

# 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 Cherokee/Liberty OEM Service and Repair Workshop Manual

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## NOTE

It is not necessary to pre-oil the oil filter or fill the oil filter housing.

During installation, torque the fasteners to the specifications in the torque table(s) below.

1. Lightly lubricate the **NEW** O-ring with clean engine oil and install on the filter cap.



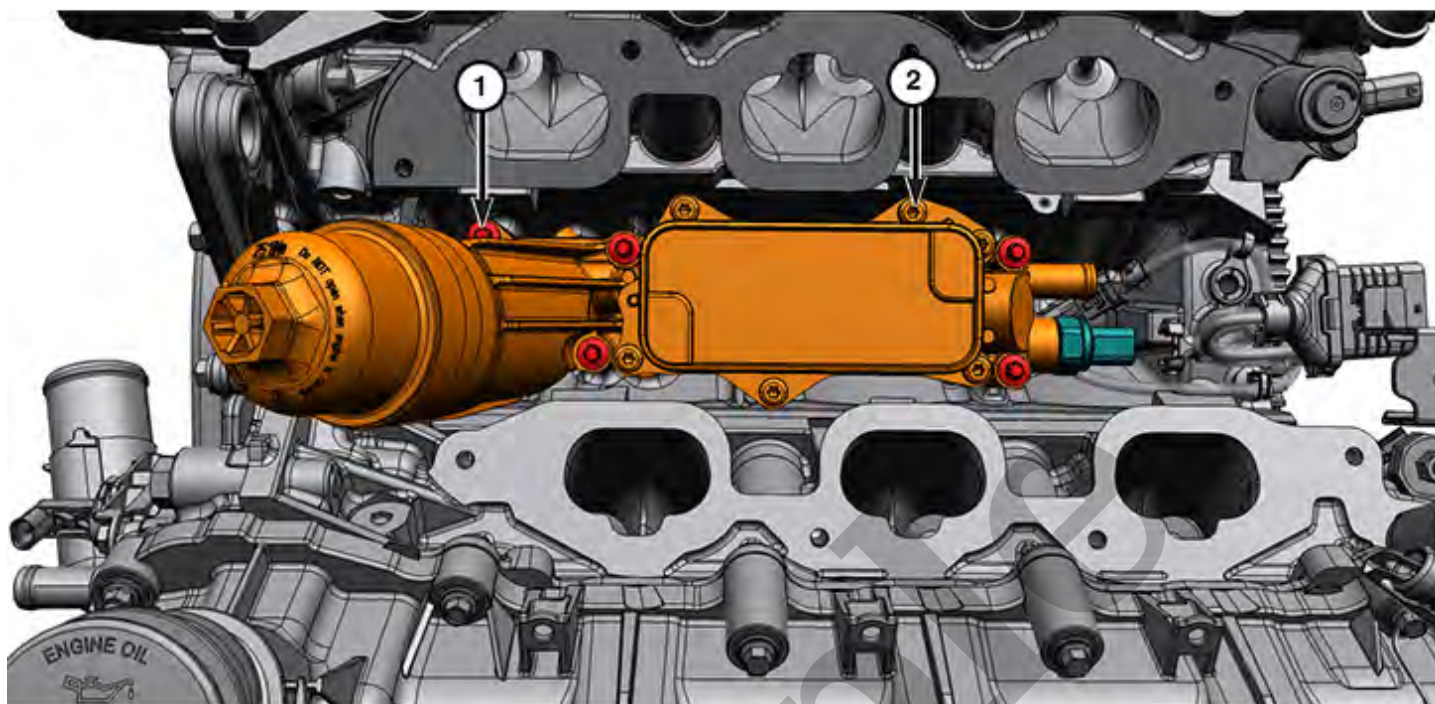
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2. Install the **NEW** oil filter into the oil filter cap.



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## NOTE



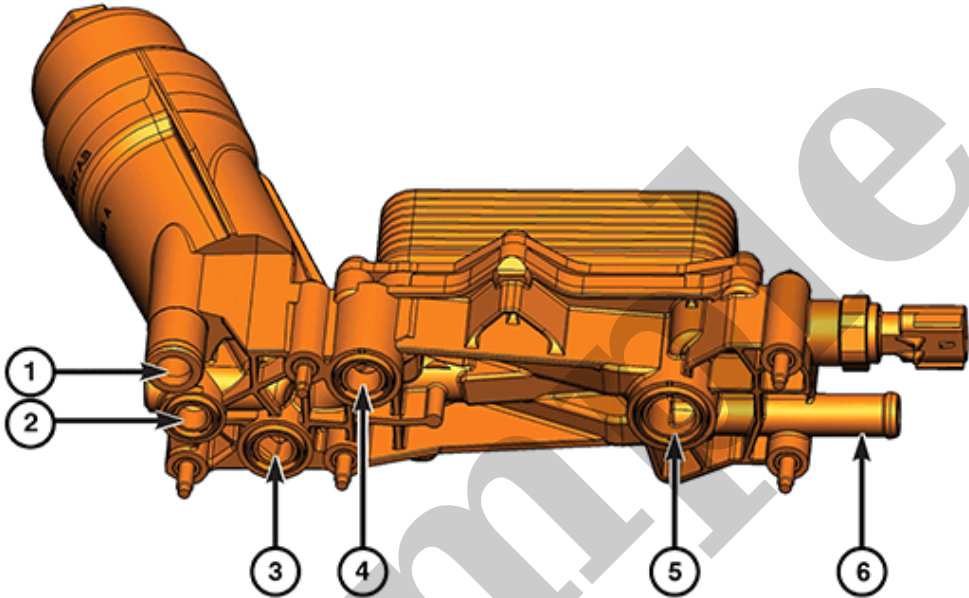
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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Oil Filter Housing/Oil Cooler to Engine Block M6 Bolts	<b>12 N·m (106 In. Lbs.)</b>	—
2	Oil Cooler to Oil Filter Housing Screws	<b>12 N·m (106 In. Lbs.)</b>	—
—	Oil Filter Housing Cap	<b>25 N·m (18 Ft. Lbs.)</b>	—

6. Remove the five oil filter housing bolts and the oil filter housing.

**NOTE**

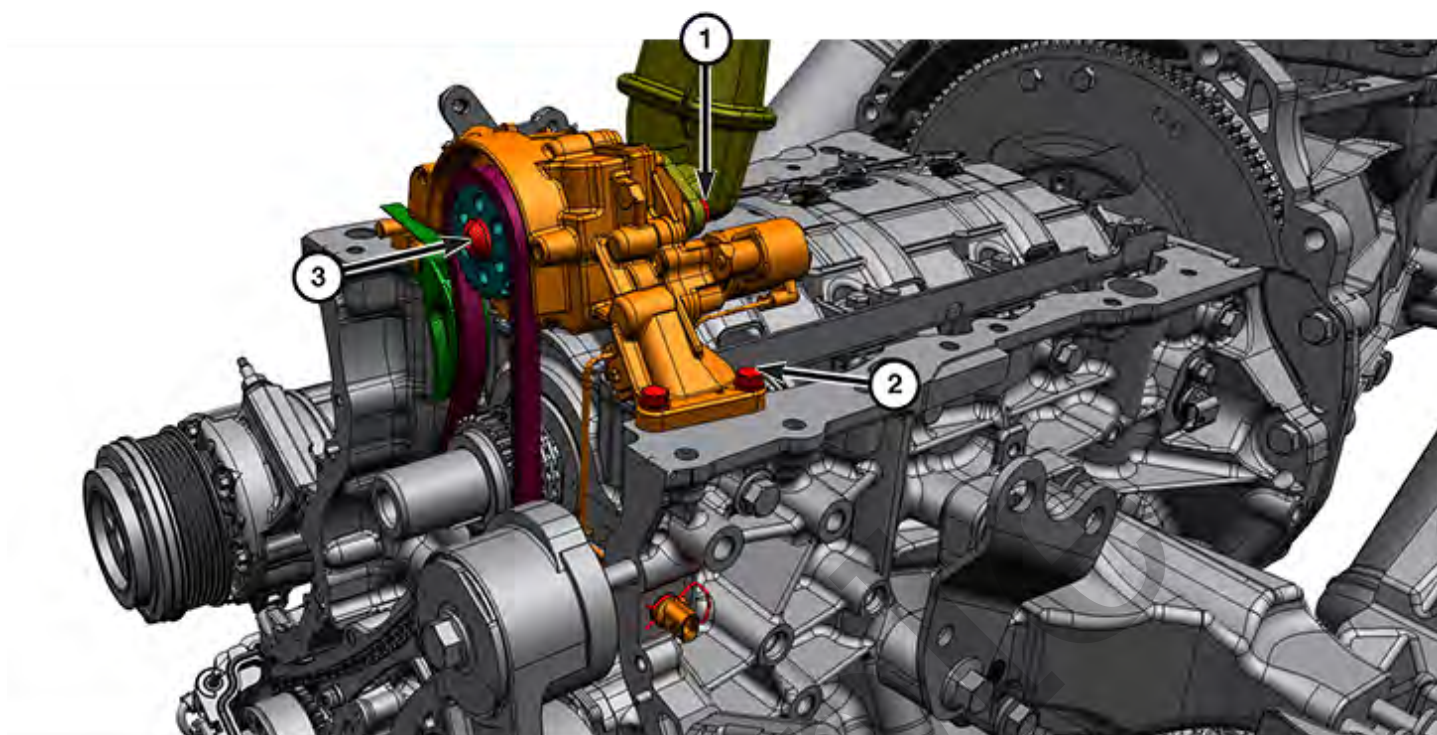
If there is an oil leak (identified by the use of Oil Dye – CH5010042AC) coming from between the Oil Filter Adapter (OFA) and the valley deck mating surfaces, replace only the four gaskets and the drain tube O-ring as shown here. The O-ring and four gasket set is #68191356AA.



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1 - Oil Filter Housing Seal	4 - Oil Filter Housing Seal
2 - Oil Filter Housing Seal	5 - Oil Filter Housing Seal
3 - Oil Filter Housing Seal	6 - Coolant Tube

7. Remove and discard the oil filter housing seals.



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Oil Pump Pick Up Tube to Oil Pump M6 Bolt	<b>12 N·m (106 In. Lbs.)</b>	—
2	Oil Pump to Engine Block M6 Bolts	<b>12 N·m (106 In. Lbs.)</b>	—
3	Oil Pump Sprocket M8 Bolt	<b>26 N·m (18 Ft. Lbs.)</b>	—

#### Refer To List:

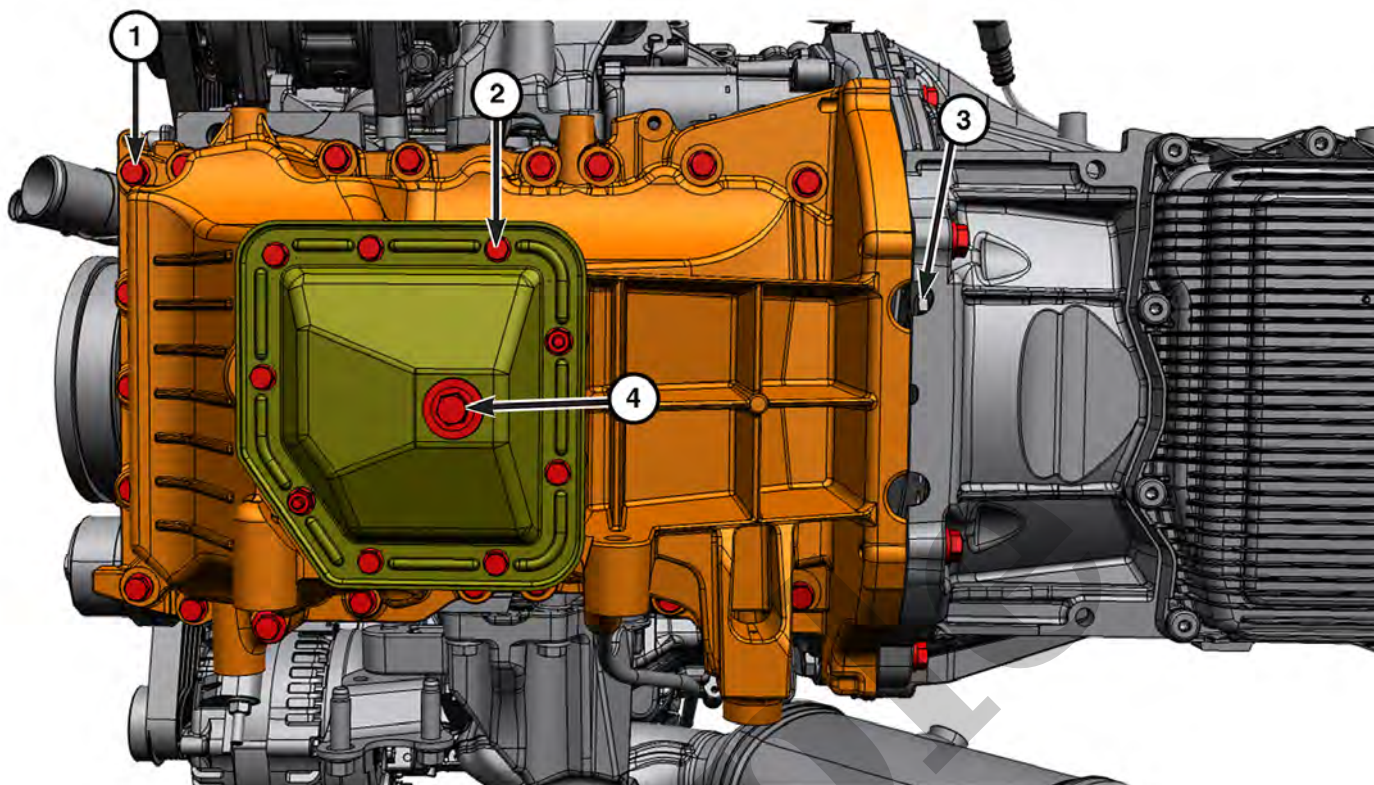
##### List 1

- [09 - Engine, 2.0L / Fuel System / Standard Procedure](#)
- [09 - Engine, 3.6L / Fuel System / Standard Procedure](#)
- [09 - Engine, 5.7L / Fuel System / Standard Procedure](#)

##### List 2

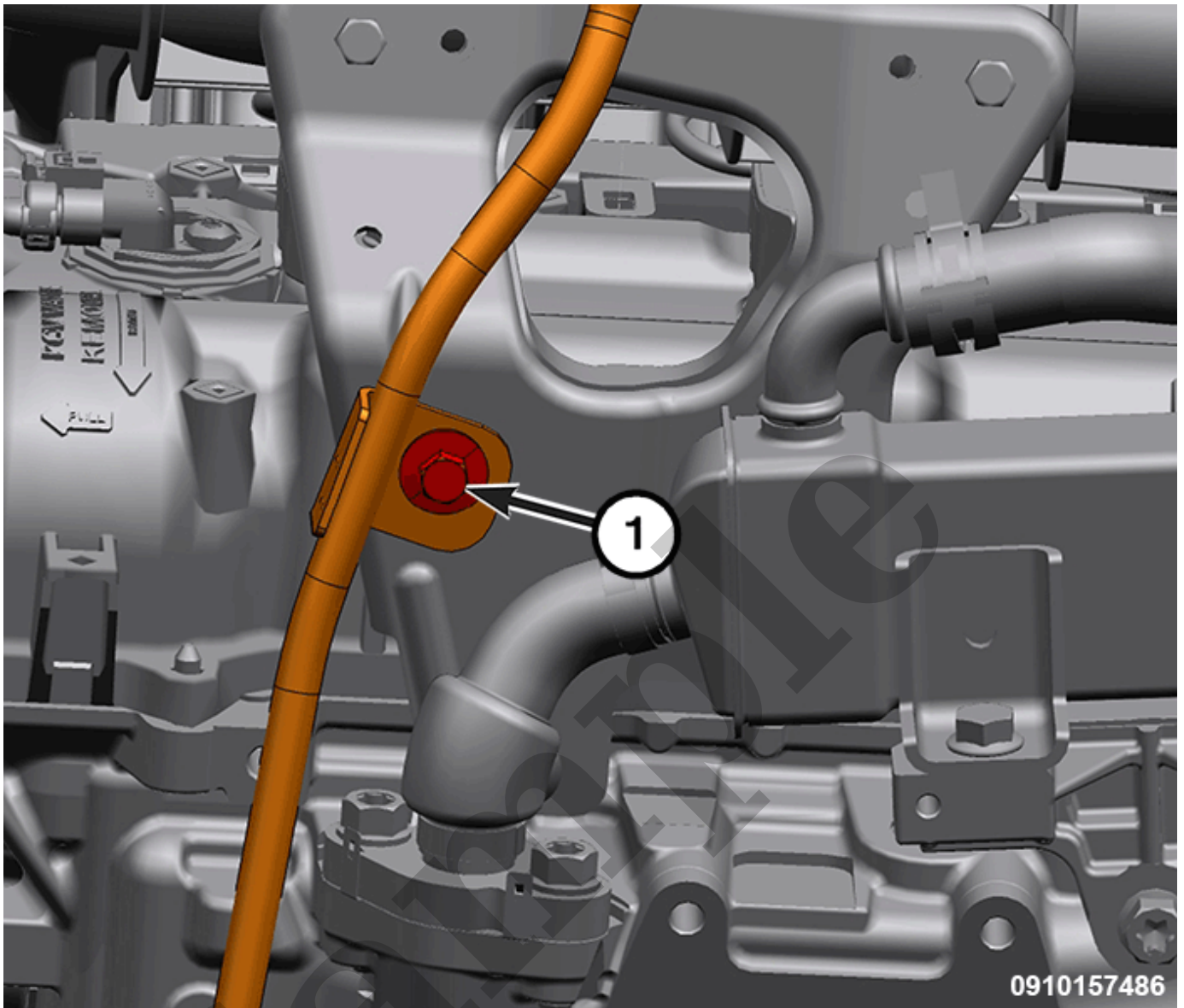
- [09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure](#)
- [09 - Engine, 3.6L / Engine Cooling / Standard Procedure](#)
- [09 - Engine, 5.7L / Engine Cooling / Standard Procedure](#)





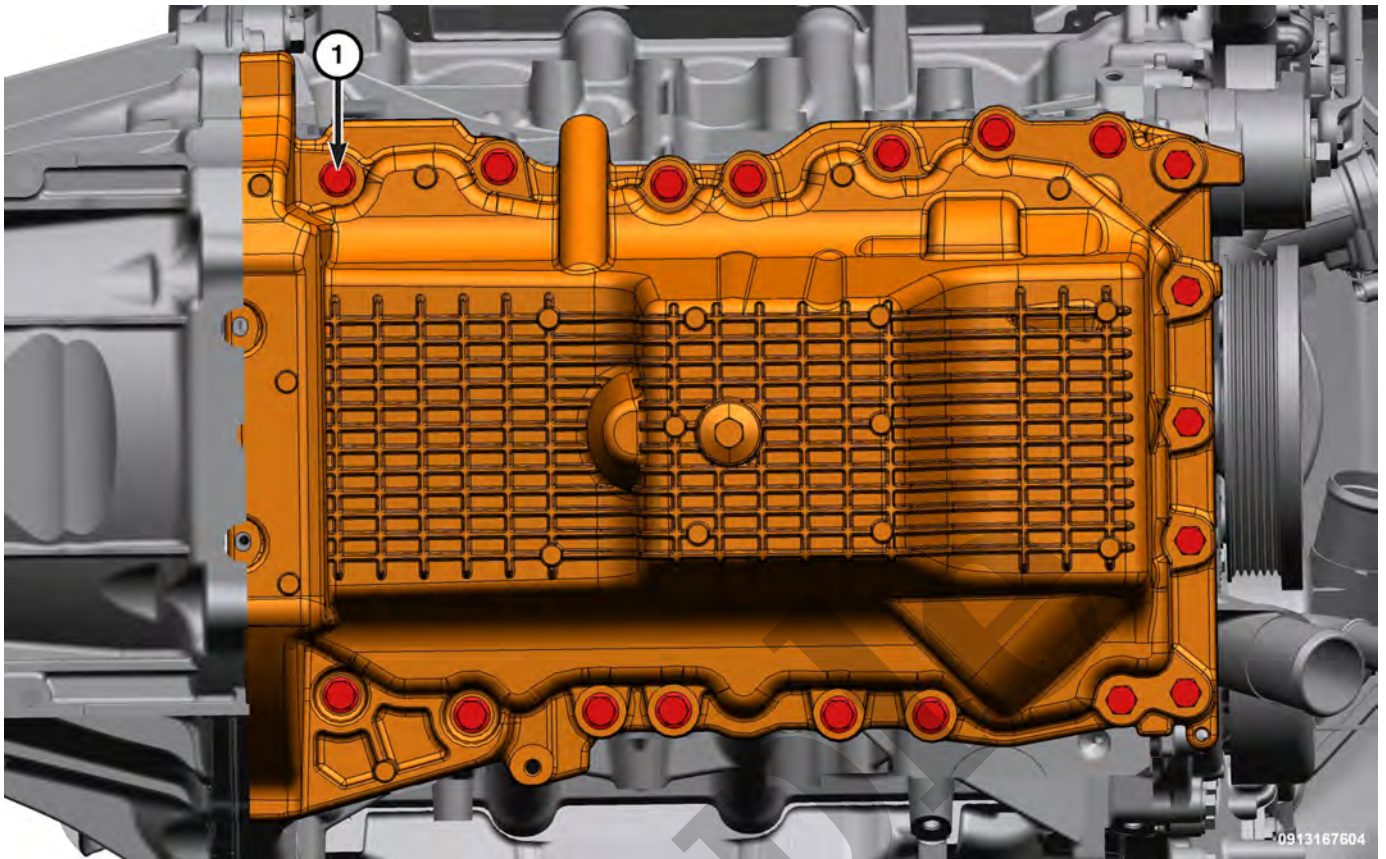
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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Upper Oil Pan to Engine Block M8 Bolts	<b>23 N·m (17 Ft. Lbs.)</b>	—
2	Lower Oil Pan to Upper Oil Pan - M6 Bolts	<b>11 N·m (8 Ft. Lbs.)</b>	—
3	Upper Oil Pan to Rear Seal Retainer M6 Bolts	<b>10 N·m (89 In. Lbs.)</b>	—
4	Oil Pan Drain Plug	<b>27 N·m (20 Ft. Lbs.)</b>	—
—	Oil Level Indicator to Intake Manifold Bracket Bolt	<b>10 N·m (89 In. Lbs.)</b>	—



1 - Oil Level Indicator Tube To The Intake Manifold Bracket Bolt

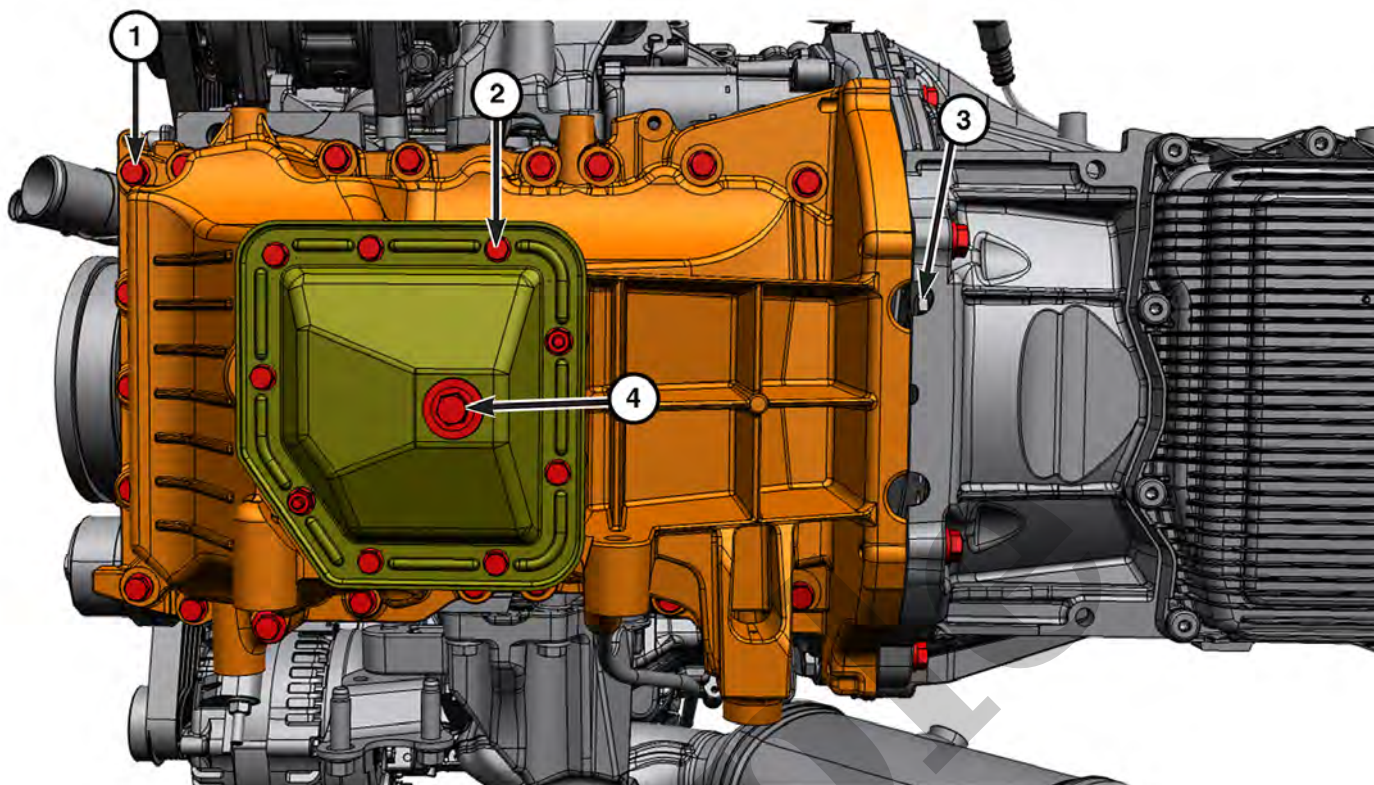
4. Remove the oil level indicator tube to the intake manifold bracket bolt.
5. Remove the oil level indicator tube from the oil pan.



1 - Oil Pan Mounting To Engine Block Bolts

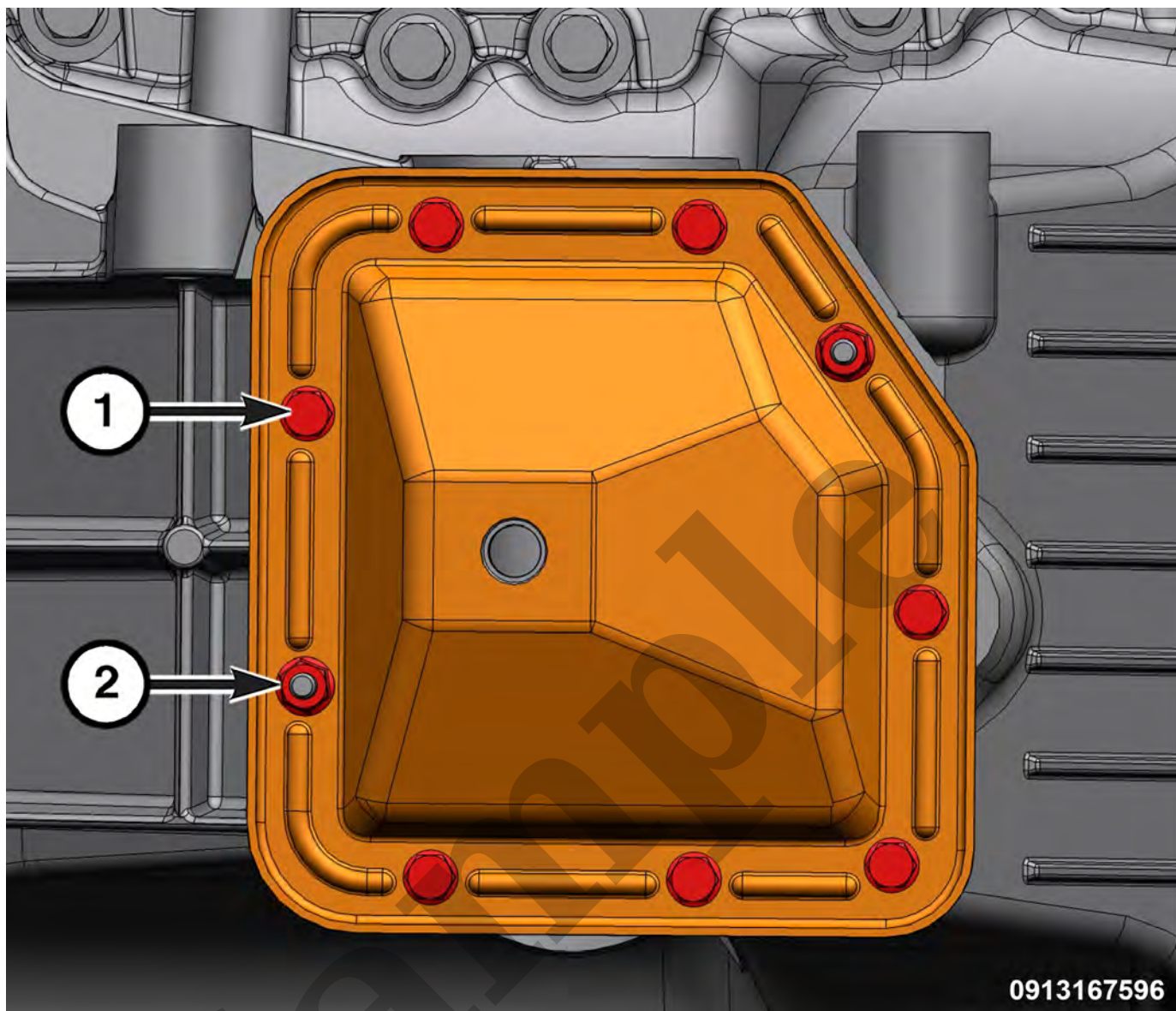
9. Remove nineteen oil pan to engine block bolts.





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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Upper Oil Pan to Engine Block M8 Bolts	<b>23 N·m (17 Ft. Lbs.)</b>	—
2	Lower Oil Pan to Upper Oil Pan - M6 Bolts	<b>11 N·m (8 Ft. Lbs.)</b>	—
3	Upper Oil Pan to Rear Seal Retainer M6 Bolts	<b>10 N·m (89 In. Lbs.)</b>	—
4	Oil Pan Drain Plug	<b>27 N·m (20 Ft. Lbs.)</b>	—
—	Oil Level Indicator to Intake Manifold Bracket Bolt	<b>10 N·m (89 In. Lbs.)</b>	—



1 - Lower Oil Pan Bolts

2 - Lower Oil Pan Nuts

4. Remove the lower oil pan bolts and lower oil pan nuts from the flange of the lower oil pan.

#### CAUTION

Do not pry on the lower oil pan flange. There are no designated pry points for lower oil pan removal. Prying on only one or a few locations could bend the flange and damage the pan.

5. Using a gasket scraper or equivalent, loosen the seal around the lower oil pan in order to shear the sealant bond and remove the pan.