

SERVICE PROCEDURE

15509
July, 2015

**SUBJECT: SAFETY RECALL
LINEAR POWER MODULE (LPM) on certain AC and HC commercial bus, DuraStar[®], LoneStar[®], ProStar[®], TerraStar[®], TranStar[®], and WorkStar[®] models built 01 January 2013 thru 10 March 2014 with the suspect LPM and on the same models built from 20 January 2010 through 31 December 2012 that may have had LPM replacement with the suspect LPM.**

DEFECT DESCRIPTION

A jump start or electrical load dump event could result in an overvoltage condition of the cab Linear Power Module (LPM). The overvoltage condition could eventually cause overheating of the LPM circuit board. Overheating of the LPM circuit board may cause a vehicle fire resulting in property damage, personal injury, and / or death.

MODELS INVOLVED

This safety recall involves certain AC and HC commercial bus, DuraStar[®], LoneStar[®], ProStar[®], TerraStar[®], TranStar[®], and WorkStar[®] models built 01 January 2013 thru 10 March 2014 with the suspect LPM and on the same models built from 20 January 2010 through 31 December 2012 that may have had LPM replacement with the suspect LPM.

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International[®] Service PortalSM with Safety Recall 15509. Also complete any other open campaigns listed on the International Service Portal at this time.

PARTS INFORMATION

Part Number	Part Description	Quantity
8900262R91	Kit, Linear Power Module	1

8900262R91 contains the following parts:

Part Description	Quantity
Linear Power Module (LPM)	1

SERVICE PROCEDURE

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, PARK VEHICLE ON HARD FLAT SURFACE, TURN THE ENGINE OFF, SET THE PARKING BRAKE AND INSTALL WHEEL CHOCKS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.

WARNING! TO PREVENT PERSONAL INJURY AND / OR DEATH, ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE.

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, KEEP FLAMES OR SPARKS AWAY FROM VEHICLE AND DO NOT SMOKE WHILE SERVICING THE VEHICLE'S BATTERIES. BATTERIES EXPEL EXPLOSIVE GASES.

WARNING! TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, REMOVE THE GROUND CABLE FROM THE NEGATIVE TERMINAL OF THE BATTERY BOX BEFORE DISCONNECTING ANY ELECTRICAL COMPONENTS. ALWAYS CONNECT THE GROUND CABLE LAST.

1. Park vehicle on flat surface with wheels straight ahead.
2. Shift transmission to Park or Neutral and set parking brakes.
3. Install wheel chocks.

NOTE: Some vehicle models may require removing the skirt panel to remove the battery box cover.

4. Unlatch and remove battery box cover. If necessary, remove skirt panel.
5. Disconnect ground cable from negative battery terminal.

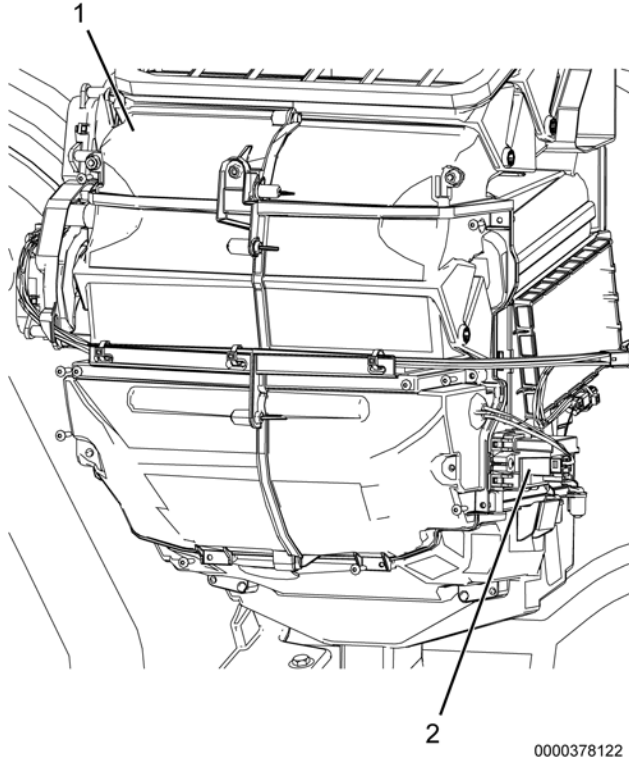


Figure 1. Floor Duct Trim Panel.

1. HVAC housing trim panel
2. Passenger floor duct trim panel
3. Bolt

NOTE: Save screw and bolt for reinstallation.

6. Remove screw from passenger-side door interior trim sill plate.
7. Remove bolt (Figure 1, Item 3) from floor duct trim panel (Figure 1, Item 2).
8. Using fiber stick or equivalent, disengage locking clips securing passenger floor duct trim panel to HVAC housing trim panel (Figure 1, Item 1).
9. Carefully remove passenger floor duct trim panel.



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Figure 2. Interior HVAC Module.

- 1. Interior HVAC module
- 2. Linear Power Module (LPM)

10. Access interior HVAC module (Figure 2, Item 1) and locate LPM (Figure 2, Item 2).

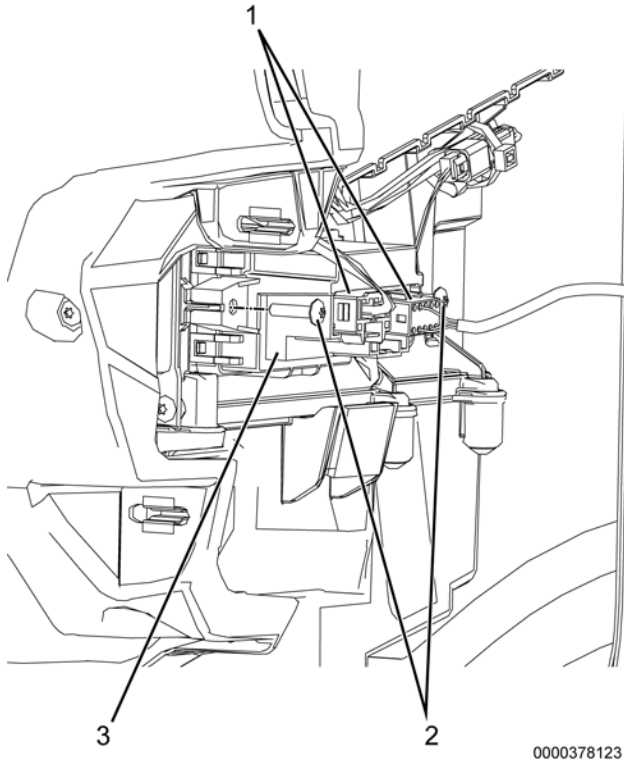


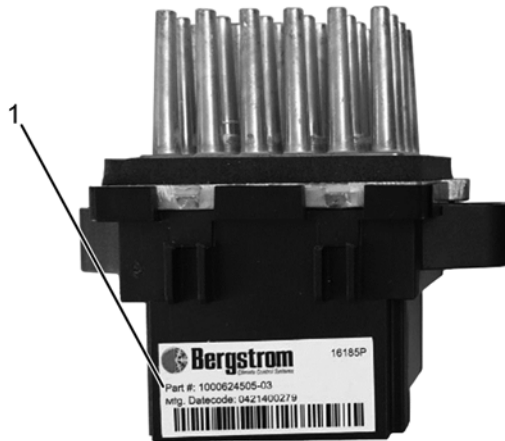
Figure 3. Linear Power Module.

1. LPM electrical connector (2)
2. Screw (2)
3. LPM

11. Disconnect two LPM electrical connectors (Figure 3, Item 1).

NOTE: Save screws for reinstallation.

12. Remove two screws (Figure 3, Item 2) securing LPM (Figure 3, Item 3), and remove LPM.



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Figure 4. Linear Power Module Part Number Label.

1. Part number

13. Inspect Bergstrom Part Number (Figure 4, Item 1) on top of LPM:

- a) If Bergstrom Part Number is 1000624505-XX, LPM does not require replacement. Reinstall LPM to interior HVAC module and secure with two screws. Using torque wrench, tighten screws to 20 lb-in (2.2 N·m). Proceed to Step 15.
- b) If Bergstrom Part Number is 1000326858-XX, LPM requires replacement. Proceed to Step 14.

14. If necessary, install new LPM to interior HVAC module and secure with two screws. Using torque wrench, tighten screws to 20 lb-in (2.2 N·m).

NOTE: If the vehicle you are working on has a blower motor that is already running on high speed all the time, the following harness and connector inspection steps MUST be performed.

15. Inspect both electrical connectors to LPM and repair any harness terminal or connector that does not pass the following inspections:

- a) Test all harness female terminals using a quick blade with wire push-in, pull-out test. Female terminals must securely grip a male terminal, one at a time.
- b) Inspect that each individual harness terminal has not backed out of its connector shell. Test using moderate push with a blunt screwdriver.

c) When connected, both connectors should be absolutely secure / latched in place and each wire crimp properly secured.

16. Connect two electrical connectors to LPM.
17. Slip passenger floor duct trim panel under passenger-side door interior trim sill plate.
18. Position floor duct trim panel with HVAC housing trim panel. Align and engage trim panel locking clips. Install bolt into floor duct trim panel.
19. Install screw to passenger-side door interior trim sill plate.
20. Connect ground cable to negative battery terminal.
21. Test for proper blower operation.
22. Install and latch battery box cover. If necessary, install skirt panel.
23. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-15509-1	Replace LPM	0.5 hr

CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected in accordance with this campaign must be marked with a CTS-1075 Campaign Identification Label.

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

DO NOT REMOVE
INTERNATIONAL
Campaign No.
VIN Eng.#
COMPLETED
Service Location Code #
DO NOT REMOVE

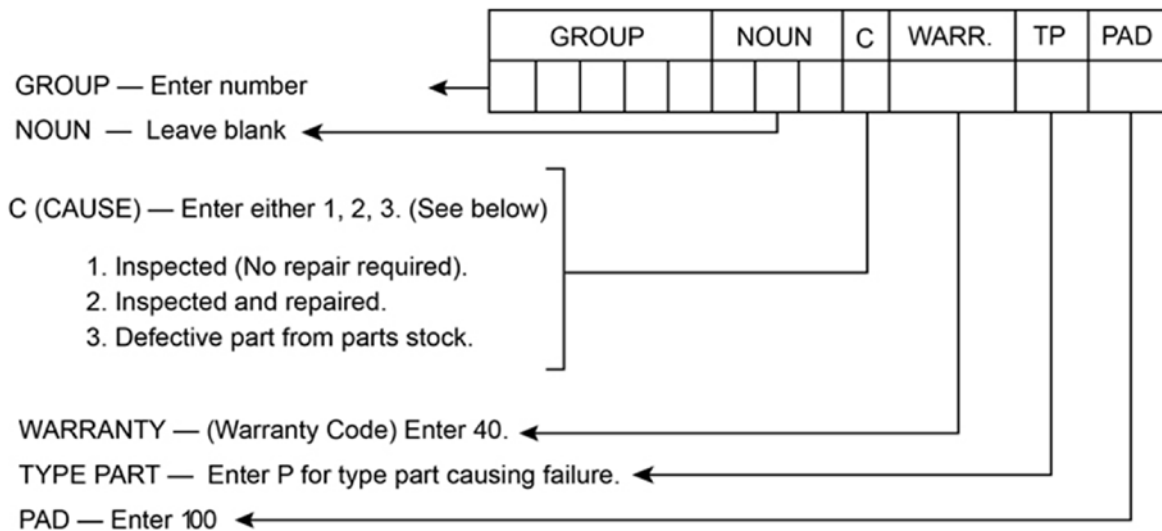
ADMINISTRATIVE / DEALER RESPONSIBILITIES

WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Safety Recall 15509.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Policy Manual, Section 7.1.8.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, a barrel of oil, or a tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.



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UNITED STATES AND POSSESSIONS

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to replacement with an identical or reasonable equivalent vehicle at no charge, or to a refund of the purchase price less a reasonable allowance for depreciation.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

CANADA

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

EXPORT

Export Distributors should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your distributor location.

Export Distributors are to submit warranty claims in the usual manner making reference to this recall number.

Export Distributors are expected to provide full cooperation and follow-up with respect to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

NAVISTAR, INC.