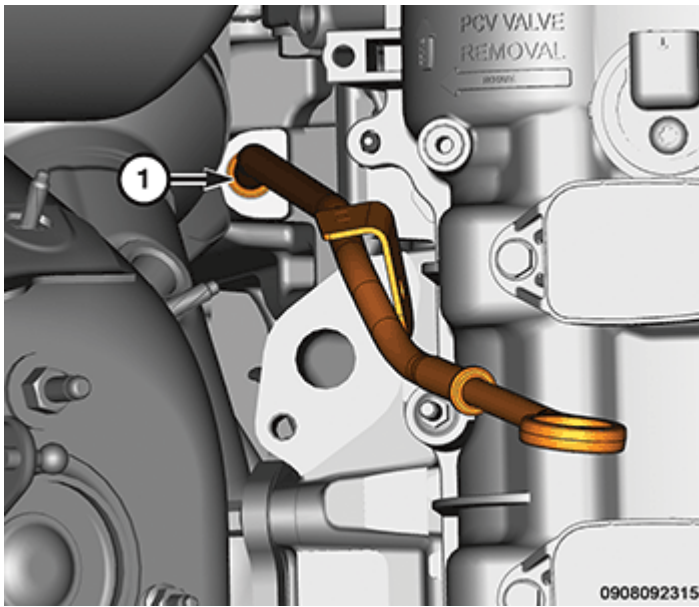


# Your Ultimate Source for OEM Repair Manuals

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.

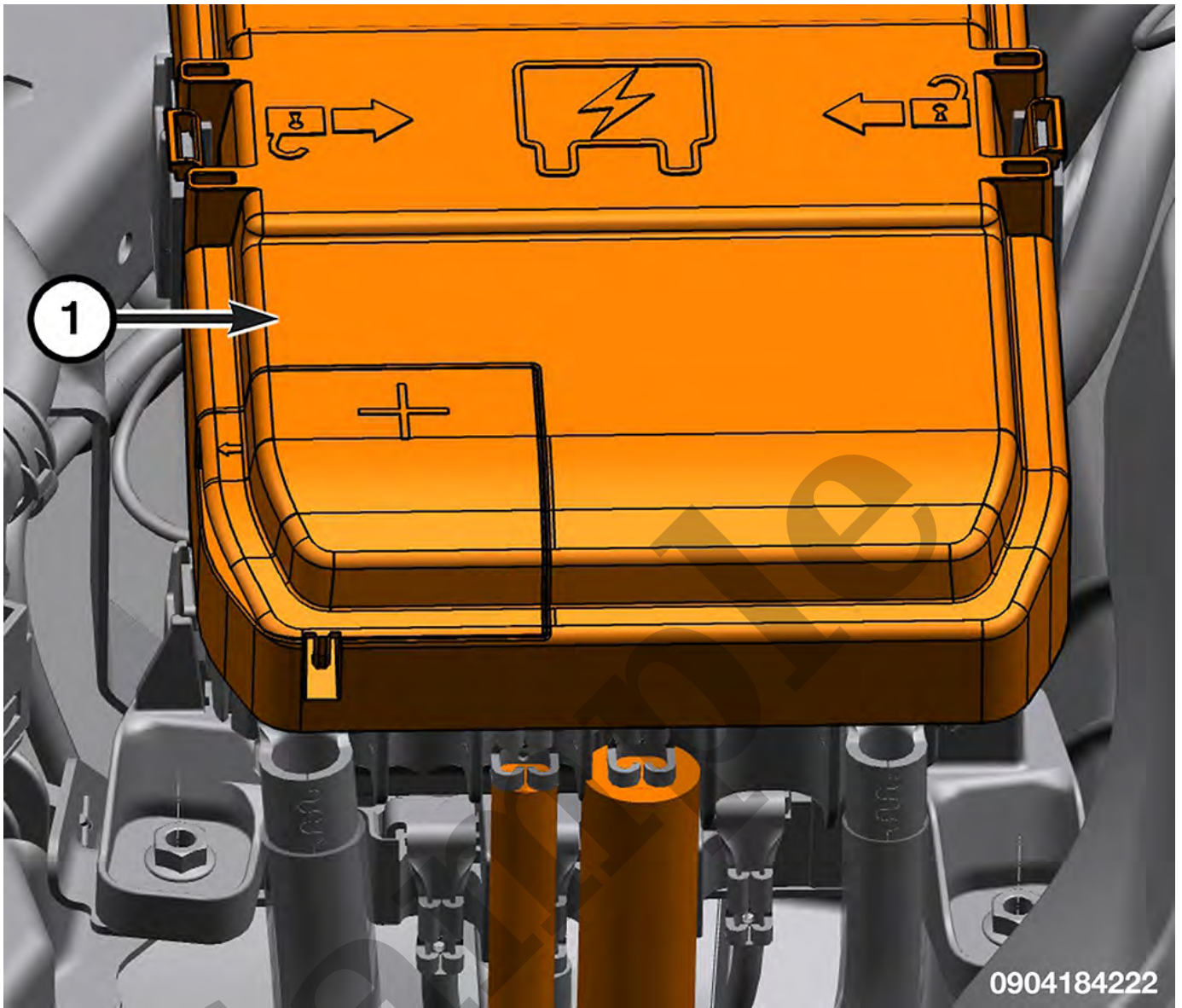
## 2009 JEEP Wrangler Unlimited OEM Service and Repair Workshop Manual

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1 - Oil Level Indicator Tube

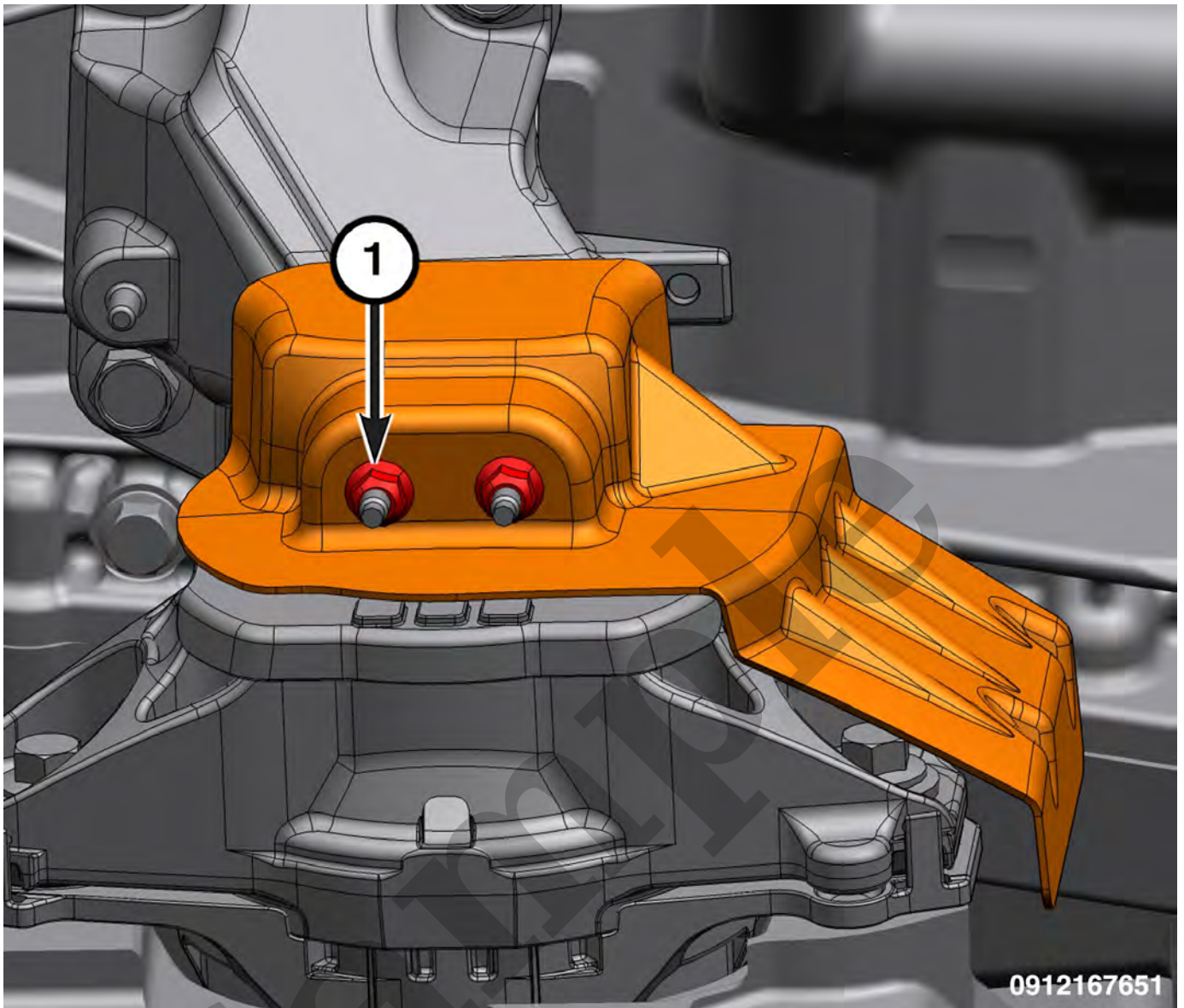
24. Remove the oil level indicator and tube.



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1 - PDC Cover

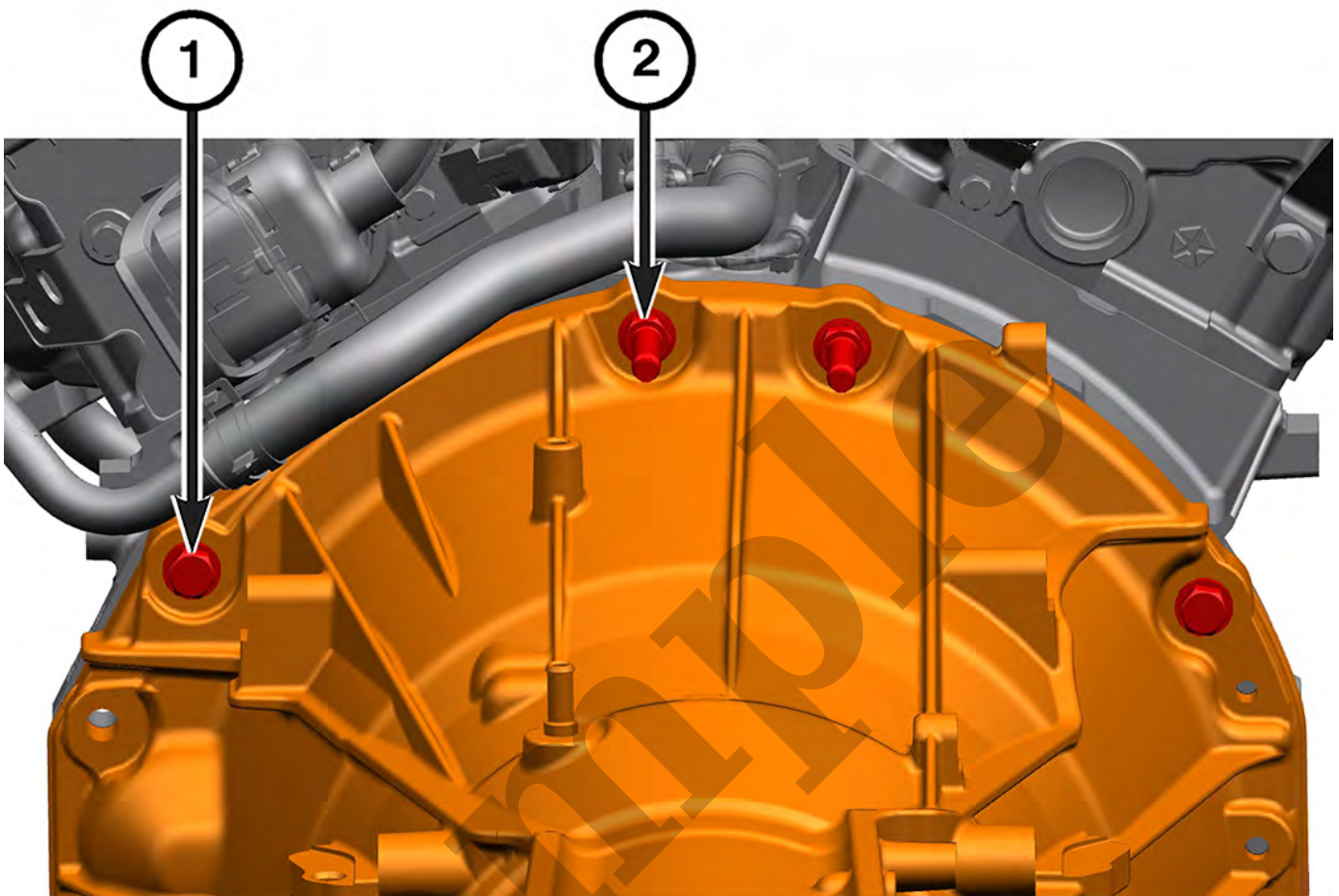
31. Remove the Power Distribution Center (PDC) cover.



1 - Heat Shield Nut

41. Remove the engine mount heat shield nuts and engine mount heat shields from both the left and right engine mounts.



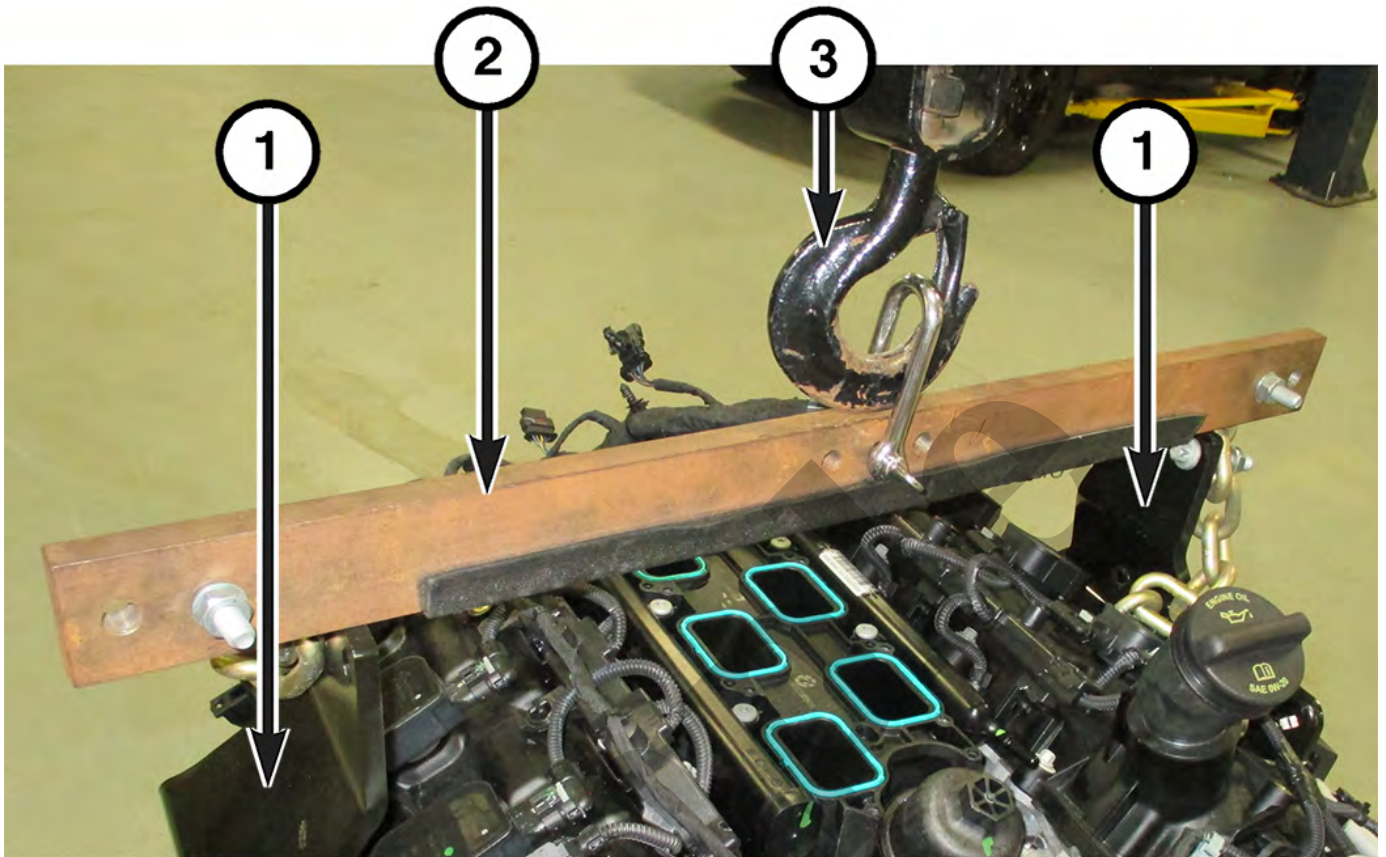


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1 - Transmission to Engine Bolts

2 - Transmission to Engine Stud-bolts

50. Remove upper transmission to engine bolts and stud-bolts.



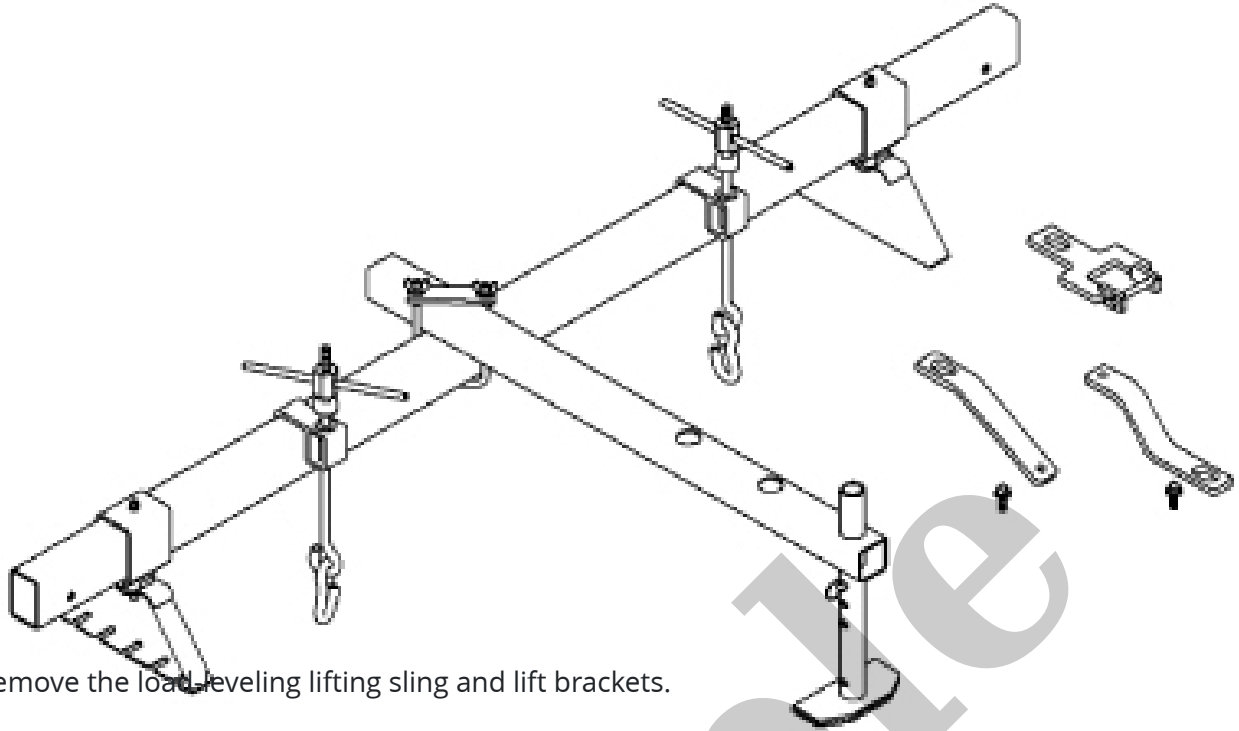
0911150751

1 - Sling to Engine Lift Bracket Fasteners
2 - Lifting Sling
3 - Engine Hoist

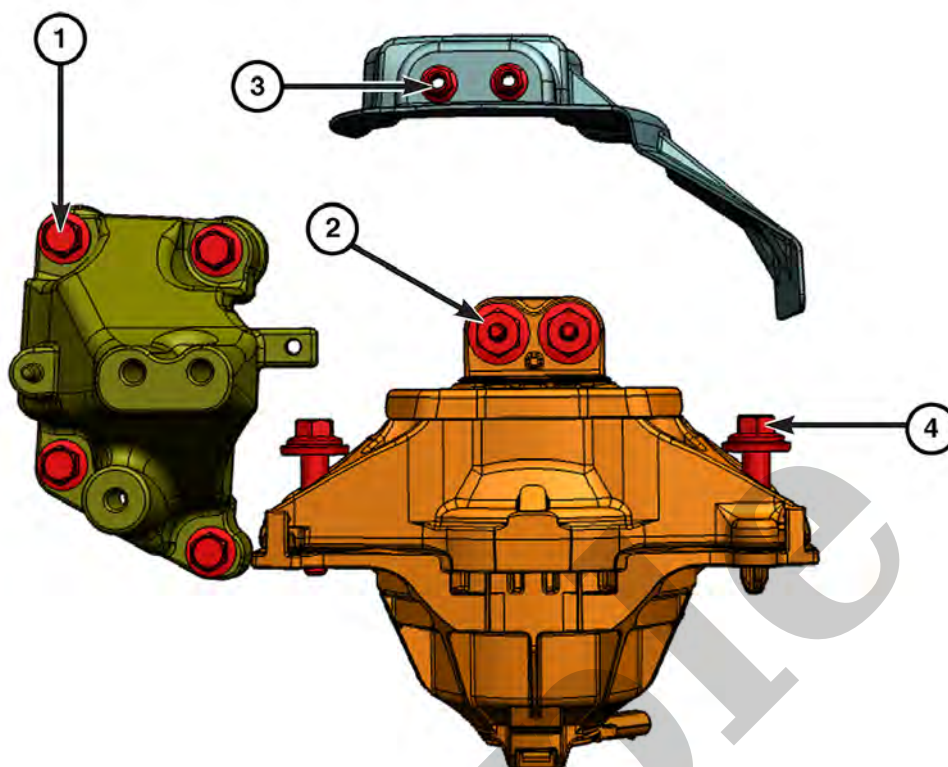
56. Position a commercially available load-leveling lifting sling, between the engine lifting brackets and an engine hoist.

57. Once the engine hoist is in place, the engine support fixture installed for the starter removal, can be removed.

58. Support the transmission with a suitable jack.



9. Remove the load-leveling lifting sling and lift brackets.
10. Install four transmission to engine oil pan bolts and tighten to the proper torque specifications.
11. Install two rubber plugs covering the rear oil seal retainer flange bolts.
12. Install the upper transmission to engine bolts and stud-bolts and tighten to the proper torque specifications.
13. Rotate the crankshaft in a clockwise direction and install the six torque converter bolts through the starter mounting and tighten to the proper torque specifications.
14. Install the torque converter dust shield and tighten the bolt to the proper torque specifications.
15. Install the side engine to transmission bolt and tighten to the proper torque specifications.
16. Install the starter ([Refer to Electrical/Starting/STARTER/Removal and Installation](#)).
17. Connect the power cord to the engine block heater (if equipped).
18. Engage the wire harness retainers to the transmission and transfer case (if equipped).
19. Connect the wire harness connectors to the transmission and transfer case.
20. Install the nuts and the engine mount heat shields onto the left and right engine mounts then tighten to the proper torque specifications.
21. Install the transmission heater lines ([Refer to 21 - Transmission and Transfer Case/Automatic/HEATER, Transmission/Removal and Installation](#)).



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Left Engine Mount Bracket to Engine Block Bolts	<b>63 N·m (46 Ft. Lbs.)</b>	–
2	Left Engine Mount Isolator to Bracket Bolts	<b>63 N·m (46 Ft. Lbs.)</b>	–
3	Left Engine Mount Heat Shield Nuts	<b>11 N·m (8 Ft. Lbs.)</b>	–
4	Left Engine Mount Isolator to Frame Bolt	<b>63 N·m (46 Ft. Lbs.)</b>	–

## TORQUE SPECIFICATIONS - COOLING SYSTEM



#### List 7

- 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

#### List 8

- 21 - Transmission and Transfer Case / Automatic - 8HP50/850RE / TUBES AND HOSES, Transmission Oil Cooler / Removal and Installation
- 21 - Transmission and Transfer Case / Automatic - 8HP75 / TUBES AND HOSES, Transmission Oil Cooler / Removal and Installation
- 21 - Transmission and Transfer Case / Automatic - 8P75PH / TUBES AND HOSES, Transmission Oil Cooler / Removal and Installation

Sample

### CAUTION

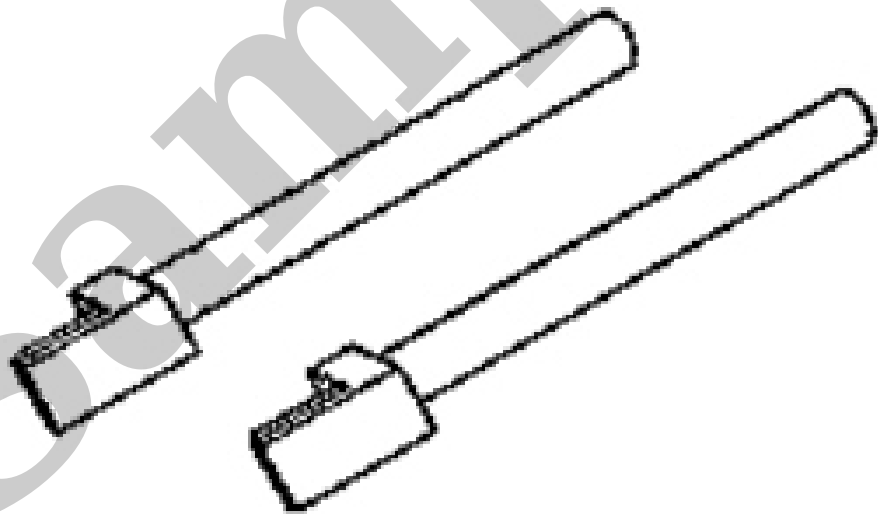
Replace only one connecting rod bearing at a time while all other connecting rod bearing caps remain properly tightened. If all connecting rod bearing caps are removed, crankshaft rotation will result in valve or piston damage.

### CAUTION

Care must be taken not to damage the fractured rod and cap joint face surfaces, as engine damage may occur.

5. Remove the connecting rod cap bolts and the connecting rod cap. Discard the cap bolts.
6. Remove the plastic guide plates from the Guide Pins

Guide Pins



and install the Guide Pins to the connecting rod being removed.

### CAUTION