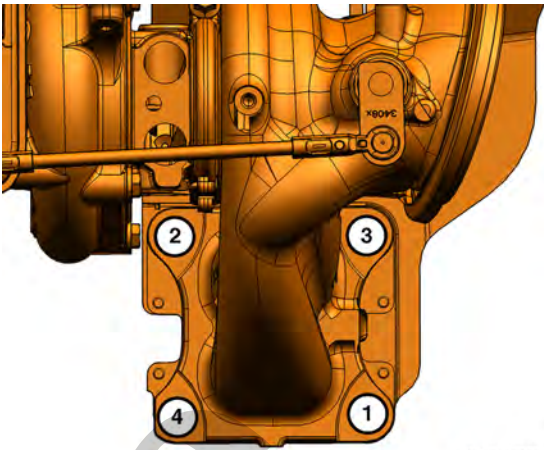


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2008 JEEP Wrangler Rubicon OEM Service and Repair Workshop Manual

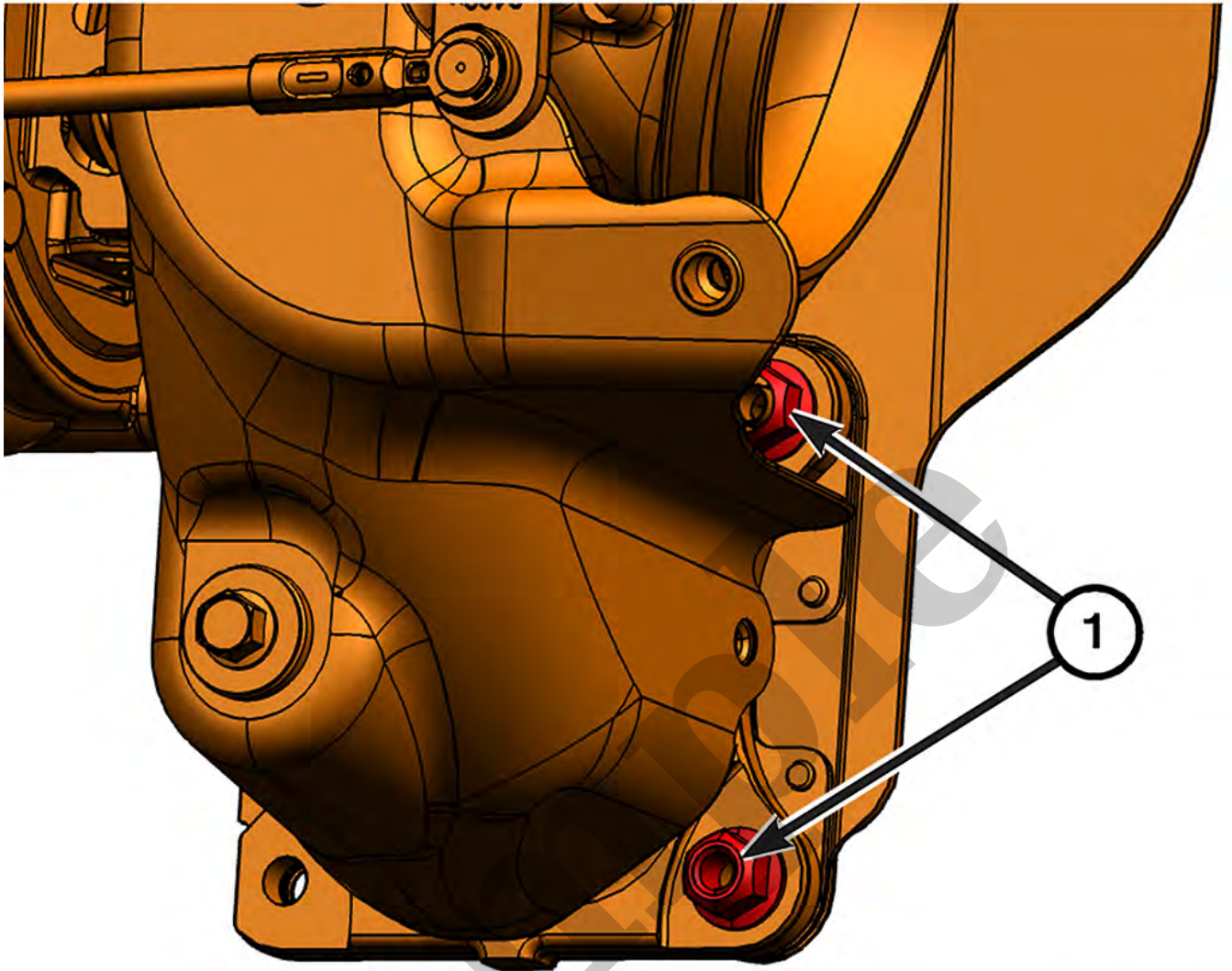
[Go to manual page](#)

| CALLOUT | DESCRIPTION | SPECIFICATION | COMMENTS |
|---------|--|-------------------------|--|
| | | 2. 25 N·m (18 ft. Lbs.) |  <p>0915187385</p> <p>Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications.</p> |
| 5 | Turbocharger Oil Line to Crankcase M6 Bolts | 11 N·m (8 Ft. Lbs.) | — |
| 7 | Turbocharger Oil Line to Turbocharger M6 Bolt | 11 N·m (8 Ft. Lbs.) | — |
| — | Turbocharger Coolant Supply Line to Cylinder Head M6 Bolts | 11 N·m (8 Ft. Lbs.) | — |
| — | Turbocharger Heat Shield/Gasket M6 Bolts | 10 N·m (89 In. Lbs.) | — |
| — | Upper Turbocharger Heat Shield Bolts | 11 N·m (8 Ft. Lbs.) | — |

Refer To List:

List 1

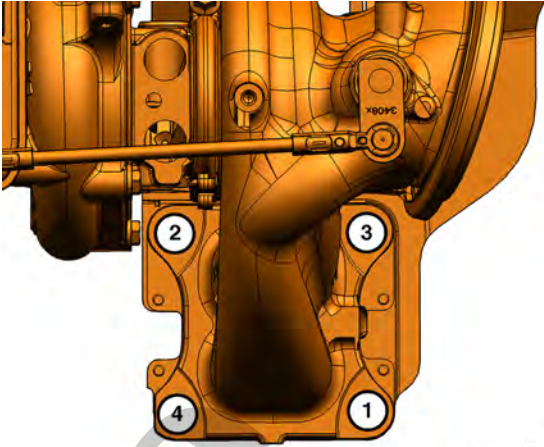
- [09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure](#)
- [09 - Engine, 3.6L / Engine Cooling / Standard Procedure](#)



0915187170

1 - Turbocharger Rear Nuts

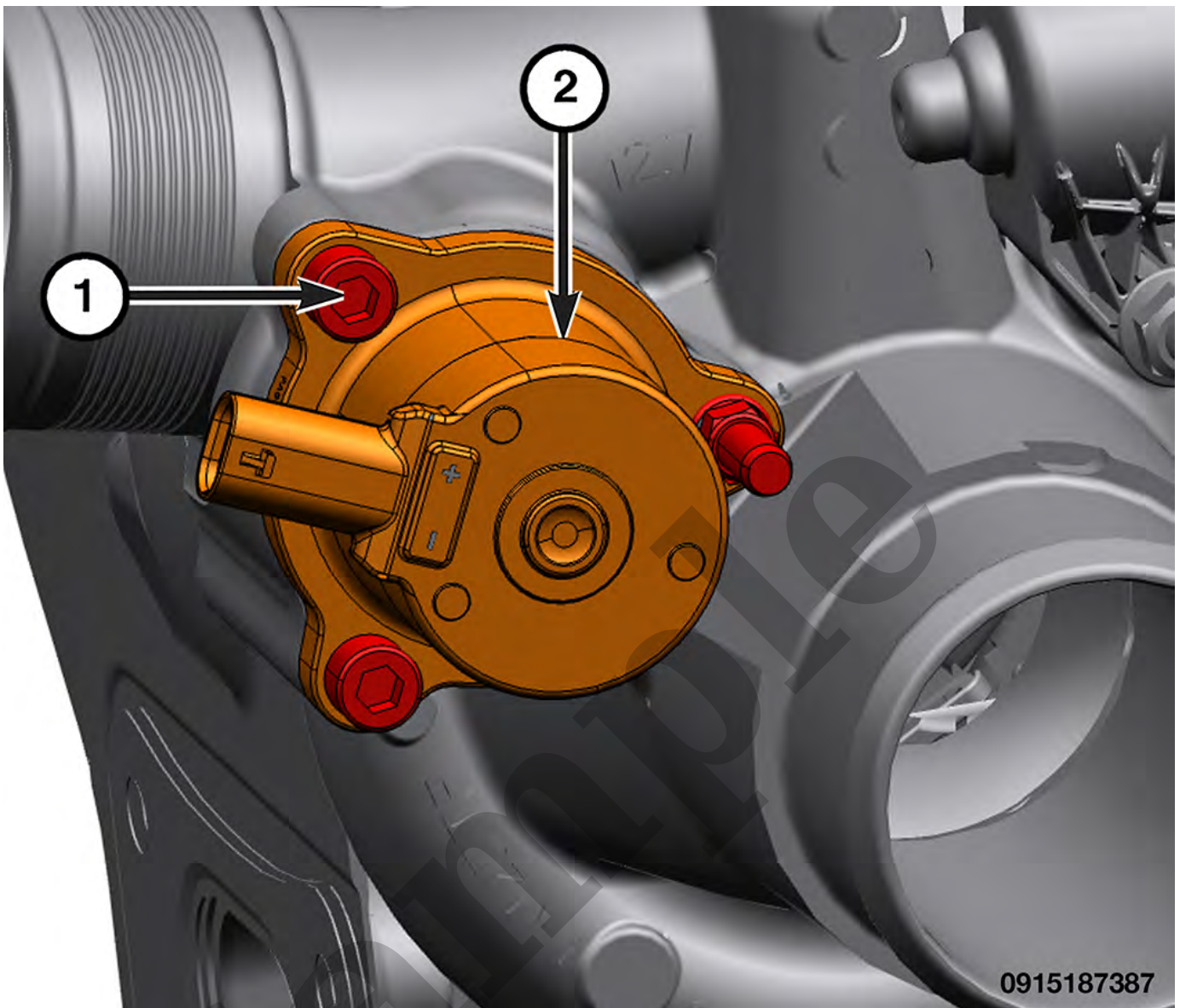
13. Remove and discard the turbocharger rear nuts from the turbocharger.

| CALLOUT | DESCRIPTION | SPECIFICATION | COMMENTS |
|---------|--|-------------------------|--|
| | | 2. 25 N·m (18 ft. Lbs.) |  <p>Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications.</p> |
| 5 | Turbocharger Oil Line to Crankcase M6 Bolts | 11 N·m (8 Ft. Lbs.) | - |
| 7 | Turbocharger Oil Line to Turbocharger M6 Bolt | 11 N·m (8 Ft. Lbs.) | - |
| - | Turbocharger Coolant Supply Line to Cylinder Head M6 Bolts | 11 N·m (8 Ft. Lbs.) | - |
| - | Turbocharger Heat Shield/Gasket M6 Bolts | 10 N·m (89 In. Lbs.) | - |
| - | Upper Turbocharger Heat Shield Bolts | 11 N·m (8 Ft. Lbs.) | - |

Refer To List:

List 1

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



1 - Surge Valve Bolts

2 - Surge Valve

5. Remove the surge valve bolts and the surge valve complete with seal.

INSTALLATION

The steps listed below are calling out specific procedures that should be followed during installation.

- Clean the gasket sealing surface.
- Install the surge valve complete with new seal and securely tighten the surge valve bolts.

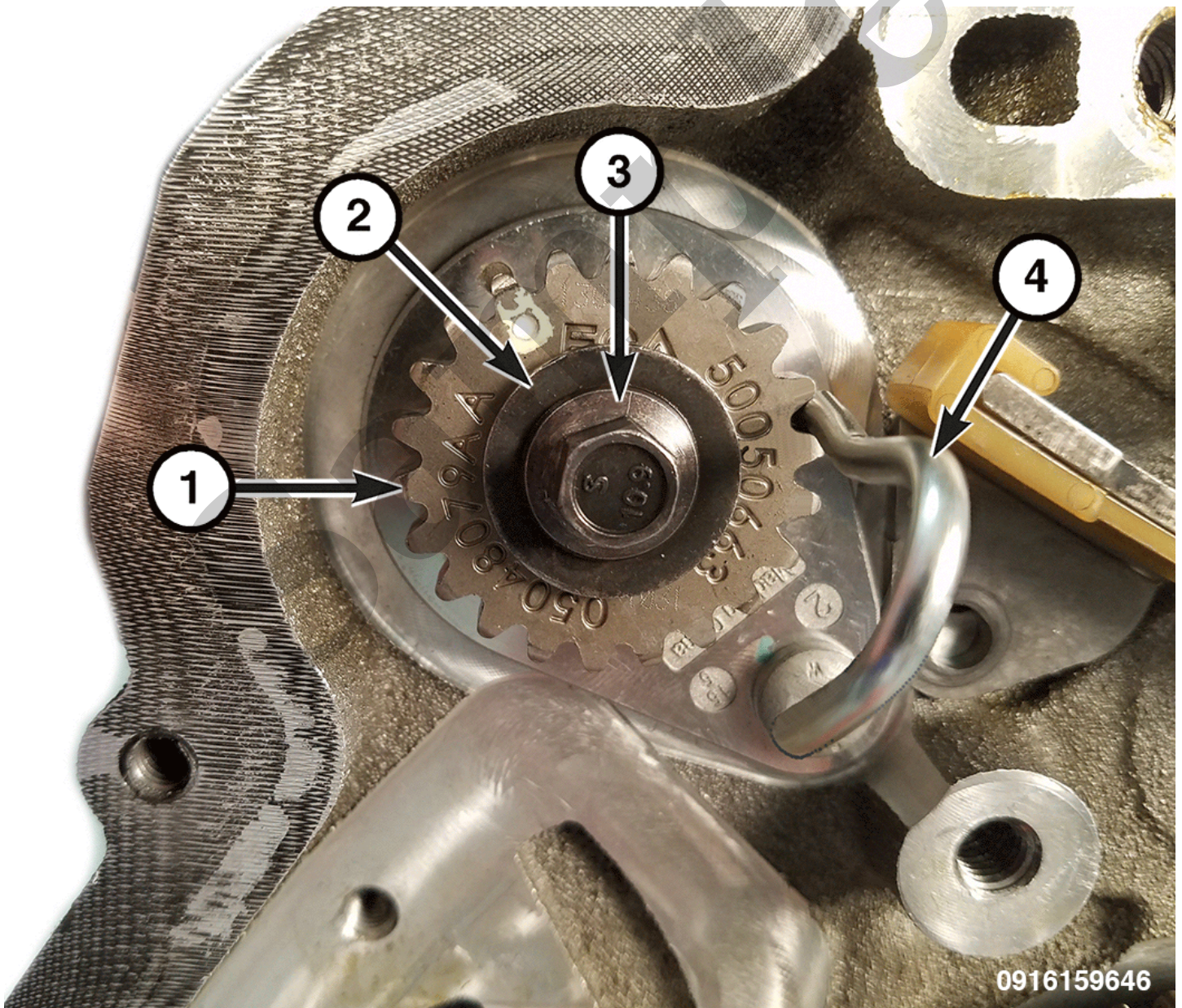
Refer To List:

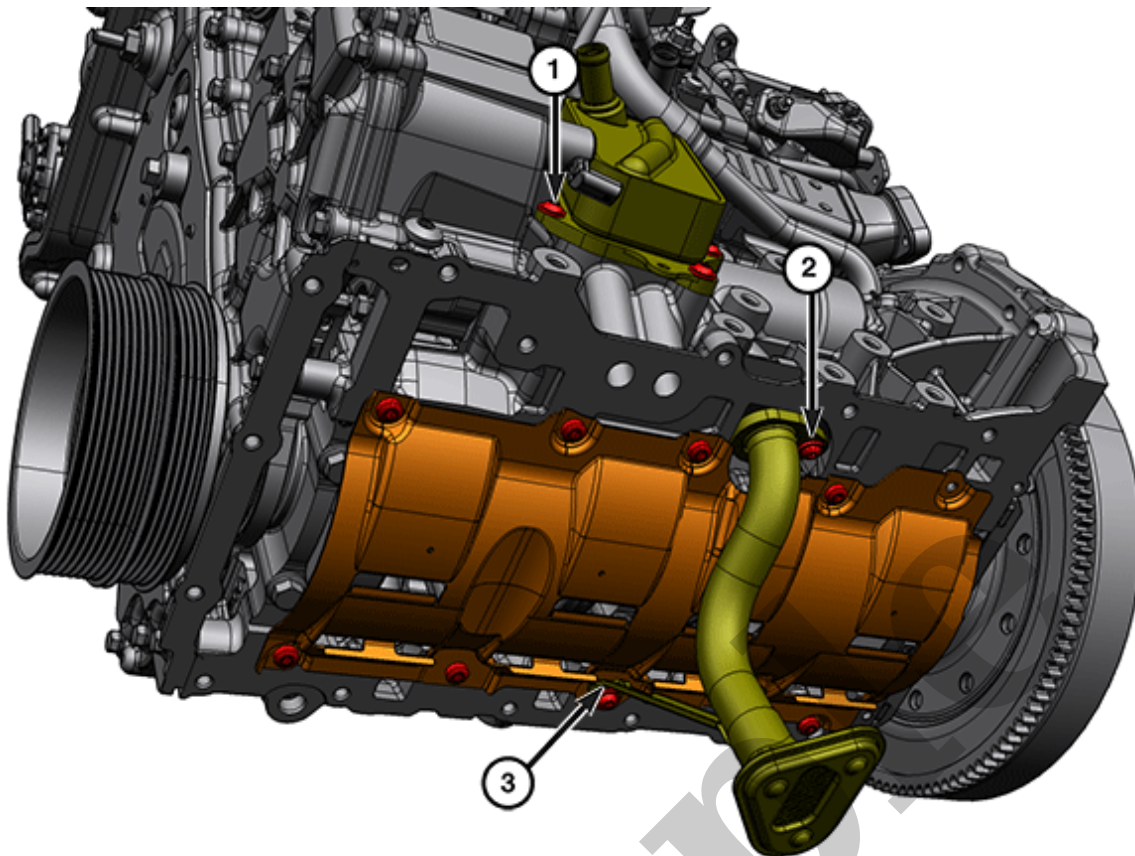
List 1



through the balance shaft mount to hold the sprocket. Remove the balance shaft sprocket bolt, washer and the balance shaft sprocket.

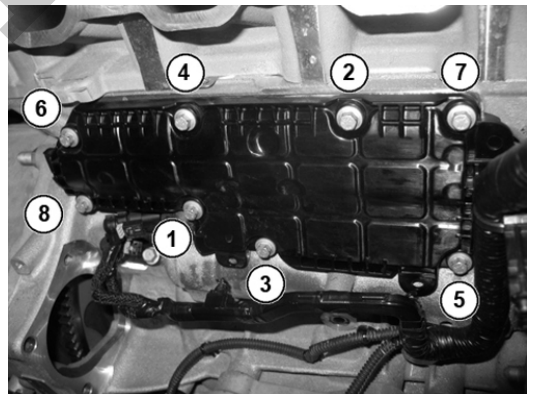
INSTALLATION





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| CALLOUT | DESCRIPTION | SPECIFICATION | COMMENTS |
|---------|-------------------------------|------------------------|--|
| 1 | Engine Oil Cooler M6 Bolts | 12 N·m (9 Ft. Lbs.) | <p>Tightening Sequence</p> <p>Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications.</p> |

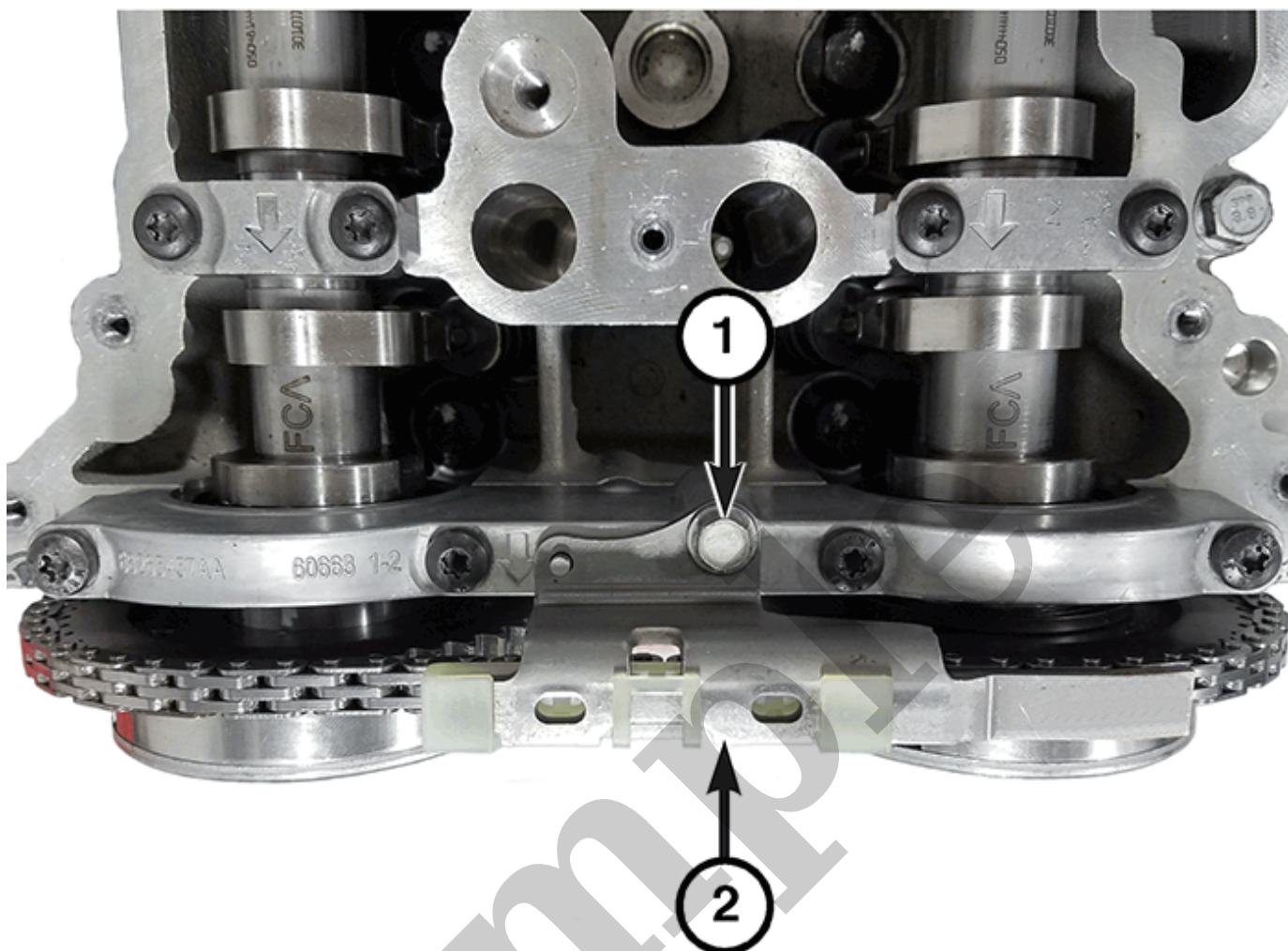
| CALLOUT | DESCRIPTION | SPECIFICATION | COMMENTS |
|---------|-----------------------------------|--|---|
| - | Oil Galley Pipe Plugs M10 Plug | Torque Procedure: 1. 4 N·m (35 In. Lbs.) 2. + 450° | Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications. |
| - | Oil Galley Pipe Plugs M14 Plug | + 1.5 mm (+ 0.06 In.) to - 0.5 mm (- 0.02 In.) flush with the block boss face | Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications. |
| - | Oil Galley Pipe Plugs M18 Plug | + 1.5 mm (+ 0.06 In.) to - 0.5 mm (- 0.02 In.) flush with the block boss face | Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications. |
| - | Oil Vapor Separator M6 Bolts | 9 N·m (80 In. Lbs.) | <p>Tightening sequence</p> <p>Do not reuse these fasteners. If removed, a NEW fastener must be installed and tightened to specifications. Tighten in sequence</p>  |

Refer To List:

List 1

- [09 - Engine, 2.0L / Valve Timing / COVER\(S\), Engine Timing / Removal and Installation](#)
- [09 - Engine, 3.6L / Valve Timing / COVER\(S\), Engine Timing / Removal and Installation](#)
- [09 - Engine, 5.7L / Valve Timing / COVER\(S\), Engine Timing / Removal and Installation](#)

List 2

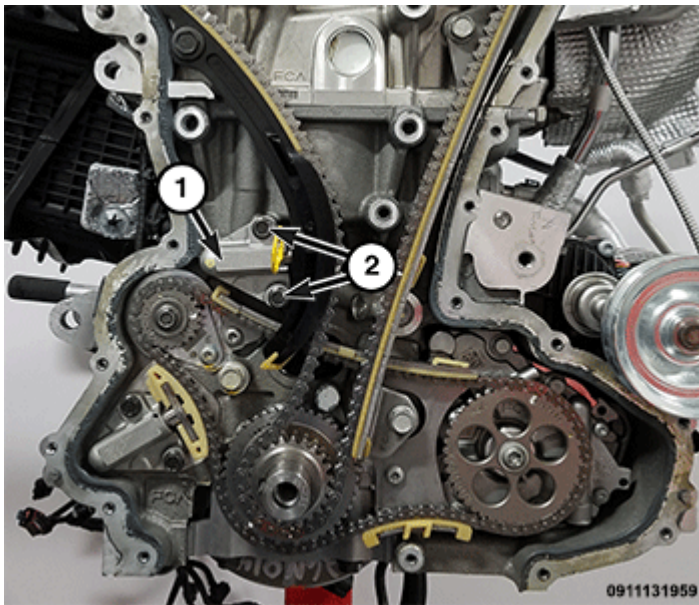


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1 - Cam Chain Guide Bolts

2 - Cam Chain Guide

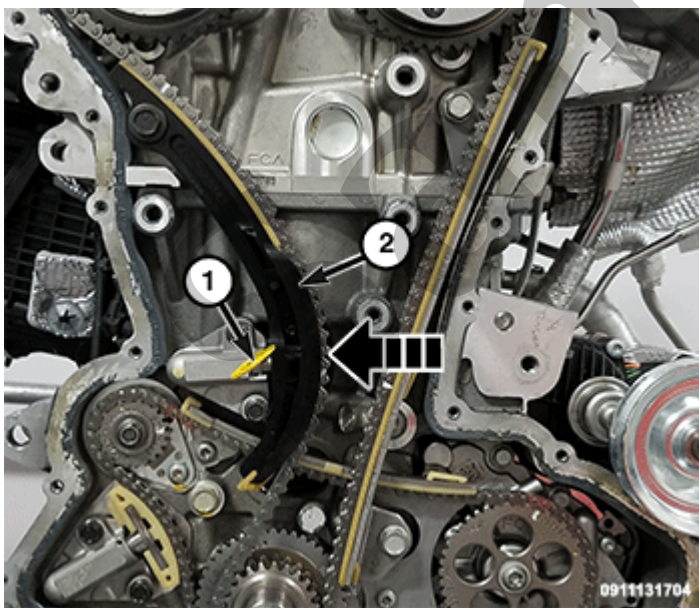
4. Remove the cam chain guide bolt and cam chain guide.



1 - Cam Chain Tensioner

2 - Cam Chain Tensioner Bolts

3. Install the cam chain tensioner and tighten the cam chain tensioner bolts to the proper torque specifications.



1 - Tensioner Pins 8514A

2 - Cam Chain Tensioner Arm