

Authorized Field Change

AFC G-05911

Date: November, 2005

Subject File: ELECTRICAL

Subject: Rerouting of the Instrument Panel (IP) Harness Behind the Front Grille and Main Chassis Harness at the Transmission and Engine Crossmember to Prevent Chafing on CF 500 and CF 600 Models Built Between August 4, 2004 and August 7, 2005

Model: CF 500

Start Date: 08/04/2004 End Date: 08/07/2005

Model: CF 600

Start Date: 08/04/2004 End Date: 08/07/2005

DESCRIPTION

Certain CF truck models were built with electrical harnesses routed in a manner that may result in premature wear and chafing. To remedy this, the electrical harnesses are being rerouted.

PARTS INFORMATION

Table 1 **Parts Information**

Part Number	Description	Quantity
8000877R91	Kit Contains the Following: 299269C91, P-Clip, Cushioned (2) 299276C91,P-Clip, Cushioned (1) 505220C1,P-Clip, Cushioned (1) 2041341C1, Saddle (3) 289862C1 Cable Strap Lock (4)	1

SERVICE PROCEDURE



WARNING – To avoid property damage, personal injury or death, park the vehicle on a flat level surface, set the parking brake, chock the wheels and turn the engine off.

Rerouting the IP Harness

1. Remove grille mounting screw, and remove grille.
2. Remove cable strap lock securing the IP harness to grille mounting bracket (Figure 1).

SERVICE PROCEDURE (CONT.)

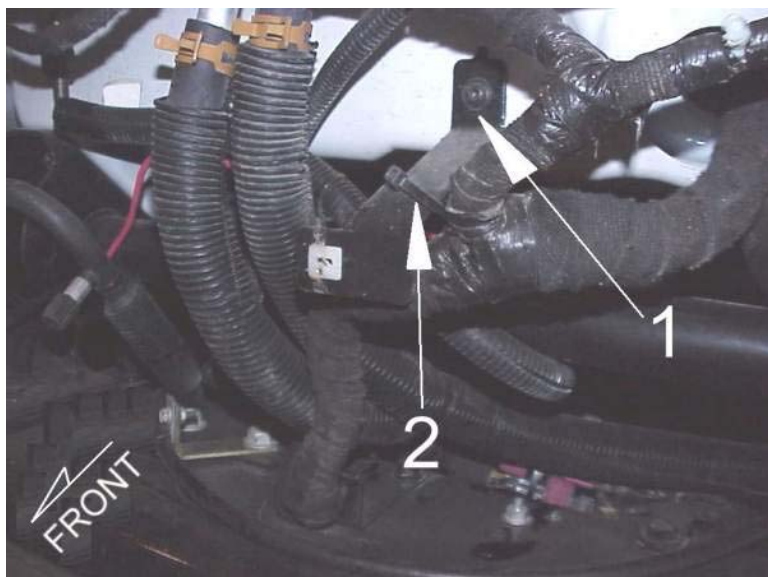


Figure 1 Remove Tie Strap from Bracket

1. Grille Mounting Bracket
2. Cable Strap Lock

3. Remove 2 cable strap locks securing the IP harness to passenger side bracket(s) (Figure 2, Item 1 and Item 2). Remove the bracket and save fasteners for reuse during reassembly.

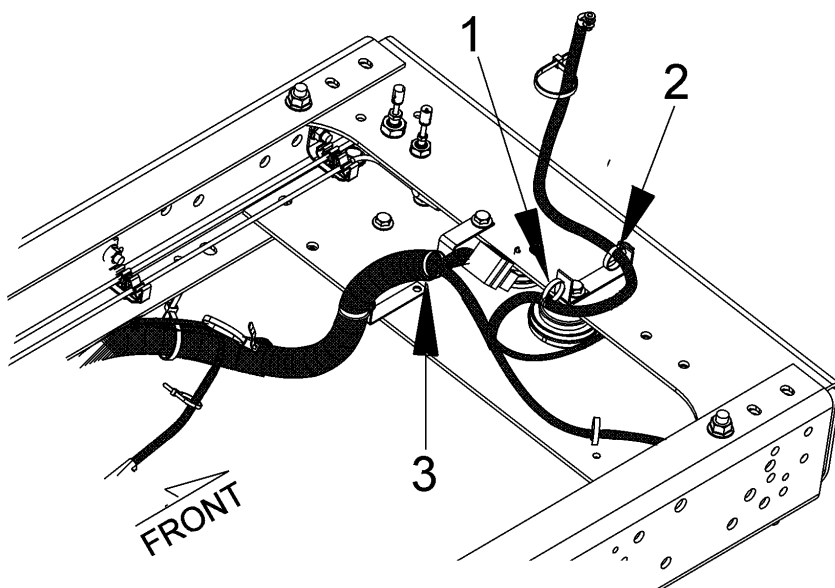


Figure 2 Remove Tie Straps

1. Rear Cable Strap Lock
2. Front Cable Strap Lock
3. Cable Strap Lock, Rear Driver Side Bracket

SERVICE PROCEDURE (CONT.)

4. Remove cable strap lock securing the IP harness to rear of driver side bracket (Figure 2, Item 3). Remove the bracket and save fasteners for reuse during reassembly.
5. When necessary, remove other cable strap locks to allow movement of wire harness.
6. Use the original fasteners and a small P-clip to secure the harness at the point where the passenger side bracket was removed. Orient the P-clip with the loop to the rear, facing up (Figure 3, Item 2).

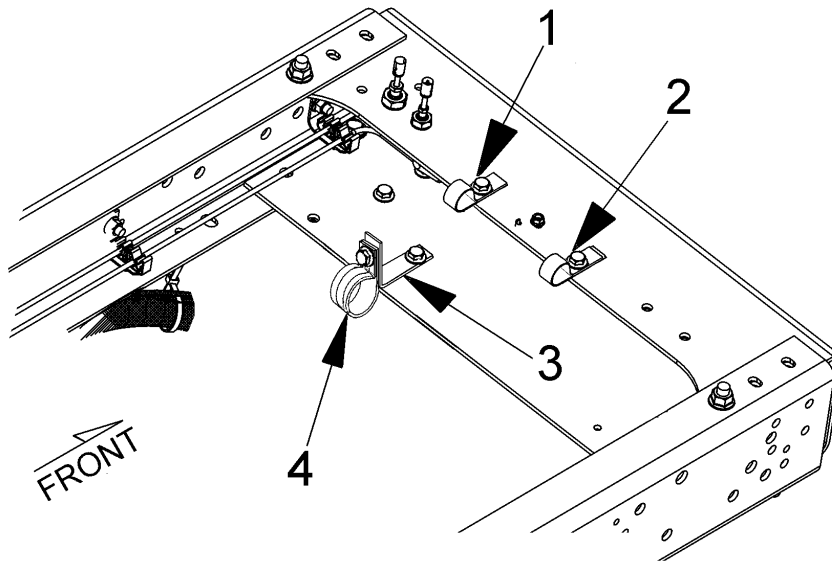


Figure 3 Install P-Clips

1. Small P-Clip, Drivers Side Location
 2. Small P-Clip, Passenger Side Location
 3. Existing "L" Bracket
 4. Larger P-Clip, Drivers Side Location
7. On the driver side, two P-clips (Figure 3, Item 1 and Item 4) will be installed in place of the driver side brackets using the original fasteners. The larger clip, Figure 3, Item 4, must secure the larger harness, and is fastened to the existing "L" bracket, Figure 3, Item 3, with the P-clip loop facing down. The small clip, Figure 3, Item 1, must secure the small harness and should have the loop facing up (Figure 3, Item 1, Item 2, and Item 4).
 8. With the clips in place the harness should be secured so that it runs parallel with the rear of the crossmember and clear of any interference and secure the upper leg of the harness to the cab hinge bar with a cable strap lock (Figure 4 and Figure 5).

SERVICE PROCEDURE (CONT.)

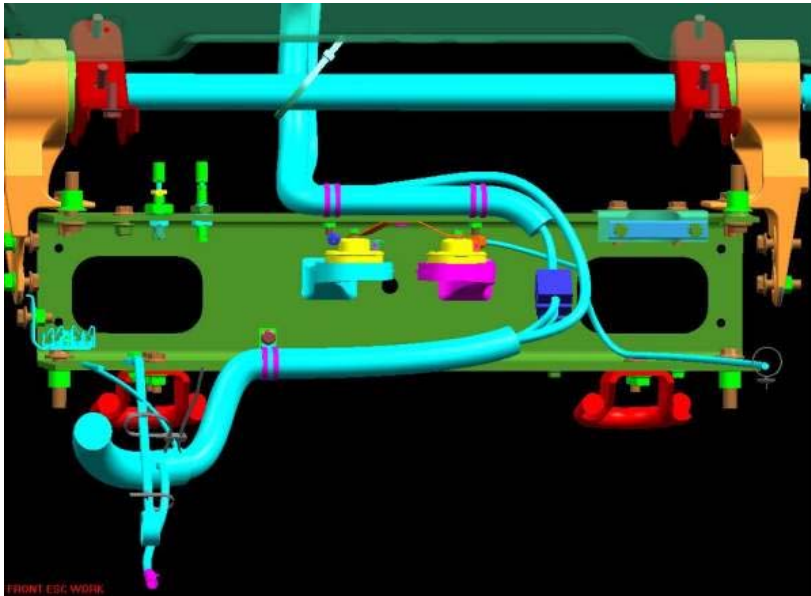


Figure 4 Graphic Representation of Rear View of harness Routing



Figure 5 Front View of Revised Harness Routing

1. Hinge Bar

9. Re-install the grille and secure with mounting screw.

SERVICE PROCEDURE (CONT.)

Rerouting the Main Chassis Harness

10. On the driver side frame rail behind the cab, locate and remove two (2) cable strap locks from the main chassis harness near the break out harness.
11. Remove the cable strap lock bracket near the harness break out and replace it with a cushioned P-clip.
12. Re-install the main chassis harness into the cushioned P-clip (Figure 6, Item 1), before the break out harness (Figure 7, Item 1), and tighten the fasteners .

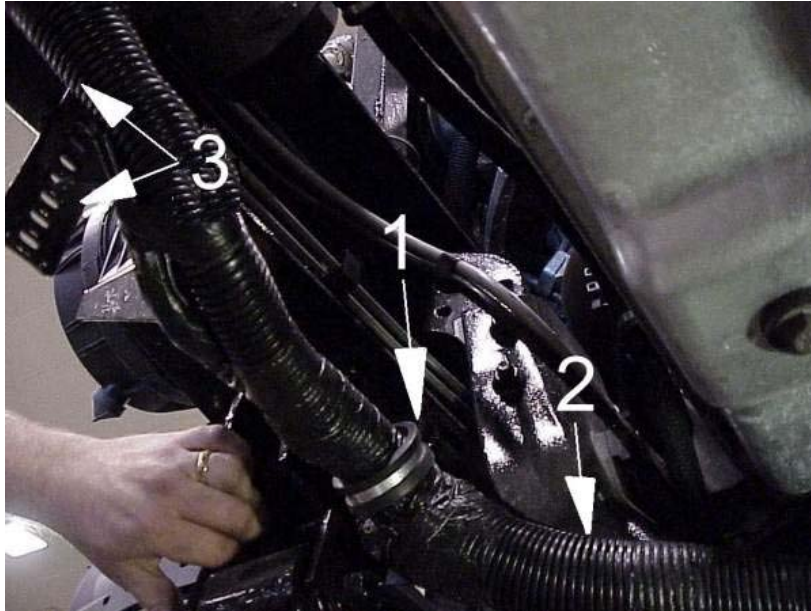


Figure 6 Install Cushioned P-Clip Viewed from Under Chassis

1. Cushioned P-Clip
2. Main Harness
3. Cable Strap Lock and Bracket

SERVICE PROCEDURE (CONT.)



Figure 7 Install Cushioned P-Clip Viewed from Top of Chassis

1. Breakout Harness
13. Install a cable strap lock to the main chassis harness to the rear of the cushioned P-clip as shown in Figure 6, Item 3.
14. From under the chassis locate two (2) cable strap locks securing the main harness to the engine crossmember.
15. Remove the cable strap locks.
16. Remove the fasteners and cable strap lock brackets. Reinstall the brackets so that the bend in the bracket is facing downward (Figure 8, Item 5).

SERVICE PROCEDURE (CONT.)

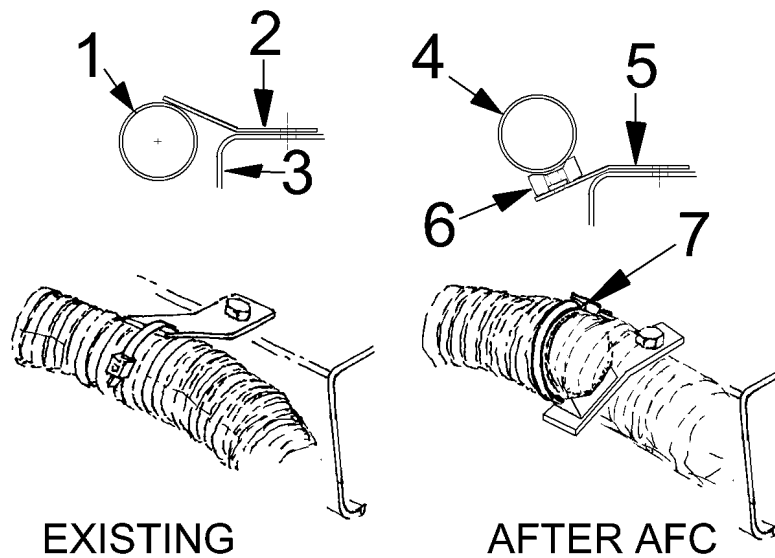


Figure 8 Revised Harness Bracket Orientation

1. (OLD) Break Out Harness Below Bracket
2. (OLD) Bend in Bracket Upward
3. Engine Crossmember
4. (NEW) Break Out Harness Above Bracket
5. (NEW) Bend in Bracket Downward
6. (NEW) Saddle
7. Cable strap lock

17. Install a saddle to both brackets (Figure 8, Item 6) and secure the main harness with cable strap locks (Figure 8, Item 7). When properly routed the harness should look like Figure 9.

SERVICE PROCEDURE (CONT.)



Figure 9 Under Chassis View of Properly Routed Harness

18. Follow the main harness to the passenger side to locate the third (3) cable strap lock. Note the harness, cable strap lock and bracket will be on the passenger side of the engine crossmember (Figure 10, Item 2). Remove the cable strap lock, install a saddle to the existing bracket and secure the harness (Figure 11).

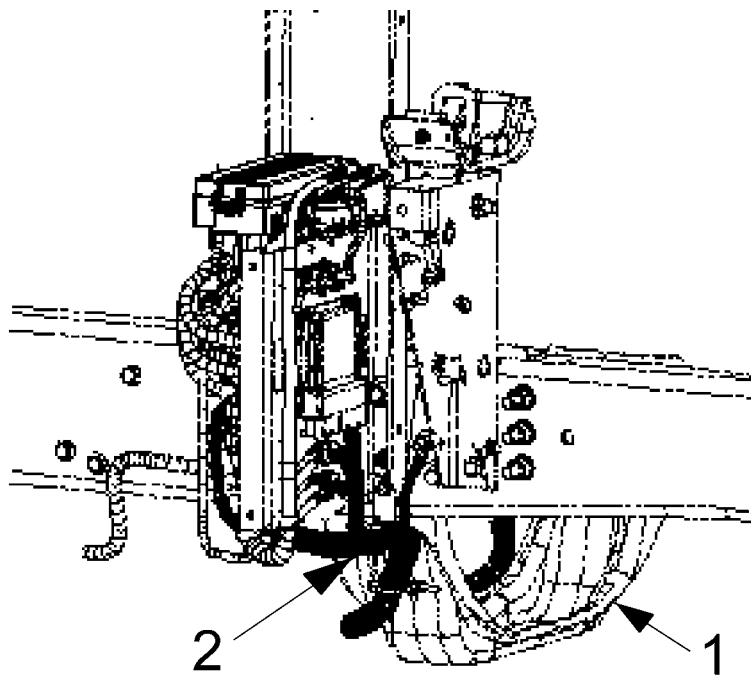


Figure 10 Typical Harness Routing on the Passenger Side of the Engine Crossmember

- 1. Engine Crossmember
- 2. Typical Location of Harness Bracket, Saddle, and Cable Strap Lock

SERVICE PROCEDURE (CONT.)

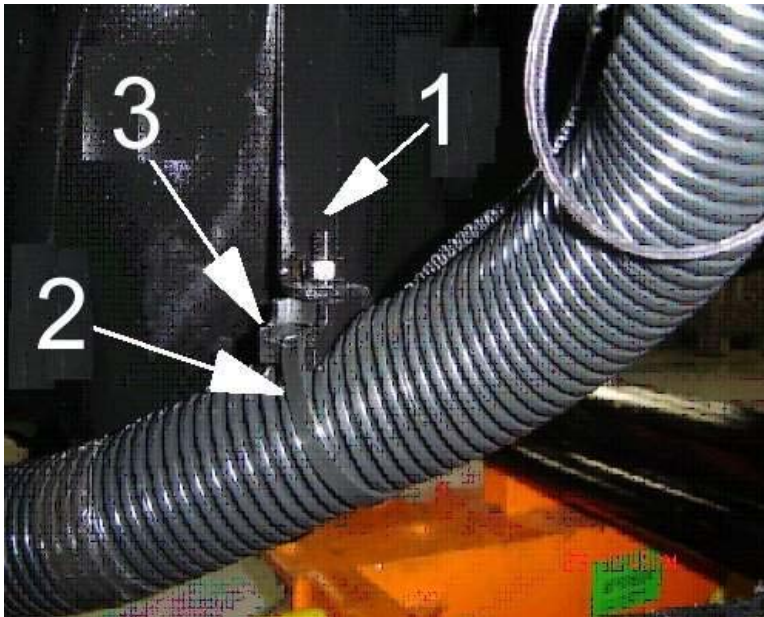


Figure 11 Install Saddle and Cable Strap Lock to Retain Harness on Passenger Side of Engine Crossmember

1. Bracket
2. Cable Strap Lock
3. Saddle

Operation number must appear on all claims.

Table 2 Labor Information

Operation No.	Description	Time
A40-05911-1	Reroute Instrument Panel and Main Chassis Electrical Harnesses	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-05911.

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-05911 activity must be submitted by November 30, 2006 or within the normal warranty period for the vehicle, if after November 30, 2006.

	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						

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