

Description

The Electric EGR Control Valve is installed in between the EGR cooler and the exhaust line and is a solenoid valve. This valve controls EGR (Exhaust Gas Recirculation) amount by the ECM's duty control signal depending on engine load and the need of intake air.

The Exhaust Gas Recirculation (EGR) system is used to add the exhaust gas to intake air in order to reduce an excess of air and the temperature in the combustion chamber.



Specification

[Motor]

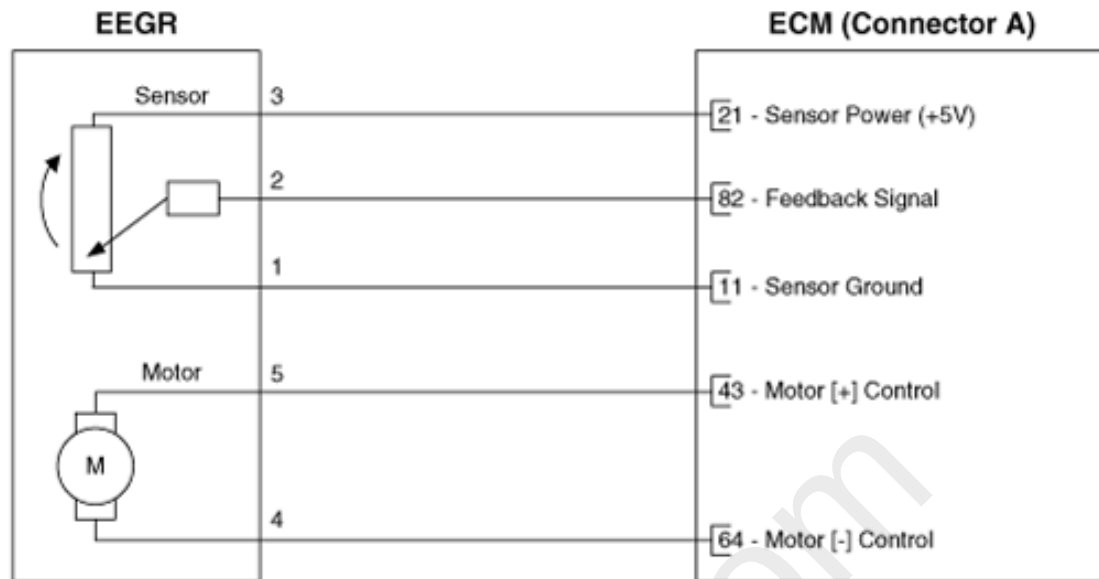
Item	Specification
Coil Resistance (Ω)	2.21 - 2.99 [20°C (68°F)]

[Position Sensor]

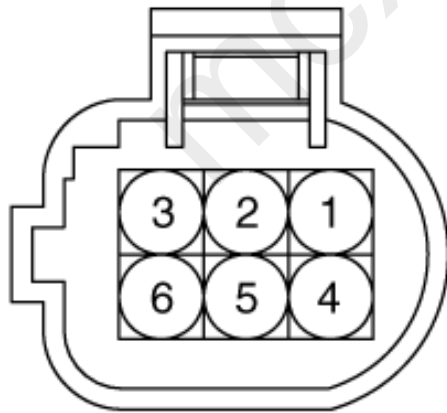
Item	Specification
Sensor Power (V)	5
Opened Voltage (V)	3.85 - 4.15
Closed Voltage (V)	0.75 - 1.25

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Circuit
Diagram



Harness Connector



Inspection

[Motor]

1. Turn the ignition switch OFF.
2. Disconnect the EEGR valve connector.
3. Check that the EEGR valve is stuck by foreign material.
4. Measure resistance between motor 4 and 5 control terminals of the motor.
5. Check that the resistance is within the specification

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Coil Resistance (Ω)	2.21 - 2.99 [20°C (68°F)]

[Feedback Position Sensor]

1. Connect the diagnostic tool to the data link connector.
2. Perform the fully open and the fully closing operation of the EEGR valve by using the actuation test.
3. Check that the voltage is within the specification.

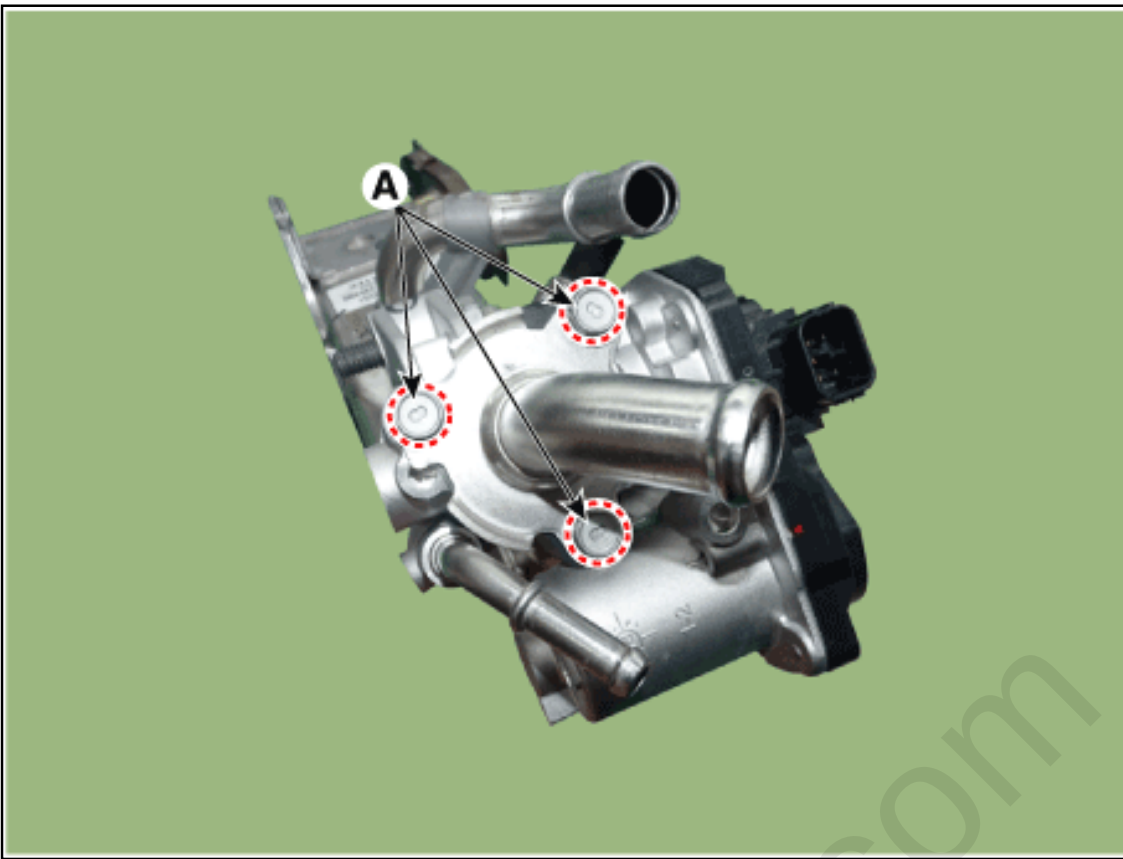
Item	Specification
Closed Voltage (V)	3.85 - 4.15
Opened Voltage (V)	0.75 - 1.25

Removal

1. Turn the ignition switch OFF, and disconnect the battery negative (-) terminal.
2. Remove the EGR cooler.
(Refer to Engine Mechanical System - "EGR Cooler")
3. Remove the EEGR control valve after loosening the mounting bolt (A).

Tightening Torque :

18.6 - 23.5 N.m (1.9 - 2.4 kgf.m, 13.7 - 17.3 lb-ft)



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.
- Use care to keep foreign material out of the component.

1. Install in the reverse order of removal.