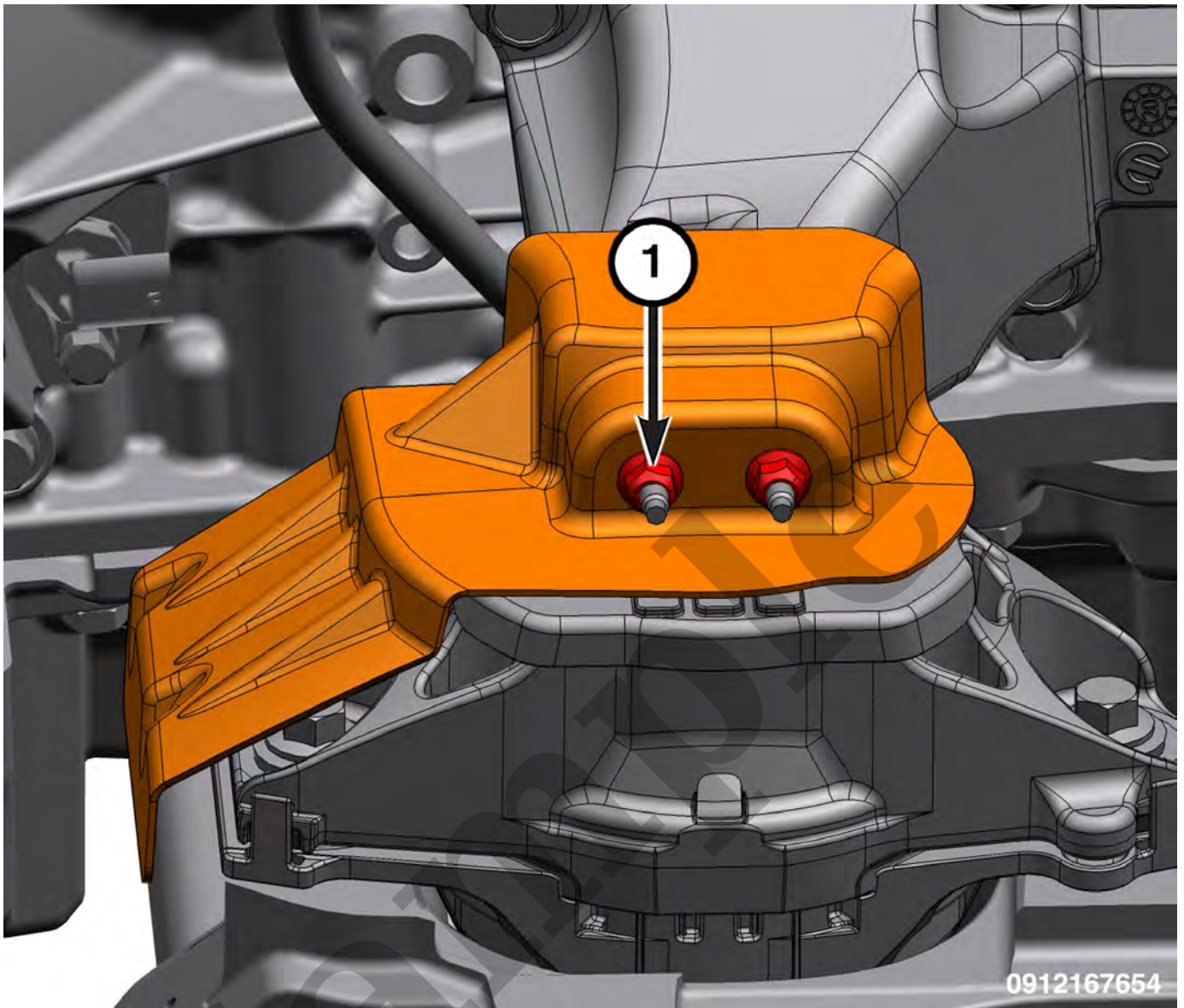


Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2010 JEEP Grand Cherokee SRT-8 OEM Service and Repair Workshop Manual

[Go to manual page](#)

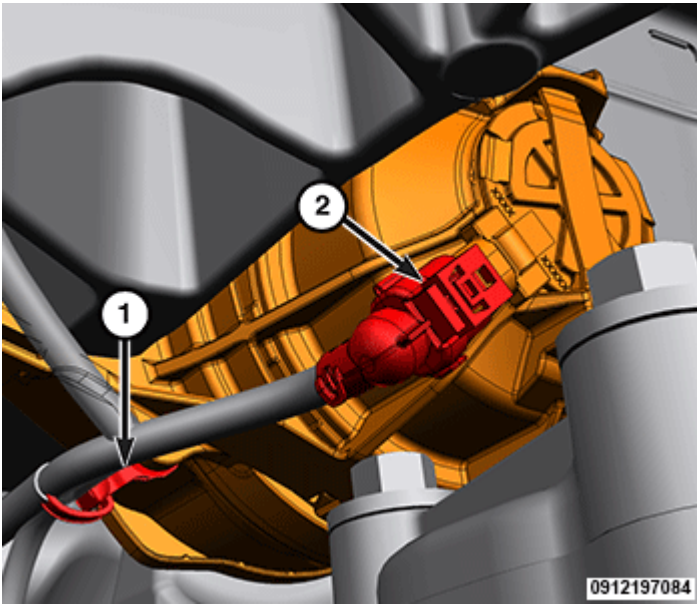


1 - Right Engine Mount Heat Shield Nuts

NOTE

The right engine mount fasteners are accessed from the front under where the generator was mounted.

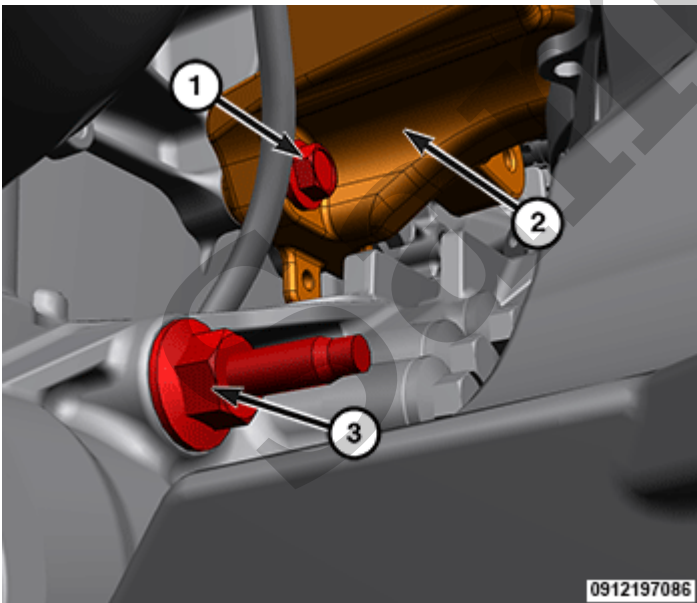
10. Remove the right engine mount heat shield nuts and the right engine mount heat shield.



1 - Wire Harness Retainer

2 - Engine Mount Wire Harness Connector

21. Disconnect the engine mount wire harness connector and detach wire harness retainer.



1 - Bolt

2 - Engine Mount Bracket

3 - Stud Fastener

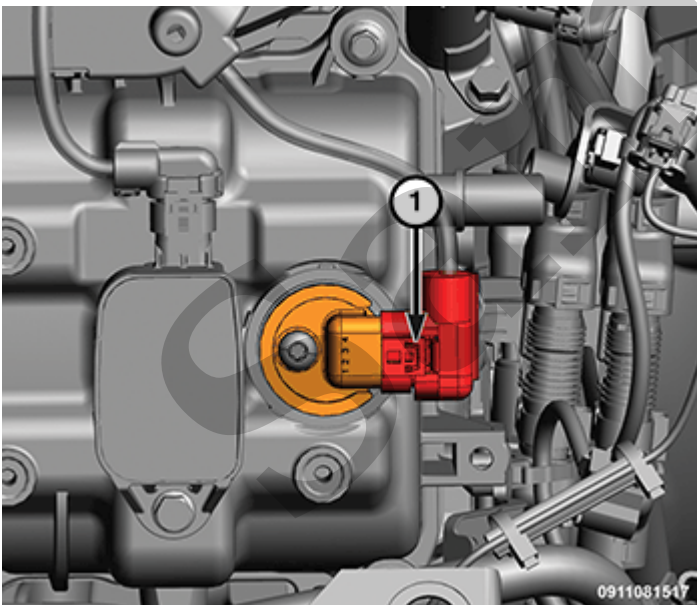
Camshaft Position (CMP) Sensor - Left

CAMSHAFT POSITION (CMP) SENSOR - LEFT

REMOVAL

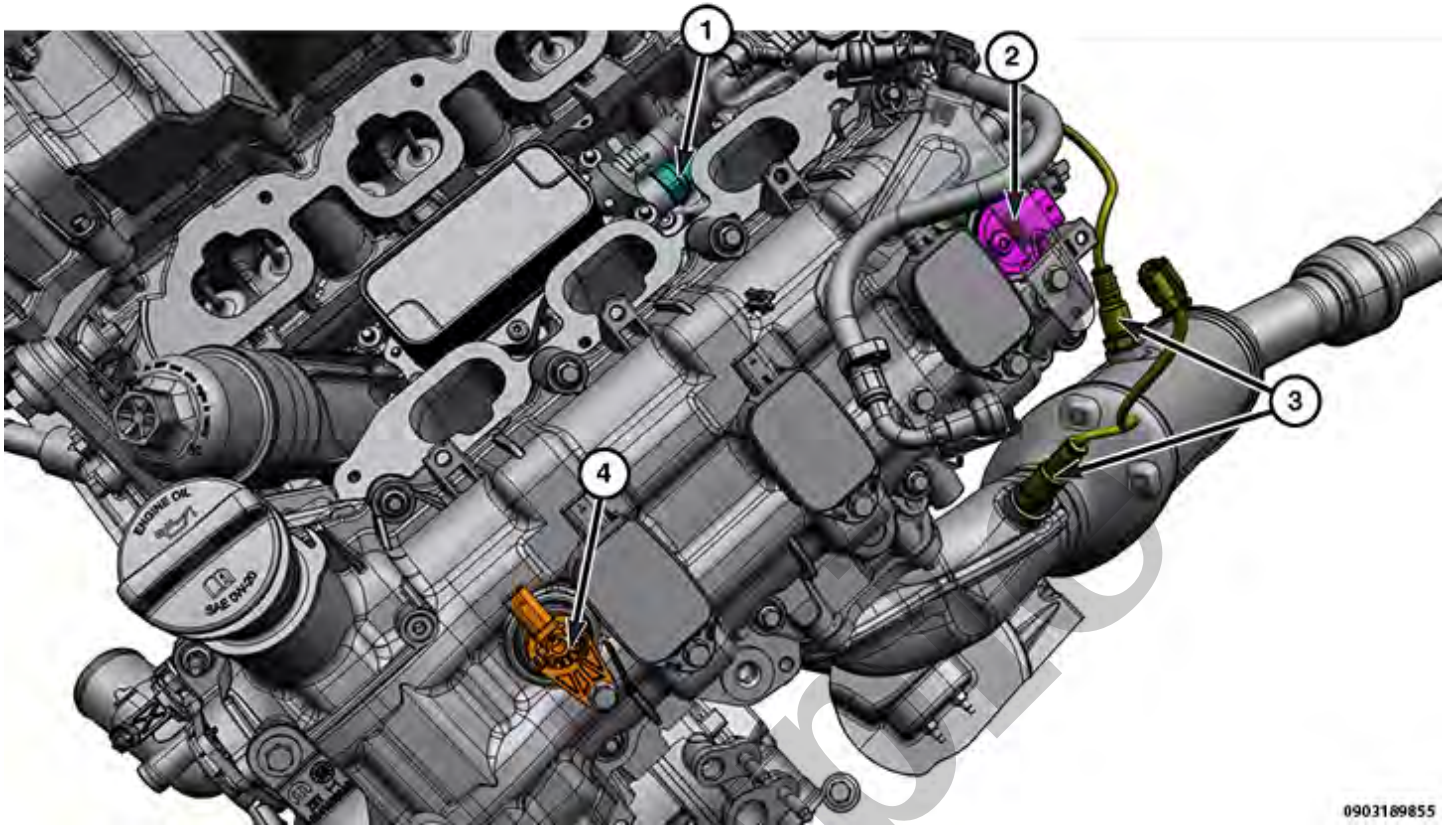
The Camshaft Position (CMP) sensors are located at the rear of the cylinder head covers and are bolted to the cylinder head.

1. Disconnect and isolate the negative battery cable(s) ([Refer to Electrical/Battery System/Standard Procedure](#)).
2. Remove the engine cover.



1 - Wire Harness Connector

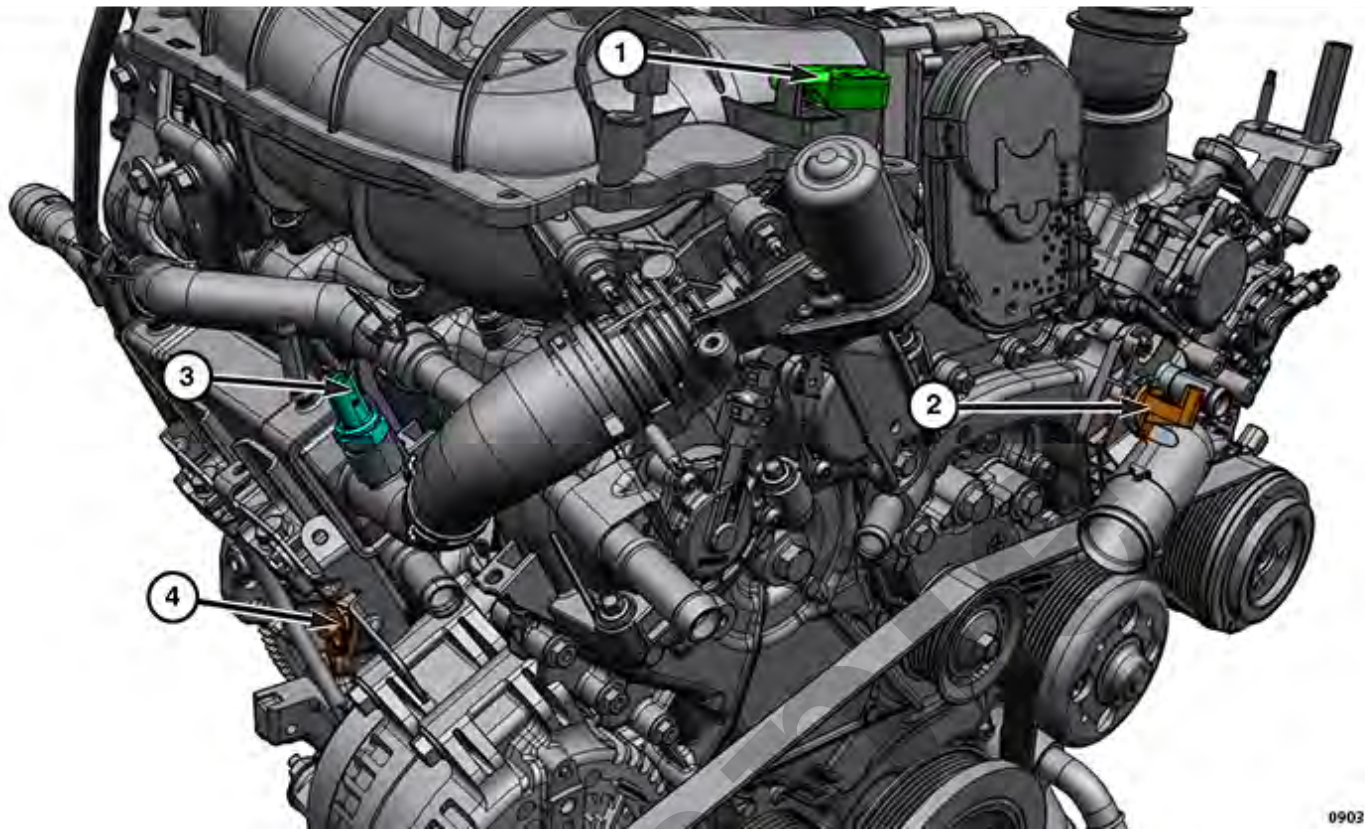
3. Disconnect the wire harness connector from the CMP sensor.



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
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1	Engine Oil Pressure (EOP) Sensor	20 N·m (15 Ft. Lbs.)	-
2	Camshaft Position (CMP) Sensor to Cylinder Head	9 N·m (80 In. Lbs.)	-
3	Oxygen (O2) Sensor	50 N·m (37 Ft. Lbs.)	-
4	Oil Control Valve	8 N·m (71 In. Lbs.)	-
-	Oil Temperature Sensor to Cylinder Head	11 N·m (8 Ft. Lbs.)	-



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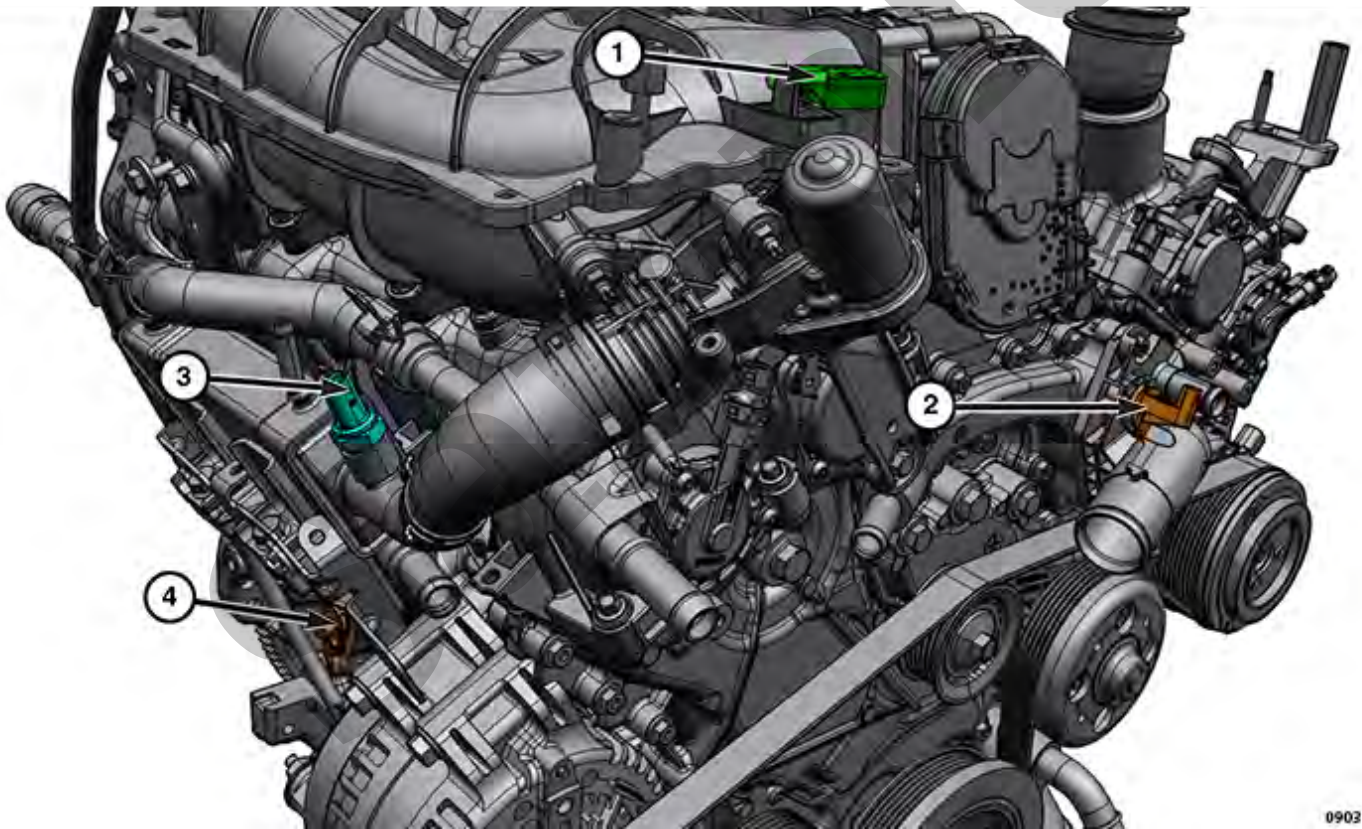
CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Map Sensor	-	-
2	Coolant Temperature Sensor	1/4 Turn to Engage	-
3	EGR Temperature Sensor	37 N·m (27 Ft. Lbs.)	-
4	Crankshaft Position (CKP) Sensor Bolt	10 N·m (89 In. Lbs.)	-

Before tightening the CKP sensor mounting bolt, be sure the sensor is completely flush to the cylinder block. If the CKP sensor is not flush, damage to the sensor mounting tang may result.

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Clean out machined hole in engine block.
- Lubricate the Crankshaft Position (CKP) sensor O-ring with clean engine oil.
- The Cam/Crank Variation Relearn procedure must be performed using the scan tool anytime there has been a repair/replacement made to a powertrain system, for example: flywheel, valvetrain, camshaft and/or crankshaft sensors or components.

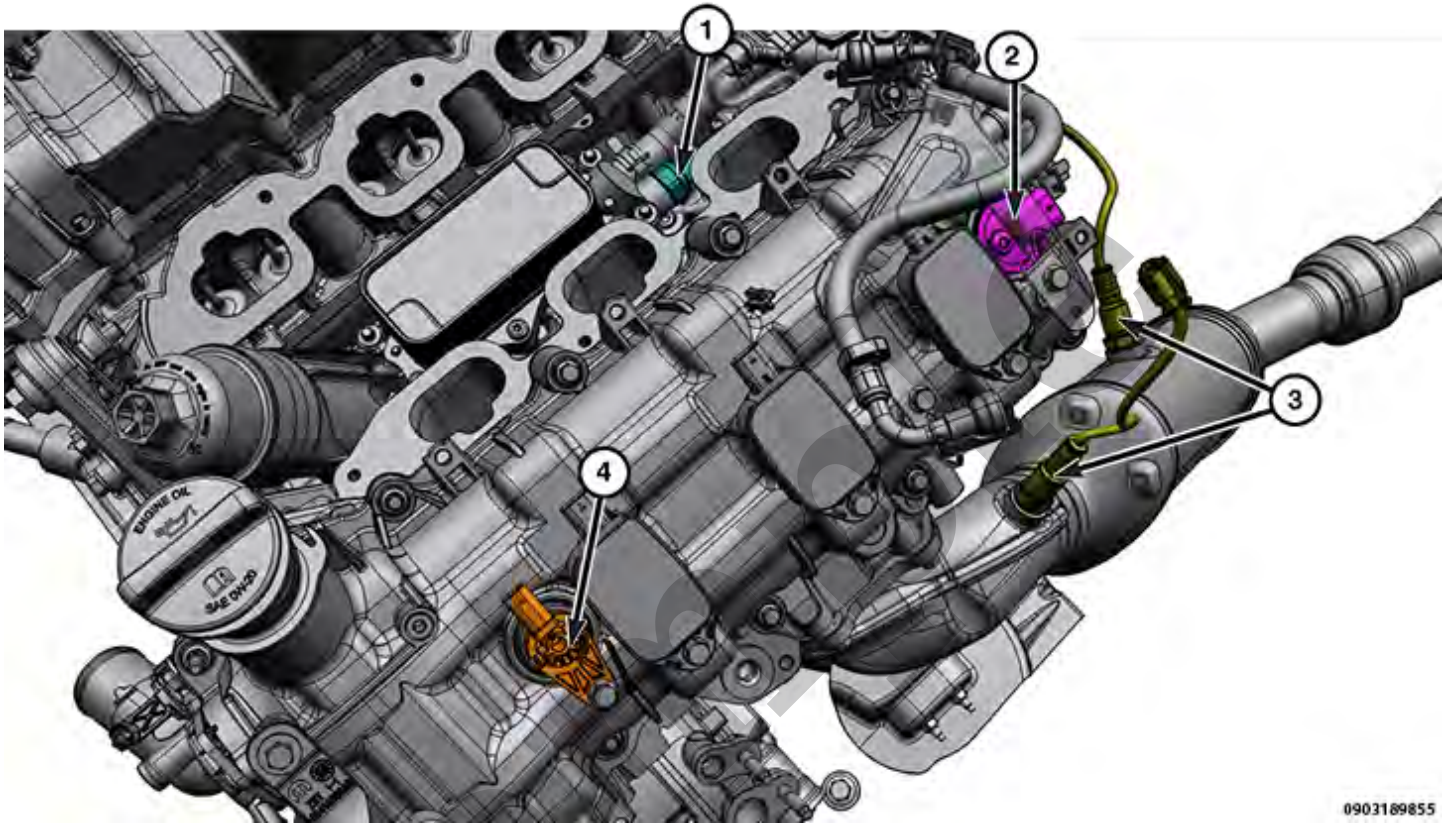
TORQUE SPECIFICATIONS - ENGINE SENSORS



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2	Coolant Temperature Sensor	1/4 Turn to Engage	-
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4	Crankshaft Position (CKP) Sensor Bolt	10 N·m (89 In. Lbs.)	-



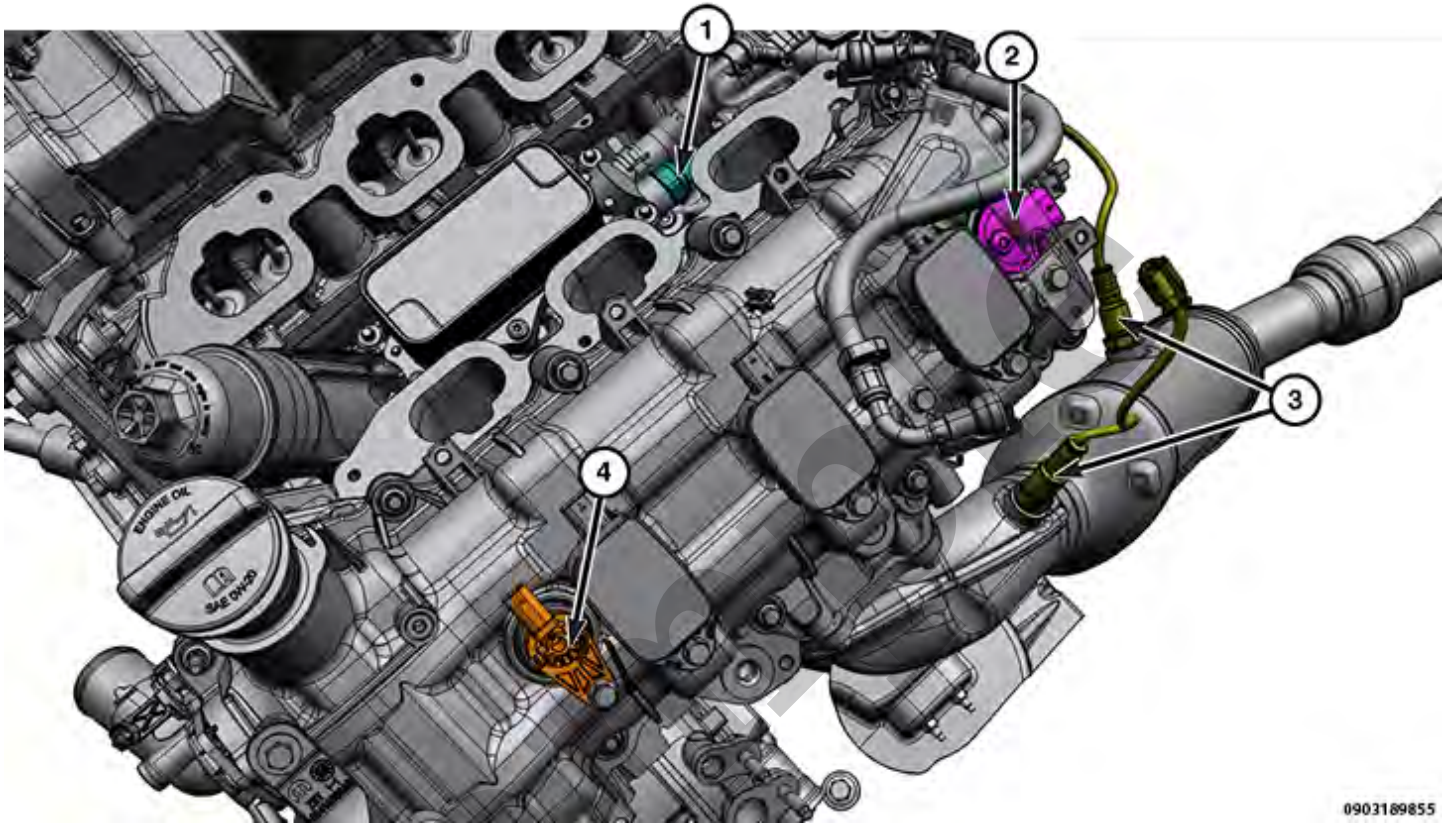
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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
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4	Oil Control Valve	8 N·m (71 In. Lbs.)	-
-	Oil Temperature Sensor to Cylinder Head	11 N·m (8 Ft. Lbs.)	-

Refer To List:

3	EGR Temperature Sensor	37 N·m (27 Ft. Lbs.)	-
4	Crankshaft Position (CKP) Sensor Bolt	10 N·m (89 In. Lbs.)	-

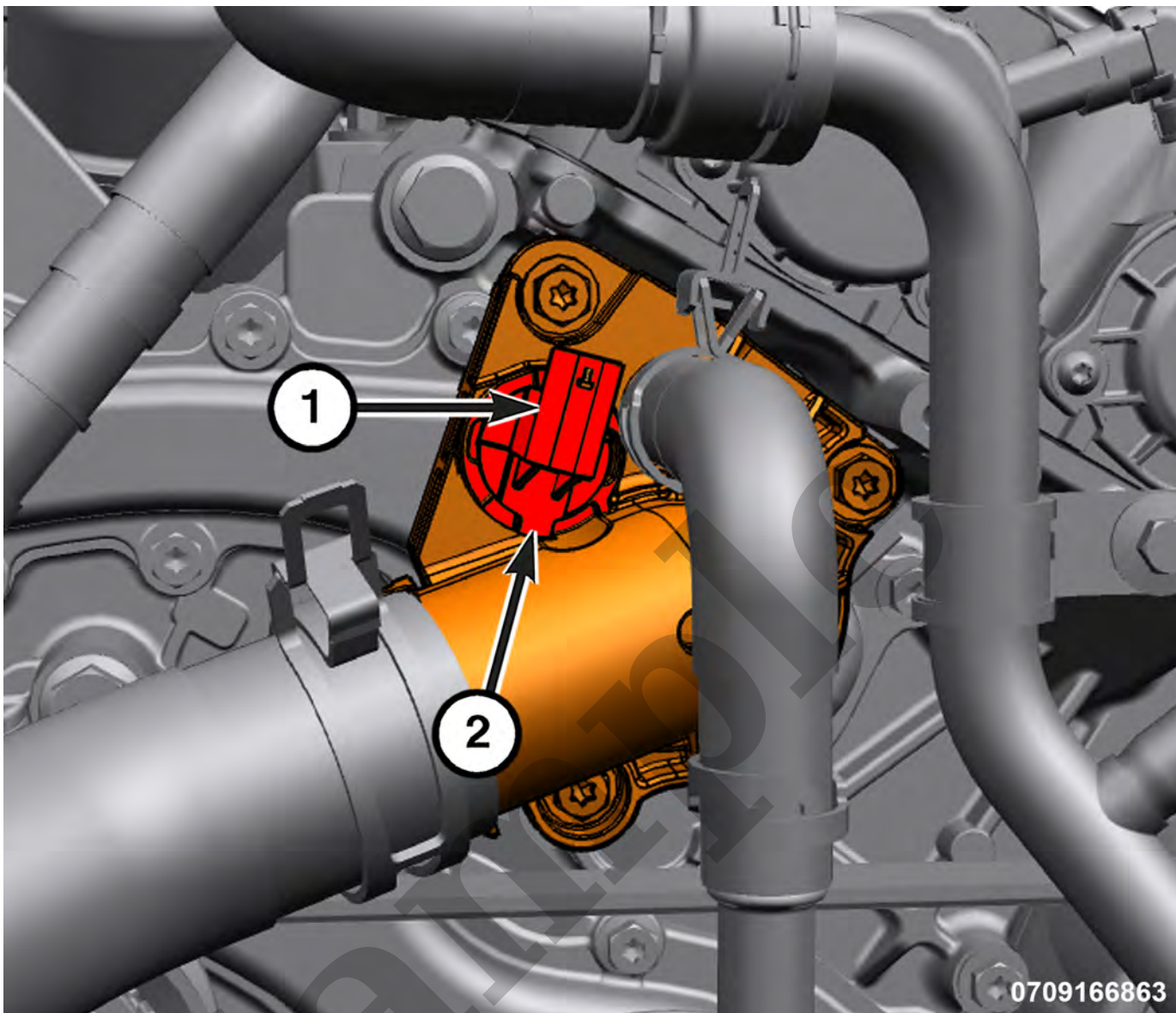


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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
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-	Oil Temperature Sensor to Cylinder Head	11 N·m (8 Ft. Lbs.)	-

Refer To List:



1 - ECT Sensor

2 - Lock Tab

6. Release the lock tab on the bottom of the ECT sensor, then rotate the ECT sensor $\frac{1}{4}$ turn counter clockwise and remove it.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Install the Engine Coolant Temperature (ECT) sensor and turn it clockwise $\frac{1}{4}$ turn to engage the lock tab.

Refer To List: