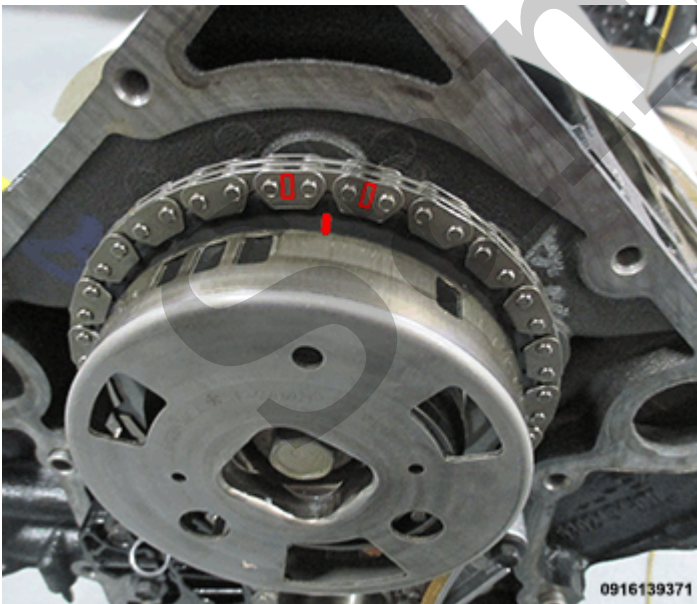
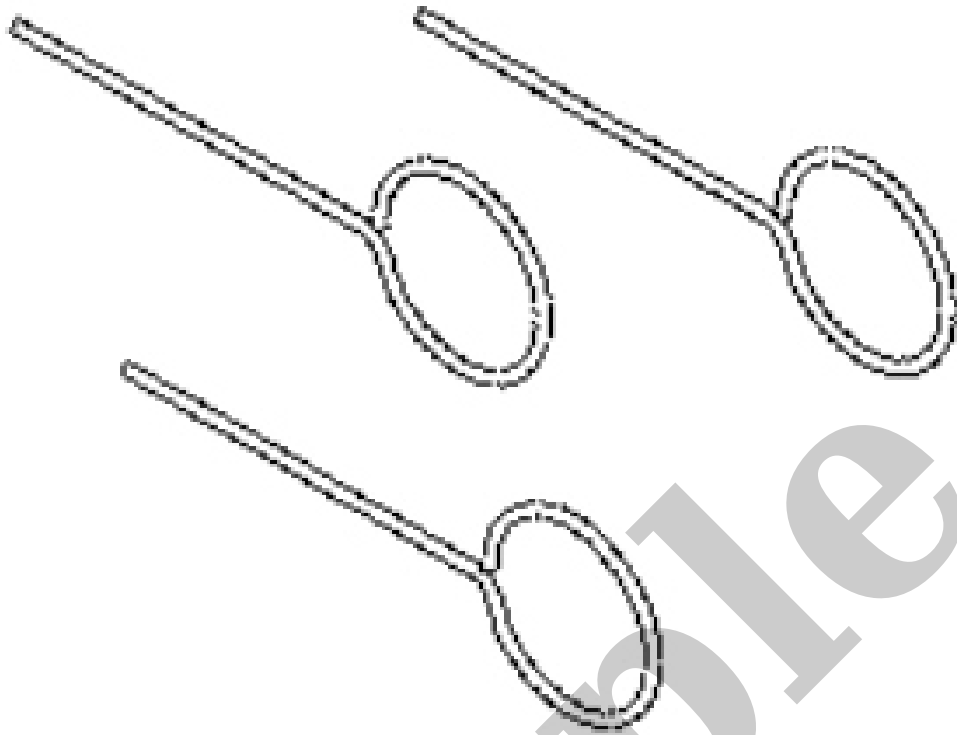


# Your Ultimate Source for OEM Repair Manuals

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.

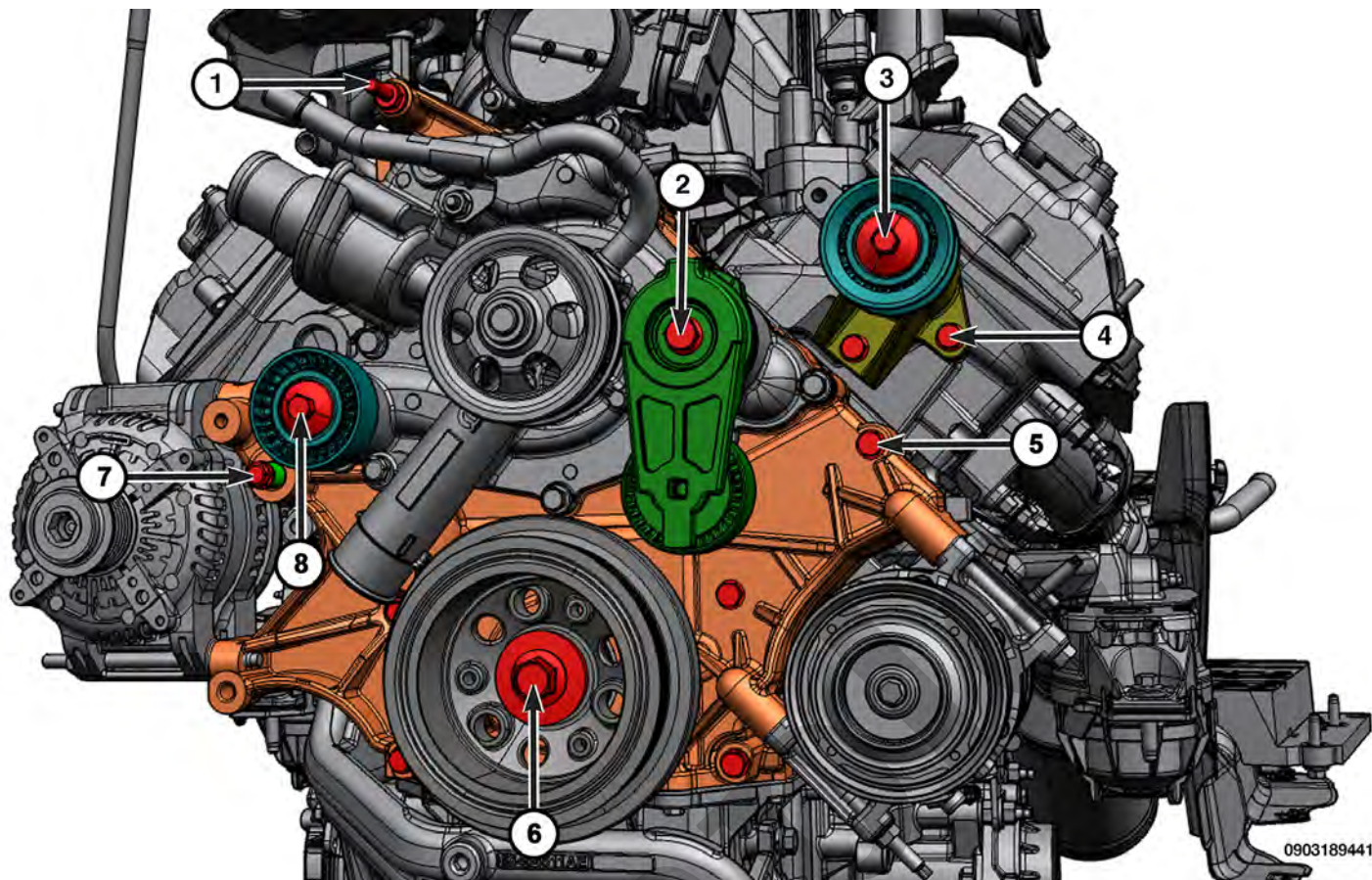
## 2013 JEEP Grand Cherokee SRT-8 OEM Service and Repair Workshop Manual

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Camshaft Timing Mark

9. The timing mark located on the camshaft phaser must be properly centered between the dual marks on the timing chain while at the 12 O'clock position.



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Timing Chain Cover Stud Bolts	28 N·m (21 Ft. Lbs.)	–
2	Belt Tensioner Bolt	55 N·m (41 Ft. Lbs.)	–
3	Idler Pulley Bolt	29 N·m (21 Ft. Lbs.)	–
4	Idler Pulley Bracket Bolts	29 N·m (21 Ft. Lbs.)	–
5	Timing Chain Cover Bolts	28 N·m (21 Ft. Lbs.)	–
6	Vibration Damper Bolt	185 N·m (136 Ft. Lbs.)	–
7	Timing Chain Cover Slide Bushing Bolt	25 N·m (18 Ft. Lbs.)	–
8	Idler Pulley Bolt	55 N·m (41 Ft. Lbs.)	–

## TORQUE SPECIFICATIONS - LUBRICATION

YOUR CURRENT VEHICLE

## Timing Cover

### TIMING COVER

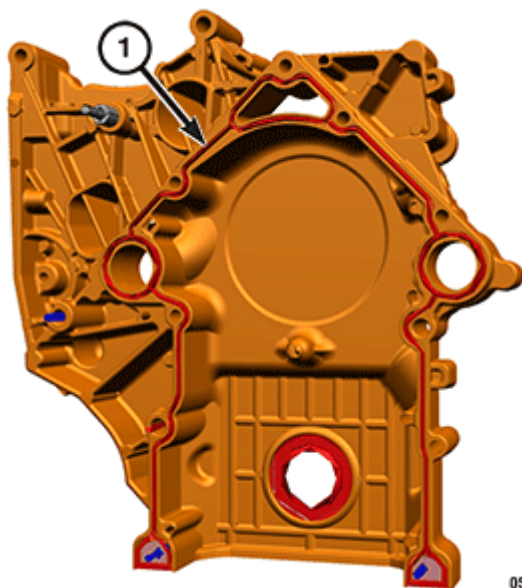
#### REMOVAL

1. Drain the cooling system ([Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure](#))(Refer To [List 1](#)).
2. Drain the engine oil ([Refer to Engine/Lubrication/Standard Procedure](#))(Refer To [List 2](#)).
3. Remove the oil filter adapter ([Refer to Engine/Lubrication/ADAPTER, Oil Filter/Removal and Installation](#)).

12. Verify that timing cover slide bushing is located in timing cover.

## 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.



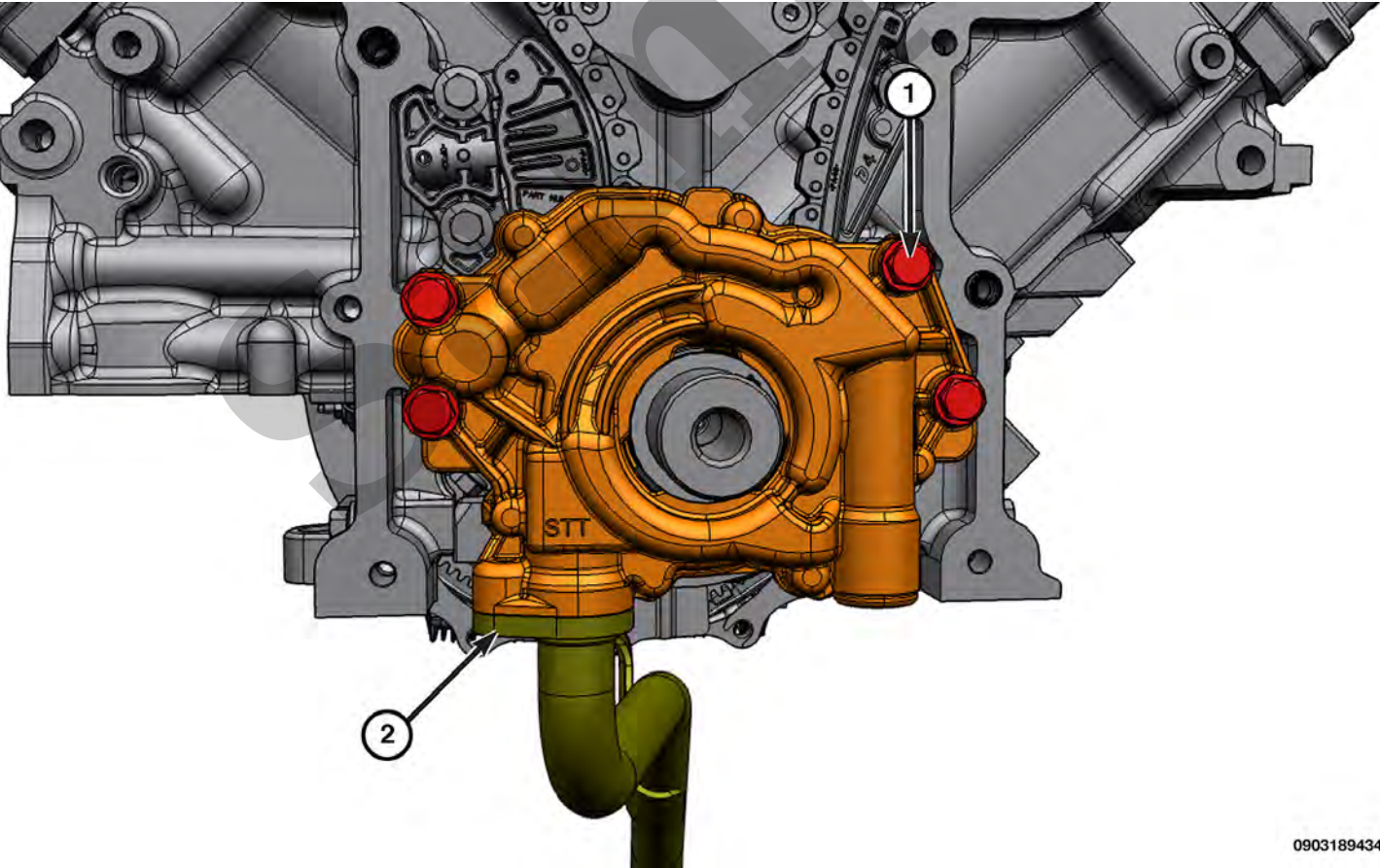
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1 - Timing Cover Gasket

- Clean the timing cover and block surface and install the new timing cover gasket as shown.

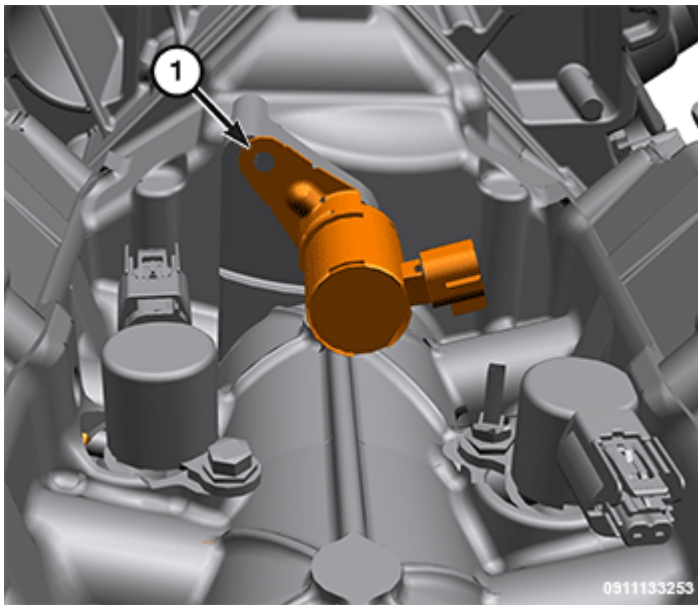


4	Oil Filter Adapter to Engine Block Bolts	12 N·m (9 Ft. Lbs.)	-
5	Oil Filter Adapter to Oil Filter Housing	12 N·m (9 Ft. Lbs.)	-
6	Oil Filter Housing to Oil Pan Bolts	25 N·m (18 Ft. Lbs.)	-
7	Oil Pan Drain Plug	34 N·m (25 Ft. Lbs.)	-
8	Oil Pan to Transmission Bolts	54 N·m (40 Ft. Lbs.)	-



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
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1 - VVTS

#### NOTE

To remove the VVTS, the engine must be at room temperature.

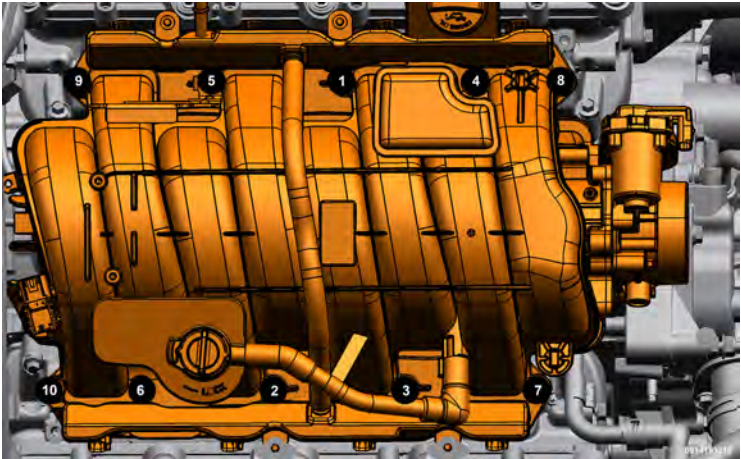
4. Rotate and pull the VVTS from the engine block.

#### 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.

- Make sure that the O-ring is fully seated into the cylinder block.

#### TORQUE SPECIFICATIONS - VALVE TIMING

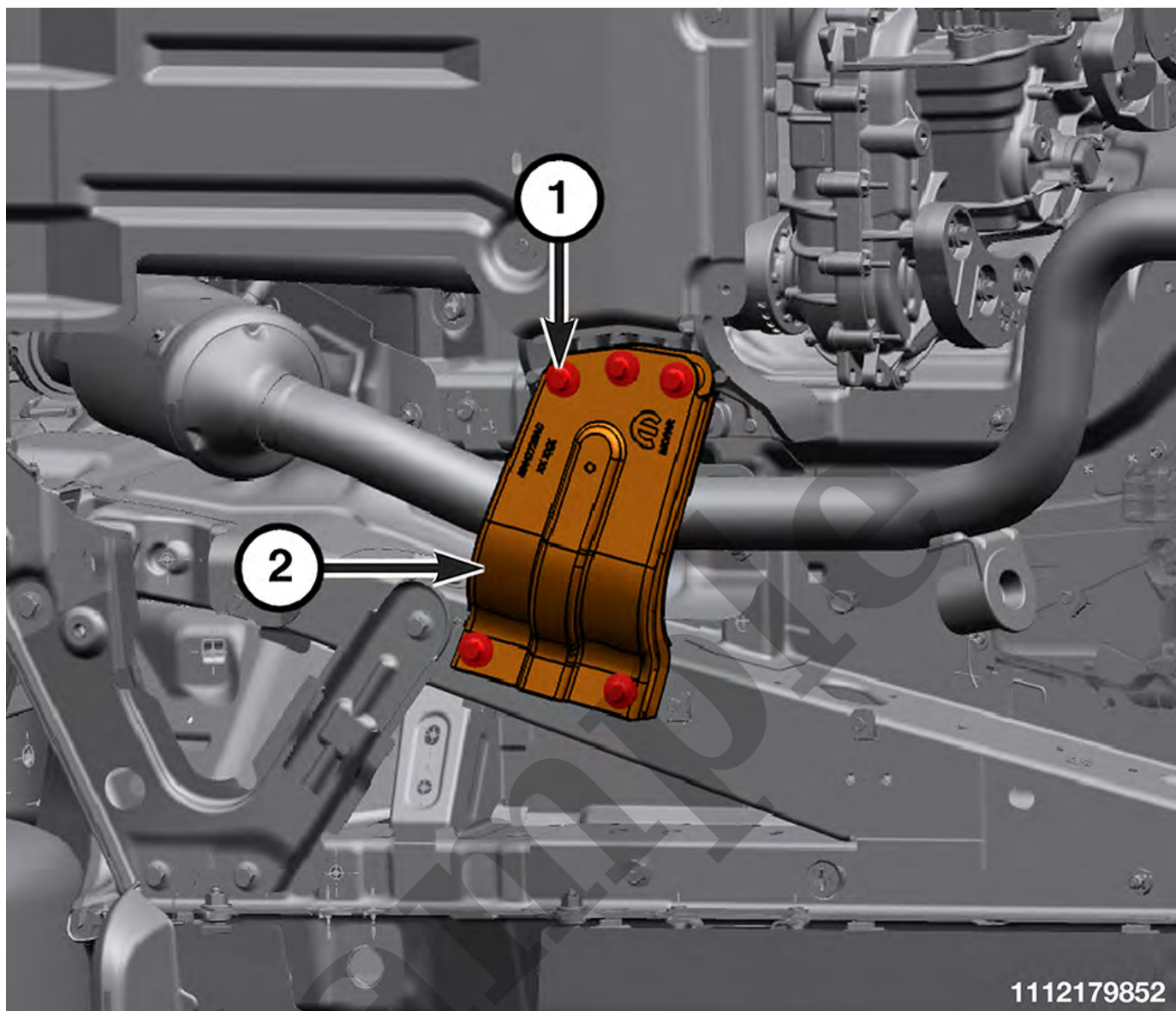
			
2	Throttle Body Bolts	5 N·m (44 In. Lbs.)	Tighten bolts in a crisscross sequence

Refer To List:

List 1

- [09 - Engine, 2.0L / Air Intake System / MANIFOLD, Intake / Removal and Installation](#)
- [09 - Engine, 3.6L / Air Intake System / MANIFOLD, Intake / Removal and Installation](#)
- [09 - Engine, 5.7L / Air Intake System / MANIFOLD, Intake / Removal and Installation](#)





1 - Outer Bolts

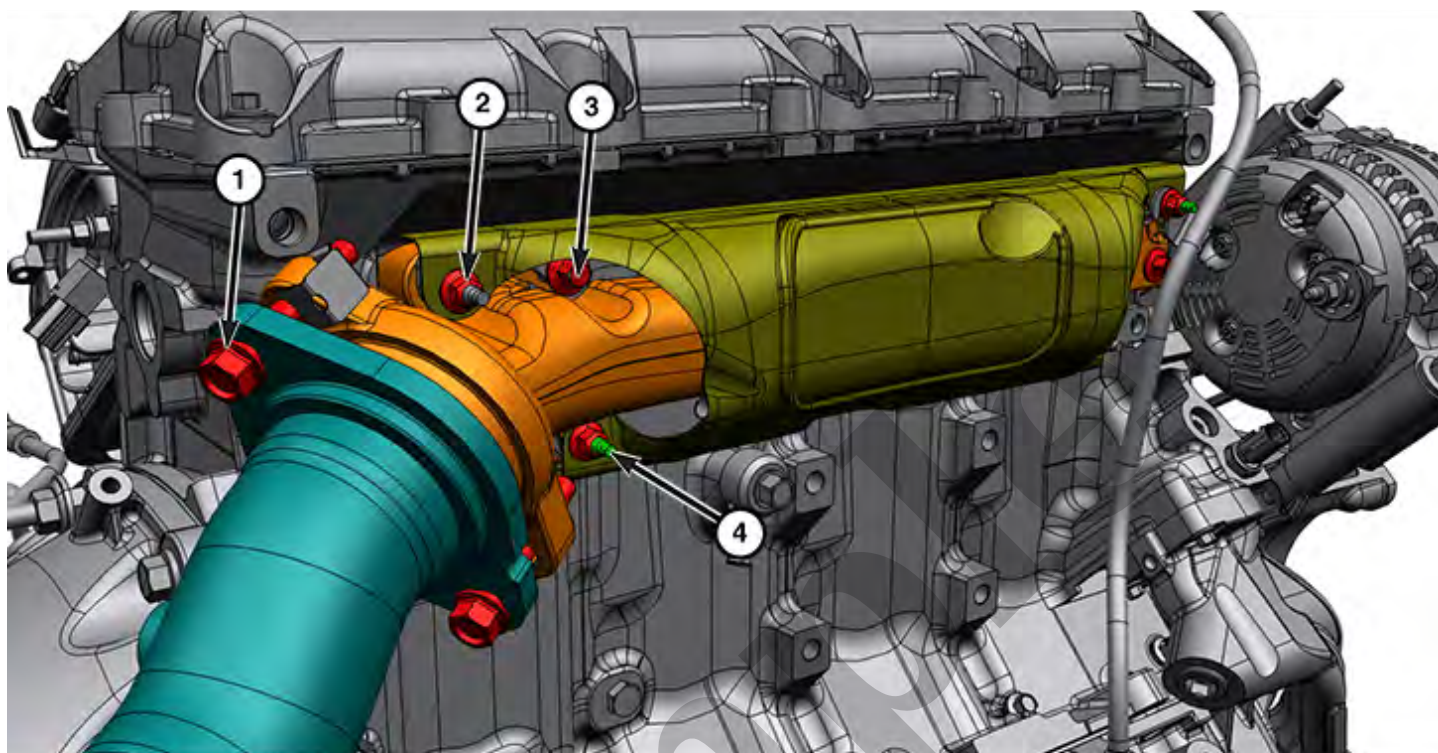
2 - Inner Bolts

3 - Impact Brace

3. Remove the impact bracket inner bolts, outer bolts, and the impact bracket.

- Start the engine and inspect for exhaust leaks. Repair exhaust leaks as necessary.

## TORQUE SPECIFICATION - EXHAUST SYSTEM - 5.7L



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Catalytic Converter To Manifold Bolts	<b>30 N·m (22 Ft. Lbs.)</b>	-
2	Exhaust Manifold Heat Shield Nuts	<b>10 N·m (7 Ft. Lbs.)</b>	-
3	Exhaust Manifold Bolts	<b>25 N·m (18 Ft. Lbs.)</b>	Tightening Sequence - Left Manifold