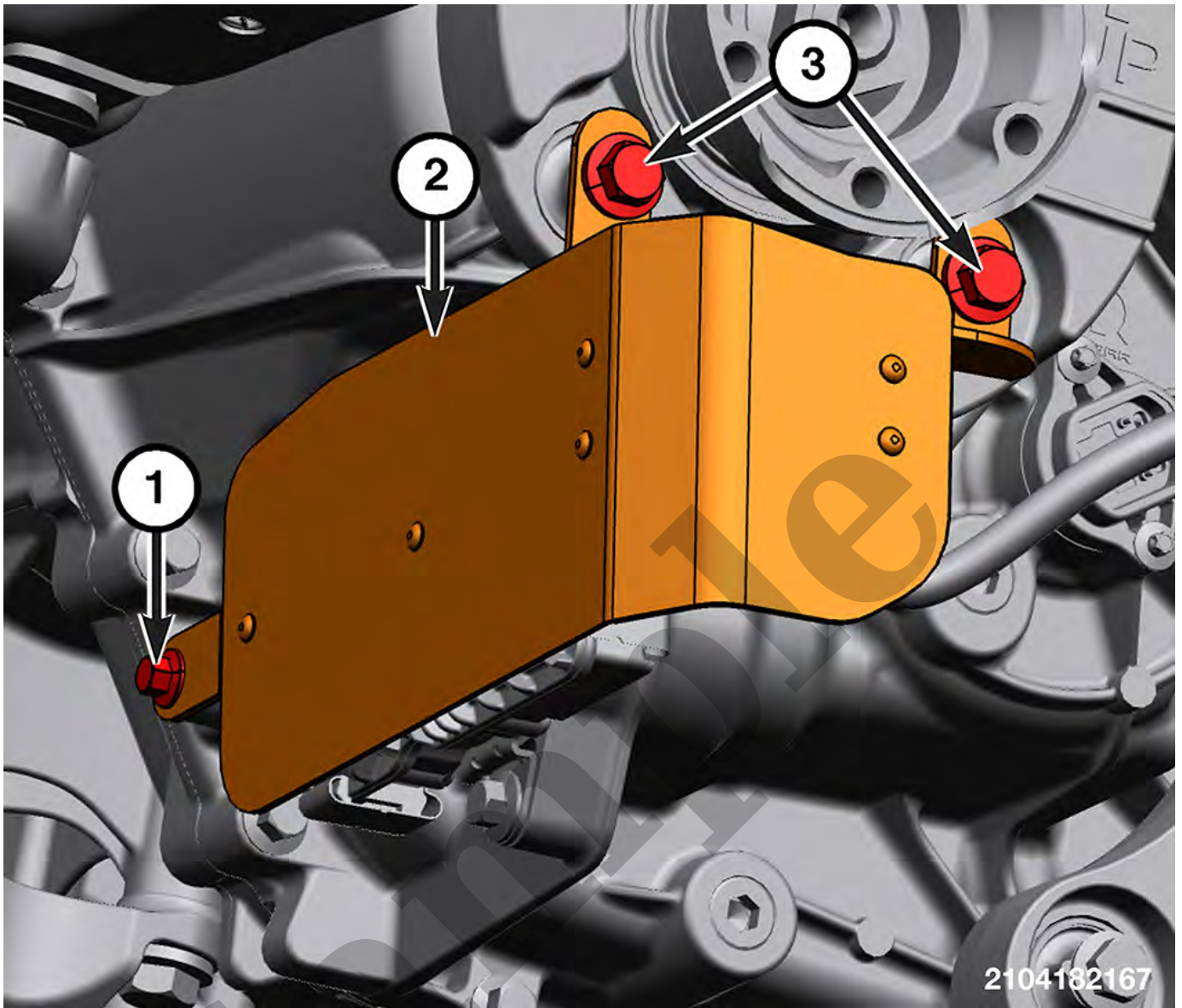


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2018 JEEP Grand Cherokee OEM Service and Repair Workshop Manual

[Go to manual page](#)



1 - Shift Motor M8 Cover Bolt

2 - Shift Motor M10 Cover Bolts

4. Remove the shift motor cover bolts and cover.

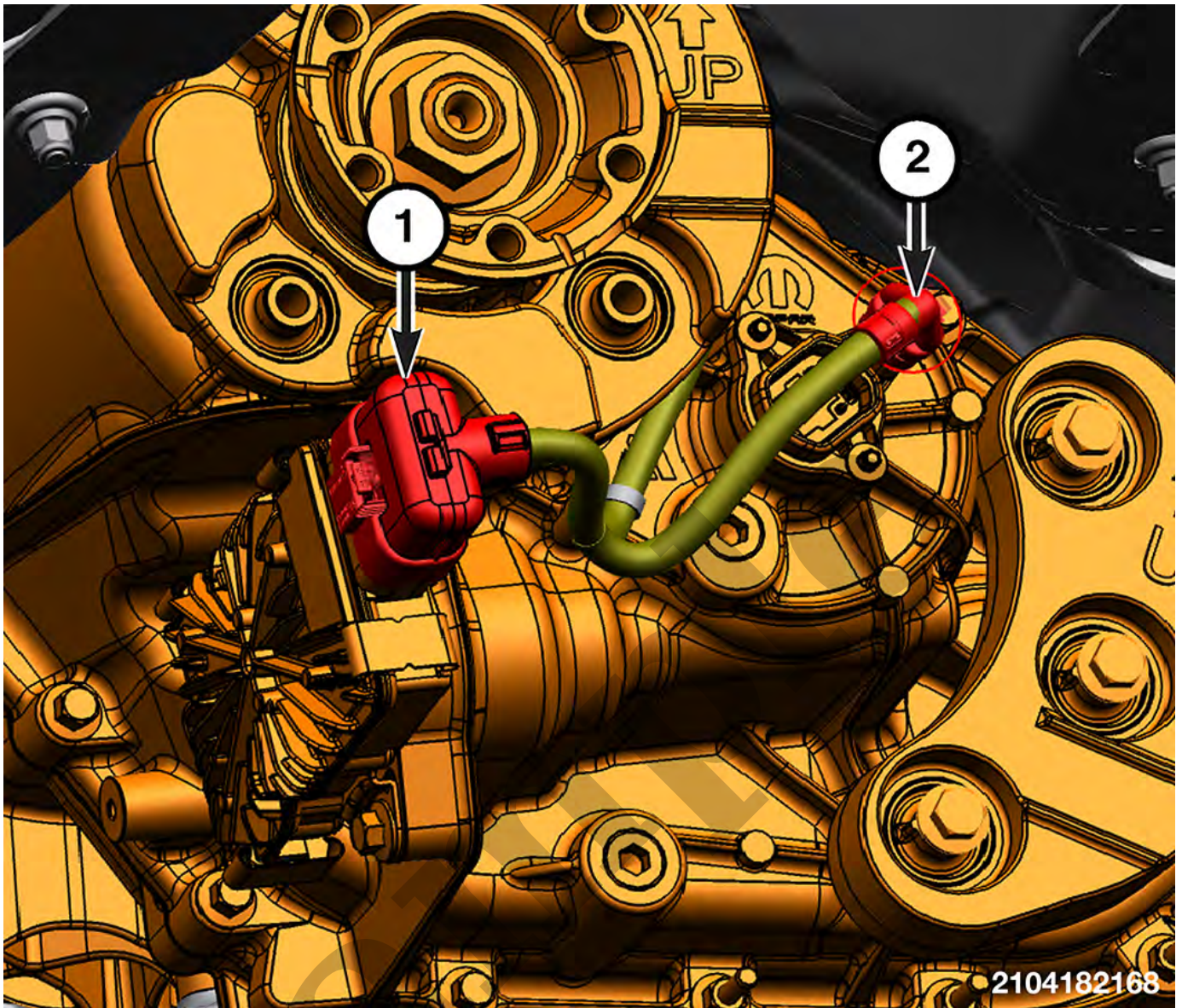
monitoring the PRNDL lights to ensure they have turned off, this will indicate that the bus is in a sleep cycle.

5. Use the scan tool to perform the DTCM Calibration with Transfer Case in High range.

6. Use the scan tool to perform the DTCM Calibration with Transfer Case in Low range.

TORQUE SPECIFICATIONS - MPT3028C TRANSFER CASE

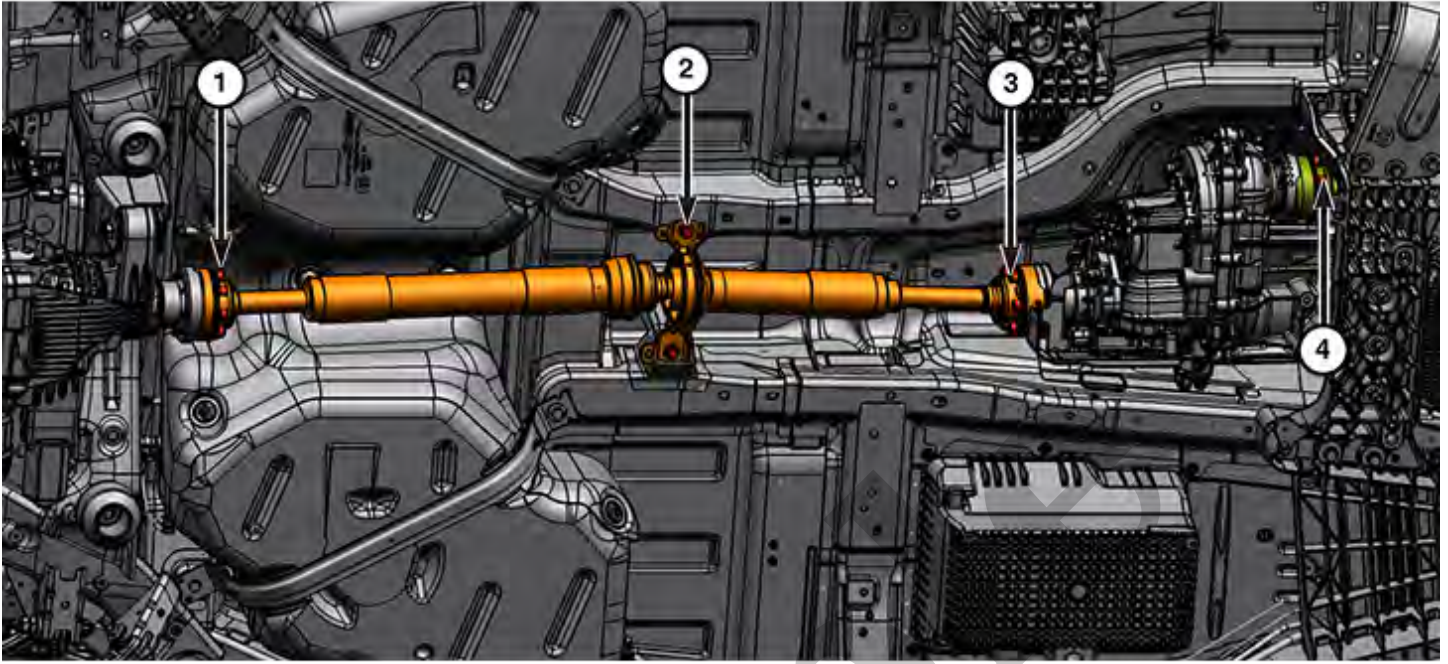
DESCRIPTION	SPECIFICATION	COMMENT
Bending Damper Bolts	25 N·m (18 Ft. Lbs.)	-
Case Bolts	22 N·m (16 Ft. Lbs.)	-
Drain/Fill Plug	27 N·m (20 Ft. Lbs.)	-
Output Flange Nut	165 N·m (122 Ft. Lbs.)	-
Shift Motor Mounting Bolts	25 N·m (18 Ft. Lbs.)	-
Shift Motor M8 Cover Bolt	11 N·m (97 In. Lbs.)	-
Shift Motor M10 Cover Bolts	25 N·m (18 Ft. Lbs.)	-
Torsional Damper Bolts	25 N·m (18 Ft. Lbs.)	-
Transfer Case Position Sensor Bolts	6 N·m (53 In. Lbs.)	-
Transfer Case to Transmission Bolts	48 N·m (35 Ft. Lbs.)	-



1 - Transfer Case Shift Motor Wire Harness Connector

2 - Transfer Case Position Sensor Wire Harness Connector

10. Disconnect the transfer case shift motor wire harness connector.
11. Disconnect the transfer case position sensor wire harness connector.



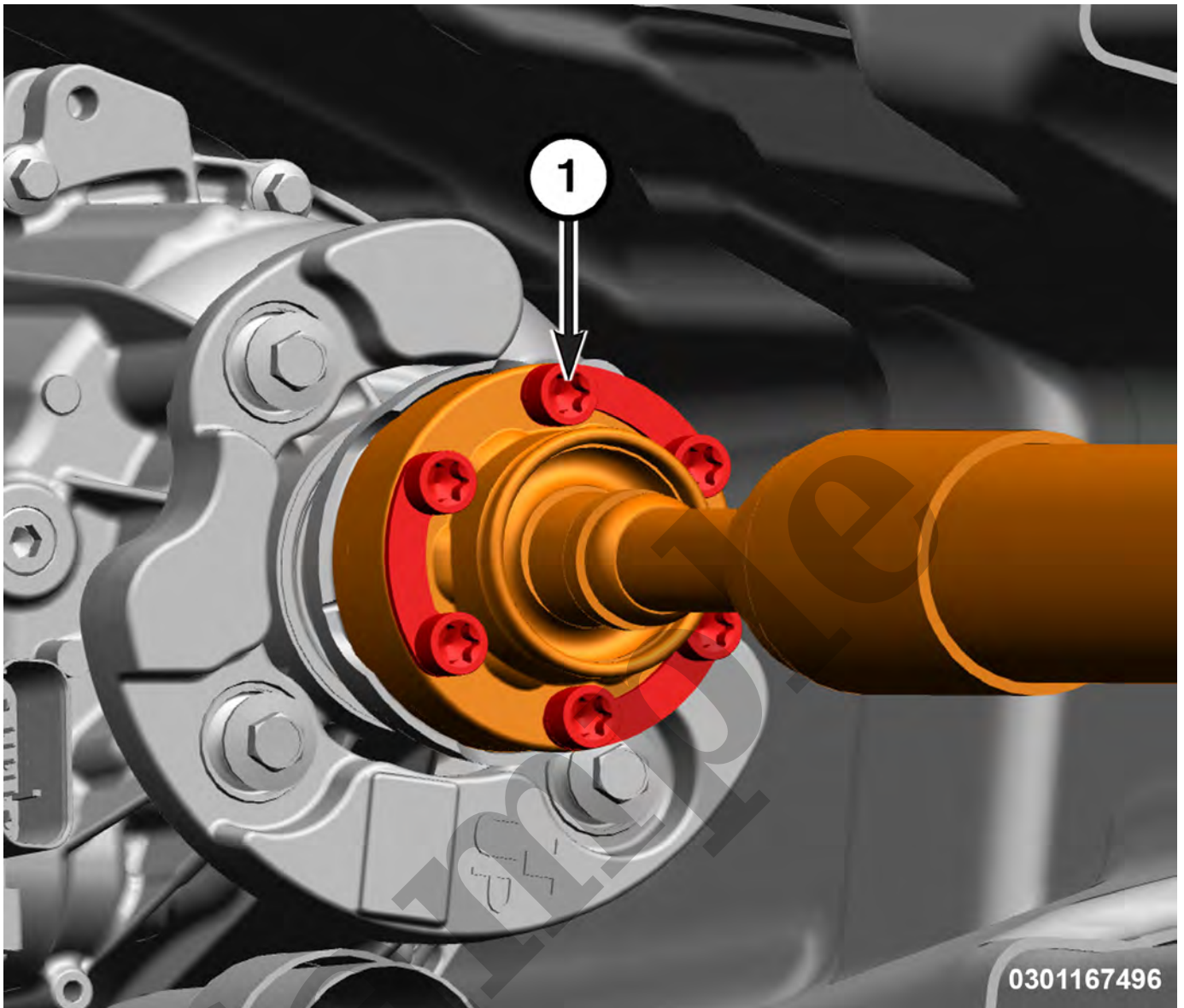
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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Rear Driveshaft to Rear Pinion Flange Bolts	56 N·m (41 Ft. Lbs.)	If removed, NEW bolts must be installed and tightened to specifications
2	Rear Driveshaft Center Support Bearing Bolts	55 N·m (41 Ft. Lbs.)	If removed, NEW bolts must be installed and tightened to specifications
3	Rear Driveshaft to Transfer Case Flange Bolts	56 N·m (41 Ft. Lbs.)	If removed, NEW bolts must be installed and tightened to specifications
4	Front Driveshaft to Transfer Case Flange Bolts	56 N·m (41 Ft. Lbs.)	If removed, NEW bolts must be installed and tightened to specifications

Refer To List:

List 1

- [13 - Frame and Bumpers / Under Body Protection / PLATE, Skid / Removal and Installation](#)
- [13 - Frame and Bumpers / Under Body Protection / PLATE, Stiffening / Removal and Installation](#)



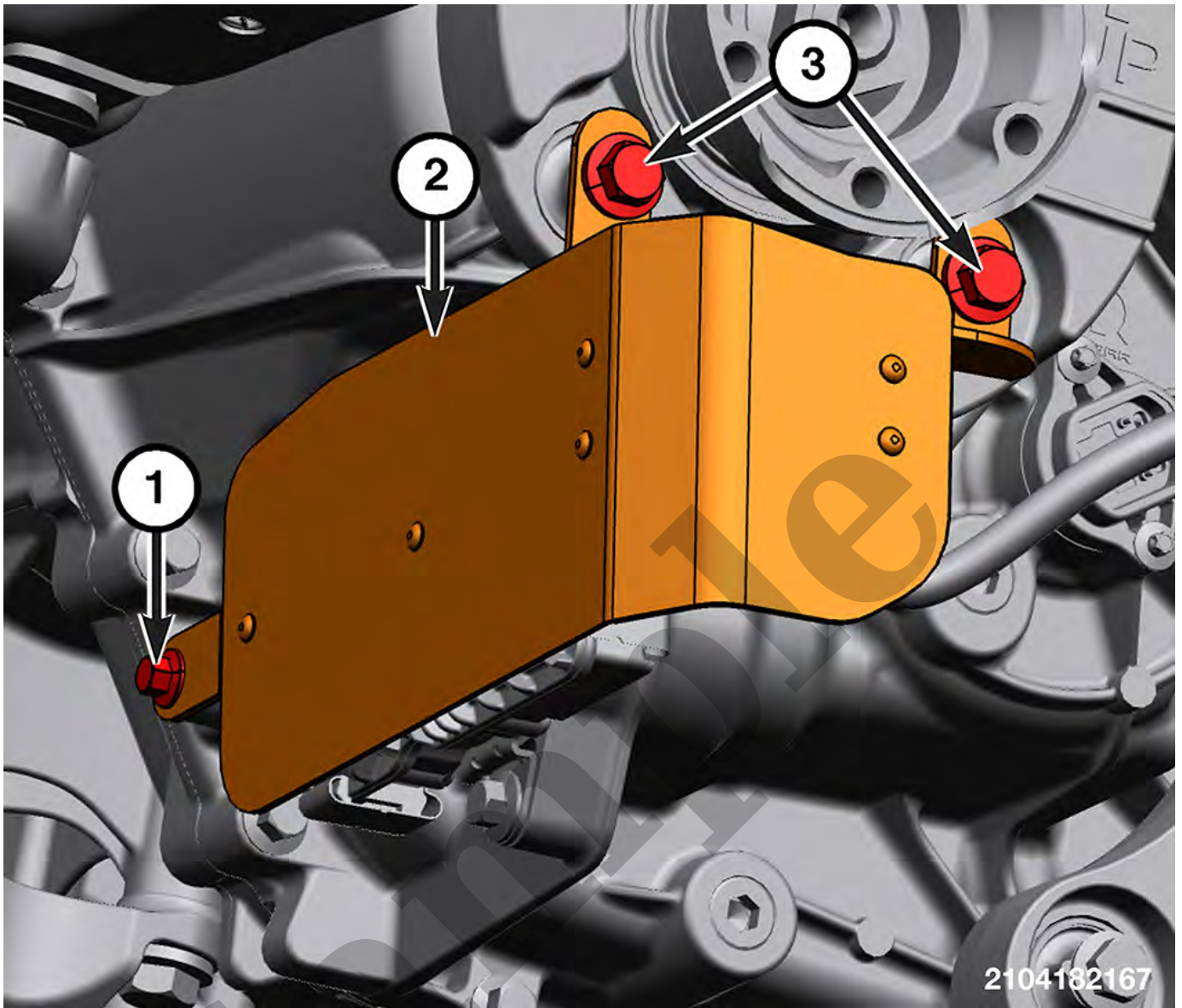
1 - Driveshaft To Flange Bolts

9. Mark the rear driveshaft and transfer case flange for reassembly alignment.

CAUTION

Do not allow the driveshaft to hang from the vehicle unsupported. Damage may occur to the joint, boot, and center bearing from over-angulation.

10. Support the driveshaft near the center bearing.



1 - Shift Motor M8 Cover Bolt

2 - Shift Motor M10 Cover Bolts

14. Remove the shift motor cover bolts and cover.

15. PHEV vehicle only, remove the transfer case bending damper.

NOTE

Do **NOT** perform scan tool routines other than PROXI Alignment when installing a transfer case that came already equipped with a new DTCM.

- If a new transfer case is installed, use the scan tool to perform a PROXI Configuration Alignment routine.

TORQUE SPECIFICATIONS - MPT3028C TRANSFER CASE

DESCRIPTION	SPECIFICATION	COMMENT
Bending Damper Bolts	25 N·m (18 Ft. Lbs.)	-
Case Bolts	22 N·m (16 Ft. Lbs.)	-
Drain/Fill Plug	27 N·m (20 Ft. Lbs.)	-
Output Flange Nut	165 N·m (122 Ft. Lbs.)	-
Shift Motor Mounting Bolts	25 N·m (18 Ft. Lbs.)	-
Shift Motor M8 Cover Bolt	11 N·m (97 In. Lbs.)	-
Shift Motor M10 Cover Bolts	25 N·m (18 Ft. Lbs.)	-
Torsional Damper Bolts	25 N·m (18 Ft. Lbs.)	-
Transfer Case Position Sensor Bolts	6 N·m (53 In. Lbs.)	-
Transfer Case to Transmission Bolts	48 N·m (35 Ft. Lbs.)	-

TORQUE SPECIFICATIONS - DRIVESHAFTS

1 - Input Shaft Seal

2. Using a suitable tool, remove the input shaft seal and **DISCARD** .

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.

- Use tool

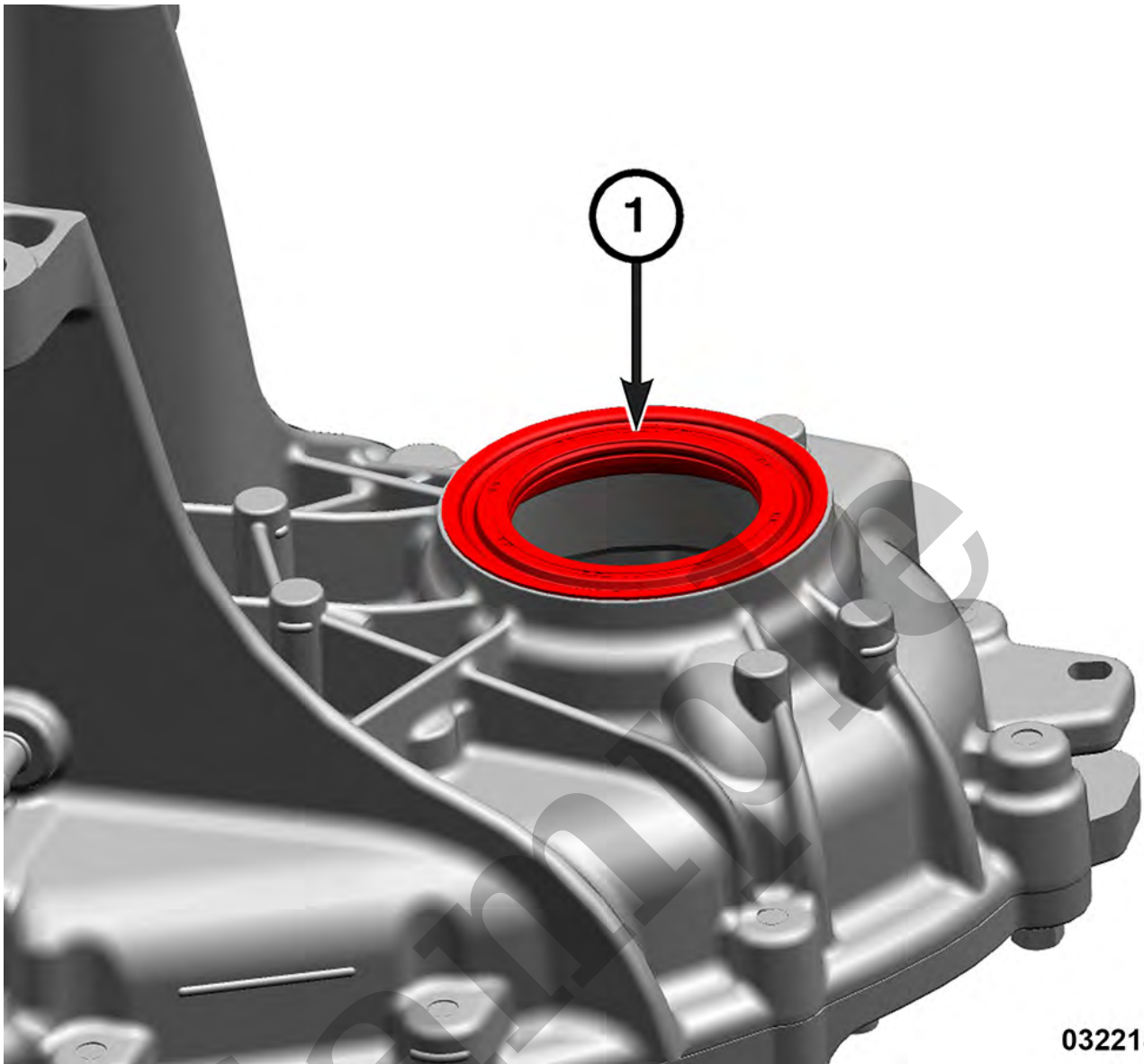
Installer, Input Shaft Seal



to install the **NEW** input shaft seal in the transfer case.

TORQUE SPECIFICATIONS - MPT3028C TRANSFER CASE

DESCRIPTION	SPECIFICATION	COMMENT
Bending Damper Bolts	25 N·m (18 Ft. Lbs.)	-
Case Bolts	22 N·m (16 Ft. Lbs.)	-
Drain/Fill Plug	27 N·m (20 Ft. Lbs.)	-
Output Flange Nut	165 N·m (122 Ft. Lbs.)	-



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1 - Front Output Shaft Seal

3. Using a suitable tool, remove the front output shaft seal and **DISCARD** .

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.

- Use tool

Installer, Seal