

Component Procedures: Manifold Pressure/Vacuum Sensor

Table of Contents

1. Parts and Labor (itype_189)
2. Manifold Absolute Pressure Sensor (MAPS) - Description and Operation (Article 44199)
3. Manifold Absolute Pressure Sensor (MAPS) - Schematic Diagrams (Article 44201)
4. Manifold Absolute Pressure Sensor (MAPS) - Repair Procedures (Article 44203)
5. Manifold Absolute Pressure Sensor (MAPS) - Specifications (Article 44200)

Component Procedures: Manifold Pressure/Vacuum Sensor

Parts and Labor (itype_189)

Parts

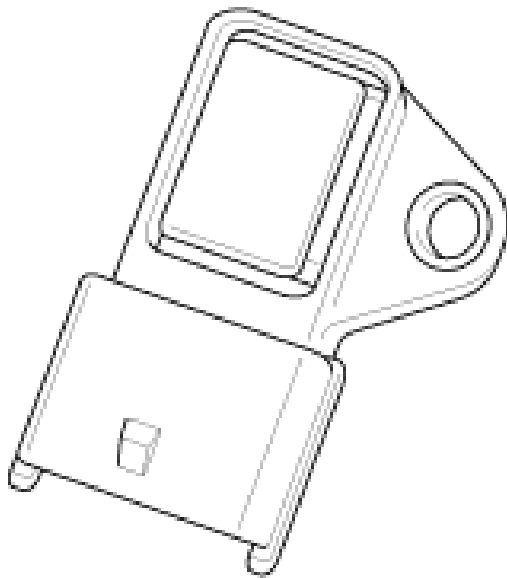
Qualifier	Part #	Name	Price	Note
Powertrain Control > MAP Sen?	393002B100	Map Sensor	163.42	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Powertrain Control > MAP Sensor, R&R	B	0.6	0.0

Manifold Absolute Pressure Sensor (MAPS) - Description and Operation (Article 44199)

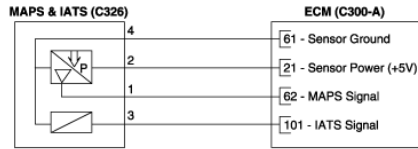
- Description



Manifold Absolute Pressure Sensor (MAPS) - Schematic Diagrams (Article 44201)

- Circuit Diagram

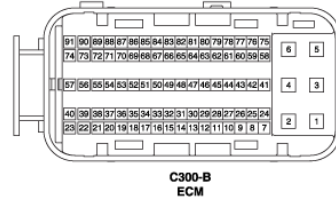
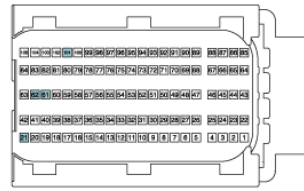
[Circuit Diagram]



[Connection Information]

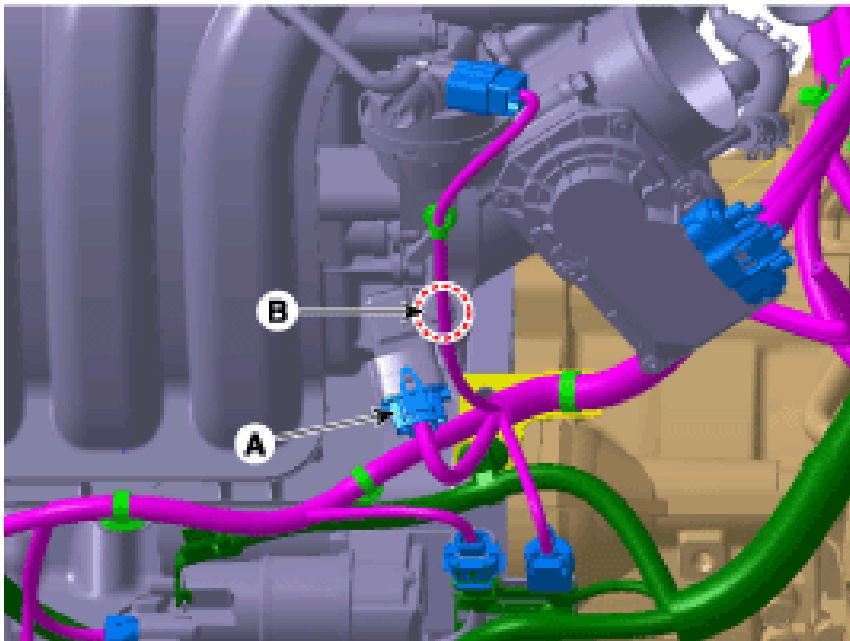
Terminal	Connected to	Function
1	ECM C300-A (62)	MAPS #1 Signal
2	ECM C300-A (21)	Sensor Power (+5V)
3	ECM C300-A (101)	Sensor Ground
4	ECM C300-A (61)	IATS Signal

[Harness Connector]



Manifold Absolute Pressure Sensor (MAPS) - Repair Procedures (Article 44203)

- Inspection
- Connect the GDS on the Data Link Connector (DLC).
- Measure the output voltage of the MAPS at idle and IG ON. Condition Output Voltage (V) IG ON 3.9 - 4.1 Idle 0.8 - 1.6
- Condition Output Voltage (V)
- IG ON 3.9 - 4.1
- Idle 0.8 - 1.6
- Removal
- Turn the ignition switch OFF and disconnect the battery negative (-) cable.
- Disconnect the manifold absolute pressure sensor connector (A).
- Remove the installation bolt (B), and then remove the sensor from the surge tank.



- 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.

⚠ CAUTION

- 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. Insert the sensor in the installation hole and be careful not to damage when installation.
- Insert the sensor in the installation hole and be careful not to damage when installation.
- Installation is reverse of removal. Manifold absolute pressure sensor installation bolt : 9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)

Manifold Absolute Pressure Sensor (MAPS) - Specifications (Article 44200)

- Specification

Pressure [kPa (kgf/cm², psi)] Output Voltage (V)

20.0 (0.20, 2.9) 0.789

46.7 (0.47, 6.77) 1.84

101.3 (1.03, 14.7) 4.0

