35–040 Fixing eAxle Oil Seepage at the Shift to Neutral Tool/Plug Location

TSB-35-040-FTL

Creation Date:2024-01-25

Engine or Vehicle Affected:

- eM2
- eCascadia

General Information

If a vehicle has the signs of oil seepage on the right-hand (RH) side of the rear-rear axle of a 6X4 configuration, it is likely that the shift tool is responsible for this issue. Follow the instruction below to correct the oil leak.

Parts Required

See Table 1 for a list of parts.

Table 1, Parts Table

Parts Table		
Part Number	**Part Description**	**Quantity**
LocTite 567	Sealant	As needed
DDE N007603006108	SEALRINGDIN7603-A6,5X9,5-CU	1
DDE N007603024105	Ring, General	1

Table 1, Parts Table

Fixing eAxle Oil Leaks at the Shift to Neutral Tool/Plug Location

> ⚠ **Danger:** Service and repair of the electric vehicle should only be performed by technicians that have completed HV3 Daimler Safety training. To prevent personal injury or death, or damage to the electric system, do not attempt repairs yourself.

1. Park the vehicle on a level surface, shut down the vehicle, and set the parking brake. Chock the tires.
2. Clean the area around shift tool.
3. Remove the center bolt using a long T30 Torx driver. See Figure 1.

Bolt Removal

1. Center Bolt

Fig. 1, Bolt Removal

4. Remove and discard the crush washer (DDE N007603006108). See Figure 2.

Crush Washer

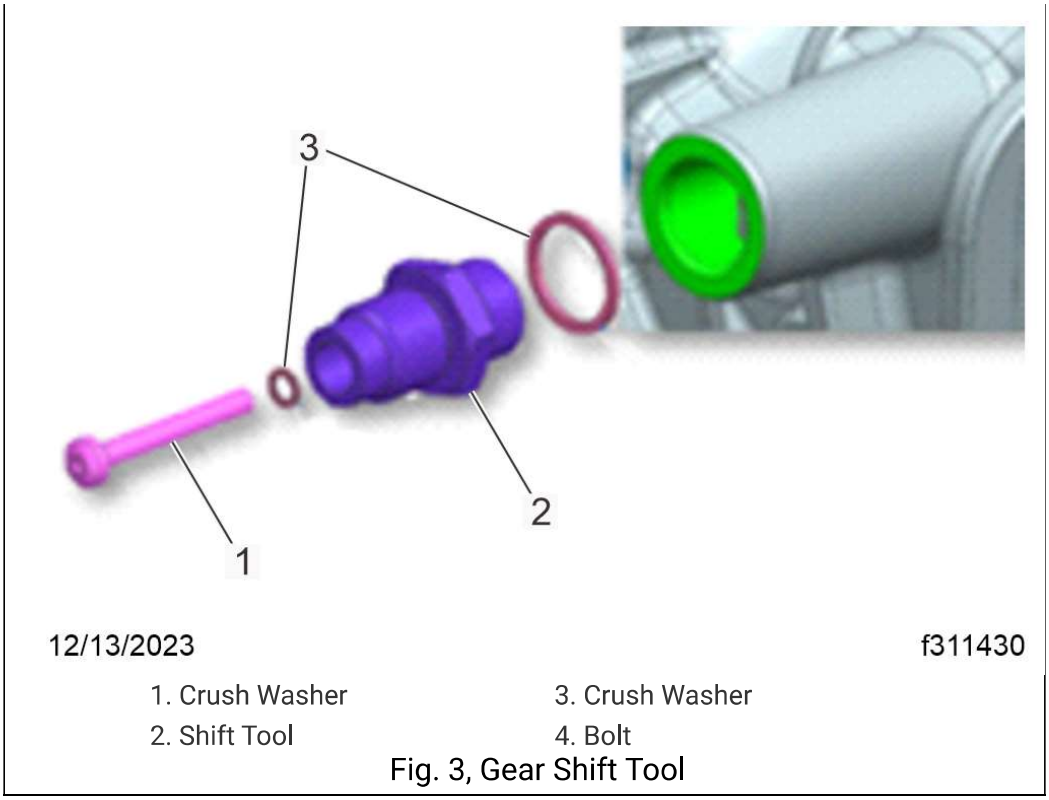
Fig. 2, Crush Washer

5. Remove the shift tool using a 30 mm socket, and discard the crush washer. See Figure 3.

   Note: Apply a small amount of LocTite 567 to the threads.

6. Install the new crush washer (DDE N007603 024105) on the shift tool, and install the tool in the same orientation from which it was removed. Tighten the tool 85±9 lb·ft (115±12 N·m). See Figure 3.

Gear Shift Tool



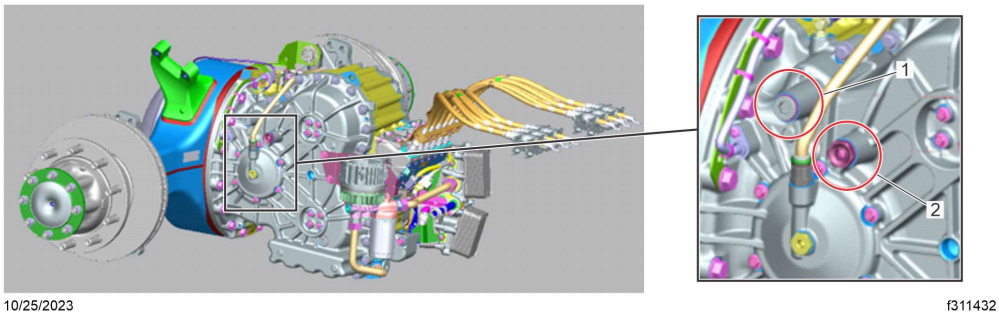
1. Crush Washer
2. Shift Tool
3. Crush Washer
4. Bolt

Fig. 3, Gear Shift Tool

Note: Apply a small amount of LocTite 567 to the threads.

7. Ensure the new crush washer is correctly positioned and then install the center bolt. Tighten the center bolt 89±9 lb·in (1000±100 N·cm). See Figure 4.

Shift Plug and Neutral Tool Storage in Drive Position



1. Shift Plug Installed
2. Neutral Tool Storage

Fig. 4, Shift Plug and Neutral Tool Storage in Drive Position

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See Table 2 for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the Service Bulletin # field.

Table 2, OWL VMRS Codes and Labor Allowance

Damage Code and Time Guide Information						
Primary Failed Part	**Component Code**	**Cause Code**	**Correction Code**	**SRT Code**	**Description**	**Hours**

DDE N007603006108	039-006-102	18	3	420-5081A	SEALING RING - SHIFT LOCK FITTING, ELECTRIC CARRIER, ELECTRIC VEHICLE	0.2

Table 2, OWL VMRS Codes and Labor Allowance

Note

Component Code/VMRS = 039-006-102 SEALING RING - SHIFT LOCK FITTING, ELECTRIC CARRIER, ELECTRIC VEHICLE

Note:

039-006-102
F37,F38
REMOVE,REPAIR,REPLACE,ASSEMBLE,INSTALL,ADJUST

CONTACT INFORMATION

For questions, please create a Service Technical Request using the DTTS Application on the DTNA Portal.

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