

Component Procedures: Camshaft Position Sensor

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Component Procedures: Camshaft Position Sensor

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Camshaft Position Sensor	12615371	5-thermostat Housing	26.44	Includes: Thermostat & Gas?

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Powertrain Control > Camshaft Position Sensor?	B	0.5	0.4
Remove & Replace	Powertrain Control > Camshaft Position Sensor?	B	0.3	0.2

Camshaft Position Sensor Replacement - Bank 2 (Left Side) Exhaust) (Article 11409)

Removal Procedure

- Ignition OFF.
- Remove the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
- Remove the power steering fluid reservoir. Refer to Power Steering Fluid Reservoir Replacement .
- Use compressed air to remove debris from the CMP sensor and surrounding cavities. Click for full-size image
- Remove the CMP sensor electrical connector (1) from the CMP sensor (2).
- Remove the CMP sensor to engine front cover retaining bolt (2). Click for full-size image
- Remove the CMP sensor (1) from the engine.

Installation Procedure

- Install the CMP sensor (1) to the engine. Click for full-size image
- Install the CMP sensor (1) to engine front cover retaining bolt (2) and tighten to 10 Nm (89 lb in) .
- Install the CMP sensor electrical connector (1) to the CMP sensor (2). Click for full-size image
- Install the power steering fluid reservoir. Refer to Power Steering Fluid Reservoir Replacement .
- Install the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .

Camshaft Position Sensor Replacement - Bank 2 (Left Side) Intake) (Article 11410)

Removal Procedure

- Ignition OFF.
- Remove the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
- Use compressed air to remove debris from the CMP sensor and surrounding cavities. Click for full-size image
- Remove the camshaft position (CMP) sensor electrical connector (1) from the CMP sensor (2).
- Remove the CMP sensor to engine front cover retaining bolt (1). Click for full-size image
- Remove the CMP sensor (2) from the engine.

Installation Procedure

- Install the CMP sensor (2) to the engine. Click for full-size image
- Install the CMP sensor to engine front cover retaining bolt (1) and tighten to 10 Nm (89 lb in) .
- Install the CMP sensor electrical connector (1) to the CMP sensor (2). Click for full-size image
- Install the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .

Camshaft Position Sensor Replacement - Bank 1 (Right Side) Exhaust) (Article 11407)

Removal Procedure

- Turn the ignition OFF.
- Remove the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
- Reposition the vacuum brake booster hose.
- Use compressed air to remove debris from the CMP sensor and surrounding cavities. Click for full-size image
- Remove the camshaft position (CMP) sensor electrical connector (1) from the CMP sensor (2).
- Remove the CMP sensor to engine front cover retaining bolt (1). Click for full-size image
- Remove the CMP sensor (2) from the engine.

Installation Procedure

- Install the CMP sensor (2) to the engine. Click for full-size image
- Install the CMP sensor to engine front cover retaining bolt (1) and tighten to 10 Nm (89 lb in) .
- Install the CMP sensor electrical connector (1) to the CMP sensor (2). Click for full-size image
- Install the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .

Camshaft Position Sensor Replacement - Bank 1 (Right Side) Intake) (Article 11408)

Removal Procedure

- Turn the ignition OFF.
- Remove the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .
- Reposition the vacuum brake booster hose.
- Remove the camshaft position (CMP) sensor electrical connector (1) from the CMP sensor (2). Click for full-size image
- Remove the CMP sensor to engine front cover retaining bolt (1). Click for full-size image
- Remove the CMP sensor from the engine front cover (2).

Installation Procedure

- Install the CMP sensor (2) to the engine front cover. Click for full-size image
- Install the CMP sensor to engine front cover retaining bolt (1) and tighten to 10 Nm (89 lb in) .
- Install the CMP sensor electrical connector (1) to the CMP sensor. Click for full-size image
- Install the intake manifold cover. Refer to Intake Manifold Cover Replacement - Front .