

Authorized Field Change

INTERNATIONAL

AFC G-02905

Date: October, 2002

Subject File: BRAKES

Subject: Addition Of Power Wire For Air Line Dryer On 4000, 7000, And 8500 Trucks With Feature Code 04EBD, 04EBS, 04EBT Manufactured At Garland Between June 1, 2001 and March 14, 2002

Truck Model: 4000

Start Date: 06/01/2001 End Date: 03/14/2002

Truck Model: 7000

Start Date: 06/01/2001 End Date: 03/14/2002

Truck Model: 8500

Start Date: 06/01/2001 End Date: 03/14/2002

Unit Code: 04EBD

Unit Code: 04EBS

Unit Code: 04EBT

DESCRIPTION

Print ready (PDF file) copy of the AFC letter

Certain 4000, 7000, and 8500 Models built in Garland between June 1, 2001 and March 14, 2002 with air line dryer, Code 04EBD, 04EBS, 04EBT are missing the power feed wire in the cab harness. This letter documents the steps required to add the harness power feed wire for the air line dryer, Code 04EBD, 04EBS, 04EBT.

PARTS INFORMATION

Table 1 Parts Information

Part Number	Description	Quantity
3545551C91	16 GA Harness Wire with Terminal Ends	1

SERVICE PROCEDURE



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

1. Unlatch and open hood assembly.
2. Turn the ignition switch On and check power to ground at air line dryer heater. If you get a 12 volt reading, go no further, the vehicle does not need this service performed. If you do not get a 12 volt reading, turn the ignition switch off and continue with the next steps.



WARNING – Batteries expel explosive gases. Keep sparks, burning cigarettes, or other sources of ignition away at all times. Always wear safety glasses and a face shield when working near batteries to prevent personal injury.

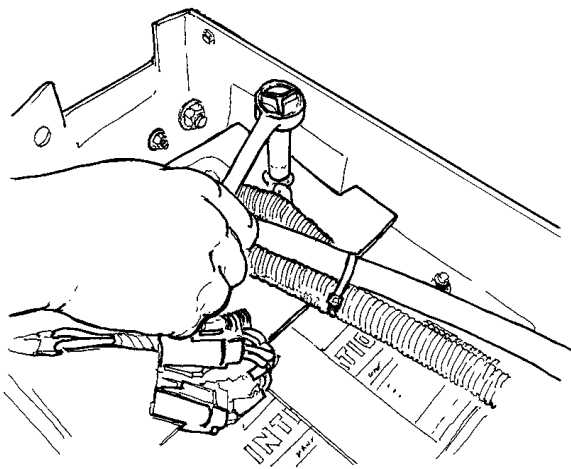


Figure 1 Disconnect Negative Battery Cable

3. Disconnect the negative battery cable.

SERVICE PROCEDURE (CONT.)

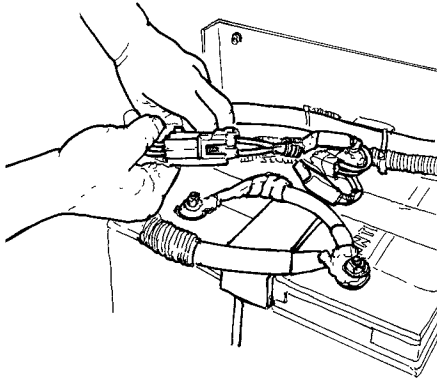


Figure 2 Disconnect E.C.M. Ground

4. Disconnect Electronic Control Module (E.C.M.) ground connector (Figure 2).

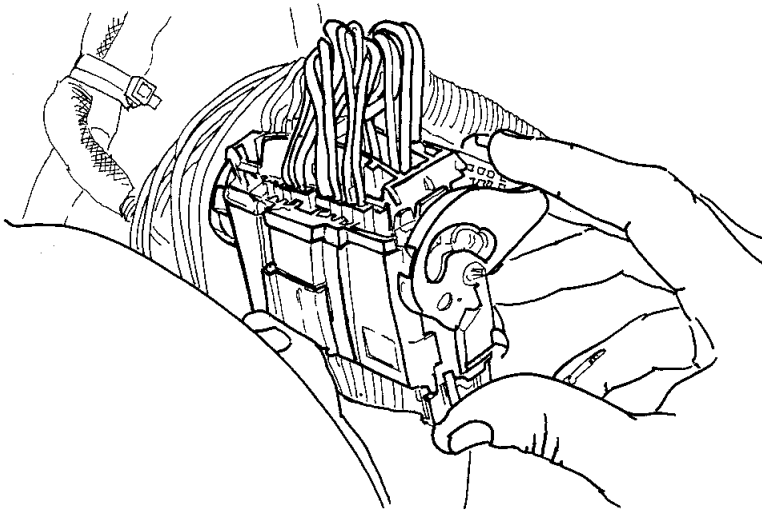


Figure 3 Forty Pin Connector: Rotate Lever

5. Disconnect the 40 pin lever lock connector by rotating lever and separating connector (Figure 3). Carefully cut any ty-wraps that may be in the way.

SERVICE PROCEDURE (CONT.)

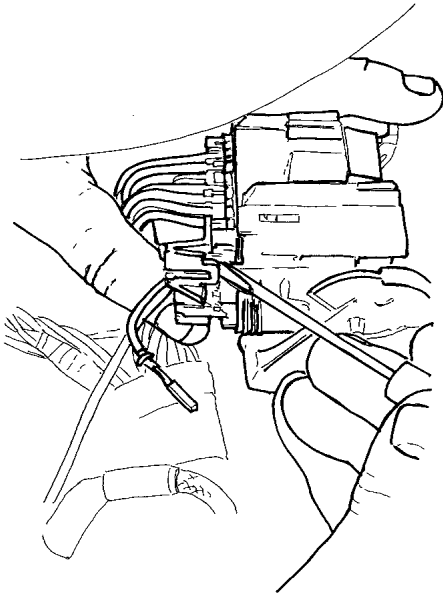


Figure 4 Remove Retainer

6. Remove the retainer from the connector by prying the clips up. There are 2 retainers on this connector. The one to be removed is over slot B-12 (Figure 4) .

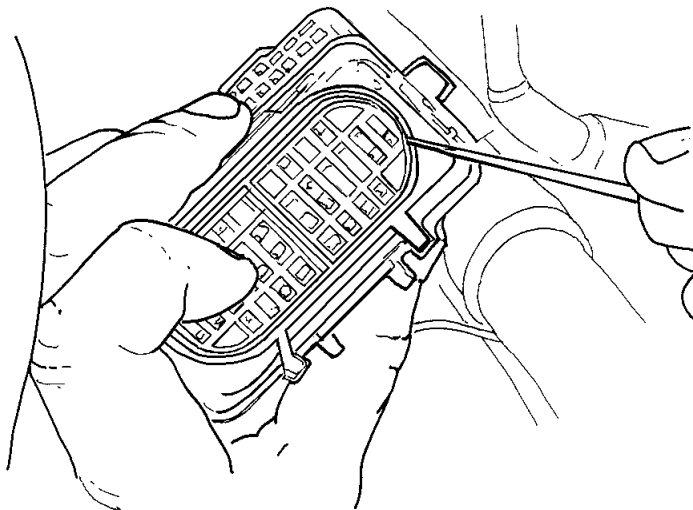


Figure 5 Remove Green Seal

SERVICE PROCEDURE (CONT.)

7. Remove the green rubber seal from the slot being careful not to damage the 40 pin connector (Figure 5). Seal can be removed carefully with needle nosed pliers, or pushed out from the other side with a slender blunt object.

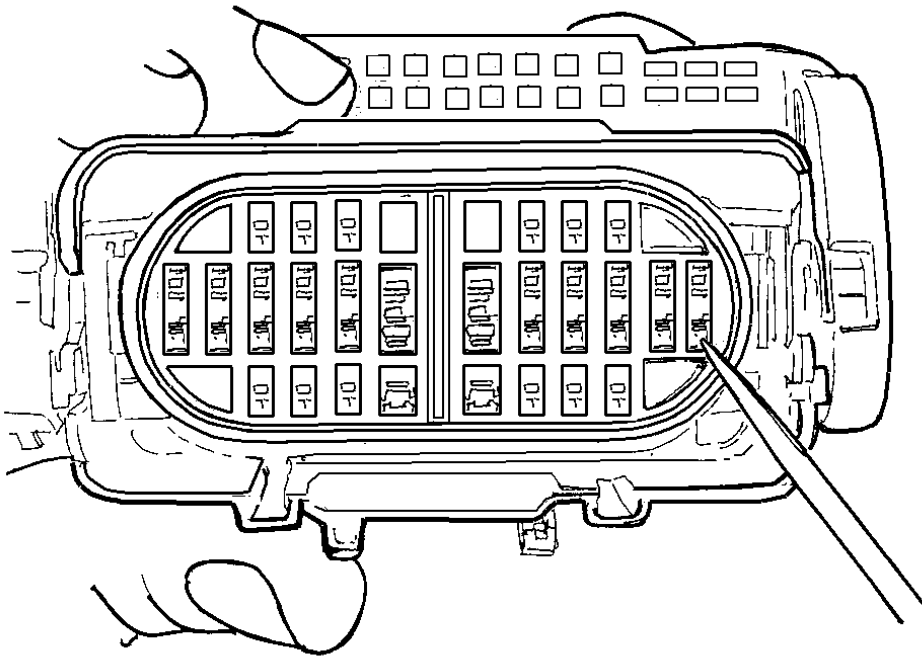


Figure 6 Socket B-12 Front View

NOTE – The new harness wire has a connector terminal on each end that are not the same size. The small connector terminal fits the 40 pin connector, the larger harness wire connector terminal fits the power distribution center.

8. Insert the new harness wire small connector terminal into socket B-12 (40 pin connector) from the rear side (retainer side) of the connector (Figure 6).

SERVICE PROCEDURE (CONT.)

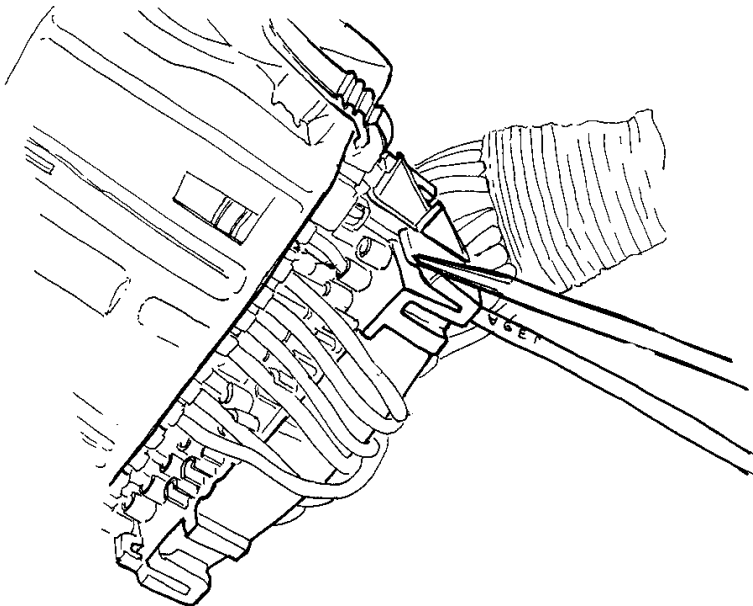


Figure 7 Install Retainer

9. Re-install the green rubber seal and retainer (Figure 7).

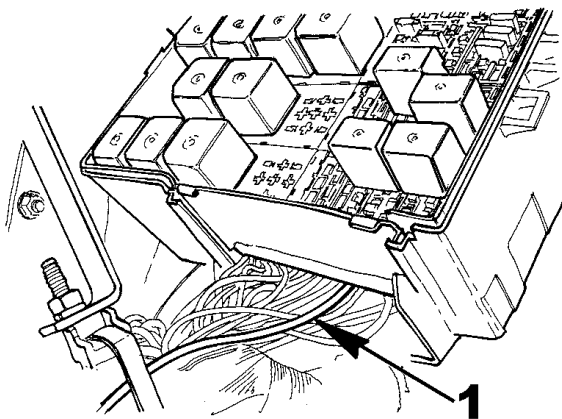


Figure 8 Route Harness Wire

1. NEW HARNESS WIRE

10. Route the new harness wire from the 40 pin connector to the Power Distribution Center (P.D.C.) fuse box (Figure 8). Go under any tie-wraps between the connector and the fuse box. If the ty-wraps are too tight, carefully cut them off, route the harness wire, and install a new tie-wrap.

SERVICE PROCEDURE (CONT.)

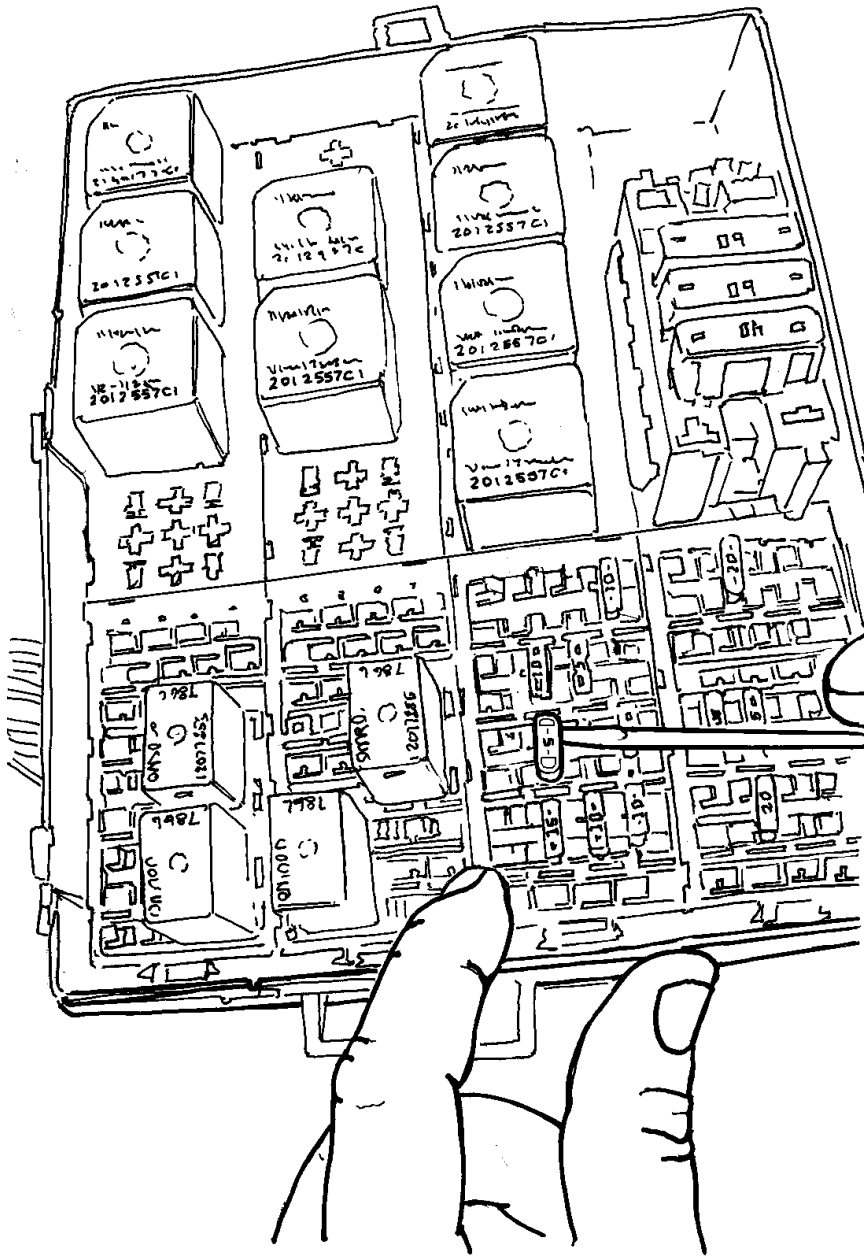


Figure 9 Remove E.C.M. Fuse

11. Remove the 5-amp E.C.M. fuse from the power distribution center (PDC)(Figure 9).

SERVICE PROCEDURE (CONT.)

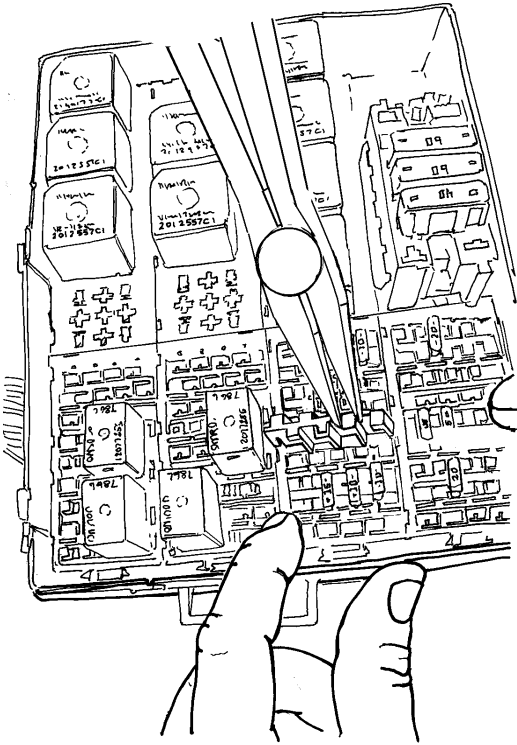


Figure 10 Remove Retainer

12. Remove the retainer by prying up on one side, and then the other (Figure 10). Remove any other fuses holding retainer in place.

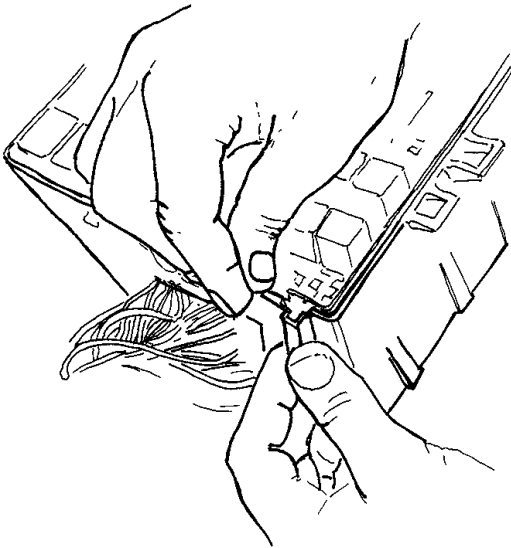


Figure 11 Remove P.D.C. Fuse Block Box Side Door

SERVICE PROCEDURE (CONT.)

13. Remove the side door of the fuse box by prying up on the ears of the door (Figure 11).
14. Disconnect the fuse block by inserting a very thin screw driver or other tool between the fuse block and the side of the fuse box, then pry up (Figure 12) and remove (Figure 13).

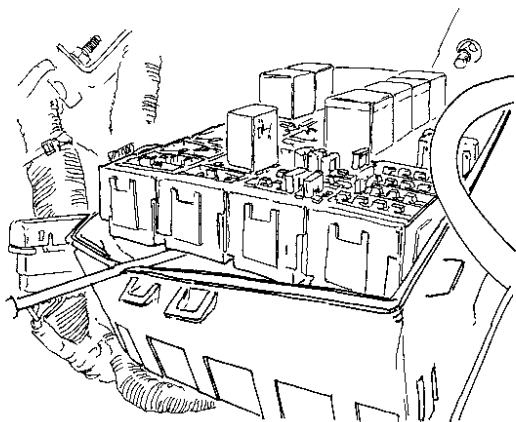


Figure 12 Pry Fuse Block from Fuse Box

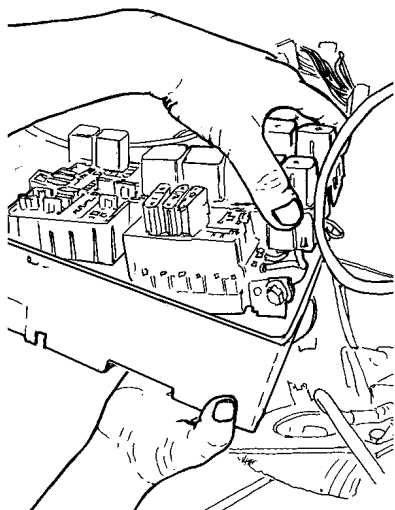


Figure 13 P.D.C. Fuse Block Box With Fuse Blocks Tilted Partially Free

NOTE – The new harness wire has a connector terminal on each end that are not the same size. The small connector terminal fits the 40 pin connector, the larger harness wire connector terminal fits the power distribution center.

15. Route the new harness wire under the fuse block of the P.D.C. (Figure 14). Orient the wire the same way as the E.C.M. terminal. **This wire can be installed backward. Review preceding Note.**

SERVICE PROCEDURE (CONT.)

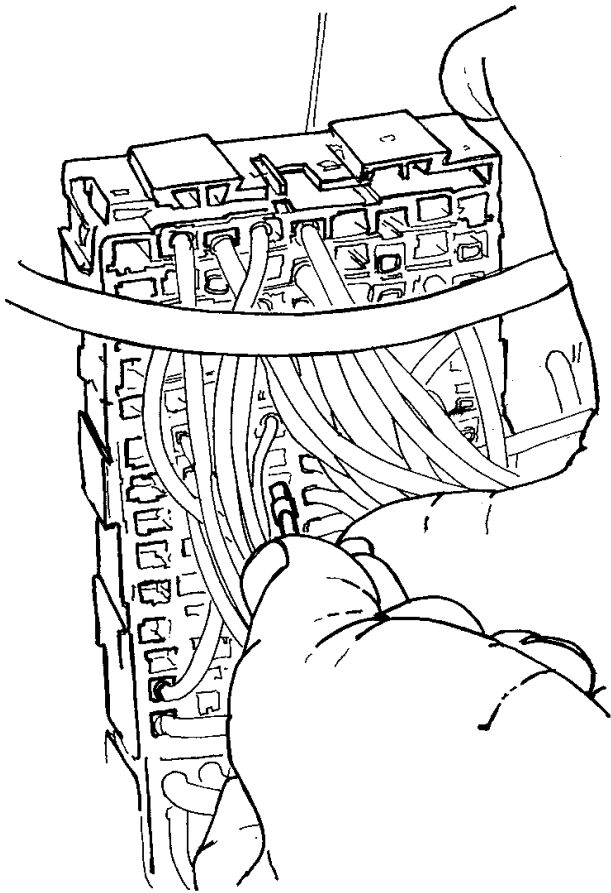


Figure 14 Insert Wire In Fuse Block

16. Insert the new harness wire into fuse block cavity F1–F3 (second space up from the (purple color) E.C.M. wire (Figure 14). It is important that this wire be in the correct location. From the top, the correct location is on the second row, two spaces down. Tug gently on the wire to assure that the wire is completely seated.

SERVICE PROCEDURE (CONT.)

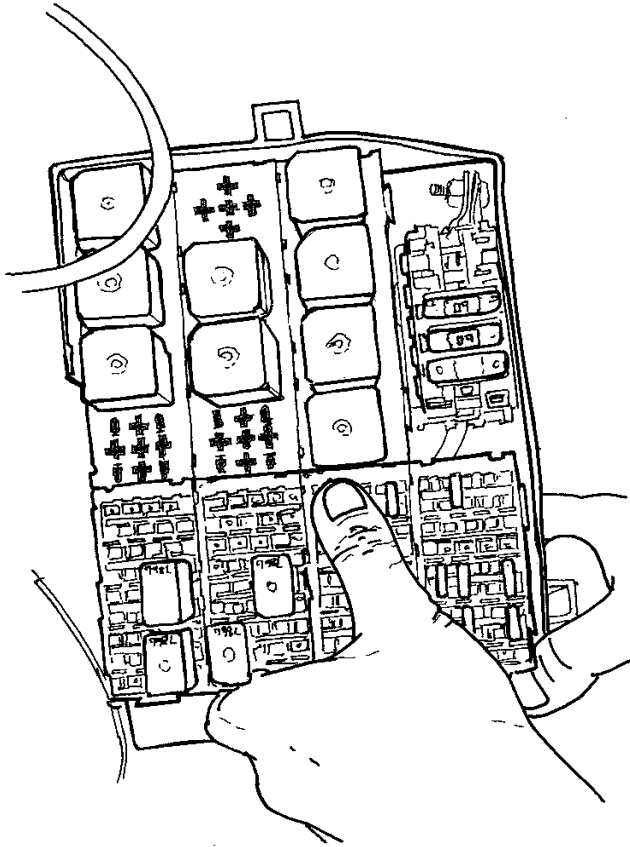


Figure 15 Installation Of P.D.C. Fuse Blocks

17. Reinstall the fuse block by pressing down the top of the fuse block while pressing in on the side of the fuse box (Figure 15). If the maxi fuse block came loose it must be installed first.

SERVICE PROCEDURE (CONT.)

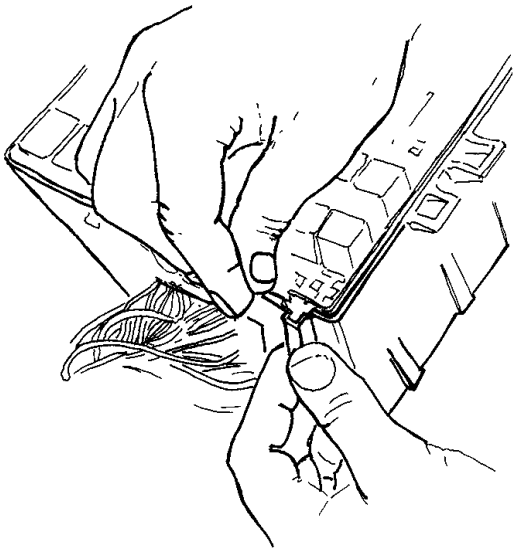


Figure 16 Install Door In Fuse Block Box

18. Re-install the P.D.C. fuse box door (Figure 16). Slide the door down the grooves it fits into while pressing in on the outside of the box.

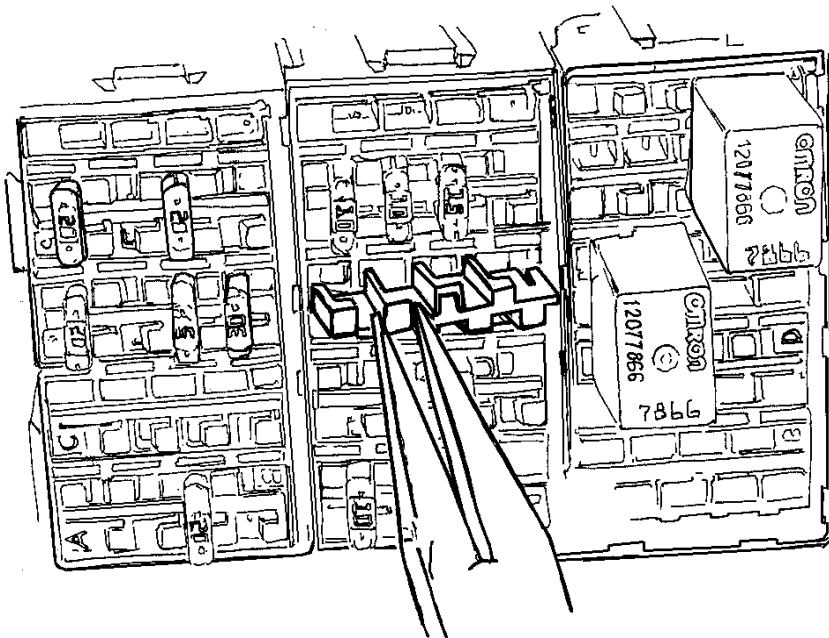


Figure 17 Install Retainer

19. Re-install the terminal retainer by pushing it down into place (Figure 17).

SERVICE PROCEDURE (CONT.)

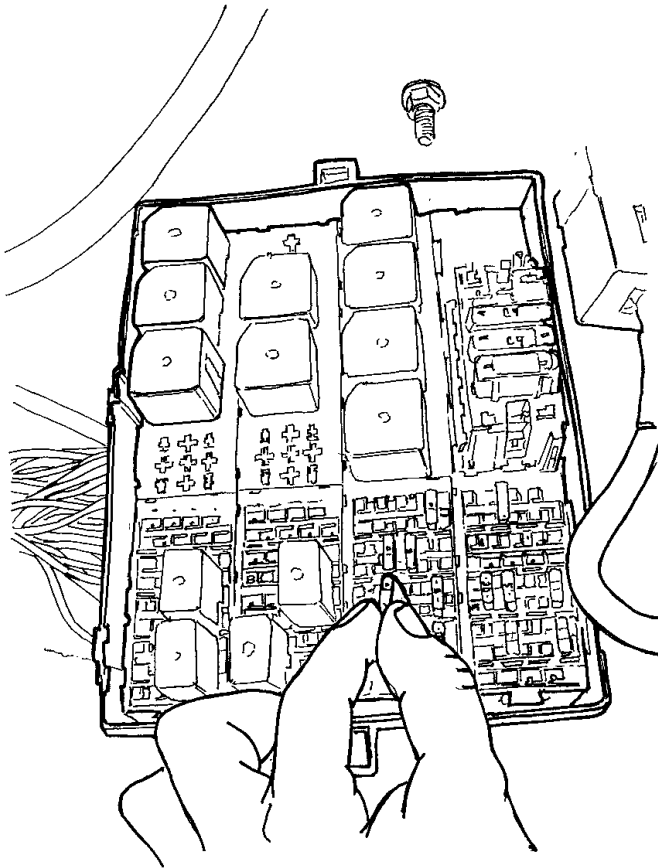


Figure 18 Install 5-Amp E.C.M. Fuse

20. Re-install the 5-amp E.C.M. fuse and a 20-amp fuse to power the wire just installed (Figure 18).

SERVICE PROCEDURE (CONT.)

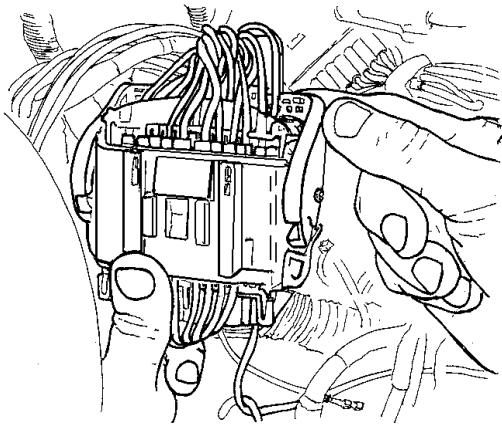


Figure 19 Close 40 Pin Slide Lock Connector

21. Reconnect the 40 pin slide lock connector (Figure 19).

SERVICE PROCEDURE (CONT.)

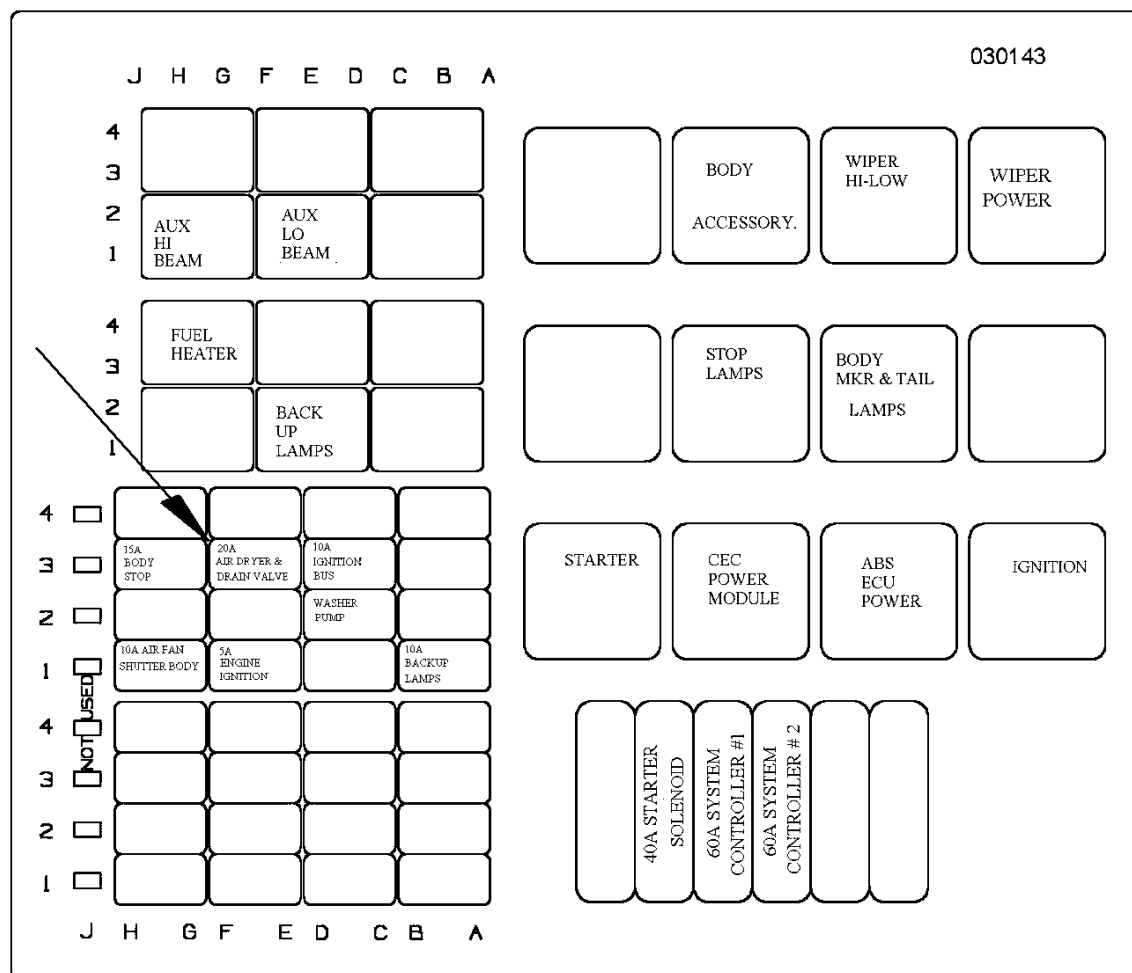


Figure 20 P.D.C. Fuse Block Fuse Index- Arrow Indicates "Air Dryer-20A" Label Location

22. Label the fuse index located on the underside of the fuse box cover "Air Dryer-20A" (Figure 20).
23. Dress up the harness and add new tie-wraps if needed.
24. Reconnect the negative battery cable and E.C.M. ground.
25. Turn ignition switch to on and verify 12 volts to the air dryer.
26. Close and latch hood assembly and remove wheel chocks.

Operation number must appear on all claims.

Table 2 Labor Information

Operation No.	Description	Time
A40-02905-1	Install Power Wire for Air Line Dryer	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-02905.

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-02905 activity must be submitted by October 31, 2003 or within the normal warranty period for the vehicle, if after October 31, 2003.

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.

Figure 21