sensor 1]



HO2S [Bank 1 / Sensor 2]





Installation



- Install the component with the specified torques.
- Note that internal damage may occur when the component is dropped. In this case, use it after inspecting.



- DON'T use a cleaner, spray, or grease to sensing element and connector of the sensor because oil component in them may malfunction the sensor performance.
- Sensor and its wiring may be damaged in case of contacting with the exhaust system (Exhaust Manifold, Catalytic Converter, and so on).

1. Install in the reverse order of removal.