

# ***SERVICE PROCEDURE***

**G-08505 R1  
AUGUST 2008**

**SUBJECT: SAFETY RECALL (U.S.)  
REMOTE POWER MODULE (RPM) on certain  
INTERNATIONAL® 3000, 4000, 7000, 8000, CXT,  
MXT, ProStar model trucks and IC® CE, HC bus  
models built 11/21/00 thru 5/21/08 with one or more  
RPMs.**

## **REVISION 1**

A summary of the changes incorporated into Revision 1 of this service procedure are:

1. DEFECT DESCRIPTION section:
  - a. Defect description was simplified.
2. PARTS INFORMATION section:
  - a. Harness, Fused RPM Jumper was Fused Electrical Cable
3. SERVICE PROCEDURE section:
  - a. General references to “fused electrical cable” were replaced by “fused RPM jumper harness”.
  - b. Body text was changed to clarify installation location of fused RPM jumper harness.
  - c. Figures 3 and 4 were replaced; Figures 5, 6, 7, and 8 were added.
  - d. RECOMMENDED INSPECTIONS section was added.

A copy of the original service procedure is attached to this revision for reference.

## **DEFECT DESCRIPTION**

An electrical short within the RPM housing may cause a fire, which can result in property damage, personal injury, or death.

## **MODELS INVOLVED**

This Safety Recall involves certain INTERNATIONAL® 3000, 4000, 7000, 8000, CXT, MXT, and ProStar series models trucks and IC® CE and HC model buses built 11/21/00 thru 5/21/08 with one or more RPMs.

## **PARTS INFORMATION**

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>
2597844C91	HARNESS, FUSED RPM JUMPER	1

## **SERVICE PROCEDURE**

**WARNING!**

**TO PREVENT UNEXPECTED  
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.**

### **PRE-2007 EMISSIONS ENGINE**

1. Locate the body builder six-way connector located under the hood.
2. Install a 2597844C91 fused RPM jumper harness in this circuit as shown in Figures 1 and 2.
3. Use tie straps as needed to properly route the lengthened harness.

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

Fused RPM Jumper Harness



Figure 1.  
Fused RPM Jumper Harness Installation on a Pre-2007 Emission Engine

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

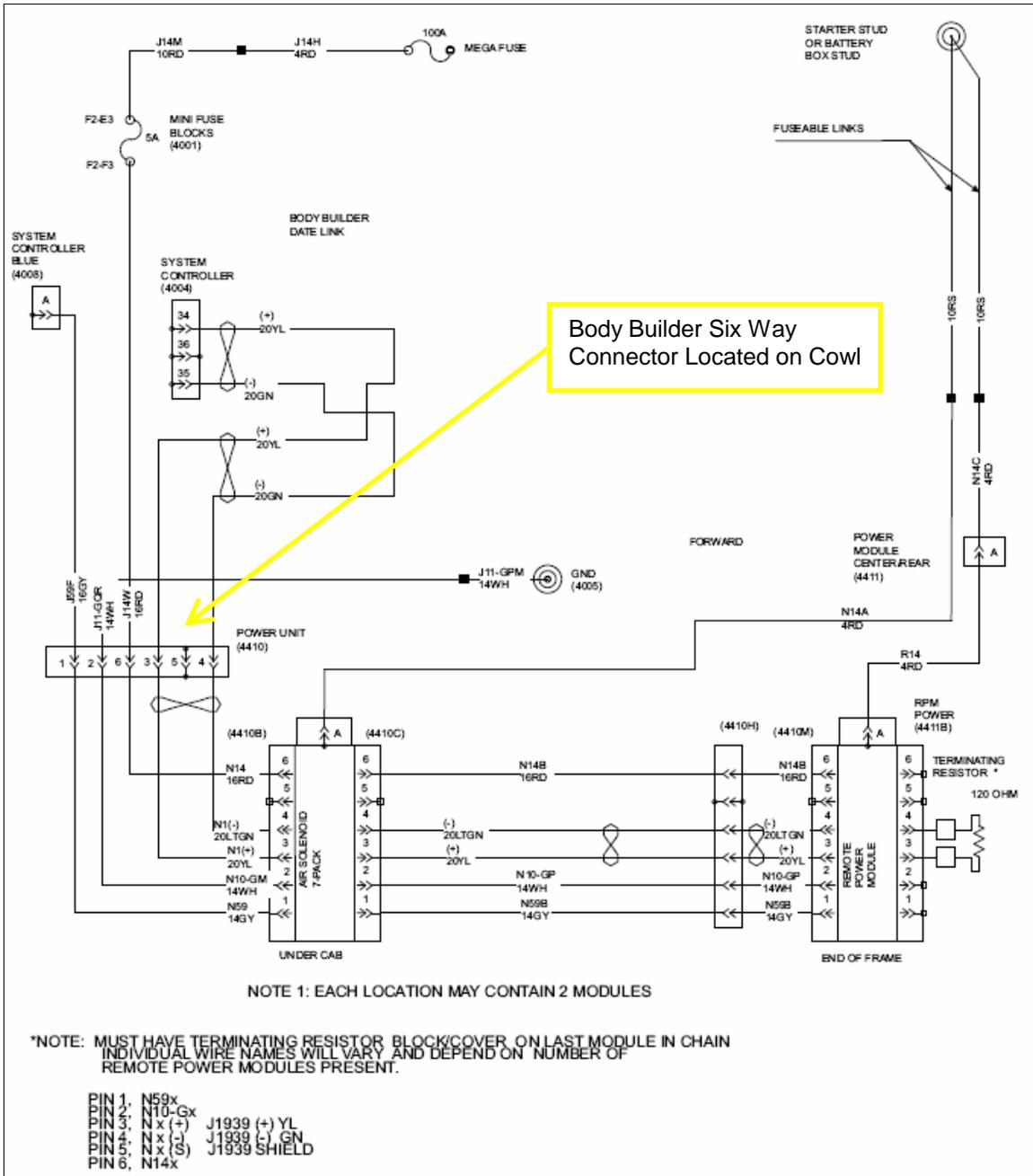


Figure 2. Wiring Diagram for RPM on Pre-2007 Emissions Engine

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

## **2007 EMISSIONS ENGINE**

1. Locate the vehicle's RPM(s).
  - Typical locations are on the back of the battery box, under the driver's side cab, on the frame rail, or inside the cab behind the driver or passenger seat. However, body builders may have moved and/or added the RPMs, so check carefully.
  - If the vehicle is equipped with more than one module, identify the RPM that has the 6-cavity datalink connector connected directly to the chassis harness. Any RPM not directly connected to the chassis harness is connected through another RPM. Only install the fused RPM jumper harness on the first RPM. See Figure 3.
  - If you are unable to locate RPMs, contact tech central with case file for additional instructions.
2. See Figures 4, 5, 6, 7, and 8 illustrating where to install the 2597844C91 fused RPM jumper harness on a few common vehicle configurations.
3. Use tie straps as needed to properly route the lengthened harness.

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

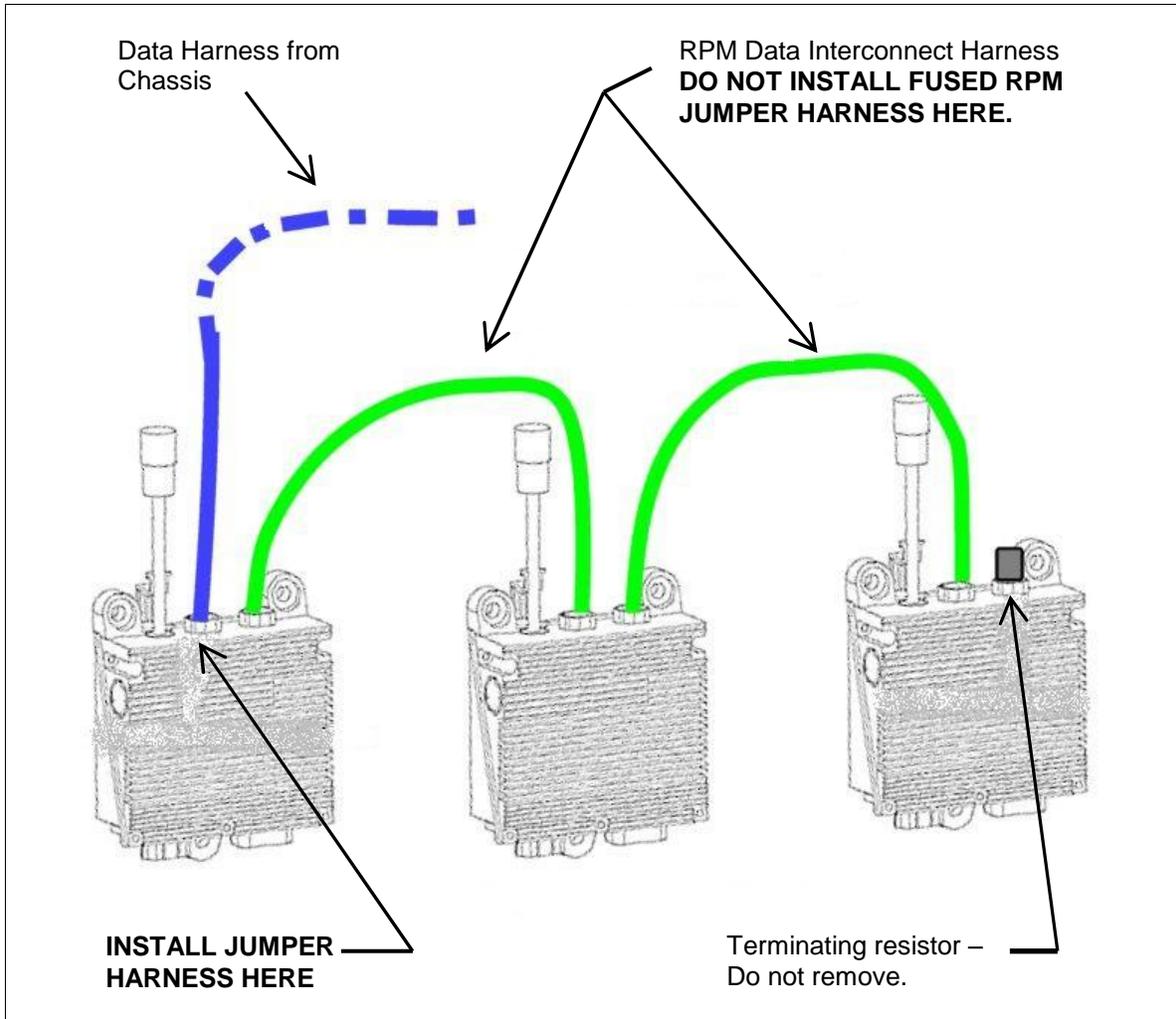


Figure 3.  
Example of Multiple RPM Setup

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

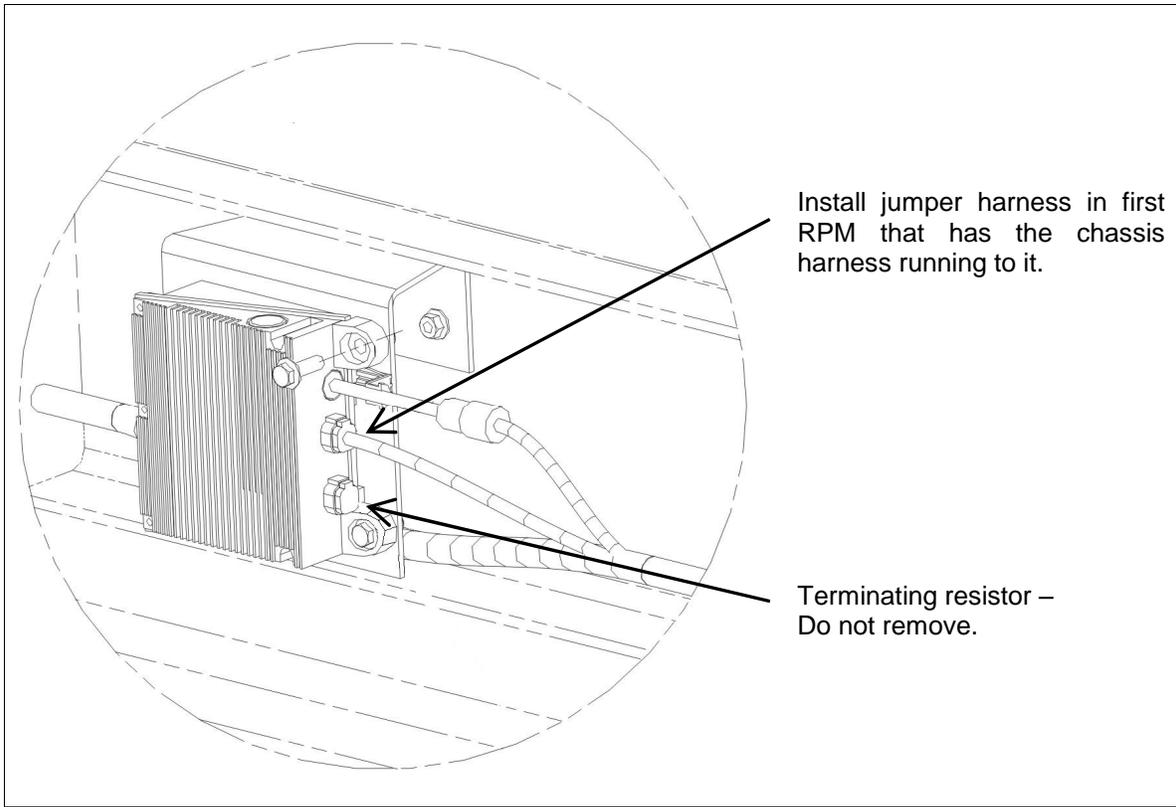


Figure 4.  
Fused RPM Jumper Harness Installation With Only One RPM On The Frame Rail

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

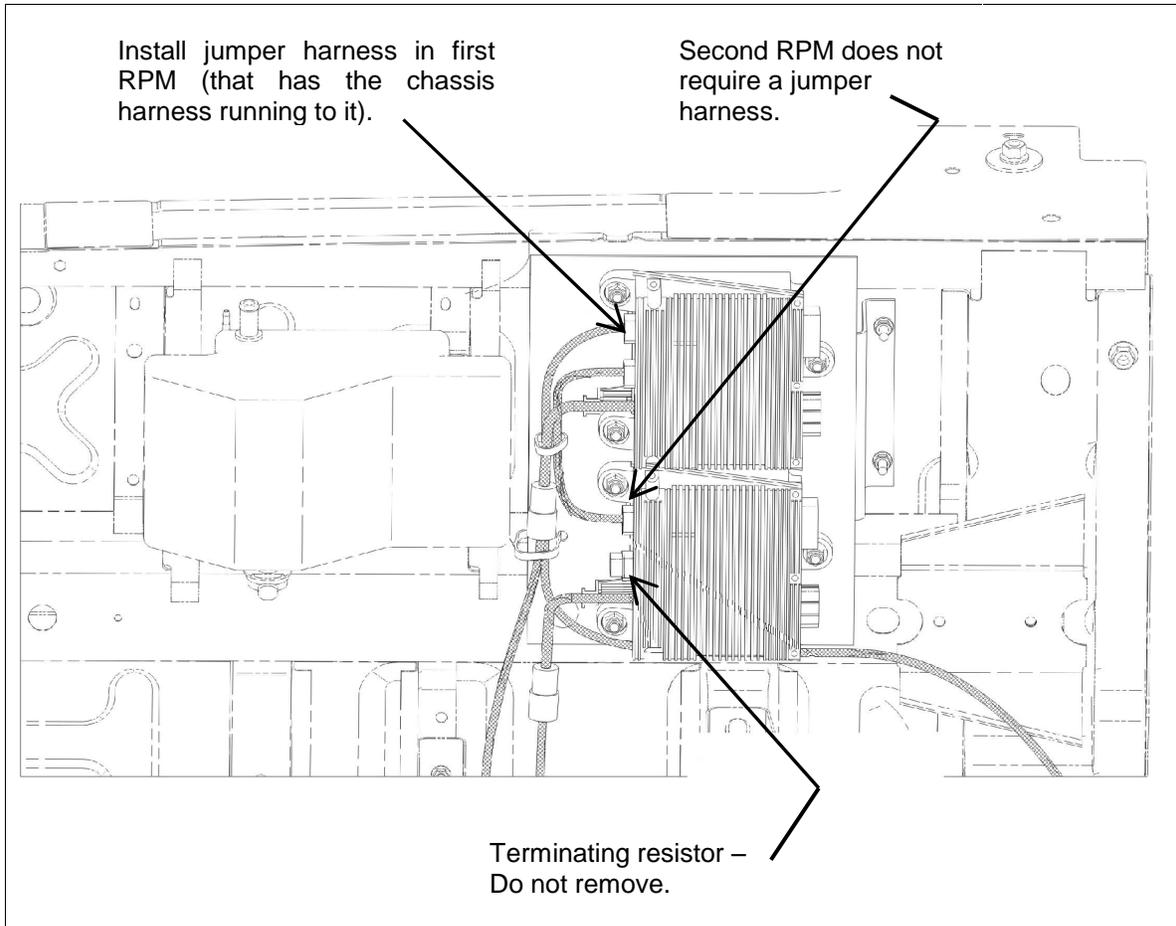


Figure 5.  
Fused RPM Jumper Harness Installation With Two RPMs Under the Cab

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

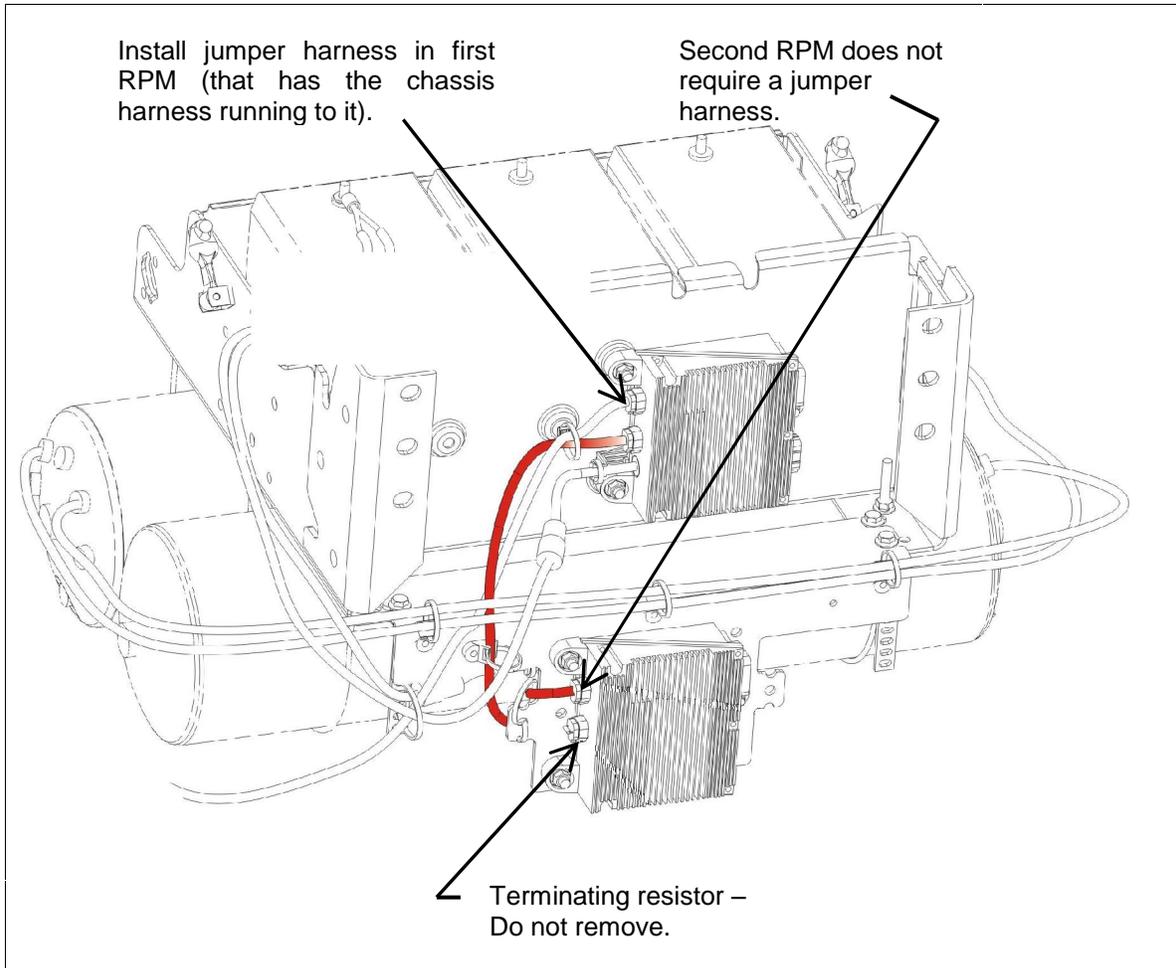


Figure 6.  
Fused RPM Jumper Harness Installation With Two RPMs on Battery Box

**SERVICE PROCEDURE CONTINUED ON NEXT PAGE**

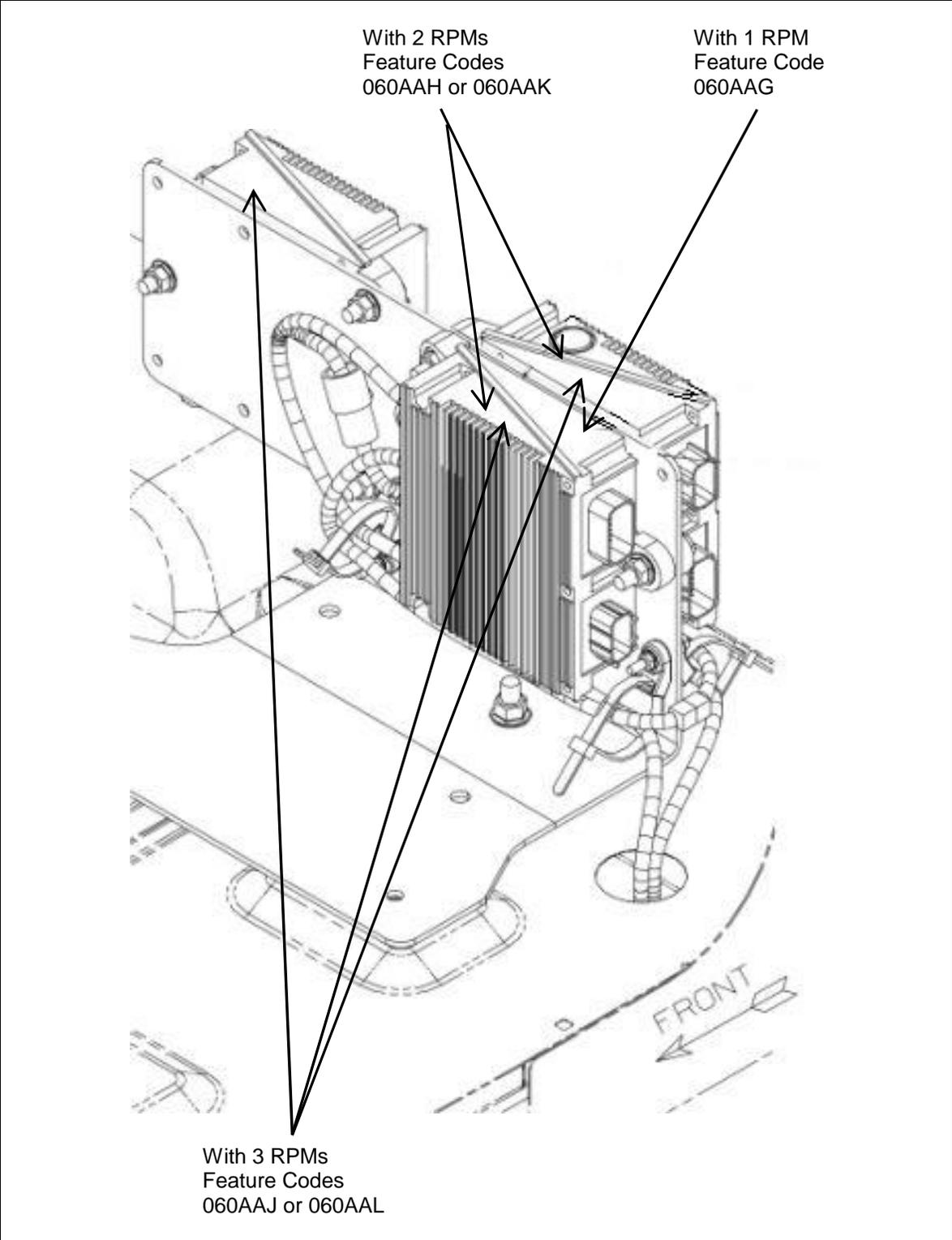


Figure 7.  
Fused RPM Jumper Harness Installation with RPM(s) Located Behind Driver Seat

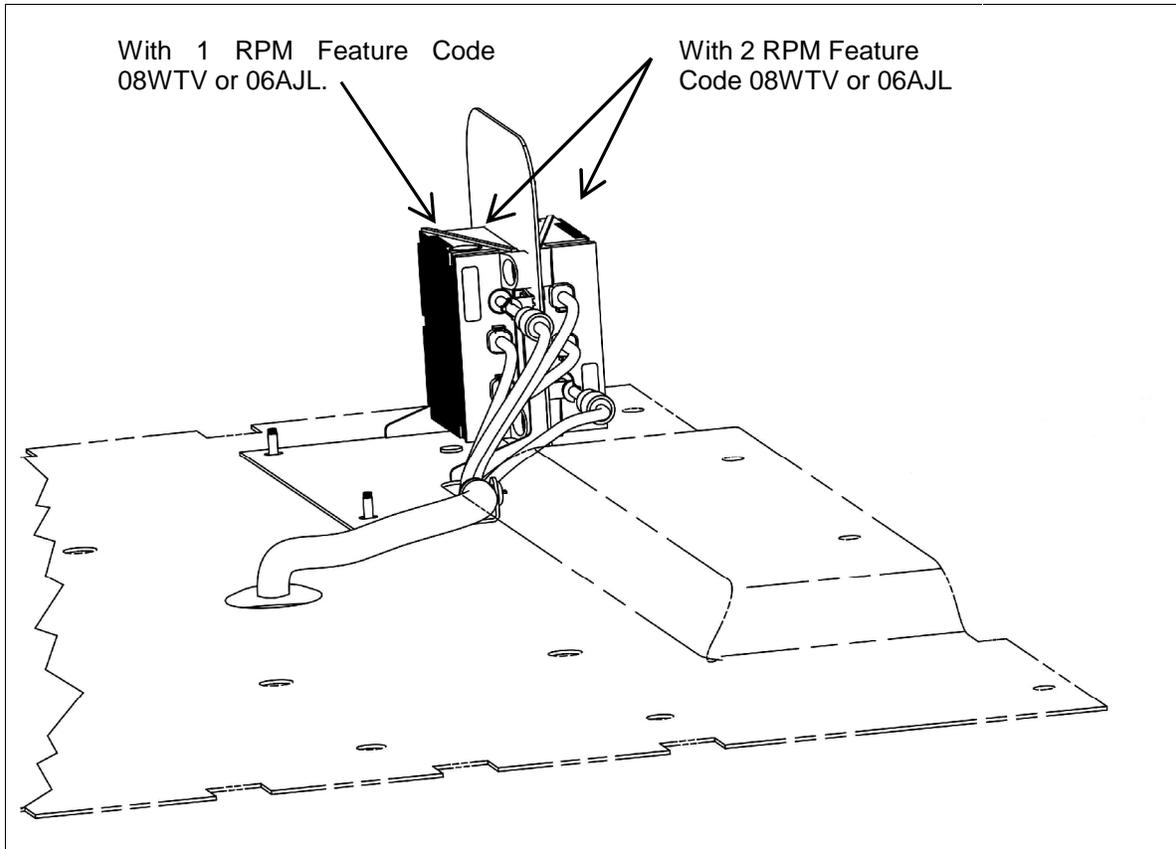


Figure 8.  
Fused RPM Jumper Harness Installation with RPM(s) Located Behind Passenger Seat

## RECOMMENDED INSPECTIONS

The proper installation of the fused RPM jumper harness described above will correct the possible safety concerns related to this recall.

Inspect the ground wire harness. If damaged, contact tech services with case file for repair instructions. A copy of SFN-08-38 is attached to this service procedure for reference.

## END OF SERVICE PROCEDURE

## **LABOR INFORMATION**

<b>Operation Number</b>	<b>Description</b>	<b>Time</b>
A40-08505-1	Installation of Fused RPM Jumper Harness	0.3 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**

### **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:

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—						
NOUN Leave blank						
C (CAUSE) Enter either 1, 2, 3. (see below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY (Warranty Code) Enter 40.						
TYPE PART Enter P for type part causing failure.						
PAD Enter 100						

## **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**

# Special Field Notification

# NAVISTAR<sup>®</sup>

SFN-08-38

Date: July 14, 2008

Subject File: ELECTRICAL

**Subject:** Remote Power Module (RPM)

Model: DuraStar, WorkStar, 4000 Series, 7000 Series

Start Date: 11/21/2000 To Present

## DESCRIPTION

The Remote Power Module (RPM) is an electronic unit used to distribute and control power to various devices and will report feedback via multiple digital and analog inputs. The RPM is connected to the vehicles J1939 datalink and communicates switch data and control information via this datalink. If the RPM has experienced an internal short between the voltage supply and logic ground, this could result in failure of the module and possible damage to the wiring harness connected to the module.

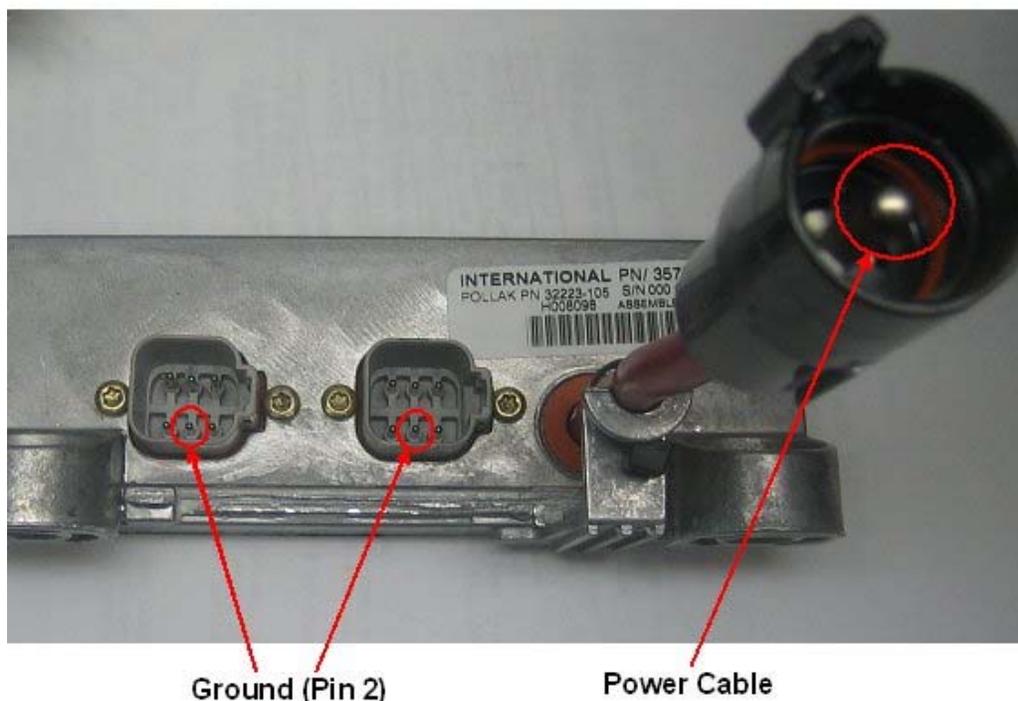


Figure 1

## SERVICE PROCEDURE

To check for an internal short in the remote power module, disconnect the truck wiring harnesses from the module. Using a Volt/Ohm meter, measure the resistance between pin 2 of one of the gray connectors and the large pin of the red power feed cable. If the resistance is less than 100 ohms, replace the module.

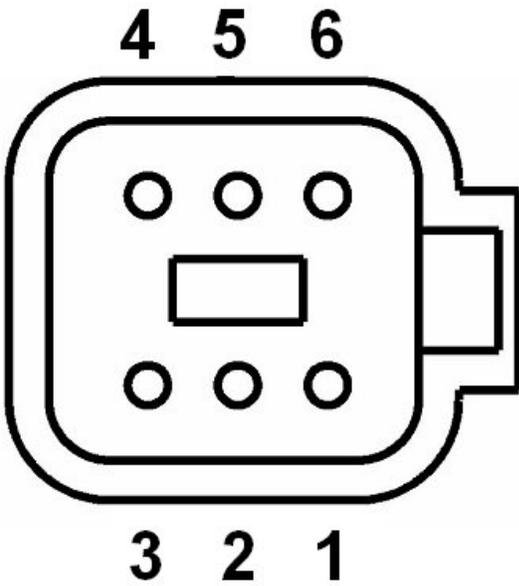


Figure 2

# ***SERVICE PROCEDURE***

**G-08505  
JULY 2008**

**SUBJECT: SAFETY RECALL (U.S.)  
REMOTE POWER MODULE (RPM) on certain  
INTERNATIONAL® 3000, 4000, 7000, 8000, CXT,  
MXT, ProStar model trucks and IC® CE, HC bus  
models built 11/21/00 thru 5/21/08 with one or more  
RPMs.**

## **DEFECT DESCRIPTION**

Water and contamination intrusion through the material that encapsulates the circuit board may cause an electrical short inside the RPM housing. An electrical short within the RPM housing may cause a fire, which can result in property damage, personal injury, or death.

## **MODELS INVOLVED**

This Safety Recall involves certain INTERNATIONAL® 3000, 4000, 7000, 8000, CXT, MXT, and ProStar series models trucks and IC® CE and HC model buses built 11/21/00 thru 5/21/08 with one or more RPMs.

## **PARTS INFORMATION**

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>
2597844C91	FUSED ELECTRICAL CABLE	1

## **SERVICE PROCEDURE**

### **WARNING!**

**TO PREVENT UNEXPECTED 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.**

### **PRE-2007 EMISSIONS ENGINE**

Locate the body builder six-way connector located under the hood and install a 2597844C91 fused wire cable in this circuit as shown in Figures 1 and 2. Use tie straps as needed to route the lengthened harness.



Fused Wire Cable

Figure 1.  
Fused Wire Cable Installation on a Pre-2007 Emission Engine

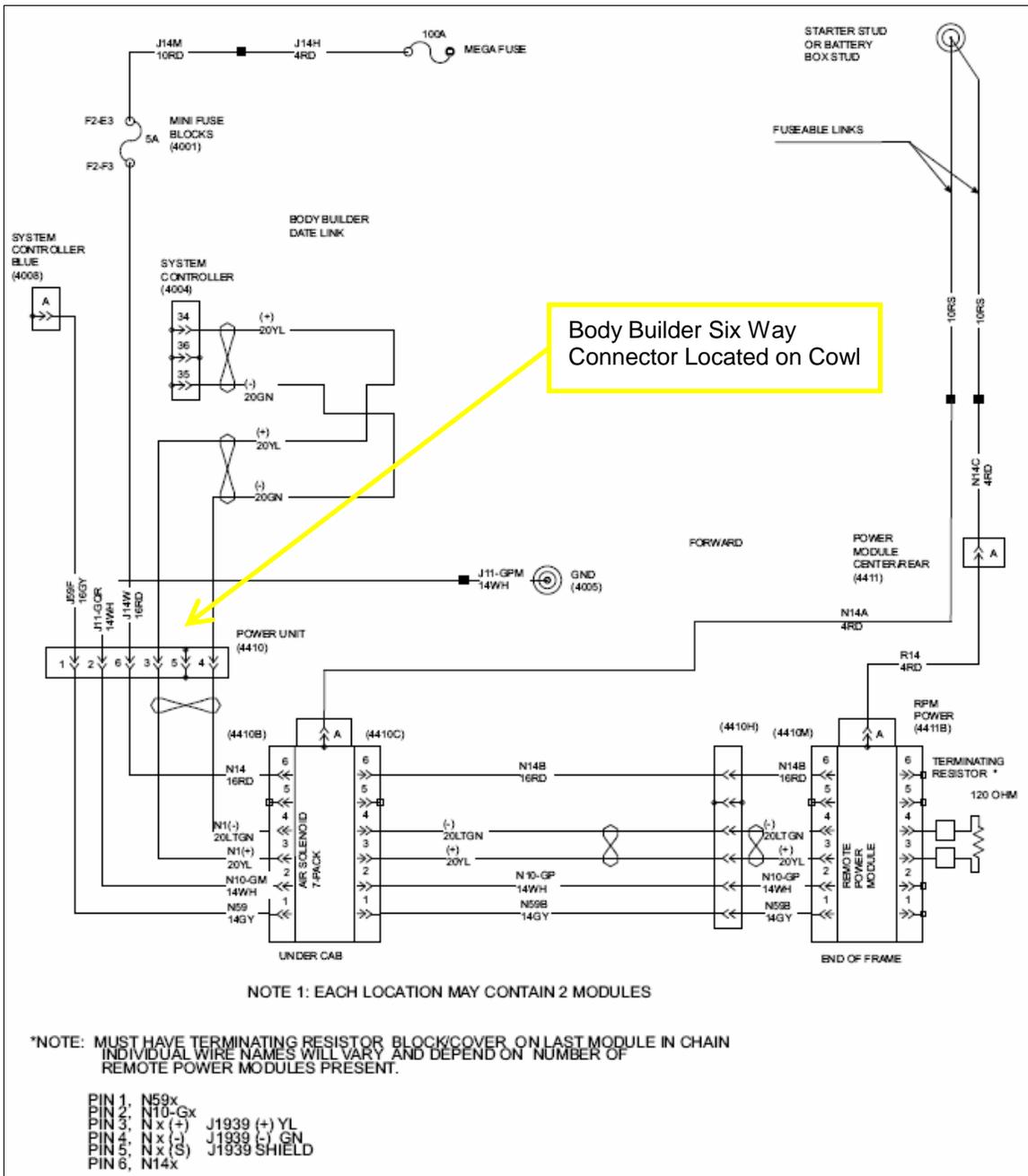


Figure 2. Wiring Diagram for RPM on Pre-2007 Emissions Engine

## 2007 EMISSIONS ENGINE

Locate the vehicle's RPM(s). Typical locations are on the back of the battery box, under the driver's side cab, and on the frame rail. However, body builders may have moved and/or added the RPMs, so check carefully.

If the vehicle is equipped with more than one module, identify those modules that are powered directly by the vehicle batteries. Any module not powered directly by the batteries is powered through a module that is. These secondary modules do not require any service.

For each RPM that is powered directly by the vehicle batteries, install a 2597844C91 fused wire cable in the circuit as shown in Figures 3 and 4. Use tie straps as needed to route the lengthened harness.

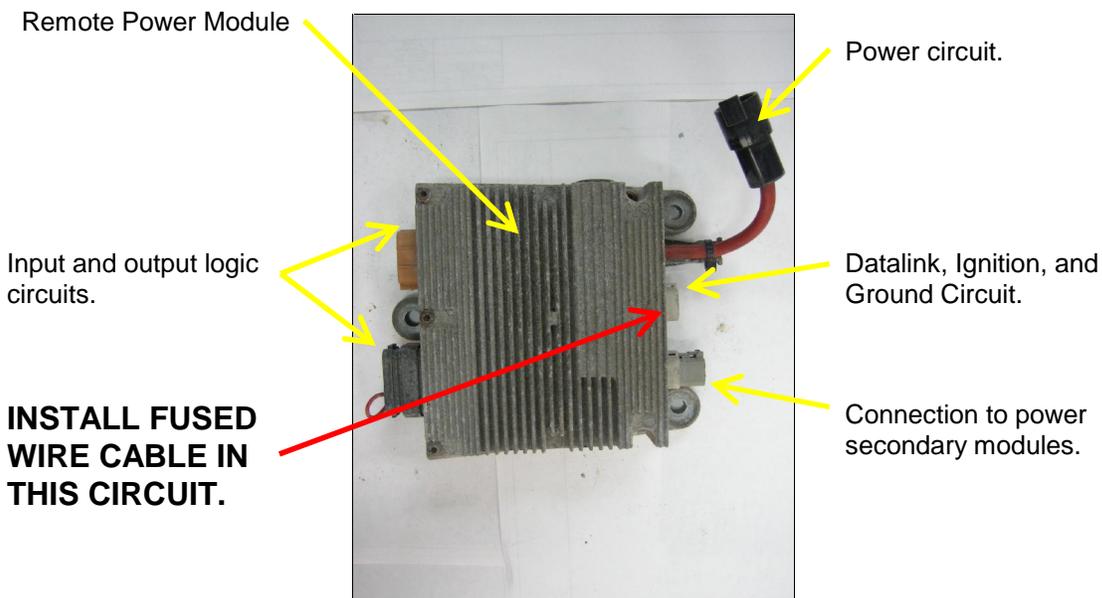


Figure 3.  
Fused Wire Cable Installation on a  
Remote Power Module

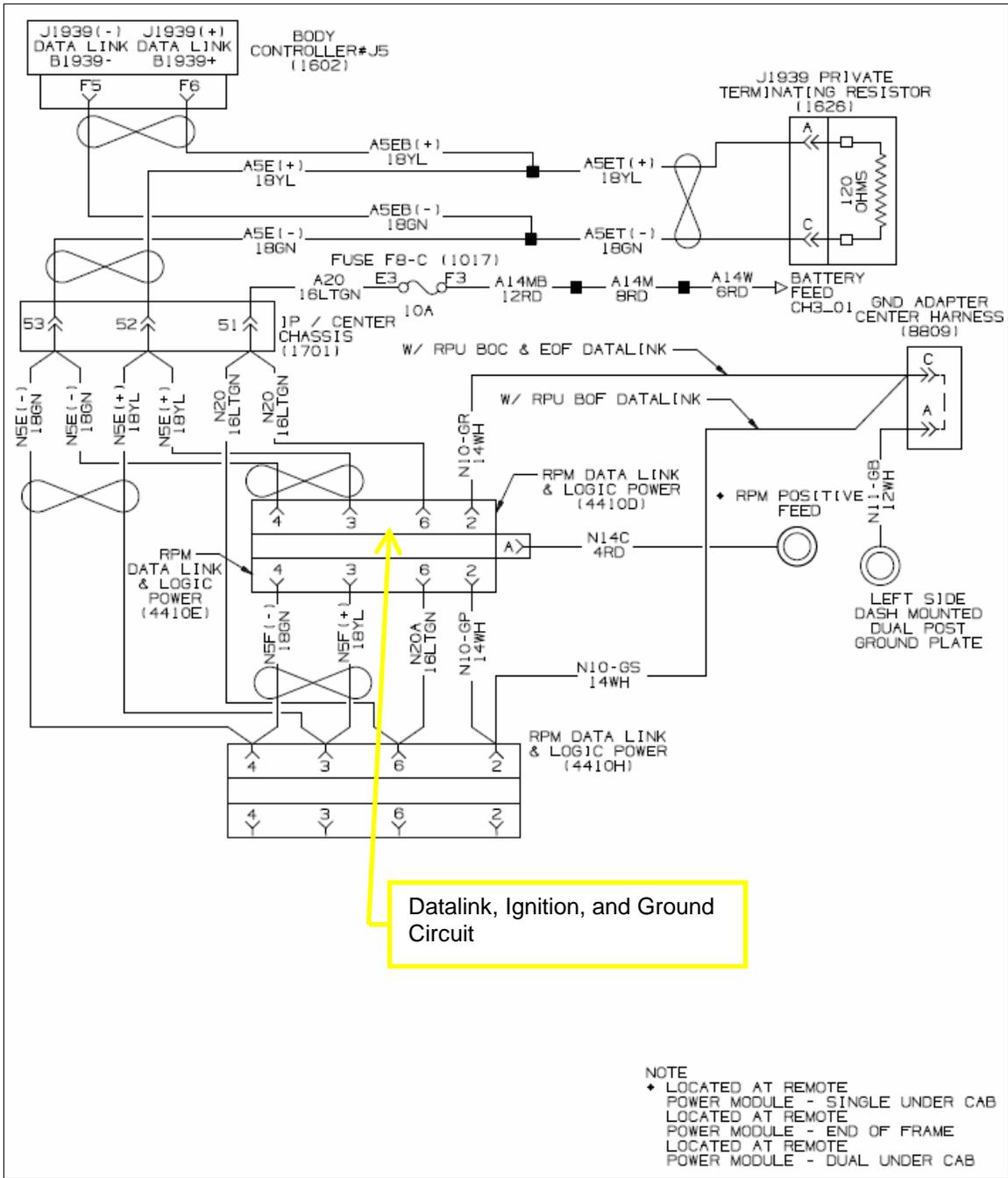


Figure 4. Wiring Diagram for RPM on 2007 Emissions Engine

## END OF SERVICE PROCEDURE

## **LABOR INFORMATION**

<b>Operation Number</b>	<b>Description</b>	<b>Time</b>
A40-08505-1	Installation of Fused Wire Cable	0.3 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**

### **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:

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—						
NOUN Leave blank						
C (CAUSE) Enter either 1, 2, 3. (see below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY (Warranty Code) Enter 40.						
TYPE PART Enter P for type part causing failure.						
PAD Enter 100						

## **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**