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Compliance Dept. Compliance Dept.
SERVICE PROCEDURE

14516

FEBRUARY 2015

SUBJECT: SAFETY RECALL

No Idle HVAC Module Harness on certain LoneStar® and ProStar® models built 16 December 2008 thru 20 June 2014 with feature code 16UZL: No Idle Heating, Ventilation, and Air Conditioning (HVAC) module.

DEFECT DESCRIPTION

The electrical harness supplying power to the No Idle HVAC system may not be of sufficient size for the electrical load of the circuit. This can cause voltage drop and an increase in resistance and heating at the connectors. An increase in resistance and heating at the connectors may cause a vehicle fire resulting in property damage or personal injury.

MODELS INVOLVED

This Safety Recall involves certain LoneStar® and ProStar® models built 16 December 2008 thru 20 June 2014 with feature code 16UZL: No Idle Heating, Ventilation, and Air Conditioning (HVAC) module.

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with Safety Recall 14516. Also complete any other open campaigns listed on the Service Portal at this time.

TOOLS INFORMATION

Tool Number	Description
12094430	Tool, Pin Removal (Part of ZTSE4443)

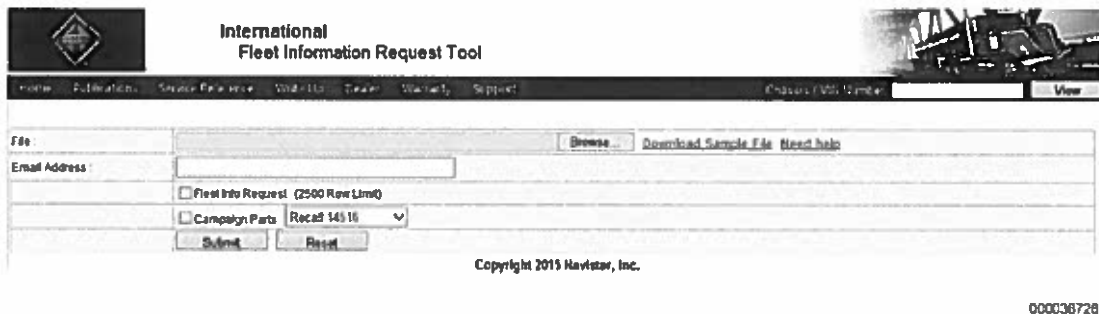
PARTS INFORMATION

NOTE: Each vehicle will require one Bergstrom APU Kit and one battery cable.

NOTE: DO NOT preorder battery cables for inventory. Once customer repair request is confirmed, order a new battery cable specific for that vehicle based on the original battery cable part number the unit was built with.

NOTE: There are two methods to verify which battery cable the vehicle was built with:

A. Parts Online Catalog



The screenshot shows the 'International Fleet Information Request Tool' web interface. At the top, there is a navigation menu with links for Home, Publications, Service Excellence, Vehicle Info, Dealer, Warranty, and Support. A search bar for 'Chassis / VIN Number' is also present. The main form area includes a 'File' upload section with a 'Browse...' button and links for 'Download Sample File' and 'Need help'. Below this is an 'Email Address' field. There are two checkboxes: 'Fleet Info Request (2500 Row Limit)' and 'Campaign Parts'. The 'Campaign Parts' checkbox is selected, and a dropdown menu shows 'Recall 14516'. At the bottom of the form are 'Submit' and 'Reset' buttons. The footer contains 'Copyright 2015 Navistar, Inc.' and the ID '0000387281'.

Figure 1. Fleet Information Request Tool.

B. Fleet Information Request Tool (Figure 1) via VIN submission:

- i. Navigate to International® Service PortalSM, select **WARRANTY**, then **FLEET INFORMATION REQUEST TOOL** (https://evaluate.internationaldelivers.com/service/service_info/FleetInfoRequestTool.aspx).
- ii. Upload a complete VIN list (sample format provided on Request Tool web site).
- iii. Click on **CAMPAIGN PARTS** and select the associated recall.
- iv. Click on **SUBMIT**.
- v. An e-mail will be sent to the requestor depicting appropriate battery cable associated with the VIN list submitted.

Part Number	Part Description	Quantity
2513547C91	Kit, Bergstrom APU	1
4047811C91	Cable, Battery (Replaces 3838192C91)	As Needed
4047810C91	Cable, Battery (Replaces 3838206C92)	As Needed
4051667C91	Cable, Battery (Replaces 3712820C91)	As Needed
4051668C91	Cable, Battery (Replaces 3878461C91)	As Needed
4051669C91	Cable, Battery (Replaces 3847380C92)	As Needed
4051670C91	Cable, Battery (Replaces 3712850C91)	As Needed
4051671C91	Cable, Battery (Replaces 3838548C91)	As Needed
4051968C91	Cable, Battery (Replaces 3712034C91)	As Needed
Purchase Locally	Strap, Tie	As Required

2513547C91 Kit Contents.

Part Description	Quantity
Decal	1
Screw, #10 x 1/2 Self Tapping	2
Relay, High Current (150A Relay)	1
Bracket, Relay	1
Gasket, Bracket Relay	1
Strap, Tie with Fir Tree	8
Screw	2
Nut, M6	2
Harness, Power	1
Harness, Relay Control	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 PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, READ ALL SAFETY INSTRUCTIONS IN THE "SAFETY INFORMATION" SECTION OF THE SERVICE MANUAL OR DIAGNOSTIC MANUAL.

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, MAKE SURE ENGINE HAS COOLED BEFORE REMOVING COMPONENTS.

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. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral and set parking brakes.
3. Install wheel chocks.
4. Open battery box and disconnect negative battery cables, MaxxPower[®] harness, and 50 amp power fuse from batteries.
5. Cut and remove tie straps from MaxxPower harness. Discard tie straps.

VEHICLE RECALL 14516

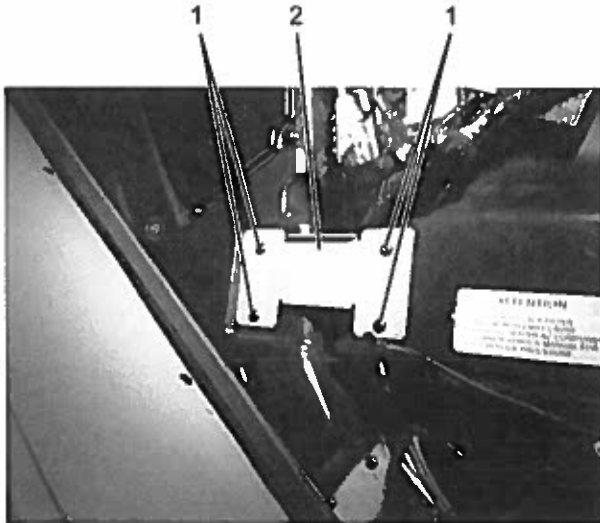
6. Open sleeper compartment.



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Figure 2. Control Center Harness.

1. Control center
 2. Control center harness 4-way connector
7. Disconnect control center harness 4-way connector (Figure 2, Item 2) from harness connector near control center (Figure 2, Item 1).
 8. Remove battery cable from vehicle. Discard battery cable.

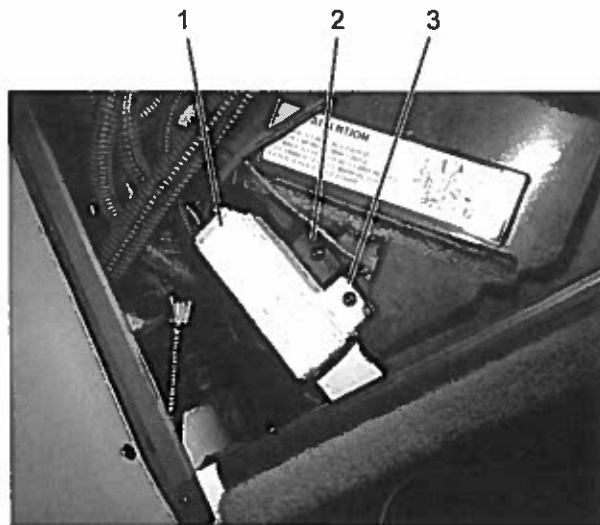


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Figure 3. Top Support Bracket.

1. Screw (4)
2. Top support bracket

9. Remove four screws (Figure 3, Item 1) and top support bracket (Figure 3, Item 2) from vehicle.



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Figure 4. Power Center Cover.

1. Power center cover
2. Power center
3. Screw

10. Remove screw (Figure 4, Item 3) and cover (Figure 4, Item 1) from power center (Figure 4, Item 2).

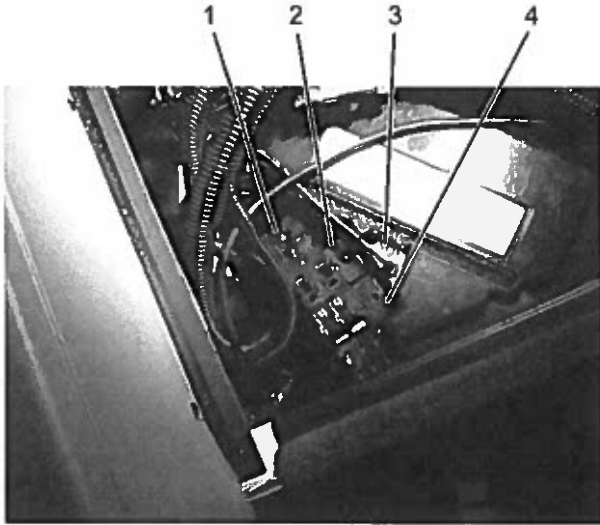


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Figure 5. 70 Amp Relay and 60 Amp Compressor Fuse.

1. 70 amp relay
2. 60 amp compressor fuse
3. Control center

11. Remove 70 amp relay (Figure 5, Item 1) and 60 amp compressor fuse (Figure 5, Item 2) from control center (Figure 5, Item 3). Discard relay and fuse.



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Figure 6. Control Center and End Section.

1. End section
2. Screw
3. Support bracket
4. Control center

12. Remove screw (Figure 6, Item 2) from control center (Figure 6, Item 4) and slide control center off support bracket (Figure 6, Item 3).

13. Remove RED locking clip and release end section (Figure 6, Item 1) from control center (Figure 6, Item 4).

NOTE: The yellow tabs will unlock the two control wires.

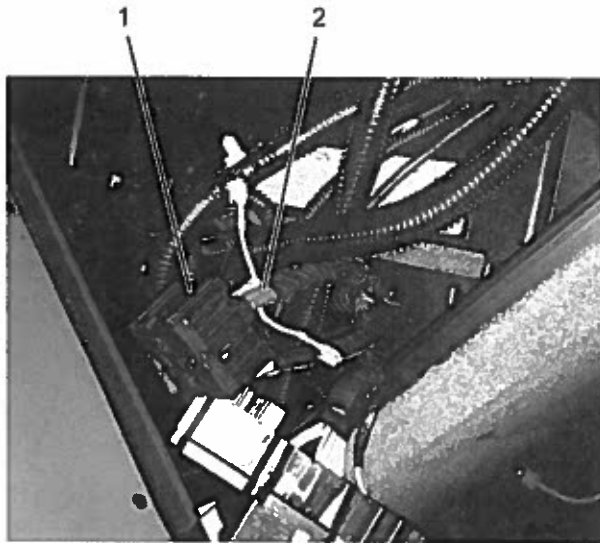
14. Using pin removal tool, push YELLOW pins down in removed end section.

15. Using pin removal tool, unpin and release two control terminals from removed end section.

NOTE: There are two small locking tabs on GREEN wires.

16. Pull two GREEN wires out of relay control circuit of removed end section.

17. Inspect terminals and verify locking tabs are not damaged.



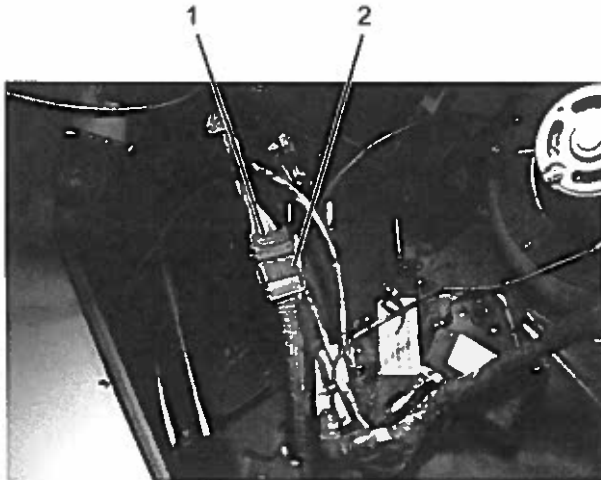
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Figure 7. Control Center Assembly Harness.

1. Wire (3) (two not shown)
2. Control center assembly harness

NOTE: Do not cut previously removed GREEN wires.

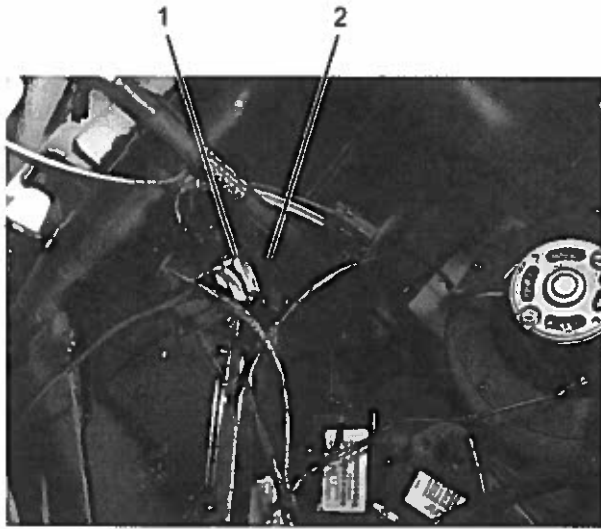
18. Cut and discard remaining 3 wires (Figure 7, Item 1) from control center assembly harness (Figure 7, Item 2).
19. Cut and discard control center assembly harness 4-way connector at breakaway.



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**Figure 8. Control Center Assembly
Harness 4-Way Connector.**

1. Compressor controller harness 4-way connector
 2. Control center assembly harness 4-way connector
20. Disconnect control center assembly harness 4-way connector (Figure 8, Item 2) from compressor controller harness 4-way connector (Figure 8, Item 1).
21. Cut and discard control center assembly harness 4-way connector (Figure 8, Item 2) at breakaway.

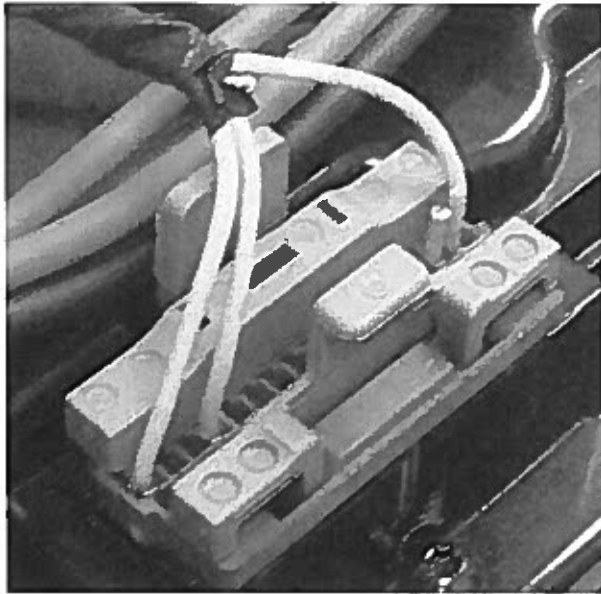


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**Figure 9. Control Center Assembly
Harness 32-Way Connector.**

1. Compressor controller harness 32-way connector
2. Compressor controller

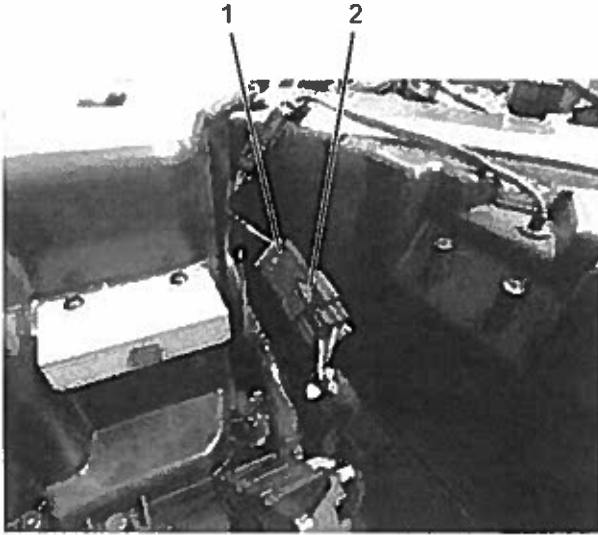
22. Disconnect compressor controller harness 32-way connector (Figure 9, Item 1) from compressor controller (Figure 9, Item 2).



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Figure 10. Wire Removal Control Center Assembly Harness 32-Way Connector.

23. Cut and remove approximately 1 in of wire as shown in Figure 10.
24. Connect compressor controller harness 32-way connector (Figure 9, Item 1) to compressor controller (Figure 9, Item 2).
25. Remove BLUE terminal lock from new 2-way connector.
26. Install two GREEN wire terminals into 2-way connector until they click into place.
27. Install BLUE terminal lock into 2-way connector.
28. Install control center (Figure 6, Item 4) on support bracket (Figure 6, Item 3) with screw (Figure 6, Item 2).
29. Install new fuse decal onto control center cover.
30. Install cover (Figure 4, Item 1) on power center (Figure 4, Item 2) with screw (Figure 4, Item 3).



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Figure 11. Relay Control Harness 2-Way Connector.

1. Relay control harness 2-way connector
2. Control center assembly harness 2-way connector

31. Connect new relay control harness 2-way connector (Figure 11, Item 1) to control center assembly harness 2-way connector (Figure 11, Item 2).
32. Route relay control harness through center of MaxxPower unit to HEATER COIL.
33. Install top support bracket (Figure 3, Item 2) in vehicle with four screws (Figure 3, Item 1).

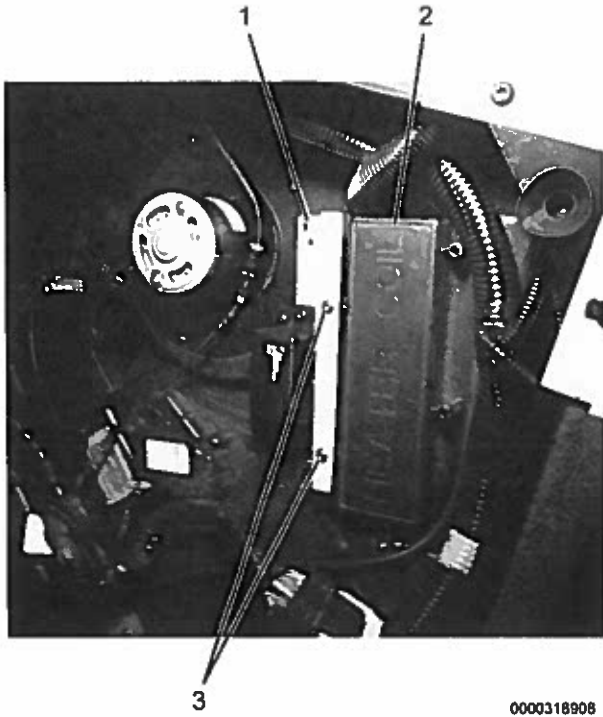
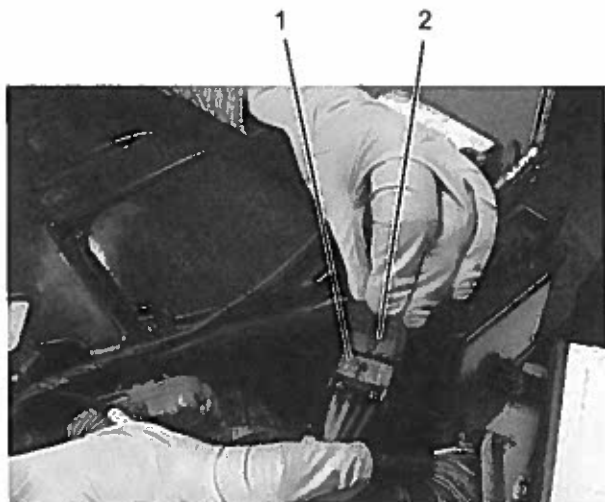


Figure 12. 150 Amp Relay Assembly.

1. 150 amp relay assembly
2. HEATER COIL area
3. Screw (2)

34. Install new 150A relay assembly (Figure 12, Item 1) behind area marked HEATER COIL (Figure 12, Item 2) with two new screws (Figure 12, Item 3).
35. Using torque wrench, tighten two screws (Figure 12, Item 3) to 20 lb-in (2 N•m).

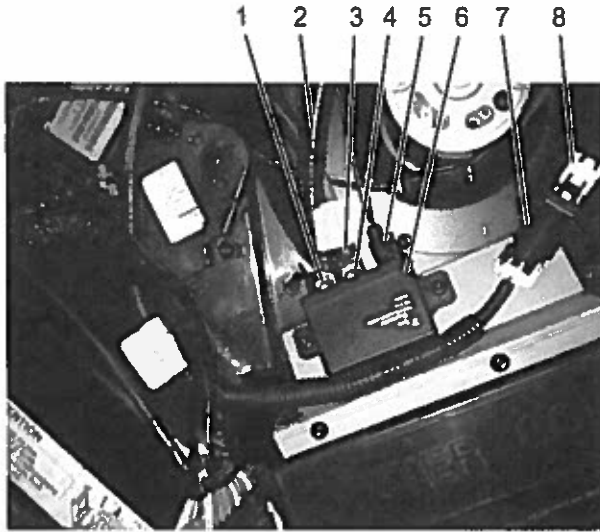


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Figure 13. Battery Cable 4-Way Connector.

1. Battery cable 4-way connector
2. Compressor controller harness 4-way connector

36. Connect new battery cable 4-way connector (Figure 13, Item 1) to compressor controller harness 4-way connector (Figure 13, Item 2).



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Figure 14. Relay Assembly Harness Connections.

1. Nut
2. RED wire - battery power supply
3. RED wire - compressor power supply
4. Nut
5. Relay control harness connector
6. 150 amp relay assembly
7. Ground cable connector and fir tree
8. Ground side of power harness

37. Install RED wire - battery power supply (Figure 14, Item 2) on left post of 150A relay assembly (Figure 14, Item 6) with new nut (Figure 14, Item 1).
38. Using torque wrench, tighten nut (Figure 14, Item 1) to 41 lb-in (5 N•m).
39. Route ground cable connector (Figure 14, Item 7) around 150A relay assembly (Figure 14, Item 6), secure into relay assembly, and push fir tree into relay assembly.
40. Inspect and verify the rubber grommet at hole in floor to battery box is installed correctly.
41. Route new battery cable through hole in floor to battery box.
42. Install RED wire - compressor power supply (Figure 14, Item 3) onto middle post of 150A relay assembly (Figure 14, Item 6) with new nut (Figure 14, Item 4).
43. Using torque wrench, tighten nut (Figure 14, Item 4) to 41 lb-in (5 N•m).

44. Connect ground side of power harness (Figure 14, Item 8) to ground cable connector (Figure 14, Item 7).
45. Connect relay control harness connector (Figure 14, Item 5) to 150A relay assembly (Figure 14, Item 6).
46. Install 50 amp power fuse, Navistar unit harness, and negative battery cables to batteries.
47. Install new tie strap(s) as required.
48. Close battery box.
49. Close sleeper compartment.

FUNCTIONAL CHECK

NOTE: If unit or compressor does not start, perform diagnostics as outlined in IK1900235.

1. Turn on No-Idle A/C system to verify AC system operates, ambient temperature must be a minimum of 60°F (16°C) for A/C system to operate.
2. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-14516-1	Upgrade MaxxPower® Harness	1.0 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

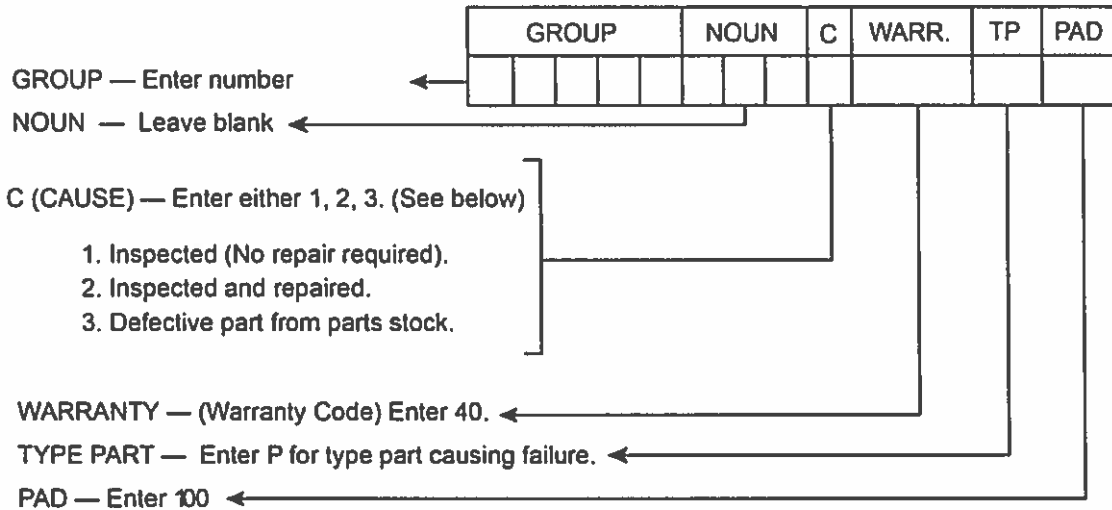
ADMINISTRATIVE / DEALER RESPONSIBILITIES

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 14516.

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

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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.

VEHICLE RECALL 14516