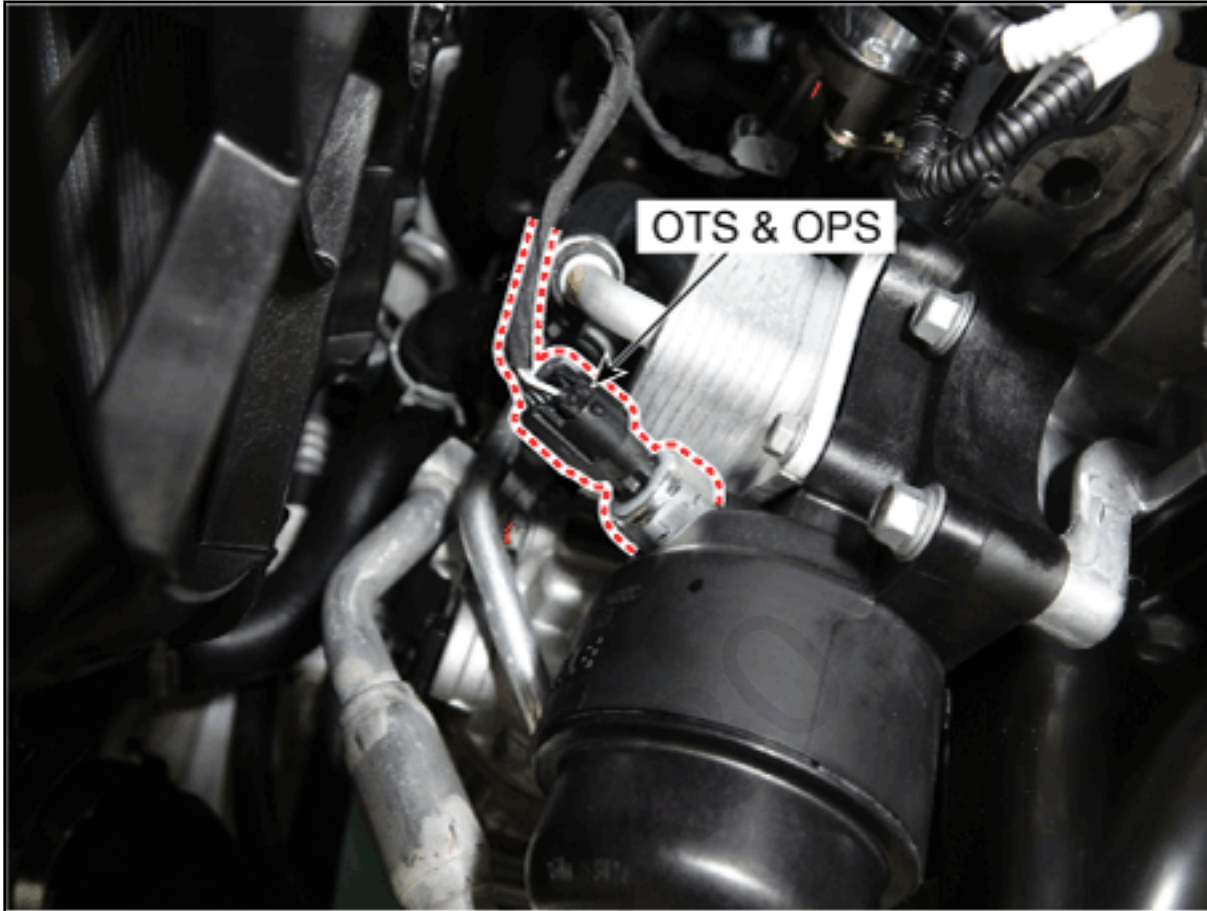


Description

It generates the oil pressure and temperature information (output voltage) to control the pump operation proportional control valve in variable oil pump system.

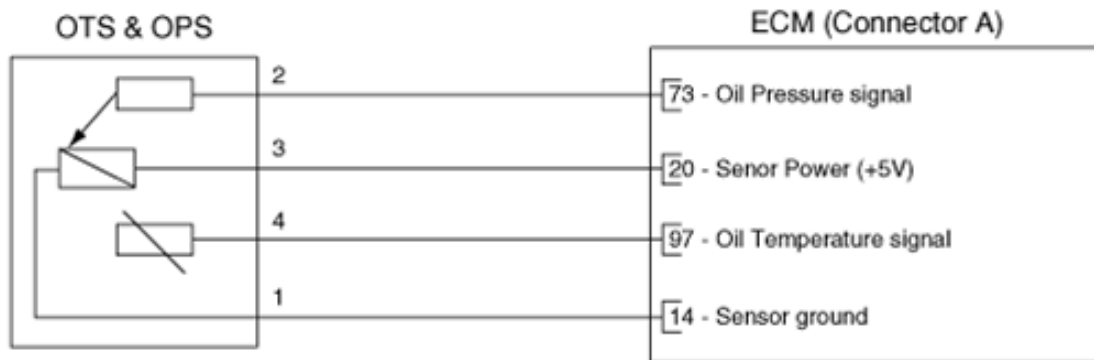
It measures the oil pressure and temperature discharged from the oil pump and transmits the pressure information to ECM. The ECM controls the proportional control valve to regularly keep the discharged pressure depending on RPM.



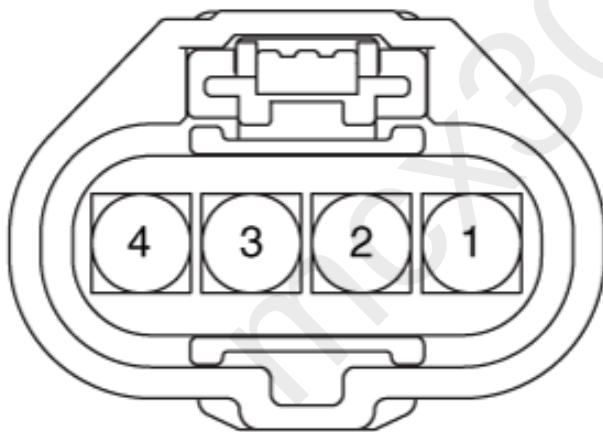
Specification

Temperature [°C (°F)]	Resistance (kΩ)
-40 (-40)	125.53 - 136.70
-20 (-4)	63.89 - 71.23
0 (32)	26.83 - 30.07
20 (68)	11.13 - 12.48
40 (104)	4.89 - 5.50
60 (140)	2.32 - 2.61
80 (176)	1.17 - 1.32
100 (212)	0.63 - 0.71
120 (248)	0.37 - 0.41
140 (284)	0.22 - 0.25
160 (320)	0.14 - 0.16

Circuit
Diagram



Harness Connector



Inspection

1. Turn ignition switch OFF.
2. Remove the oil pressure & oil temperature sensor.
(Refer to - "Removal")
3. After immersing the thermistor of the sensor into engine coolant, measure resistance between the OTS terminals 1 and 4.
4. Check that the resistance is within the specification.

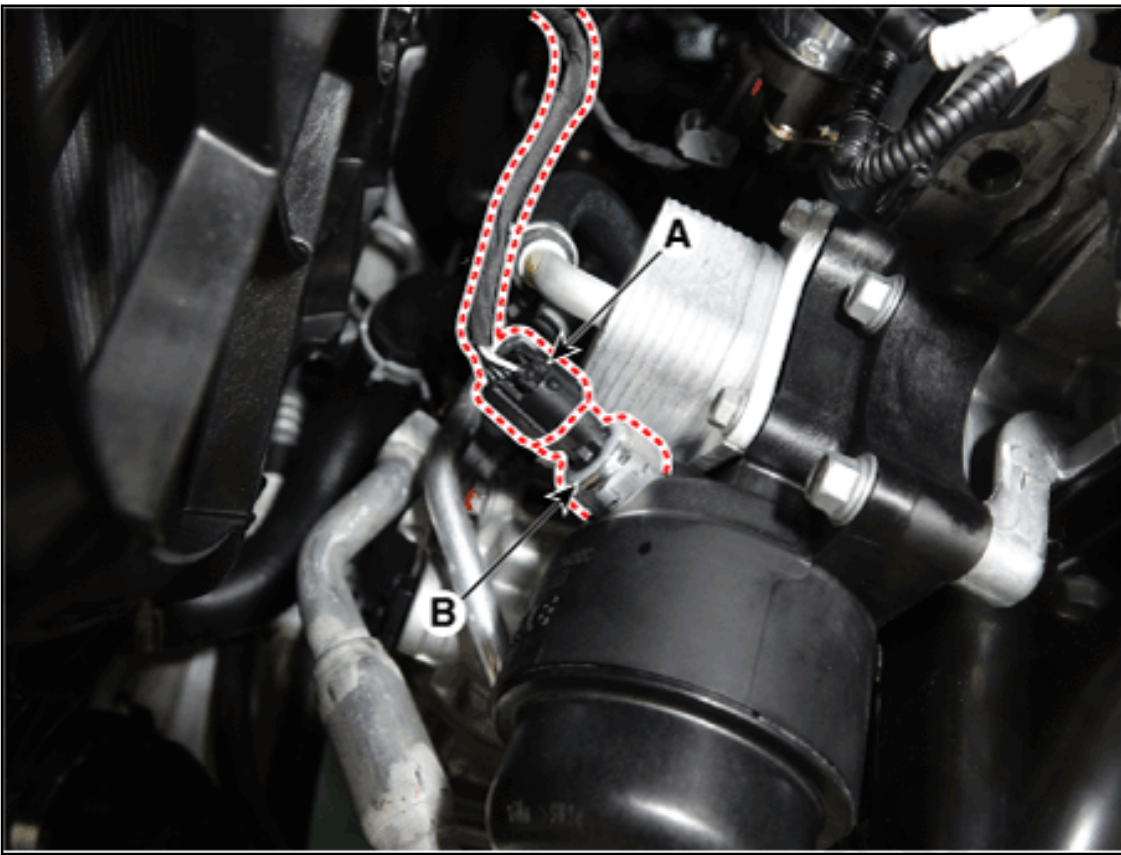
Temperature [°C (°F)]	Resistance (kΩ)
-40 (-40)	125.53 - 136.70
-20 (-4)	63.89 - 71.23
0 (32)	26.83 - 30.07
20 (68)	11.13 - 12.48
40 (104)	4.89 - 5.50
60 (140)	2.32 - 2.61
80 (176)	1.17 - 1.32
100 (212)	0.63 - 0.71
120 (248)	0.37 - 0.41
140 (284)	0.22 - 0.25
160 (320)	0.14 - 0.16

Removal

1. Turn the ignition switch OFF and disconnect the battery negative (-) cable.
2. Lift the vehicle.
3. Remove the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")
4. Disconnect the oil pressure & oil temperature sensor connector (A), and then remove the oil pressure & oil temperature sensor (B).

Tightening Torque :

14.7 - 21.6 N.m (1.5 - 2.2 kgf.m, 10.8 - 15.9 lb-ft)



Installation



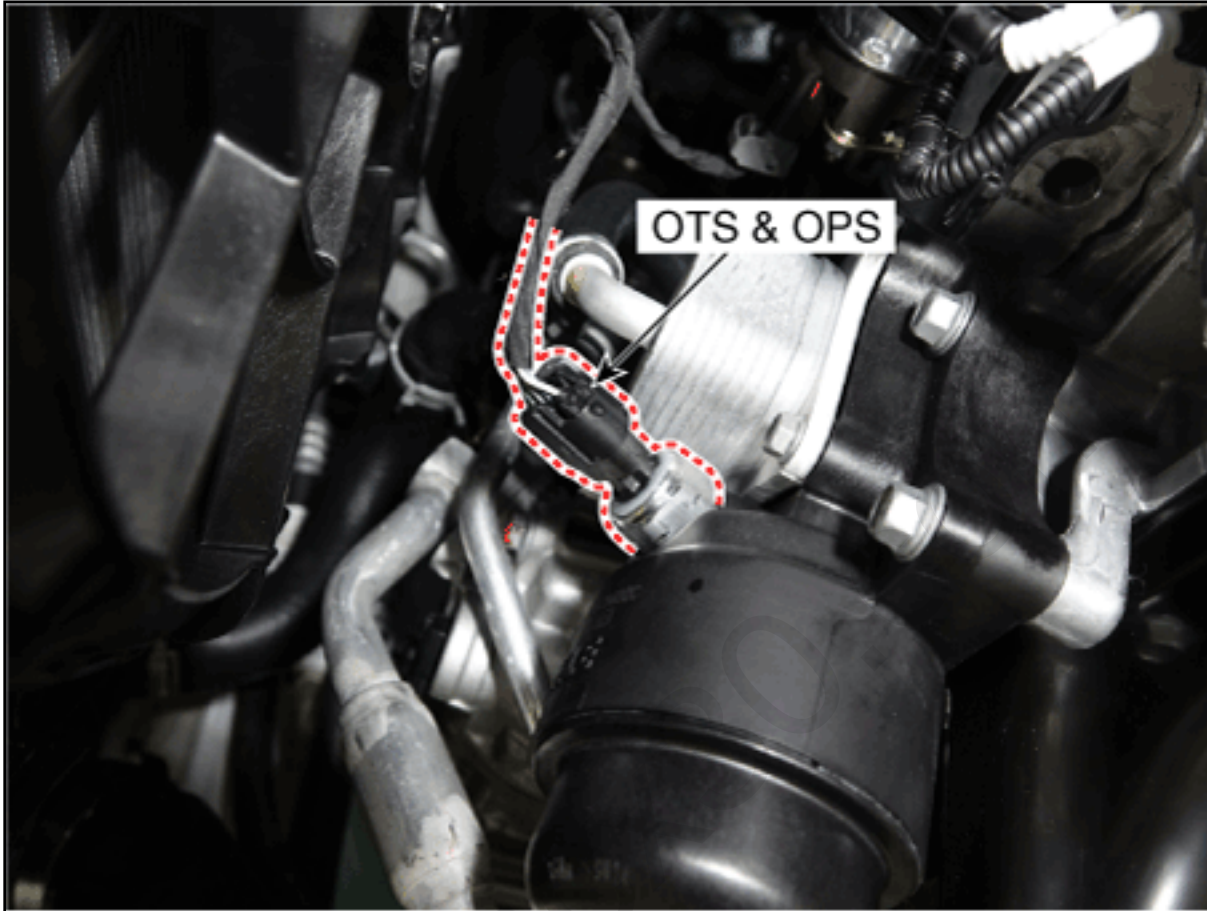
- Install the component to the specified torques.
- Note that internal damage may occur when the component is dropped. In this case, use it after inspecting.
- Apply the sealant to the sensor.
- Insert the sensor in the installation hole and be careful not to damage it during installation.

1. Install in the reverse order of removal.

Description

It generates the oil pressure and temperature information (output voltage) to control the pump operation proportional control valve in variable oil pump system.

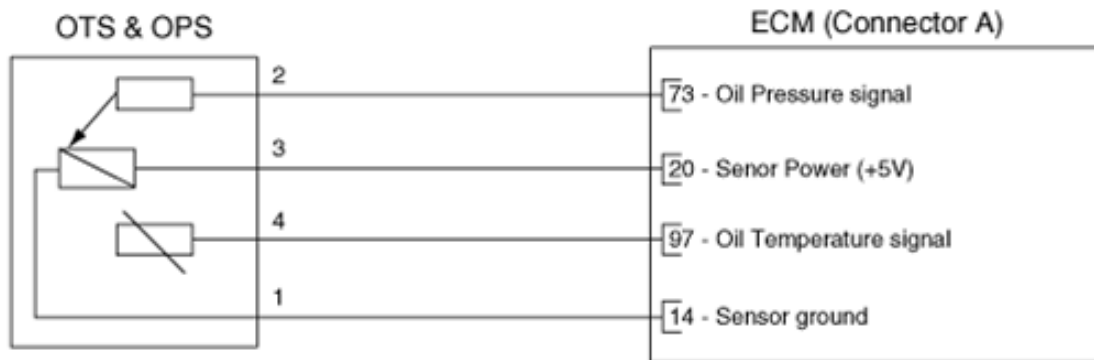
It measures the oil pressure and temperature discharged from the oil pump and transmits the pressure information to ECM. The ECM controls the proportional control valve to regularly keep the discharged pressure depending on RPM.



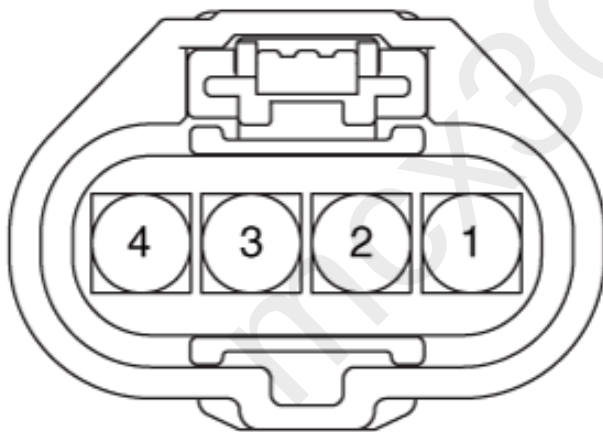
Specifications

Temperature [°C (°F)]	Resistance (kΩ)
-40 (-40)	125.53 - 136.70
-20 (-4)	63.89 - 71.23
0 (32)	26.83 - 30.07
20 (68)	11.13 - 12.48
40 (104)	4.89 - 5.50
60 (140)	2.32 - 2.61
80 (176)	1.17 - 1.32
100 (212)	0.63 - 0.71
120 (248)	0.37 - 0.41
140 (284)	0.22 - 0.25
160 (320)	0.14 - 0.16

Circuit
Diagram



Harness Connector



Inspection

1. Turn ignition switch OFF.
2. Remove the oil pressure & oil temperature sensor.
(Refer to - "Removal")
3. After immersing the thermistor of the sensor into engine coolant, measure resistance between the OTS terminals 1 and 4.
4. Check that the resistance is within the specification.

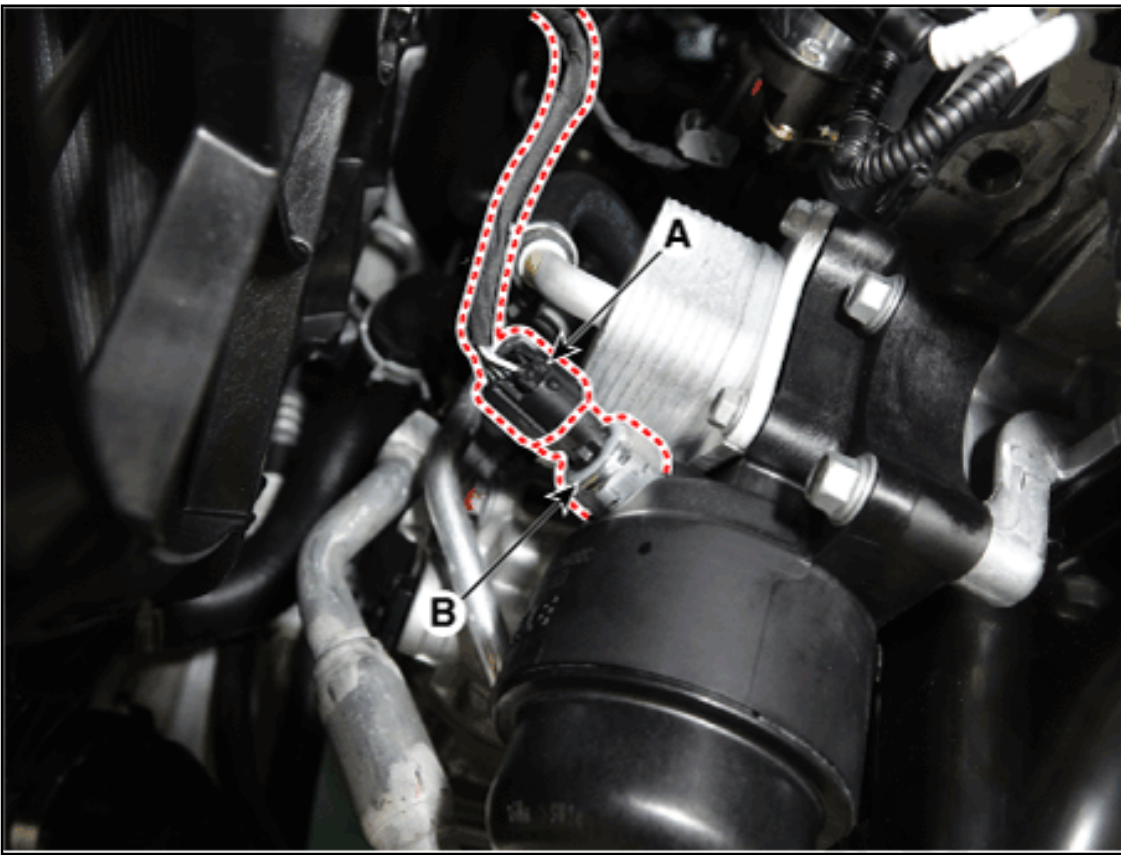
Temperature [°C (°F)]	Resistance (kΩ)
-40 (-40)	125.53 - 136.70
-20 (-4)	63.89 - 71.23
0 (32)	26.83 - 30.07
20 (68)	11.13 - 12.48
40 (104)	4.89 - 5.50
60 (140)	2.32 - 2.61
80 (176)	1.17 - 1.32
100 (212)	0.63 - 0.71
120 (248)	0.37 - 0.41
140 (284)	0.22 - 0.25
160 (320)	0.14 - 0.16

Removal

1. Turn the ignition switch OFF and disconnect the battery negative (-) cable.
2. Lift the vehicle.
3. Remove the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")
4. Disconnect the oil pressure & oil temperature sensor connector (A), and then remove the oil pressure & oil temperature sensor (B).

Tightening Torque :

14.7 - 21.6 N.m (1.5 - 2.2 kgf.m, 10.8 - 15.9 lb-ft)



Installation



- Install the component to the specified torques.
- Note that internal damage may occur when the component is dropped. In this case, use it after inspecting.
- Apply the sealant to the sensor.
- Insert the sensor in the installation hole and be careful not to damage it during installation.

1. Install in the reverse order of removal.