

General Information

The shift levers on Western Star 4700 Model vehicles may experience interference between the cab and the shift lever, which could result in the transmission popping out of 6th and/or 8th gear. A change was made to product design to correct this potential problem. If you receive a customer complaint for a transmission popping out of gear, refer to the table of eligible BOMs, and update the vehicle with the new part.

Parts

See [Table 1](#) for eligible BOMs and the new BOMs.

The replacement shift adapter is available through the PDCs. See [Table 2](#).

BOMs	
Original BOM	New BOM
345-F00800	345-F00822
345-F00803	345-F00823

Table 1, BOMs

Parts Needed		
Part Number	Description	Qty.
07-23853-000	ADAPTER—SHIFT LEVER, 159 MM	1

Table 2, Parts Needed

Procedure

1. Park the vehicle on a level surface, shut down the engine, and chock the tires.
2. Remove the right-hand cab skirt, located below the cab door.
3. Remove the shift boot ring from the cab floor. Slide the boot up to allow access through the cab floor.
4. Using a straightedge and masking tape, mark the angle of the shift lever adapter on the cab floor. See [Fig. 1](#).
5. Remove the wiring tie strap from the shift lever adapter. See [Fig. 2](#).
6. Remove the shift tower, shift lever, and shift lever adapter as an assembly from the transmission. Pull the assembly into the cab through the shift lever opening.
7. Remove the shift lever and the shift tower from the adapter.
8. Clean the shift tower transmission gasket.
9. Apply Eaton sealant #71205, or equivalent, to the shift tower capscrews. Install the shift tower. Tighten the capscrews 35 to 45 lbf-ft (47 to 61 N-m).
10. Install the new shift lever adapter as follows:
 - 10.1 Apply Loctite® 271 to both capscrews.
 - 10.2 Loosely install the capscrews that attach the adapter to the shift lever and the transmission.
 - 10.3 Orient the adapter to the proper angle, using a straightedge and the previously placed masking tape as a guide. See [Fig. 1](#). The shift knob should point directly forward.

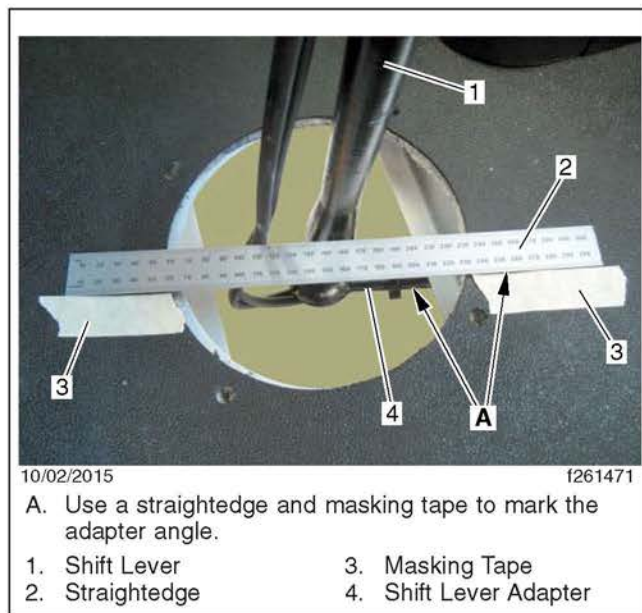
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Fig. 1, Marking the Adapter Angle

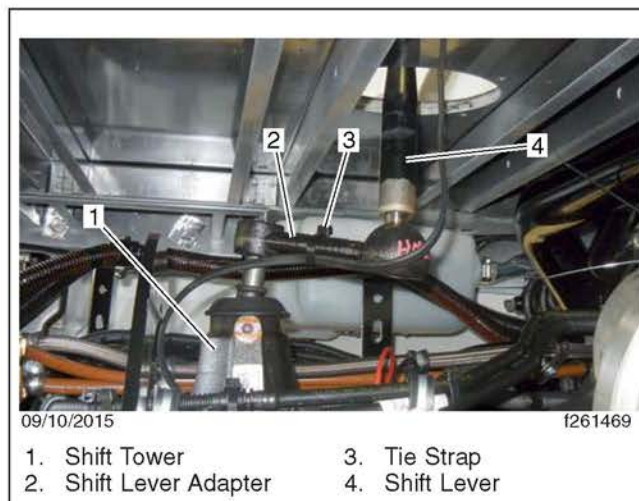


Fig. 2, Shift Linkage

10.4 Tighten the capscrews 67 to 73 lbf-ft (91 to 99 N·m).

11. Adjust the orientation of the shift knob if needed.
12. Check that the shift lever has the full range of motion. If necessary, refer to the installation diagram listed in PartsPro for the VIN, and using EZ-Wiring to view the diagram, confirm that the installation angle is correct.
13. Attach the shift lever wiring to the adapter with a tie strap.
14. Slide the shift boot down, then attach the shift boot ring to the cab floor.
15. Install the right-hand cab skirt.
16. Add a global annotation to PartsPro to reflect the vehicle modification. See **Parts Technical Bulletin 00-009**.

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 3](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
07-22031-003	026-011-198	09	345-5040A	ADAPTER, SHIFT LEVER, R/R (SB26-03)	1.6

Table 3, OWL VMRS Codes and Labor Allowance