

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.

2011 JEEP Wrangler Unlimited OEM Service and Repair Workshop Manual

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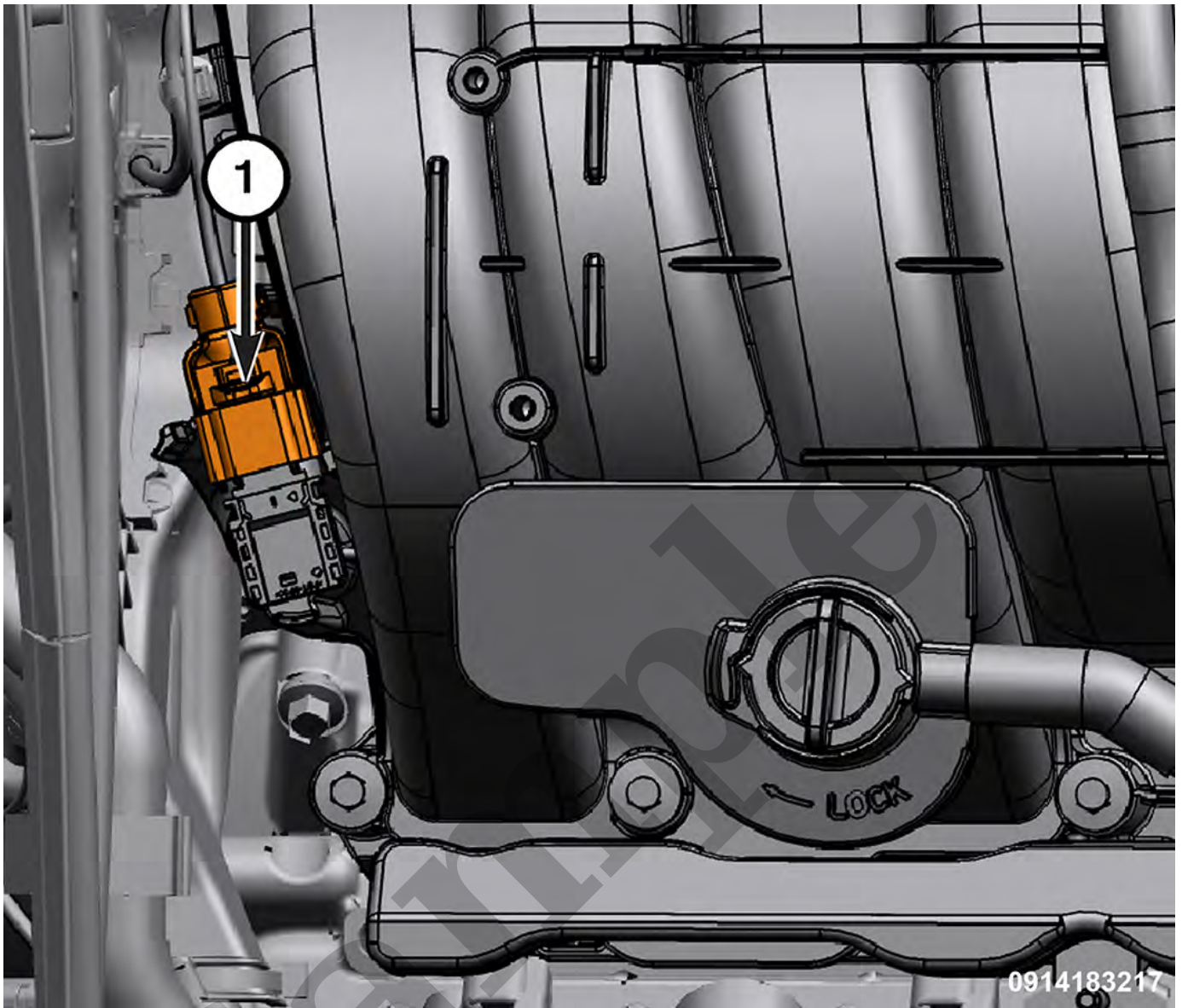
YOUR CURRENT VEHICLE

Intake Manifold

INTAKE MANIFOLD

REMOVAL

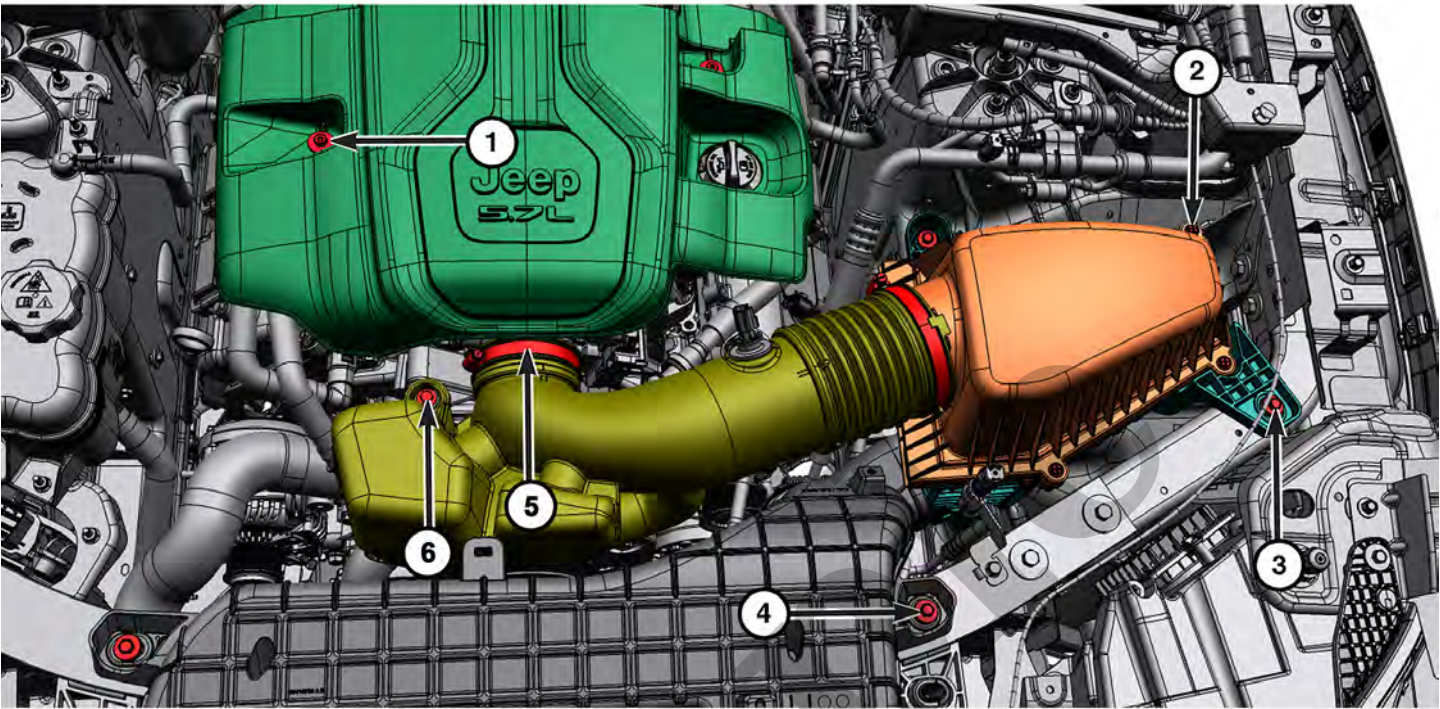
1. Perform the fuel system pressure release procedure ([Refer to 09 - Engine/Fuel System/Standard Procedure](#))([Refer To List 1](#)).
2. Remove the intake air tube ([Refer to Engine/Air Intake System/TUBE, Intake Air/Removal and Installation](#))([Refer To List 2](#)).
3. Remove the clean air hose ([Refer to Engine/Air Intake System/HOSE, Clean Air/Removal and Installation](#))([Refer To List 3](#)).
4. Remove the engine cover.



1 - Manifold Air Pressure (MAP) Sensor Wire Harness Connector

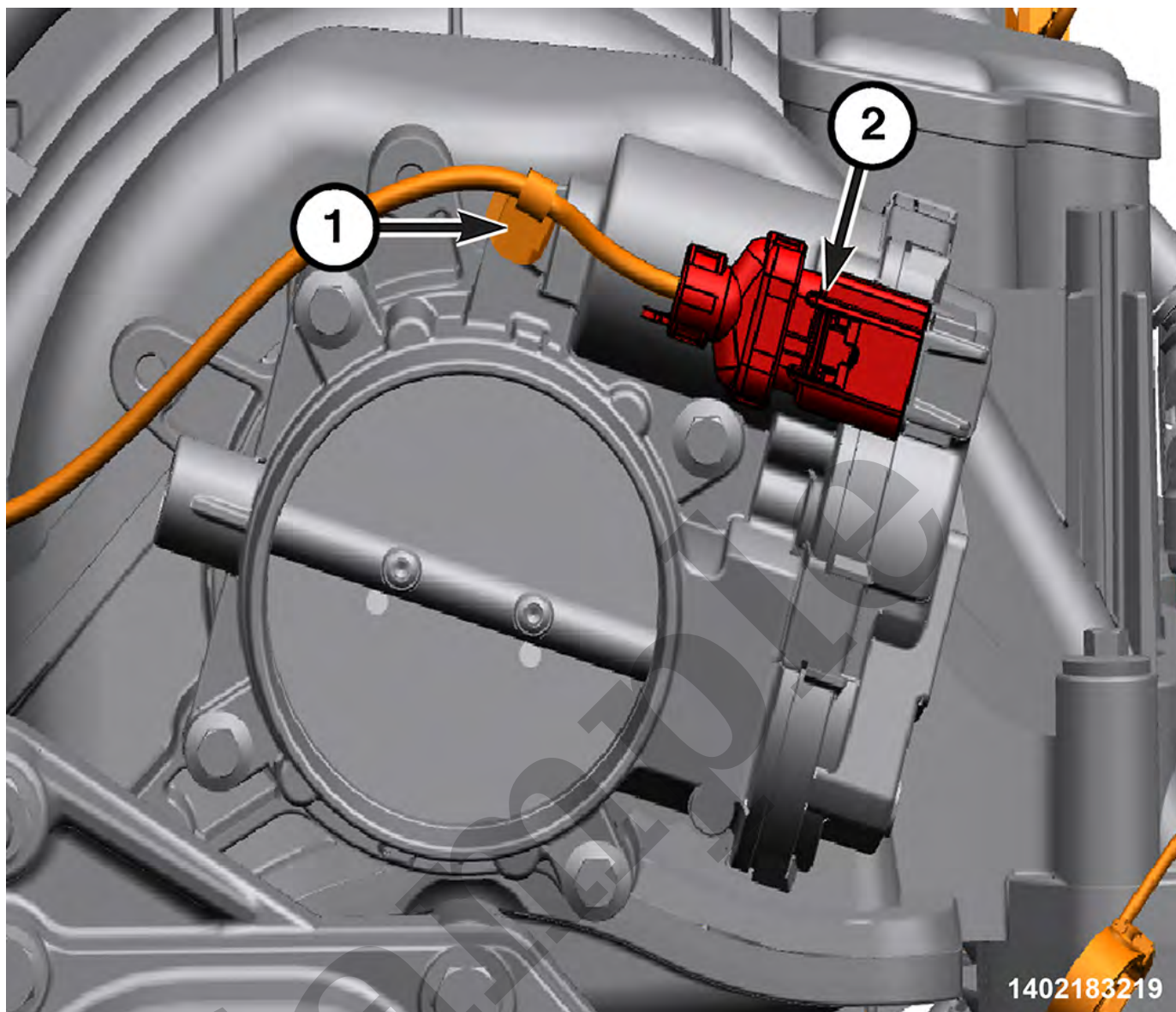
8. Disconnect the MAP sensor wire harness connector located at the rear of the intake manifold.

TORQUE SPECIFICATIONS - AIR INTAKE



0903189436

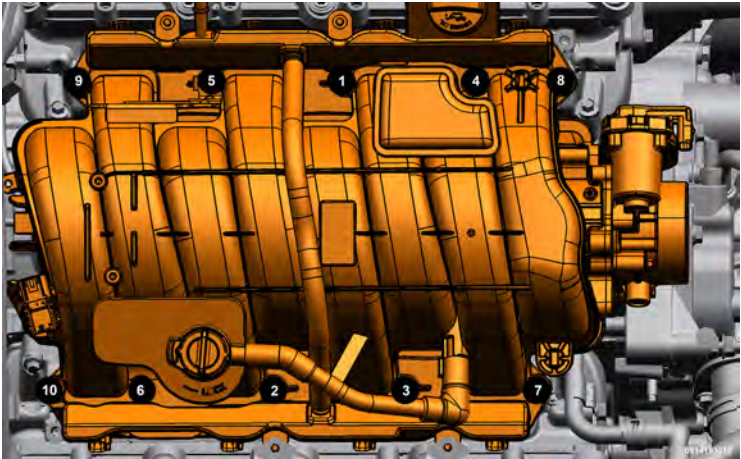
CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Engine Cover Nut	5 N·m (44 In. Lbs.)	–
2	Air Cleaner Body Cover Bolts	4 N·m (35 In. Lbs.)	–
3	Air Cleaner Body Bracket to Frame Bolts	7 N·m (62 In. Lbs.)	–
4	Air Intake to Upper Radiator Support	7 N·m (62 In. Lbs.)	–
5	Clean Air Hose Clamps	4 N·m (35 In. Lbs.)	–
6	Clean Air Hose Bolt	7 N·m (62 In. Lbs.)	–



1 - Wire Harness Retainer

2 - Throttle Body Wire Harness Connector

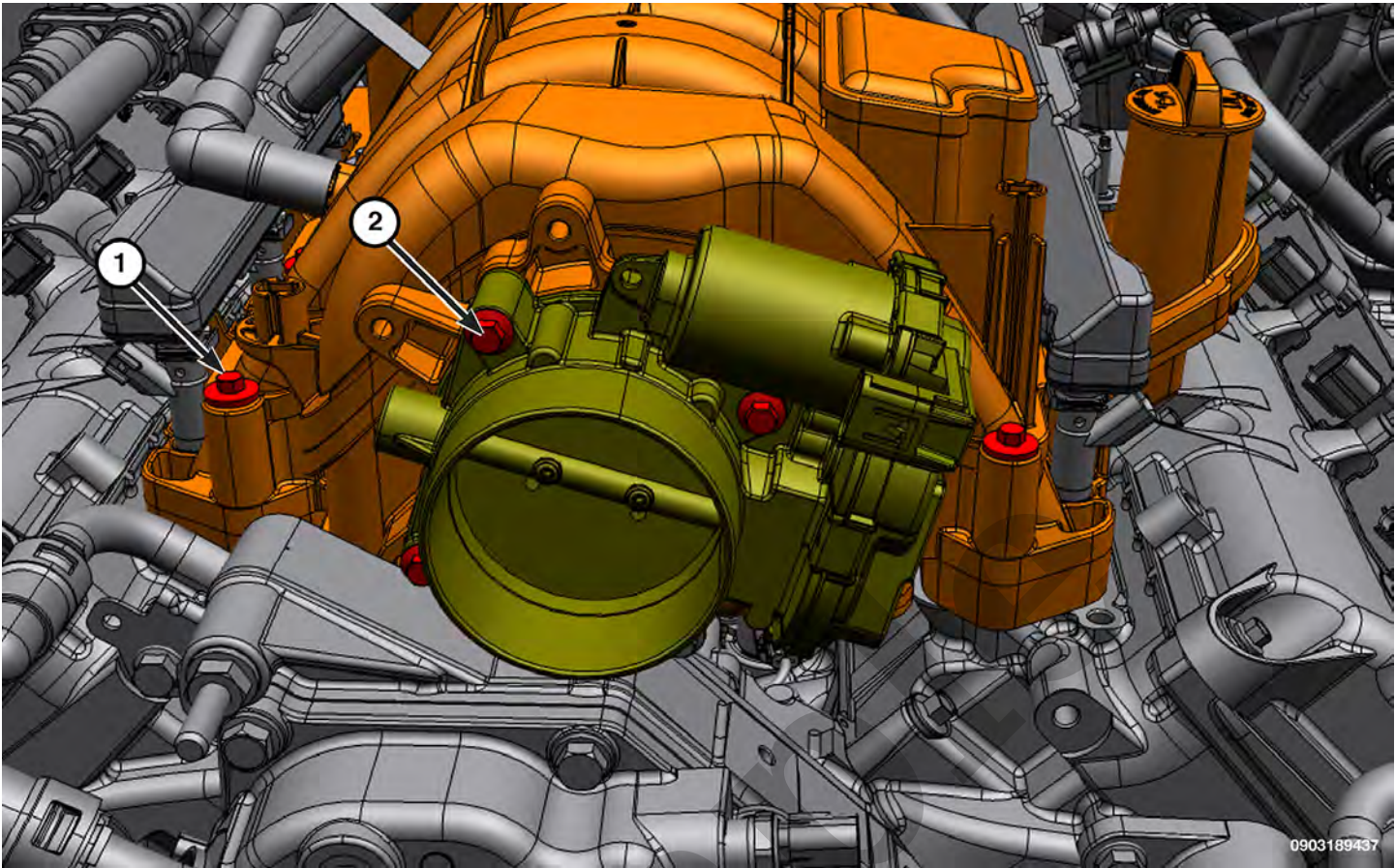
2. Disconnect throttle body wire harness connector and detach the wire harness retainer.

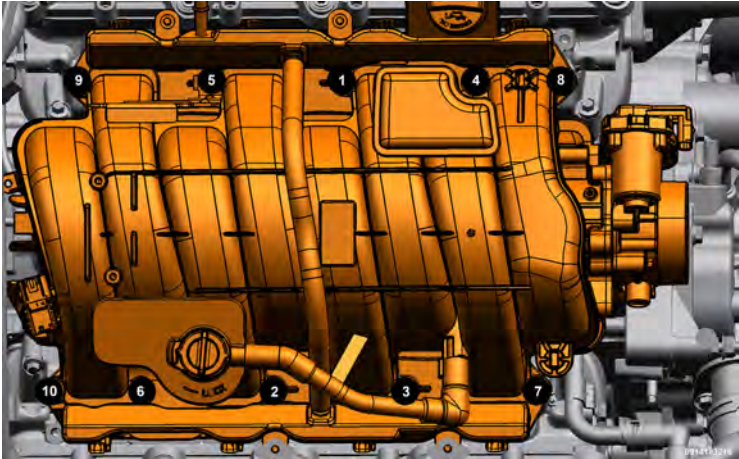
			
2	Throttle Body Bolts	5 N·m (44 In. Lbs.)	Tighten bolts in a crisscross sequence

Refer To List:

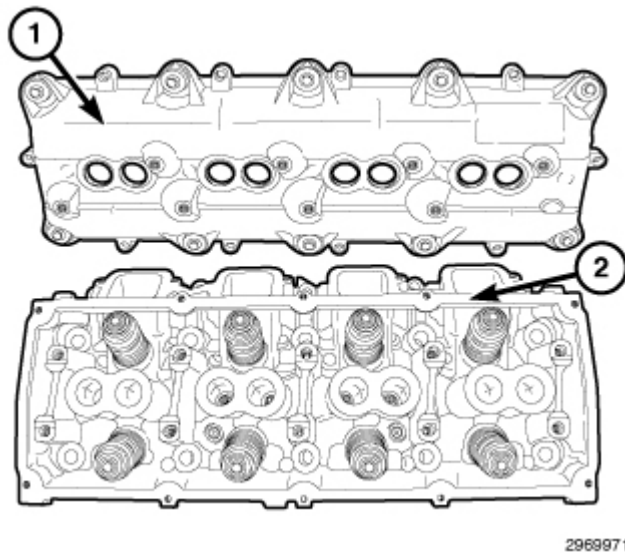
List 1

- [09 - Engine, 2.0L / Air Intake System / HOSE, Clean Air / Removal and Installation](#)
- [09 - Engine, 5.7L / Air Intake System / HOSE, Clean Air / Removal and Installation](#)



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Intake Manifold Bolts	12 N·m (9 ft. Lbs.)	<p>Tightening Sequence</p> 
2	Throttle Body Bolts	5 N·m (44 In. Lbs.)	Tighten bolts in a crisscross sequence

8. Using the sequence shown, remove the cylinder head cover retaining bolts.



1 - Cylinder Head Cover

2 - Cylinder Head

9. Remove the cylinder head cover.

10. Clean the sealing surface of the cylinder head.

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.

- The cylinder head cover gasket may be used again, provided no cuts, tears, or deformation have occurred.
- Clean the cylinder head cover and the sealing surface of the cylinder head. Inspect and replace gasket if necessary.

CAUTION

Do not use harsh cleaners to clean the cylinder head covers. Severe damage to covers may occur.

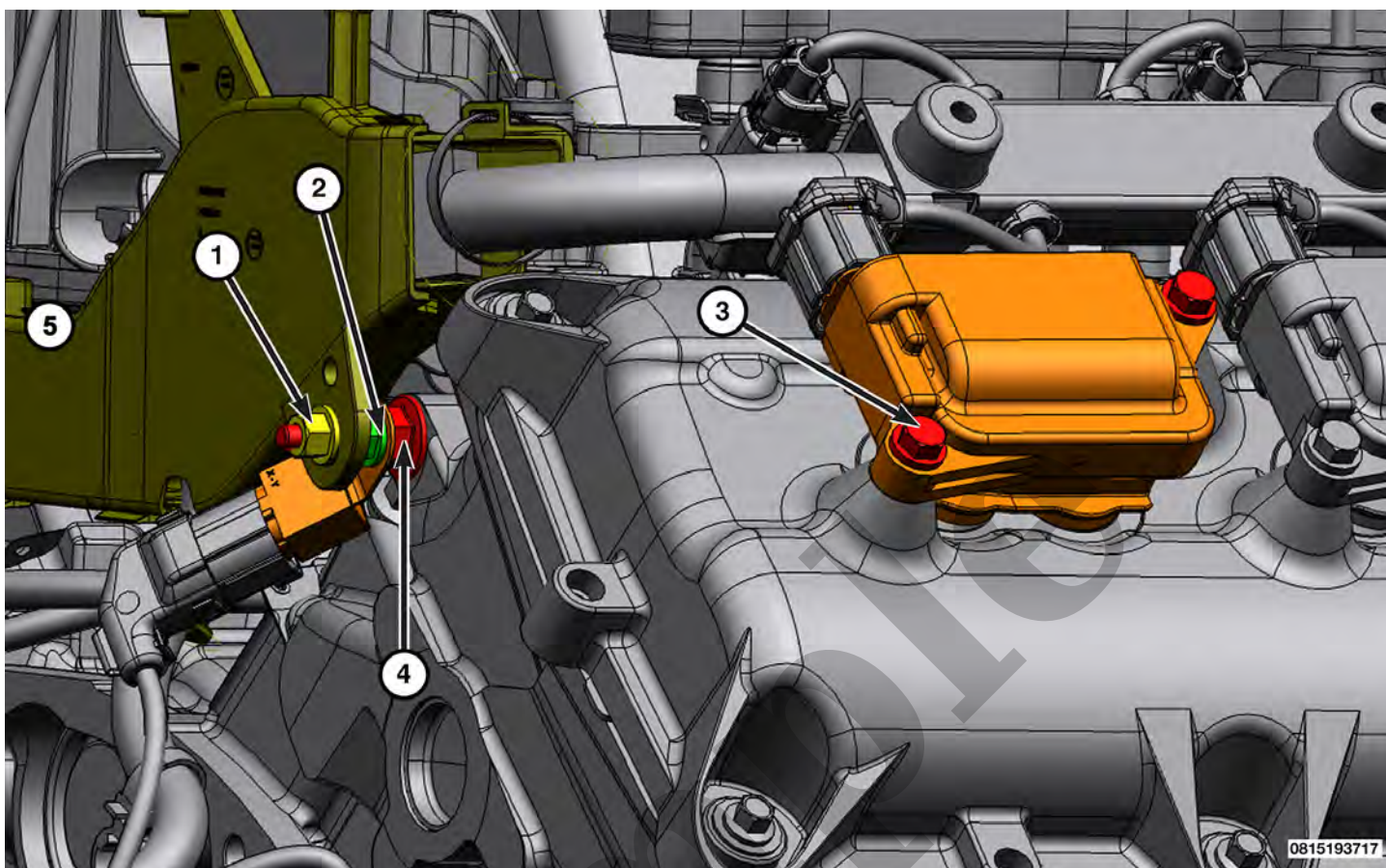
- The cylinder head cover bolts must be tightened in the sequence shown in the torque table below.

CAUTION

Do not allow other components including the wire harness to rest on or against the engine cylinder

CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1 2	Oil Pan to Engine Block M10 Bolts Oil Pan to Engine Block M6 Bolts	54 N·m (40 Ft. Lbs.) 14 N·m (10 Ft. Lbs.)	<p>Tightening Sequence</p>
3	Oil Level Indicator Tube Nut	8 N·m (71 In. Lbs.)	–
4	Oil Filter Adapter to Engine Block Bolts	12 N·m (9 Ft. Lbs.)	–
5	Oil Filter Adapter to Oil Filter Housing	12 N·m (9 Ft. Lbs.)	–
6	Oil Filter Housing to Oil Pan Bolts	25 N·m (18 Ft. Lbs.)	–
7	Oil Pan Drain Plug	34 N·m (25 Ft. Lbs.)	–
8	Oil Pan to Transmission Bolts	54 N·m (40 Ft. Lbs.)	–

TORQUE SPECIFICATIONS - IGNITION - 5.7L



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Engine Harness (Trough) Nuts	11 N·m (8 Ft. Lbs.)	–
2	Ignition Capacitor Nut	7 N·m (62 In. Lbs.)	–
3	Ignition Coil Bolts	9 N·m (80In. Lbs.)	–
4	Capacitor to Cylinder Block Stud Bolt	28 N·m (21Ft. Lbs.)	–
–	Spark Plugs	27 N·m (20Ft. Lbs.)	–

TORQUE SPECIFICATIONS - CHARGING SYSTEM

CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Generator B+ Nut	18 N·m (13Ft. Lbs.)	–