

Component Procedures: Crankshaft Position Sensor

Table of Contents

1. Parts and Labor (itype_189)
2. Crankshaft Position Sensor (CKPS) - Description and Operation (Article 44214)
3. Crankshaft Position Sensor (CKPS) - Schematic Diagrams (Article 44217)
4. Crankshaft Position Sensor (CKPS) - Repair Procedures (Article 44219)
5. Crankshaft Position Sensor (CKPS) - Specifications (Article 44215)
6. Crankshaft Position Sensor (CKPS) - Troubleshooting (Article 44216)

Component Procedures: Crankshaft Position Sensor

Parts and Labor (itype_189)

Parts

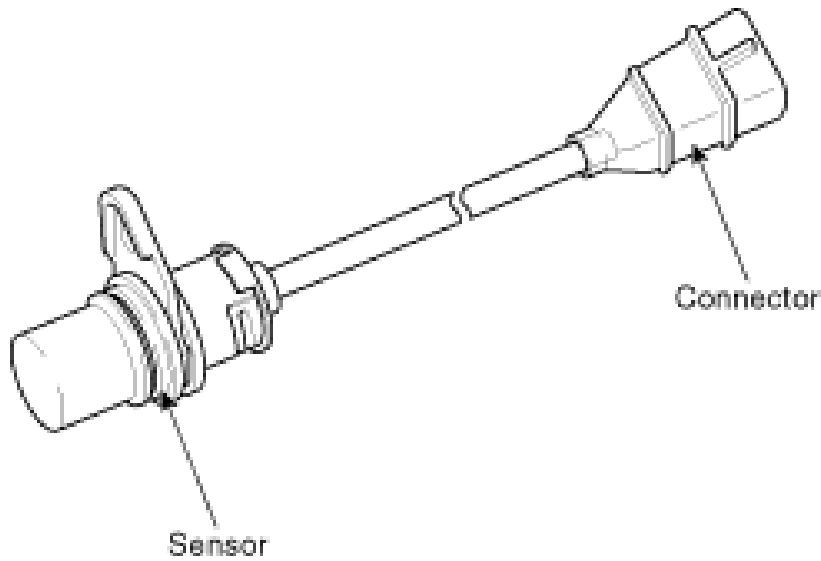
Qualifier	Part #	Name	Price	Note
Powertrain Control	391802B000	Crankshaft Position Se?	180.13	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Powertrain Control > Crankshaft Position Sens?	B	0.6	0.0

Crankshaft Position Sensor (CKPS) - Description and Operation (Article 44214)

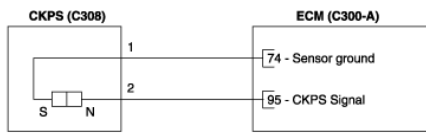
- Description



Crankshaft Position Sensor (CKPS) - Schematic Diagrams (Article 44217)

- Circuit Diagram

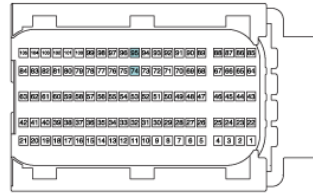
[Circuit Diagram]



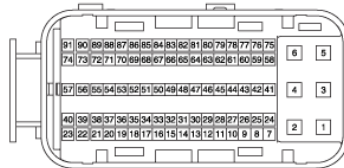
[Connection Information]

Terminal	Connected to	Function
1	ECM C300-A (74)	Sensor ground
2	ECM C300-A (95)	CKPS Signal

[Harness Connector]



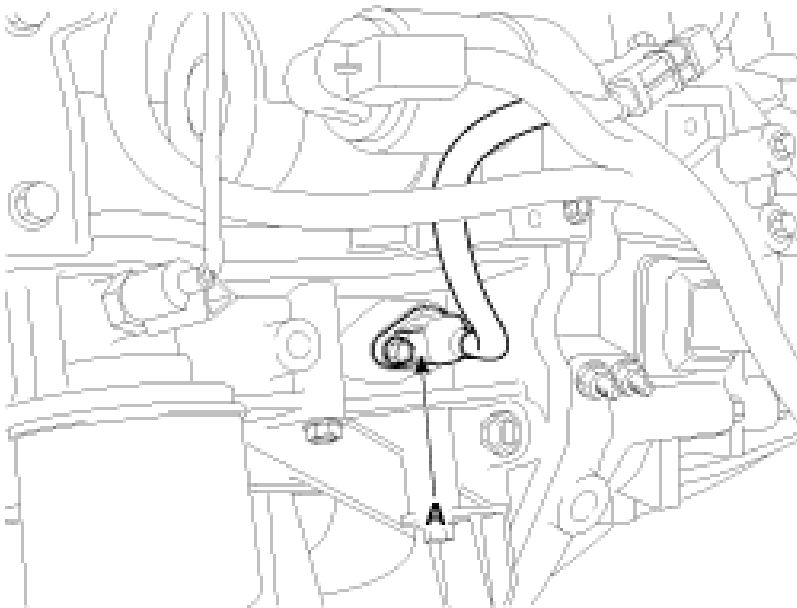
C300-A



C300-B
ECM

Crankshaft Position Sensor (CKPS) - Repair Procedures (Article 44219)

- Inspection
- Check signal waveform of CKPS and CMPS using a scan tool. Specification : Refer to "Waveform"
- Removal
- Turn the ignition switch OFF and disconnect the battery negative (-) cable.
- Disconnect the crankshaft position sensor connector (A) and remove the sensor after removing the installation bolt.



- Installation

Install the component with the specified torques. Note that internal damage may occur when the component is dropped. If the component has been dropped, inspect before installing.

⚠ CAUTION

- Install the component with the specified torques.
- Note that internal damage may occur when the component is dropped. If the component has been dropped, inspect before installing.

Apply the engine oil to the O-ring. Insert the sensor in the installation hole and be careful not to damage.

- Apply the engine oil to the O-ring.
- Insert the sensor in the installation hole and be careful not to damage.
- Installation is reverse of removal. Crankshaft position sensor installation bolt : 9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)

Crankshaft Position Sensor (CKPS) - Specifications (Article 44215)

- Specification

Item Specification

Coil Resistance (Ω) 774 - 946 [20°C (68°F)]

Crankshaft Position Sensor (CKPS) - Troubleshooting (Article 44216)

- Waveform

