

Your Ultimate Source for OEM Repair Manuals

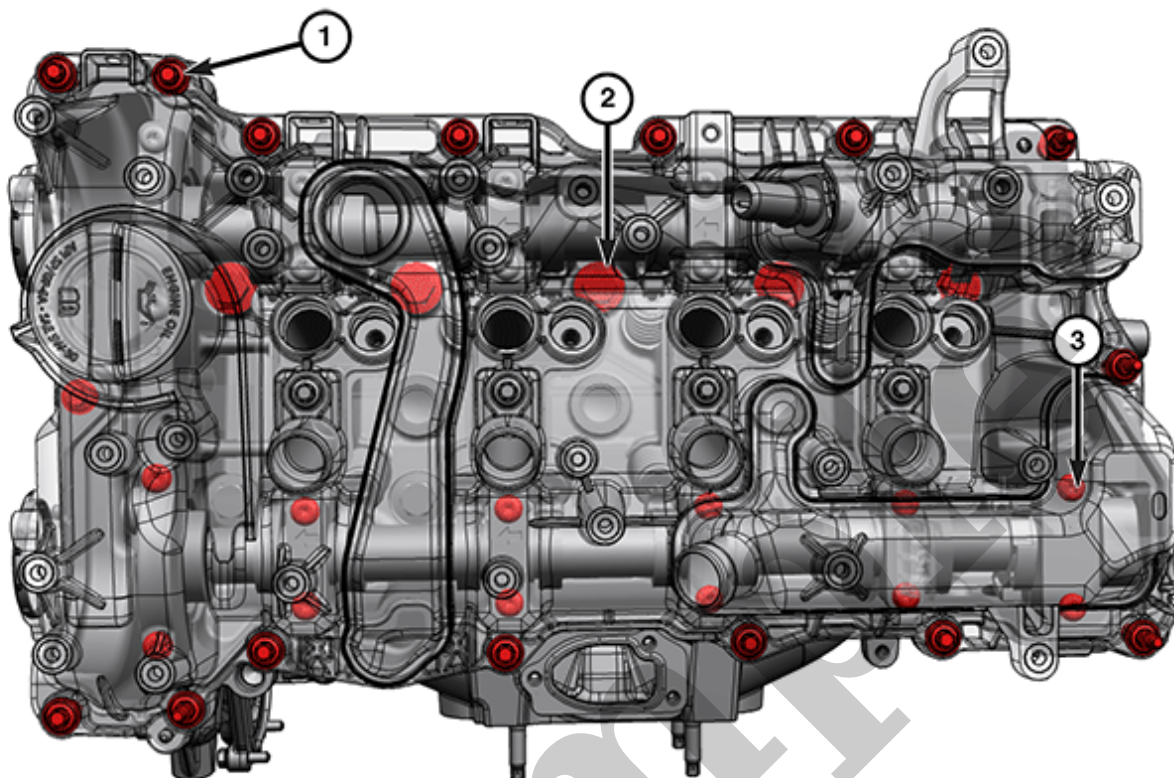
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2008 JEEP Grand Cherokee OEM Service and Repair Workshop Manual

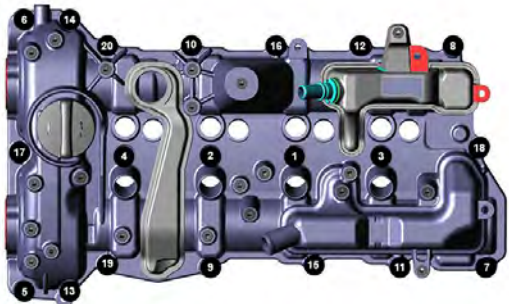
[Go to manual page](#)

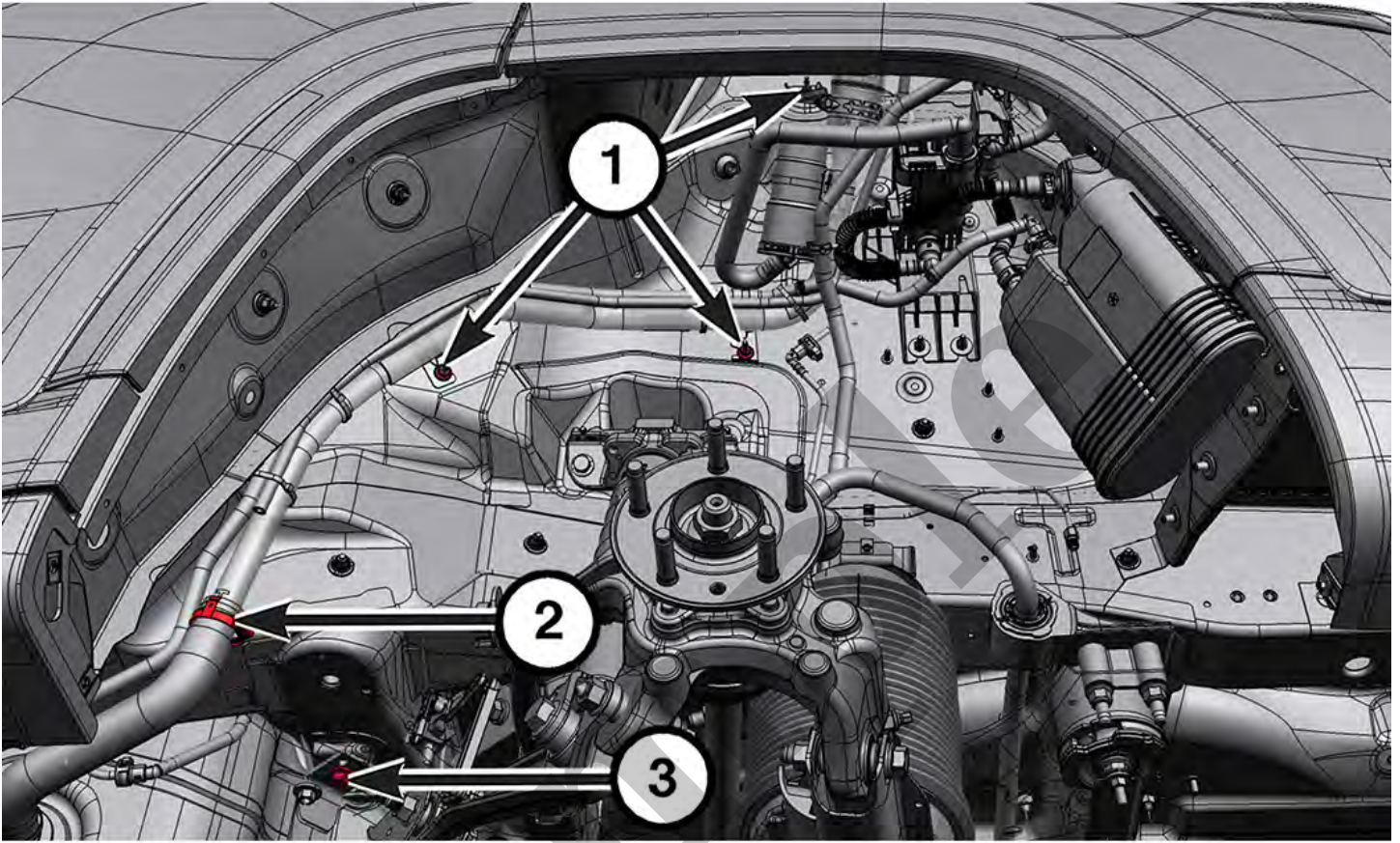
40. Start and warm the engine. Check for coolant leaks (Refer to Engine/Cooling Systems/Engine Cooling/Diagnosis and Testing)(Refer To List 11).

TORQUE SPECIFICATIONS - CYLINDER HEAD



0903190375

CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Cylinder Head Cover M6 Bolts	10 N·m (89 In. Lbs.)	<p>Tightening Sequence</p> 
2	Cylinder Head M11 Inner Bolts	Torque Procedure:	Tightening Sequence

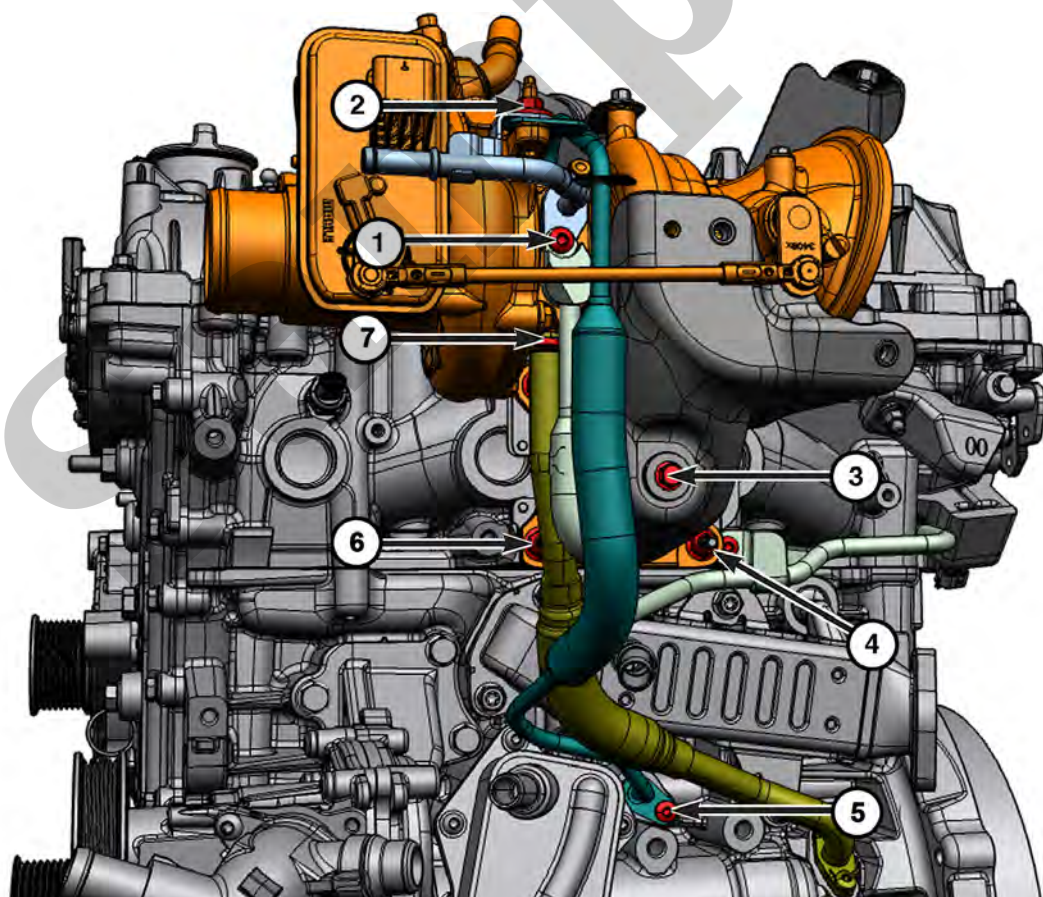


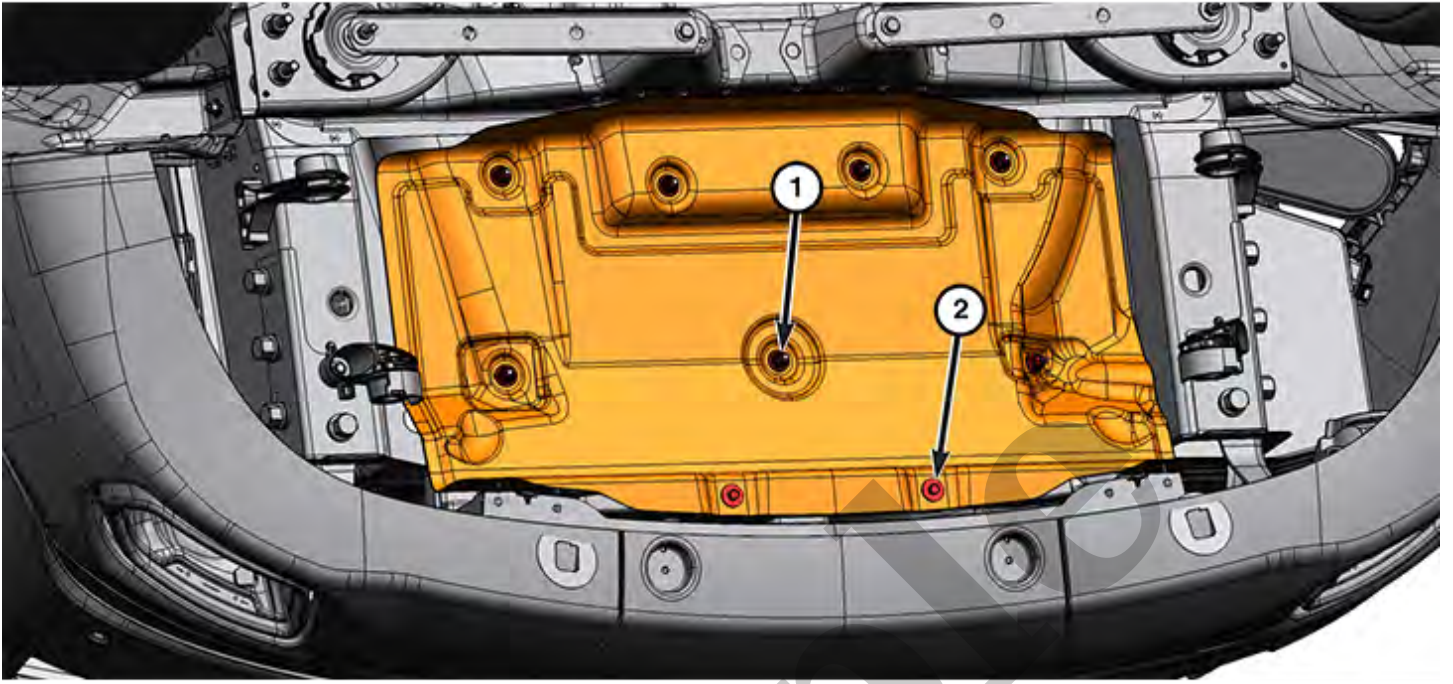
1401188212

CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Fuel Filler Tube Mounting Nut(s)	8 N·m (71 In. Lbs.)	-
2	Fuel Filler Tube Clamp	3 N·m (30 In. Lbs.)	-
3	Fuel Tank Strap Bolts	55 N·m (41 Ft. Lbs.)	-

1	Side Engine Cover M6 Bolts	5 N·m (44 In. Lbs.)	-
2	Top Engine Cover M6 Bolts	5 N·m (44 In. Lbs.)	-
3	Clean Air Tube to Turbo Charger	7 N·m (53 In. Lbs.)	-
4	Air Cleaner Body Bolts to Frame Rail	7 N·m (53 In. Lbs.)	-
5	Clean Air Tube to Air Cleaner Cover	7 N·m (53 In. Lbs.)	-
6	Air Cleaner Body Bolts to Core Support	7 N·m (53 In. Lbs.)	-
7	Air Cleaner Cover Screws	4 N·m (34 In. Lbs.)	-
8	Air Intake Tube to Core Support	-	-

TORQUE SPECIFICATIONS - TURBOCHARGER



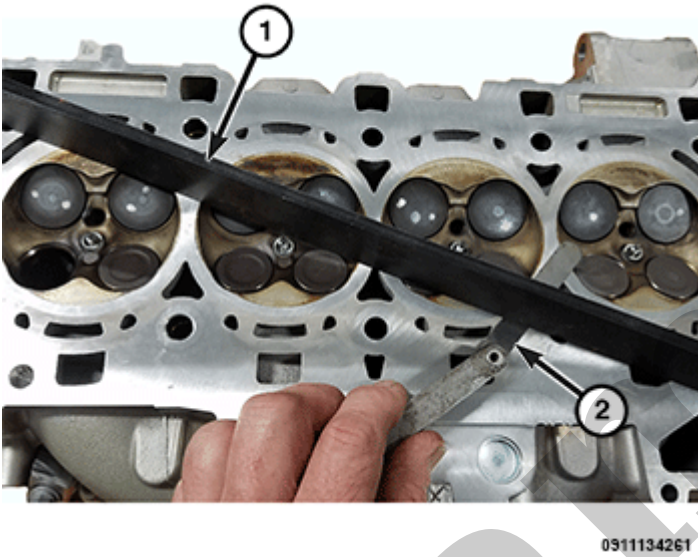


1105193575

CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Heat Shield Nuts (Plastic)	5 N·m (44 In. Lbs.)	-
2	Heat Shield Bolt	5 N·m (44 In. Lbs.)	-

Cylinder Head

CYLINDER HEAD



1 - Straight Edge

2 - Feeler Gauge

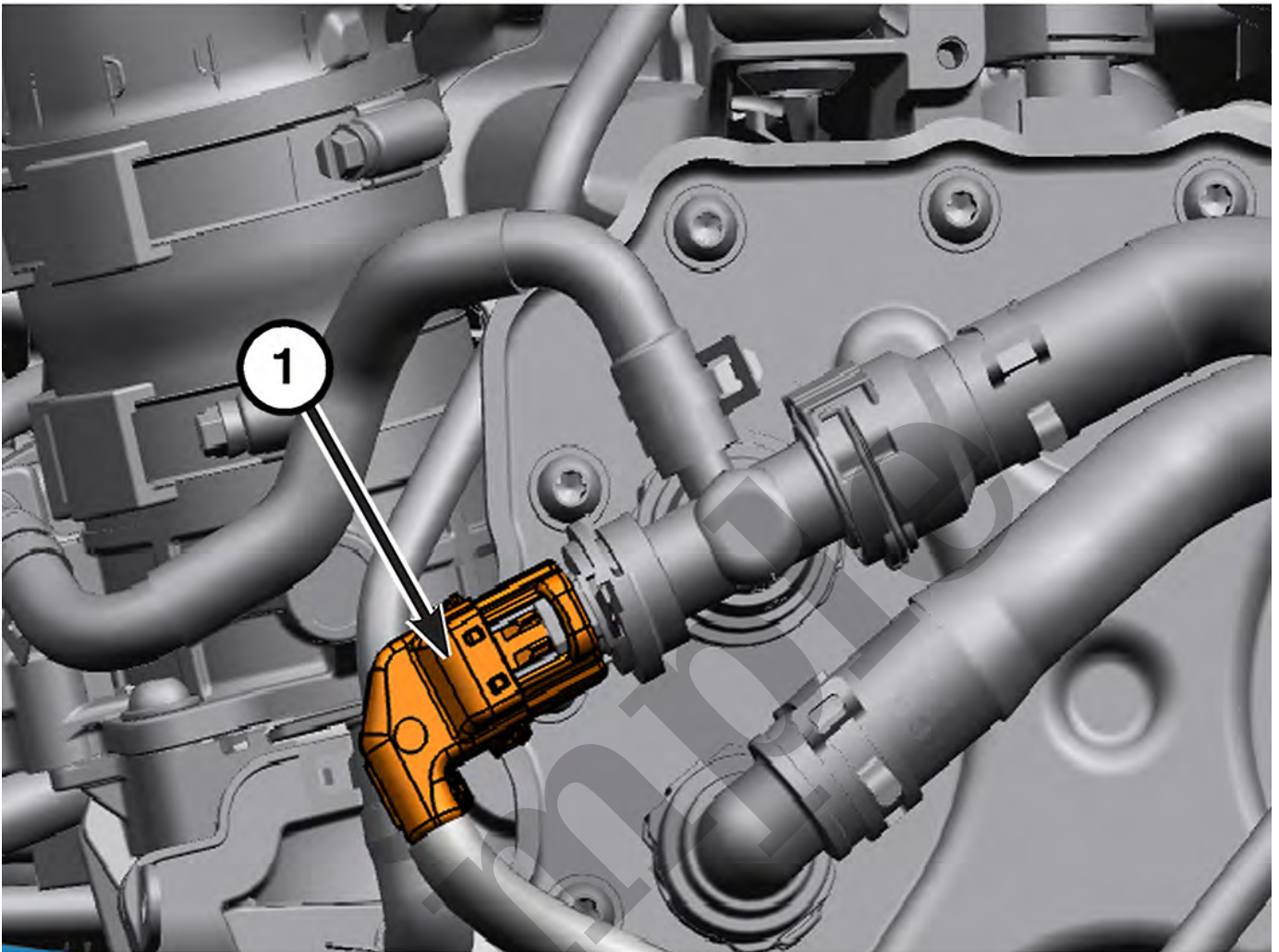
1. Check the cylinder head for warping with a straight edge and a feeler gauge.
2. The cylinder head must be flat within specification ([Refer to Engine - Specifications](#))([Refer To List 1](#)).
3. Remove any carbon or varnish deposits from inside of valve guides with a reliable guide cleaner.
4. Inspect the following components and verify that they are within specification ([Refer to Engine - Specifications](#))([Refer To List 1](#)):
 - Valve Springs
 - Valve Seats

Cylinder Head

CYLINDER HEAD

REMOVAL

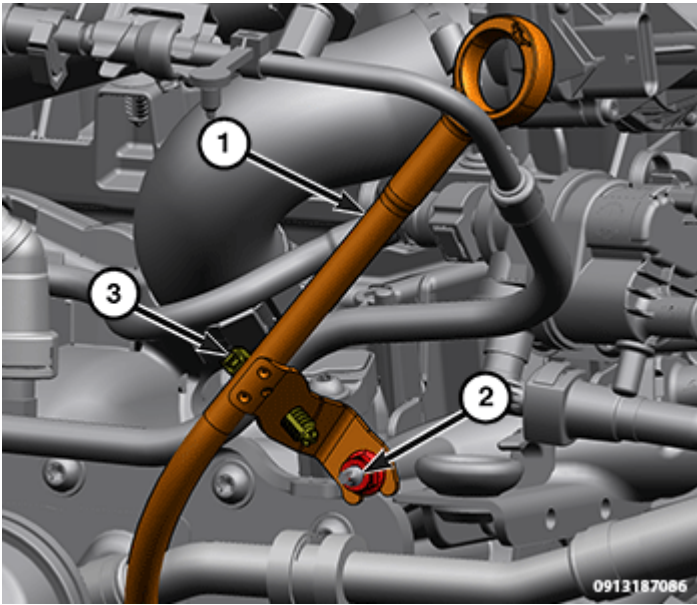
1. Drain the engine coolant system ([Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure](#)) ([Refer To List 1](#)).
2. Recover the A/C refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
3. Remove the cylinder head cover and timing cover ([Refer to Engine/Valve Timing/COVER\(S\), Engine Timing/Removal and Installation](#))([Refer To List 2](#)).
4. Remove the generator ([Refer to Electrical/Charging/GENERATOR/Removal and Installation](#)).
5. Remove the A/C compressor ([Refer to Heating and Air Conditioning/Plumbing/COMPRESSOR, A/C/Removal and Installation](#)).
6. Remove the catalytic converter ([Refer to Exhaust System/CONVERTER, Catalytic/Removal and Installation](#)).
7. Using a suitable jack lower the transmission and only remove the high pressure fuel pump lower bracket nuts at the transmission bell housing ([Refer to Transmission and Transfer Case/Automatic/Removal and Installation](#))([Refer To List 3](#)).
8. Install the transmission cross brace and mount, remove the support and lower the vehicle.
9. Remove the lower cowl extension silencer ([Refer to 23 - Body/Exterior/SILENCER, Cowl Extension/Removal and Installation](#)).
10. Using a suitable jack raise the transmission to gain access to the back of the engine.



0914187172

1 - Charge Air Cooler Coolant Temperature Sensor Harness Connector

25. Disconnect the Charge Air Cooler (CAC) coolant temperature sensor wire harness connector.



1 - Oil Dipstick Tube

2 - Oil Dipstick Tube Nut

3 - Fuel Line Retainer

32. Remove oil dipstick tube nut securing oil dipstick tube and position it aside.
33. Disconnect the vacuum boost hose quick-connect fitting and the fuel vapor purge hose quick-connect fitting from the intake manifold.