

Description

Knocking is a phenomenon characterized by undesirable vibration and noise and can cause engine damage.

Knock Sensor (KS) is installed on the cylinder block and senses engine knocking. When knocking occurs, the vibration from the cylinder block is applied as pressure to the piezoelectric element. At this time, this sensor transfers the voltage signal higher than the specified value to the ECM and the ECM retards the ignition timing.

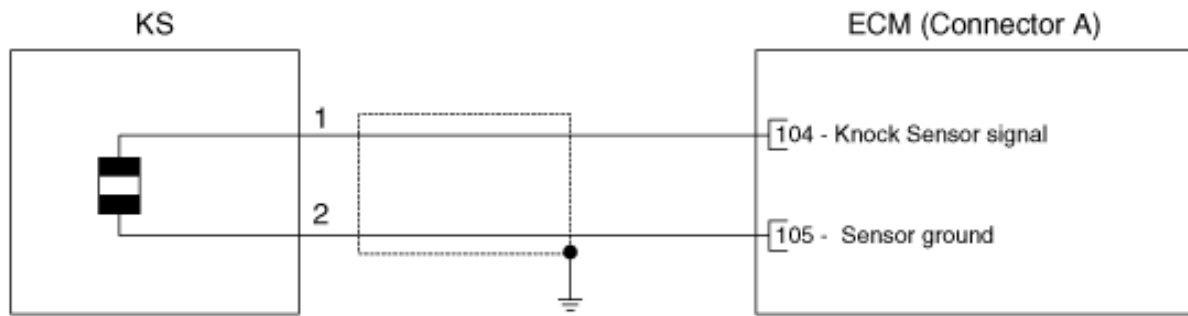


Specification

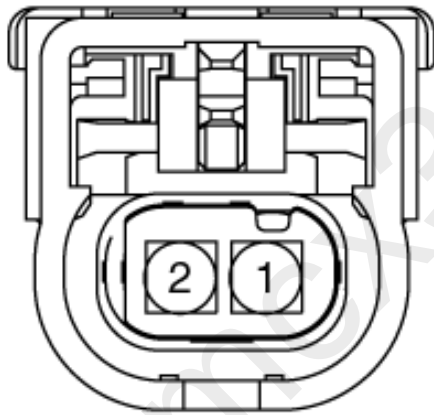
Item	Specification
Capacitance (pF)	850 - 1150
Resistance (MΩ)	R > 1

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Circuit
Diagram



Harness Connector

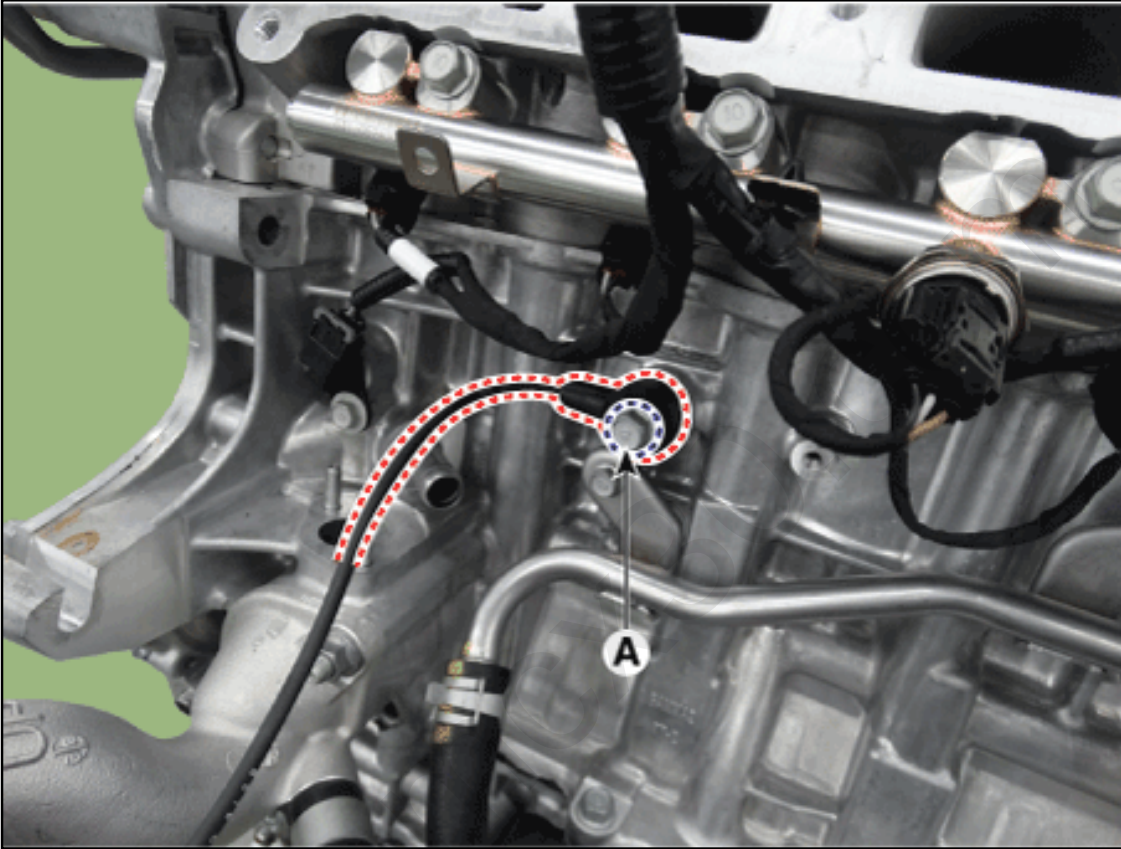


Removal

1. Turn ignition switch OFF and disconnect the battery negative (-) terminal.
2. Remove the intake manifold.
(Refer to Engine Mechanical System - "Intake Manifold")
3. Remove the MHSG.
(Refer to Engine Electrical System - "Mild Hybrid Starter Generator (MHSG)")
4. Remove the installation bolt (A), and then remove the sensor from the cylinder block.

Tightening Torque :

18.6 - 24.5 N.m (1.9 - 2.5 kgf.m, 13.7 - 18.1 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.

1. Install in the reverse order of removal.