

Recall Campaign

Daimler Trucks
North America LLC

August 2009
FL551A
NHTSA #09V-226

Work Instructions

Subject: Western Star Battery Disconnect Switch Power Cable Routing

Models Affected: Specific Western Star 4900 standard cab height vehicles manufactured November 10, 2008, through May 7, 2009, with a Detroit Diesel DD15 engine and a battery disconnect switch inside the cab.

IMPORTANT: If power cables are found to be damaged, they are to be replaced; the need to replace the cables must be included in the claim story. An aftermarket harness will be available shortly. When it is, dealers may claim part number A06-59521-000 without additional authorization. Until this harness is available, dealers may fabricate the power cables and claim an additional 0.6 hours as 996-0000T. Dealers must submit an inquiry for authorization of the additional parts and labor in order to include it on claims until the harness is available. Up to \$4.50 for wire ties may be claimed without additional authorization.

Relocate Battery Cables

1. Check the base label (Form WAR259) for a completion sticker for campaign FL551 (Form WAR260) indicating this work has been done. The base label is usually located on the passenger-side door about 12 inches (30 cm) below the door latch. If a completion sticker for this campaign is present, no further work is needed. If a completion sticker for this campaign is not present, proceed to the next step.
2. Shut down the engine, apply the parking brake, and chock the tires.
3. Disconnect the batteries at the negative terminals, and open the hood.
4. Inspect the battery cables. On affected vehicles, the battery cable is routed on the inboard side of the windshield washer bottle. See **Fig. 1**.
5. Remove the valence panel, located below the driver-side door.
6. From under the cab, disconnect the battery cables at the cab disconnect switch.
7. Remove the p-clamps and wire ties that secure the battery cables to the cab underbody, and remove the electrical tape that binds the two battery cables. See **Fig. 2**. Save the p-clamp assemblies, including all bolts, flatwashers, lockwashers, and nuts for installation.
8. Disconnect the cables all the way to the frontwall where the cable is bundled next to the magnetic switch.
9. Route the cables forward and to the outside of the windshield washer reservoir. Route the cables above the air horn, if equipped, and ensure they are routed above any hoses and wiring.
10. Ensure the air horn is mounted to the rearward side of the mounting bracket. See **Fig. 3**.
11. Connect the cables to the cab disconnect switch.
12. Secure the cables together with wire ties every 8 inches.
13. Drill a 1/4-inch (6-mm) hole on the forward cab crossmember, 2 inches (50 mm) inboard from the edge of the cab. Orient the hole on the rear edge of the crossmember. See **Fig. 4**.
14. Attach one of the p-clamps removed earlier to the cable.
15. Secure the cable to the cab crossmember with a 1/4-20 bolt, flatwasher, lockwasher, and a nut. Tighten the nut 12 lbf-ft (16 N-m). See **Fig. 5**.

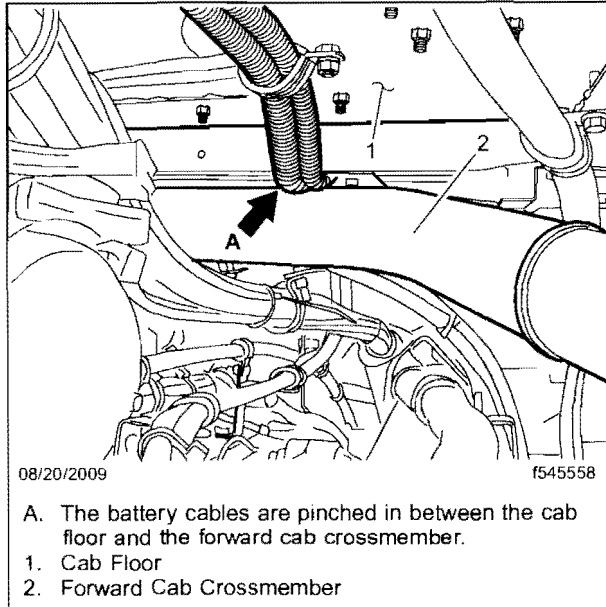


Fig. 1, Incorrect Cable Installation

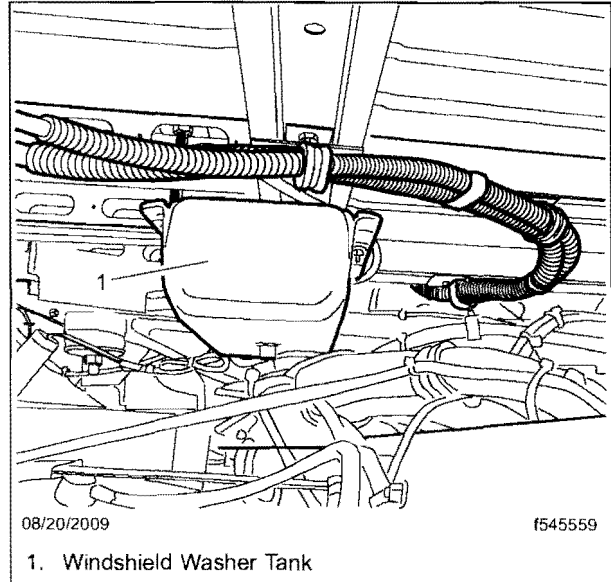


Fig. 2, Remove the P-Clamps

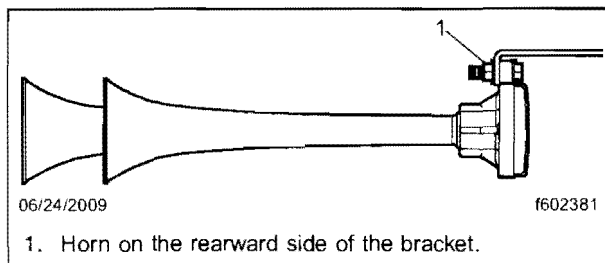


Fig. 3, Air Horn Mounting

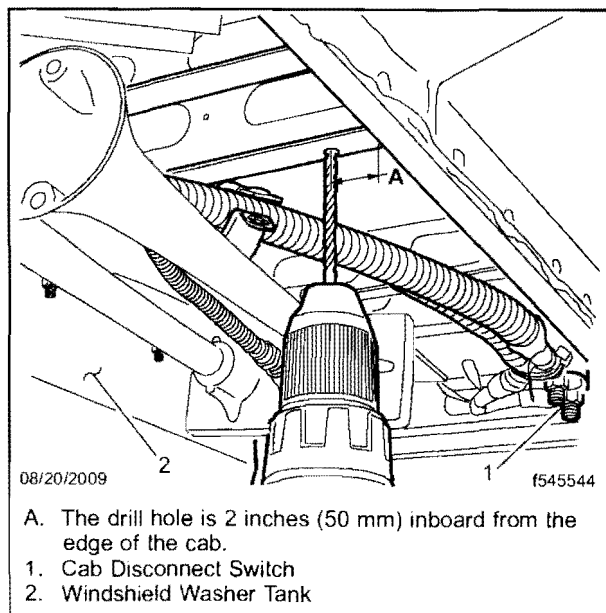


Fig. 4, Drilling the Hole in the Forward Cab Crossmember

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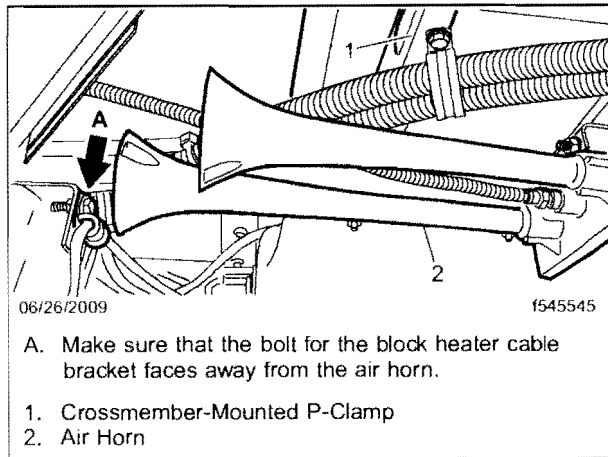


Fig. 5, Battery Cable Mounting

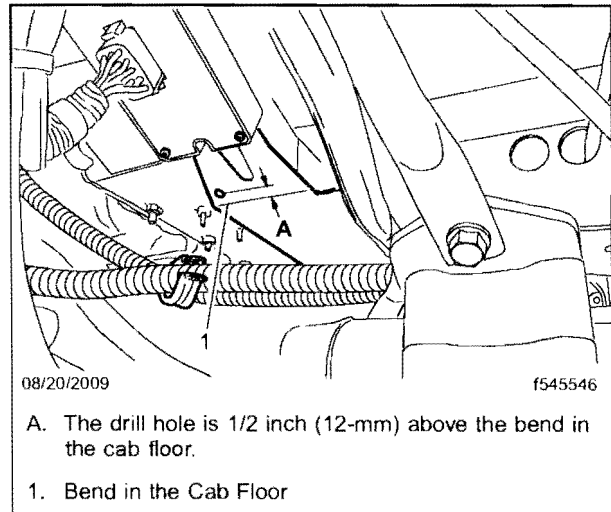


Fig. 6, P-Clamp Mounting Hole

NOTE: Make sure the mounting bolt for the block heater cable faces forward to prevent interference with the air horn.

16. Drill another 1/4-inch (6-mm) hole 1/2 inch (12-mm) above the bend where the cab floor begins to angle upward to the frontwall. See **Fig. 6**.
17. Attach another p-clamp to the cable. Secure the p-clamp to the bend in the cab floor using a 1/4-20 bolt, flatwasher, lockwasher, and a nut. Tighten the nut 12 lbf·ft (16 N·m).
18. Install the remaining clamps on the edge of the engine tunnel making sure there is clearance between the engine and the cables. Tighten the p-clamp nuts 12 lbf·ft (16 N·m). See **Fig. 7**.
19. Route the cables up the engine tunnel by using wire ties to secure to existing wiring and brackets.
20. Bundle any slack in the cables to the harness on the frontwall of the vehicle where it was previously removed. Use wire ties to secure the bundle. See **Fig. 8**.
21. Connect the batteries.

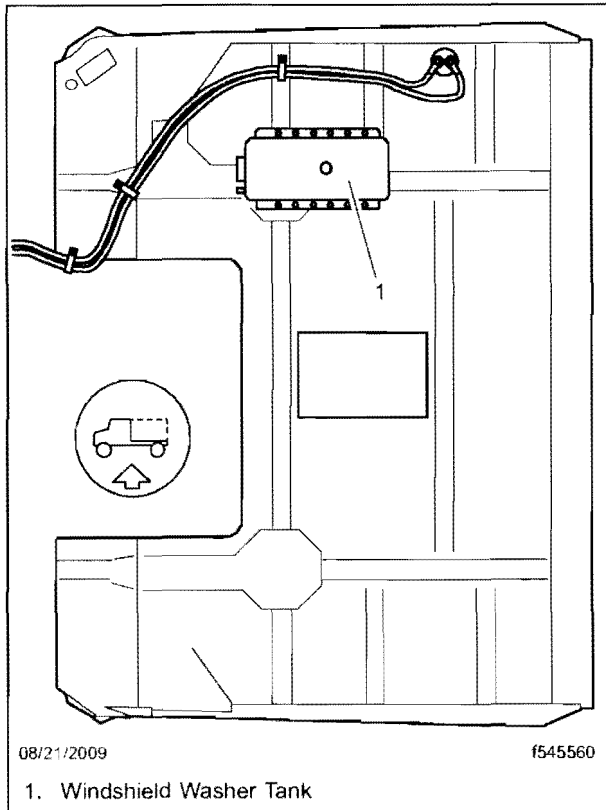


Fig. 7, Cable Routing, Bottom View

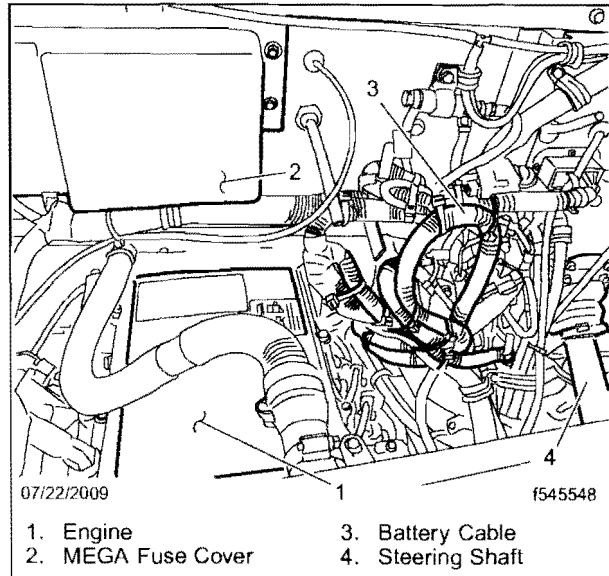


Fig. 8, Cable Mounting on the Cab Frontwall

22. Clean a spot on the base label (Form WAR259). Attach a completion sticker for FL551 (Form WAR260) to the base label.
23. Remove the chocks from the tires.