

# Authorized Field Change

AFC 08901

**Date:** February, 2008

**Subject File:** Brakes

**Subject:** Hydraulic Full Power Brake System Power Supply

Model: 3200, 4200, 4300, 4400, and HC Bus

Start Date: 08/11/2006 End Date: 04/18/2007

## DESCRIPTION


This service procedure provides instructions for installing an additional wiring harness from the positive post of the alternator to the full power brake wiring harness for the purpose of supplying redundant electrical power to the full power brake system. This procedure can be used for both VT 365 and DT 466 engines.


## PARTS INFORMATION


Table 1

Part Number	Part Description	Quantity
2596667C91	Harness, Hydraulic Power Brakes	1
291207C1	Strap, Cable Lock	10

## SERVICE PROCEDURE

 **WARNING** – To prevent personal injury or death, make sure the engine is in neutral or park, parking brake is set, and wheels are blocked before doing diagnostic or service procedures on engine or vehicle. Read all safety instructions in the SAFETY INFORMATION section of the service manual for this vehicle.

 **WARNING** – To prevent personal injury or death, remove ignition key or disconnect battery so engine can not be started while you are working on the front of the engine.

 **WARNING** – To prevent personal injury or death, let a hot engine cool sufficiently before attempting to add wiring harness to the system.

1. Disconnect negative battery cable from the battery.

## SERVICE PROCEDURE (CONT.)

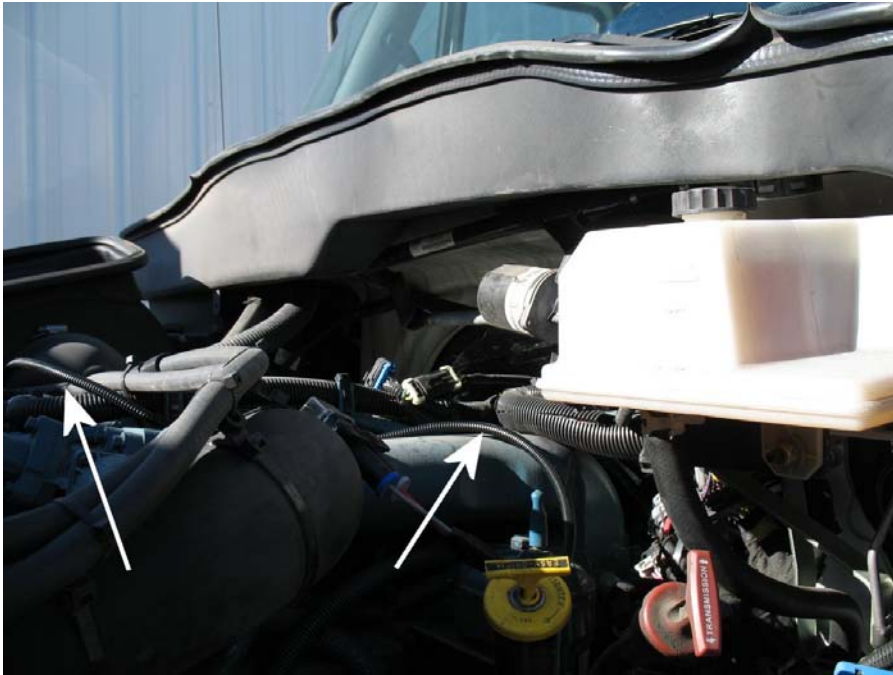
2. Remove right side inner fender panel for access to the alternator.



**Figure 1**

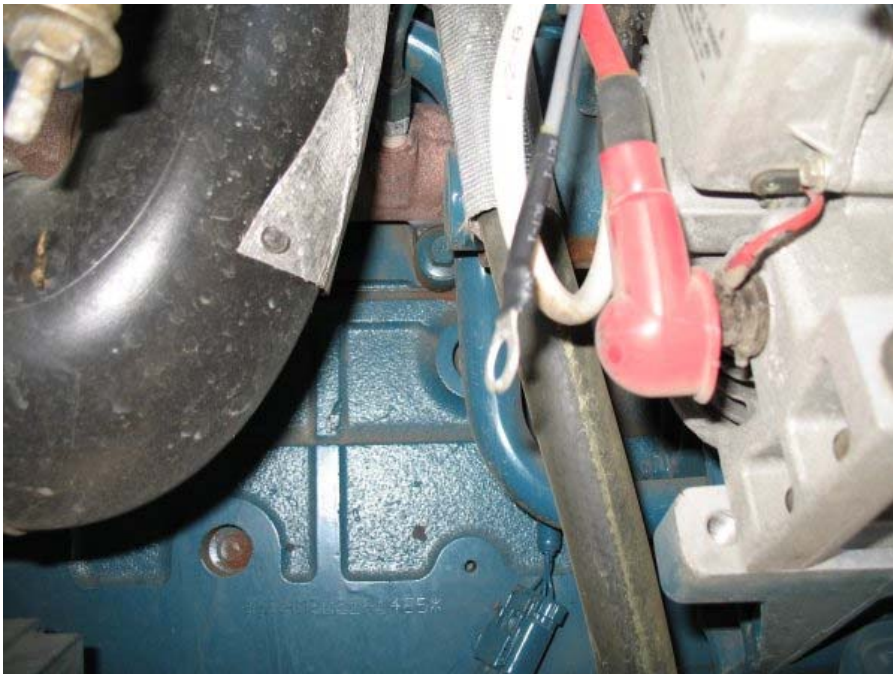
Route (do not secure) the new wiring harness across the top of the engine, following the existing engine harness. Position harness so that the ring terminal end of the harness follows the engine harness down by the alternator positive stud, while the connector end of the harness follows the engine harness back toward the drivers side rear of the engine in the area of the PDC (Power Distribution Center).

## SERVICE PROCEDURE (CONT.)



**Figure 2** Arrows are pointing to the new harness as it lays over the engine

3. Remove nut from positive post on alternator and install end of wiring harness to the positive post and install and tighten nut back on positive post.



**Figure 3**

## SERVICE PROCEDURE (CONT.)

4. Identify the 2 cavity center chassis/dash connector (4921) located near the PDC and the wiper motor mounting bracket. This connector contains 12 GA. red circuits J14AA/ N14AA and 12 GA. white circuits J10-GE/ N10-GE. Unplug the center chassis/dash connector (4921).
5. Plug new harness into the existing chassis and dash harness by mating the female connector of the overlay harness to the M(4921) chassis harness connector, and mating the male connector of the overlay harness to the F(4921) dash harness connector.



**Figure 4**

1. This is where the new overlay harness plugs in
6. Remove cover to the PDC (Power Distribution Center) and identify the MAXI fuse bus bar containing the 2 30 amp MAXI fuses for the hydraulic brake pump motors .
7. Inspect the nut used to secure the main power feed to the MAXI fuse bus bar. (Tighten nut to ensure that the bus bar stud and ring terminal are making good contact).

Remove rear 30 amp MAXI fuse from the circuit breaker panel and install it in the MAXI fuse holder of the new harness.

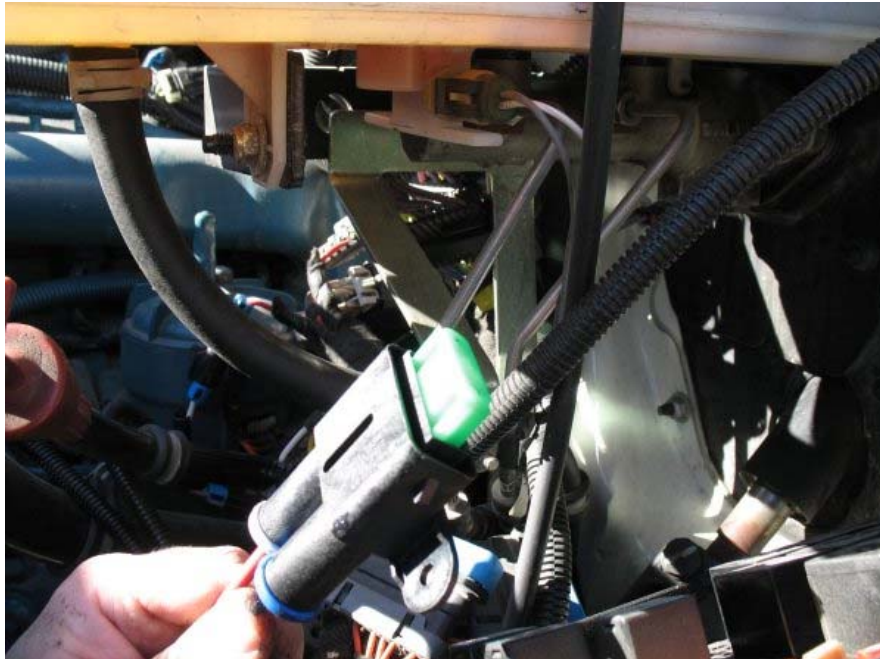


## SERVICE PROCEDURE (CONT.)



**Figure 5**

1. Tighten nut to ensure that the bus bar stud and ring terminal are making good contact
2. Remove 30 amp fuse for hydraulic ABS PMP1 PWR.



**Figure 6**

8. Use strap locks to secure new harness to the existing engine harness to prevent rubbing and abrasion. Use strap lock to secure MAXI fuse holder near the PDC.

## SERVICE PROCEDURE (CONT.)



**Figure 7**

9. Reconnect negative battery cable back on to the negative post of the battery.
10. Turn key to on position. Pump service brake several times and verify that both pumps are building pressure and no brake lamps are illuminated in the instrument cluster.

Operation number must appear on all claims.

**Table 2 Labor Information**

Operation No.	Description	Time
A40-08901-1	Install new harness	0.7 Hr.

### ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-08901

It is important that the 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.

To assure this important improvement is made in a timely manner, all claims for G-08901 activity must be submitted by February 28, 2009 or within the normal warranty period for the vehicle, if after February 28, 2009.

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

Distribution: All except J-81

Reproduction: Not required.