SERVICE PROCEDURE

G-08506
OCTOBER 2008

SUBJECT: SAFETY RECALL (U.S.)
IDM FUSE BLOCK on certain INTERNATIONAL® 3200, 3300, and IC Bus BE, CE, HC, RE models built 9/21/01 thru 12/31/07 with an INTERNATIONAL® VT-365 engine.

DEFECT DESCRIPTION

The vehicle may exhibit engine hard start, no start, or stall conditions due to damaged terminals in the fuse holder connector for the injector drive module (IDM) clean battery power circuit. In bus applications, the evacuation and containment concerns relating to multiple passengers may result in an unreasonable risk to motor vehicle safety.

MODELS INVOLVED

This Safety Recall involves certain INTERNATIONAL® 3200, 3300, and IC Bus BE, CE, HC, RE models built 9/21/01 thru 12/31/07 with an INTERNATIONAL® VT-365 engine.

PARTS INFORMATION

For all models:

Battery Interconnect Cable w/ Integrated Clean Power Circuits

a. Inspect the part number printed on the vehicle's battery interconnect cable with integrated clean circuits. Figure 1 shows the cable.

PARTS INFORMATION CONTINUED ON NEXT PAGE

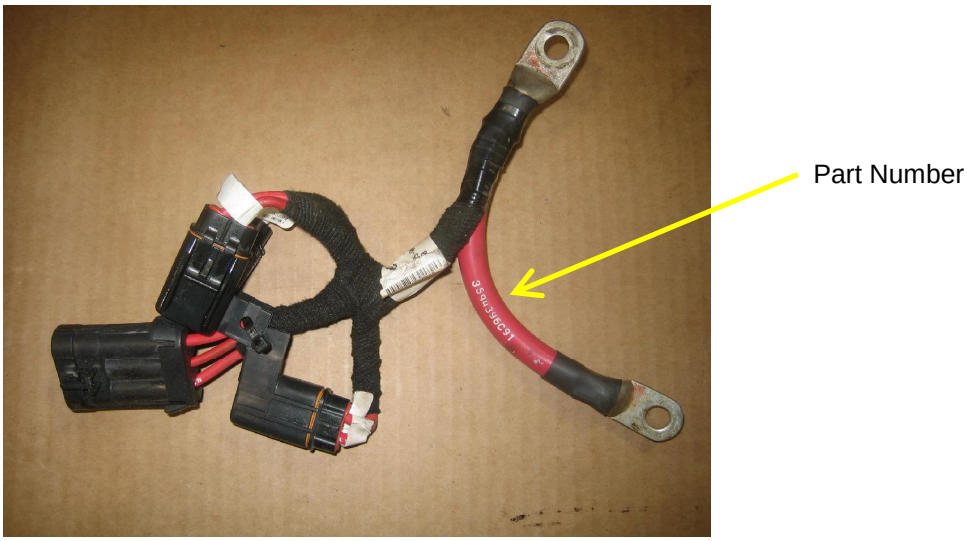


Figure 1.
Battery Interconnect Cable

b. Refer to Table 1.

- If the vehicle is equipped with an interconnect cable that is identified as an “old part number”, then it will need replaced with the associated “new part number”.

- If the vehicle is equipped with an interconnect cable that is identified as a “new part number”, do not order a replacement cable.

Table 1.
Battery Interconnect Cable Part Numbers

Old Part Number	New Part Number
3594396C91	3594396C92
3601770C92	3601770C93
3548966C91	3548966C92
3595201C91	3595201C92
3594393C91	3594393C92
3660026C91	3660026C92
3607227C91	3607227C92
3512279C91	3512279C92
3607223C91	3607223C92
3582541C91	2599740C91

c. If the battery interconnect cable part number cannot be read or is missing, order the part number determined by using the VIN parts breakdown inside the Service Parts Catalog.

In addition to the parts ordered above, for

- RE model buses built on or before 11/14/05 with a VT-365 engine, and
- 3200 model buses built on or before 11/8/04 with a VT-365 engine

Order:

Part Number	Part Description	Quantity
3517501C1	12 – 10 AWG Splice	2
2644000R1	Dual Wall Heat Shrink, 50 mm	2

SERVICE PROCEDURE

WARNING!

TO PREVENT UNEXPECED MOVEMENT OF THE VEHICLE AND POSSIBLE SERIOUS PERSONAL INJURY OR DEATH, BLOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.

WARNING!

TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE OR SERVICE.

Determine which Service Procedure to use.

Service Procedure	Use For	Page
1	ALL MODELS EXCEPT RE MODEL BUSES AND 3200 MODELS	4
2	RE MODEL BUSES AND 3200 MODELS	6

SERVICE PROCEDURE 1.

ALL MODELS
EXCEPT
RE MODEL BUSES
AND
3200 MODELS

S1-1. Prepare the vehicle.

a. Park the vehicle on a hard, level surface.

b. Block the wheels to prevent the vehicle from moving in both directions.

c. Access the vehicle's battery box.

d. Locate the battery interconnect cable with integrated clean power circuits. See Figure 2.

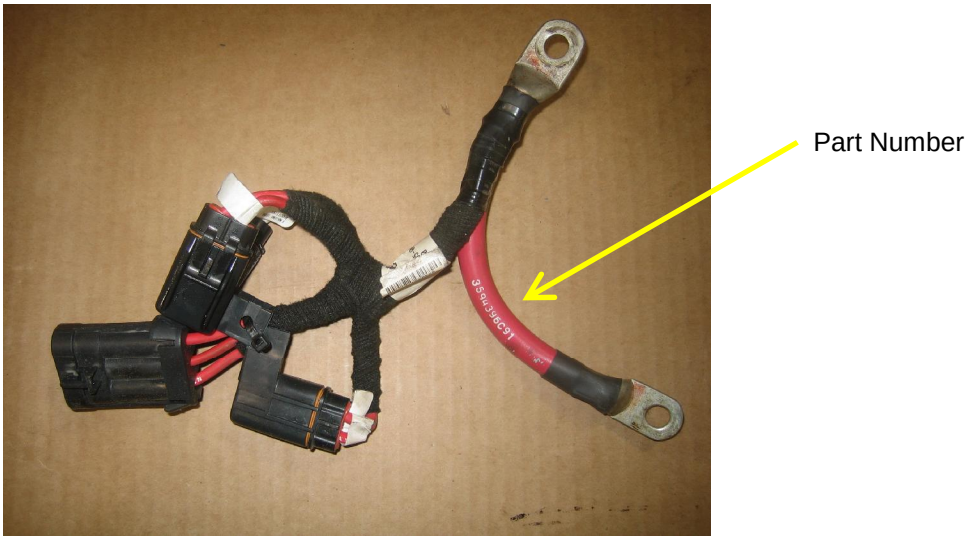


Figure 2.
Battery Interconnect Cable

S1-2. Determine if the battery interconnect cable needs replaced.

a. Inspect and compare the part number printed on the battery interconnect cable with those in Table 1 in the PARTS INFORMATION section.

b. If the part number is identified as a "new part number",

- The cable does not need to be replaced.

- Close battery box.
- Service procedure is complete

c. If the part number is identified as an “old part number”, cannot be read, or is missing,

- The cable needs to be replaced.
- Determine the part number of the replacement cable per the PARTS INFORMATION section instructions.

S1-3. Battery Cable Replacement

a. Disconnect the negative battery cable and the negative clean power connector in the battery box.

b. Remove and replace the battery interconnect cable.

c. Connect the negative battery cable and the negative clean power connector.

d. Close battery box.

e. Service procedure is complete.

SERVICE PROCEDURE CONTINUED ON NEXT PAGE

SERVICE PROCEDURE 2.

RE MODEL BUSES
AND
3200 MODELS

S2-1. Prepare the vehicle.

a. Park the vehicle on a hard, level surface.

b. Block the wheels to prevent the vehicle from moving in both directions.

c. Access the vehicle's battery box.

d. Locate the battery interconnect cable with integrated clean power circuits. See Figure 3.

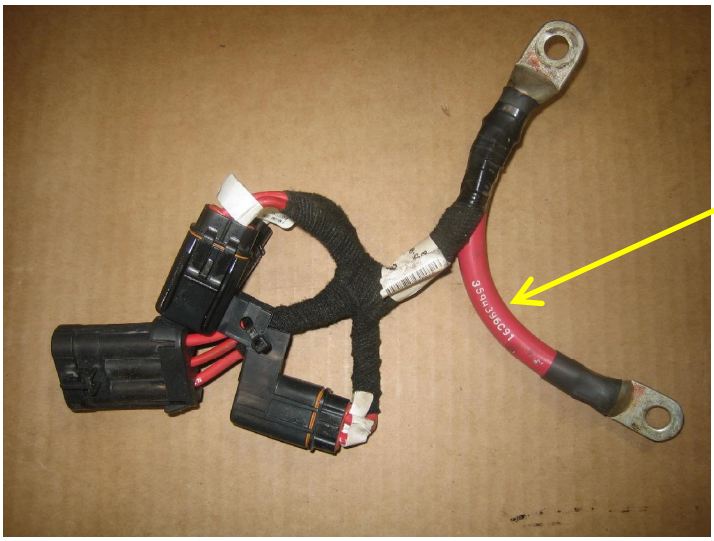


Figure 3.
Battery Interconnect Cable

S2-2. Determine if the battery interconnect cable needs replaced.

a. Inspect and compare the part number printed on the battery interconnect cable with those in Table 1 in the PARTS INFORMATION section.

b. If the part number is identified as a "new part number",

- The cable does not need to be replaced.

c. If the part number on the battery interconnect cable is identified as an “old part number” in Table 1, cannot be read, or is missing,

- The cable needs to be replaced.
- Determine the part number of the replacement cable per the PARTS INFORMATION section instructions.
- Disconnect the negative battery cable and the negative clean power connector in the battery box.
- Remove and replace the battery interconnect cable.

S2-3. Determine if the engine clean power connector needs removed.

a. Determine vehicle build date.

b. If the vehicle is an RE model built on or after 11/15/05 or a 3200 model built on or after 11/9/04,

- The engine clean power connector does not need to be replaced.
- Connect the negative battery cable and the negative clean power connector in the battery box, if applicable.
- Close battery box.
- Service procedure is complete.

c. If the vehicle is an RE model built on or before 11/14/05 or a 3200 model built on or before 11/8/04,

- The engine clean power connector needs to be removed.
- Determine the splice and heat shrink part numbers in the PARTS INFORMATION section instructions.

S2-4. Prepare Clean Power Harness Splice

a. Locate the engine clean power connector at the engine.

- Follow the clean power harness from the battery box toward the engine.
- The connector is located near the engine starter.

- Table 2 indicates connector cavity, markings, wire size and wire color.

- See Figure 4 for assistance.

b. Remove tie straps and tape on the harness as needed to access connector.

c. Remove connector by cutting the four wires at the connector.

d. Strip the insulation back ¼" from the ends of all four wires.

e. Place a 2" piece of double wall heat shrink tubing on either the violet or red wire. Place another 2" piece of double wall heat shrink tubing on one of the white wires.

Table 2.
Engine Clean Power Connector Information

RE BUS BUILT 9/2/03 THRU 11/14/05 WITH VT-365 ENGINE		
Engine Harness	Cavity	Chassis / Battery Box Harness
K97X (10GA Violet)	A	N97A (10GA Red)
K97-G (10GA White)	B	N97A-G (10GA White)
3200 BUS BUILT 9/21/01 THRU 11/08/04 WITH VT-365 ENGINE		
Engine Harness	Cavity	Chassis / Battery Box Harness
K97X (10GA Violet)	A	N97AA (10GA Red)
K97-G (10GA White)	B	N97-G (10GA White)

SERVICE PROCEDURE CONTINUED ON NEXT PAGE

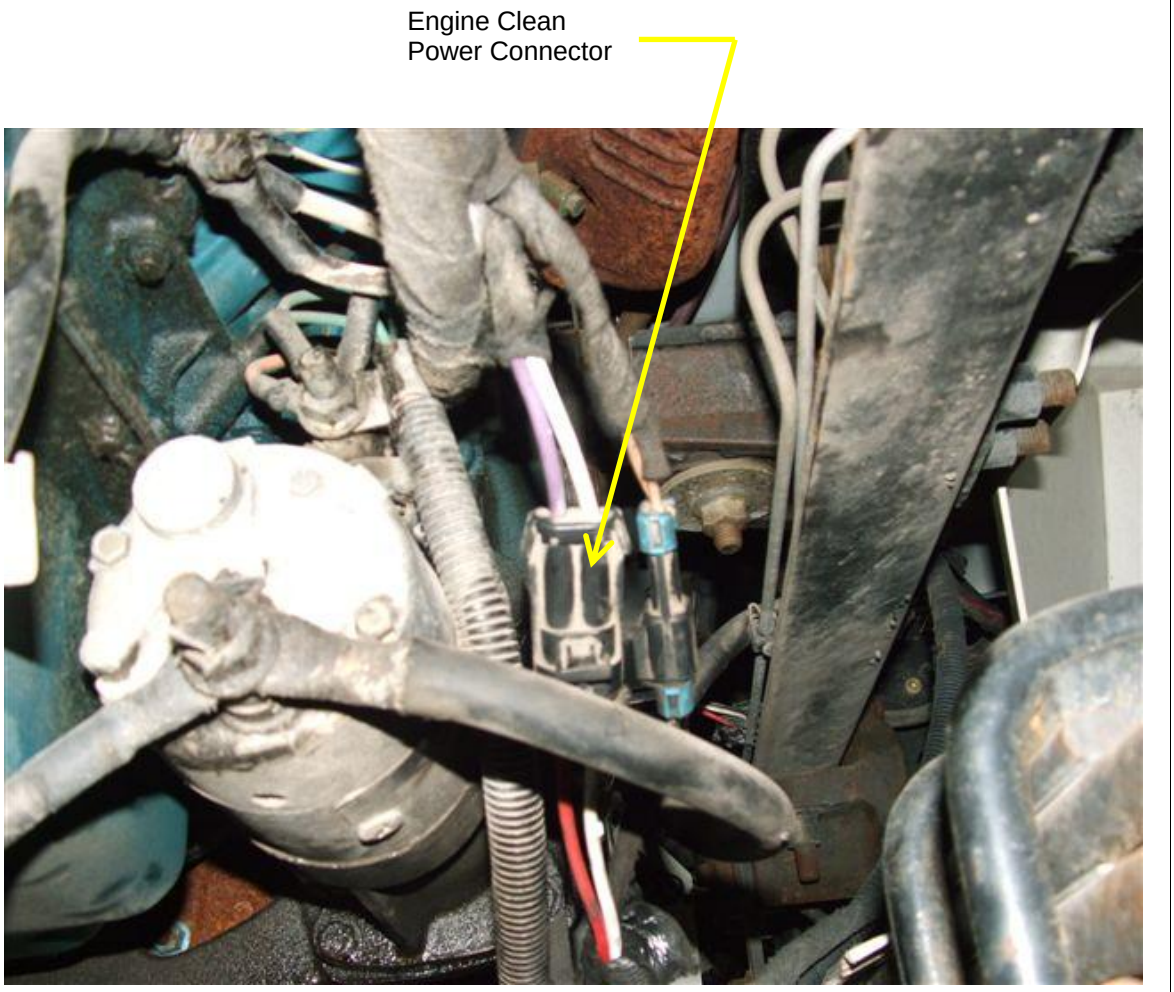


Figure 4. Engine Clean Power Connector

S2-5. Crimp, Solder, and Seal the Clean Power Harness Splice

a. Connect the violet wire and the red wire by crimping on a splice. Connect the two white wires by crimping on a splice. Make sure all the individual wire strands are inside the crimp splice.

b. Solder (60/40 rosin core) both connectors into the crimp splice. Make sure the solder and conductor are hot enough to allow the solder to "flow" into the individual conductors of the wire and the inside of the crimp splice. Figure 5 shows the connections crimped and soldered.

c. Slide the double wall heat shrink tubing over the crimp splices and apply sufficient heat to shrink the tubing over the connector and wires. Make sure the tubing is centered over the crimp connector prior to applying heat. Figure 6 shows the splice connection sealed with the heat shrink tubing.

Figure 5. Harness Splice Crimped and Soldered

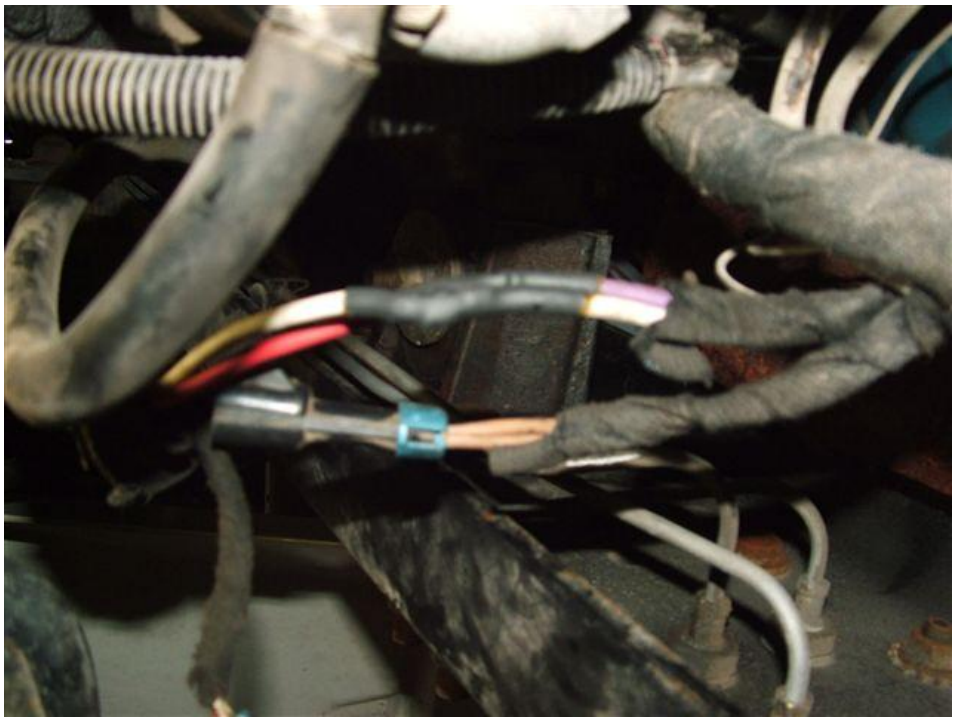


Figure 6. Harness Splice Sealed With Heat Shrink Tubing

S2-6. Complete the Repair

a. Install tie straps and tape as needed to proper route harness.

b. Connect the negative battery cable.

c. Connect the negative clean power connector.

d. Close battery box.

END OF SERVICE PROCEDURE

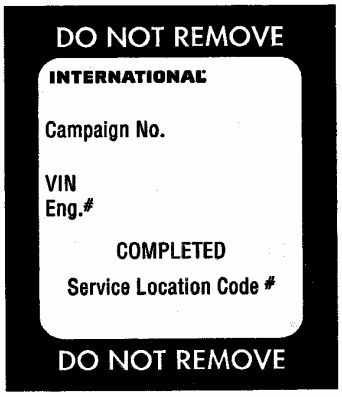
LABOR INFORMATION

Operation Number	Description	Time
A40-08506-1	Battery Interconnect Cable Inspection Only	0.3
A40-08506-2	Remove and Replace Battery Interconnect Cable	0.1
A40-08506-3	Remove Connector and Splice Clean Power Harness Wires (3200 and RE models only)	0.6

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.



ADMINSTRATIVE/DEALER RESPONSIBILITIES

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.

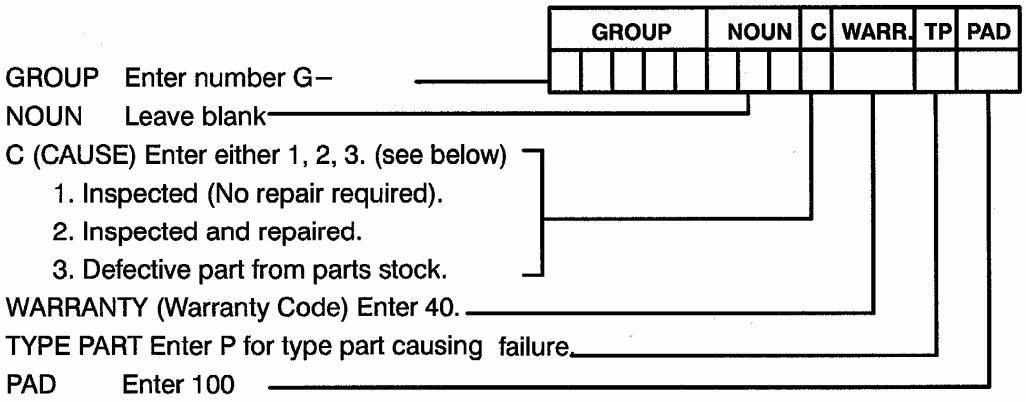
Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

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.

WARRANTY CLAIMS

Refer to Dealer Warranty Manual for procedures to conduct Recall Campaigns.

It is important that the Recall Coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44:



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