

Component Procedures: Knock Sensor

Table of Contents

1. Parts and Labor (itype_189)
2. Knock Sensor (KS) - Description and Operation (Article 44121)
3. Knock Sensor (KS) - Schematic Diagrams (Article 44123)
4. Knock Sensor (KS) - Repair Procedures (Article 44125)
5. Knock Sensor (KS) - Specifications (Article 44122)

Component Procedures: Knock Sensor

Parts and Labor (itype_189)

Parts

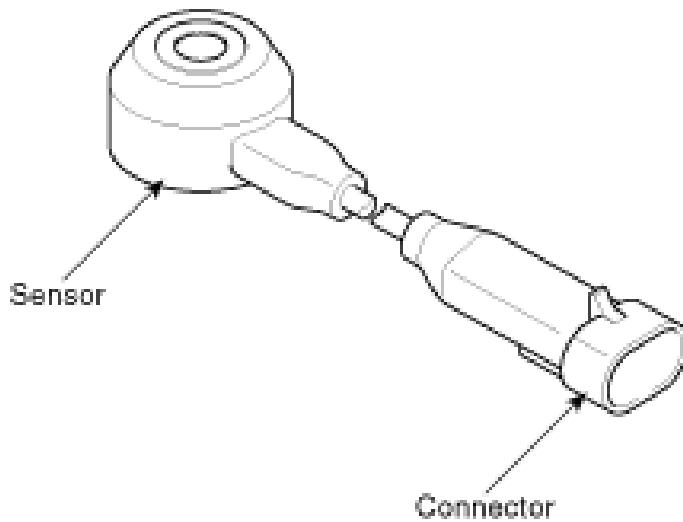
Qualifier	Part #	Name	Price	Note
Powertrain Control	392502E000	Knock Sensor	58.31	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Powertrain Control > Knock Sensor, R&R	B	2.2	0.0

Knock Sensor (KS) - Description and Operation (Article 44121)

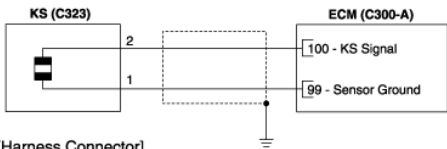
- Description



Knock Sensor (KS) - Schematic Diagrams (Article 44123)

- Circuit Diagram

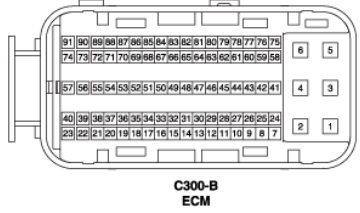
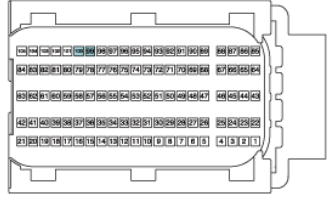
[Circuit Diagram]



[Connection Information]

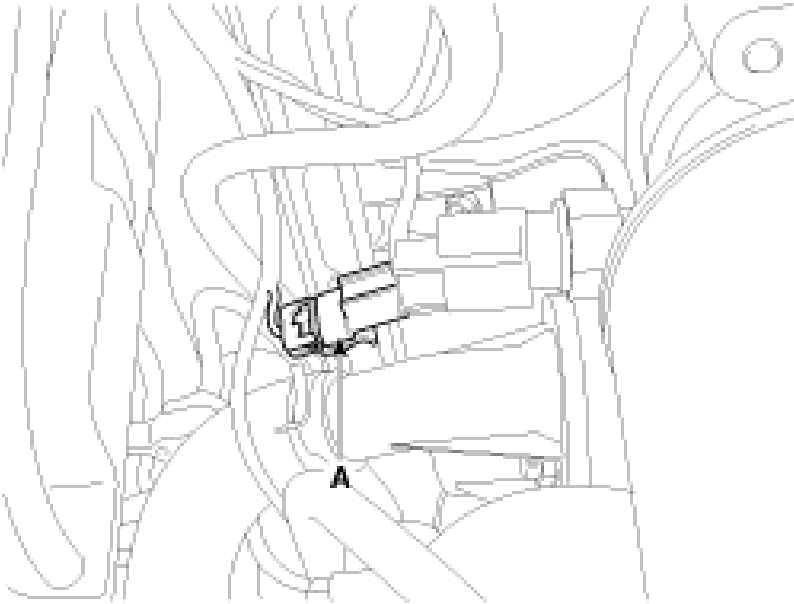
Terminal	Connected to	Function
1	ECM C300-A (99)	KS Signal
2	ECM C300-A (100)	Sensor Ground

[Harness Connector]

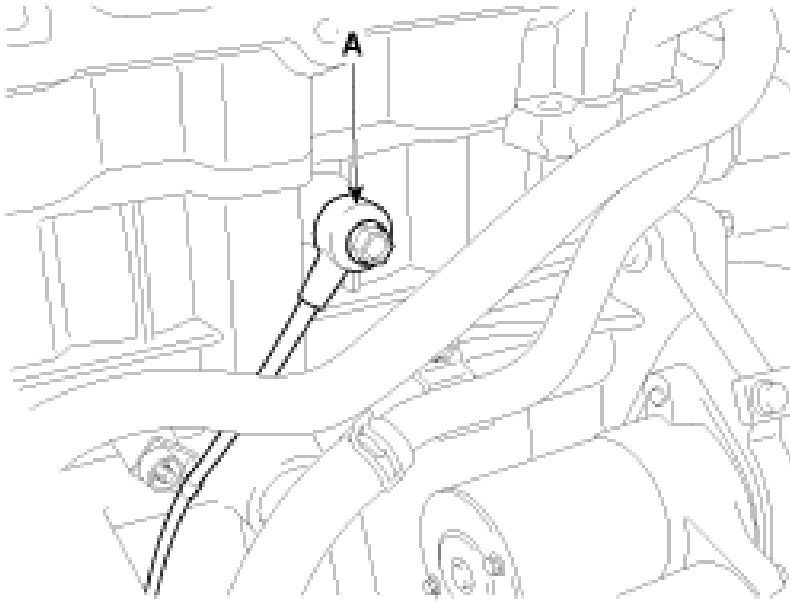


Knock Sensor (KS) - Repair Procedures (Article 44125)

- Removal
- Turn the ignition switch OFF and disconnect the battery negative (-) cable.
- Disconnect the knock sensor connector (A).



- Remove the intake manifold. (Refer to Engine Mechanical System - "Intake Manifold")
- Remove the installation bolt (A), and then remove the sensor from the cylinder block.



- 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.



- 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.
- Installation is reverse of removal. Knock sensor installation bolt : 18.6 - 23.5 N.m (1.9 - 2.4 kgf.m, 13.7 - 17.4 lb-ft)

Knock Sensor (KS) - Specifications (Article 44122)

- Specification

Item Specification

Capacitance (pF) 850 - 1,150