

CERTAIN 2009 MODEL YEAR F-650/750 VEHICLES – CHASSIS WIRING HARNESS CONNECTOR SEAL

OVERVIEW

In some of the affected vehicles, the connector seal between the main chassis wiring harness and the rear chassis wiring harness may be missing.

Dealers are to inspect Connector 406 (C406) for the presence of the seal and/or terminal corrosion. Based on the results of the inspection, dealers will perform one of the following service actions:

Inspection Results	Service Action
Seal was present	No further action required
Seal was <u>not</u> present and corrosion was <u>not</u> found	Install a new connector seal and apply electrical grease
Seal was <u>not</u> present and corrosion was <u>found</u>	Call the Special Service Support Center for further instructions

Steps within this inspection and service procedures are typical. Vehicles may differ based on wheelbase, options, and modifications.

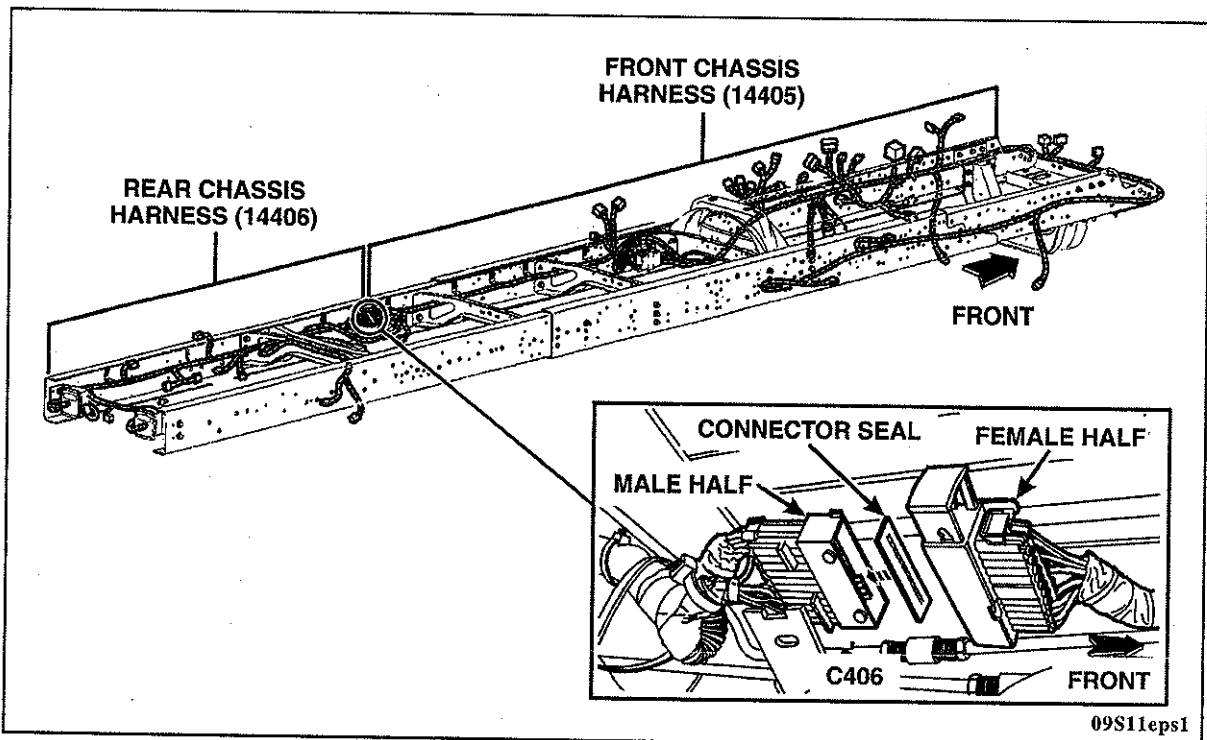


FIGURE 1



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 12/09

INSPECTION

1. Make sure all electrical loads (lights, ignition, and accessories) are turned OFF. Remove the key from the ignition.
2. Remove any tie straps that secure C406 to the frame rail ladder bracket.
3. Release the connector lock and separate the front and rear main chassis harness at C406. Inspect the male half of the connector for the seal. See Figure 2.

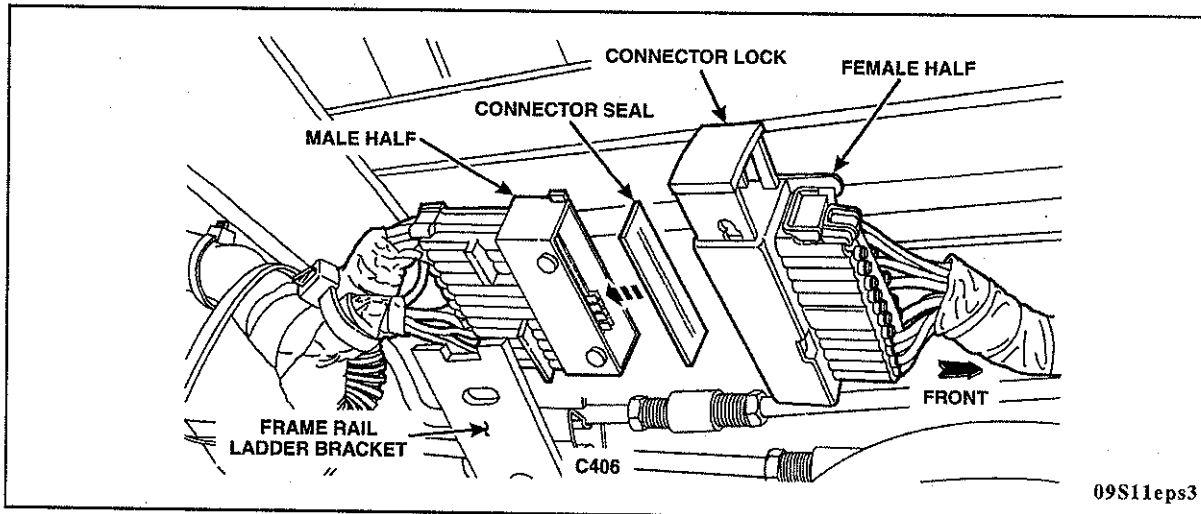


FIGURE 2

- If the seal is **PRESENT** at C406, connect the front and rear main chassis harnesses and proceed to the Service Procedure, Step 5.
 - If the seal is **NOT PRESENT** at C406, proceed to step 4.
4. Inspect each half of C406 for evidence of corrosion.
 - If **NO evidence of corrosion is found**, proceed to the Service Procedure.
 - If **ANY evidence of corrosion is found**, this is considered related damage. Please call the Special Service Support Center (SSSC) at 1-800-325-5621 for further instructions.

SERVICE PROCEDURE – SEAL MISSING, NO CORROSION FOUND

1. Remove any moisture, dirt or debris from the male and female halves of C406 with compressed air.
2. **NOTICE: Do not disturb the terminal pin alignment when installing the new C406 seal. Disturbing the alignment may cause the tail lamps to become inoperative and/or illuminate the ABS instrument cluster warning light.**

Install the **new** seal on the male half of the connector.

- Align the slots of the seal with the terminal pins.
- Using gentle pressure, push the seal downward onto the terminal pins until the seal seats in the bottom of the connector cavity. See Figure 2.



3. **NOTE:** To prevent any remaining moisture from causing future corrosion apply an adequate amount of Motorcraft® Electrical Grease (XG-12) or equivalent to the vehicle harness connector.

Apply a 1/32 inch (1 mm) bead of Motorcraft® Electrical Grease (XG-12) or equivalent across the cavities on the female portion of C406. See Figure 3.

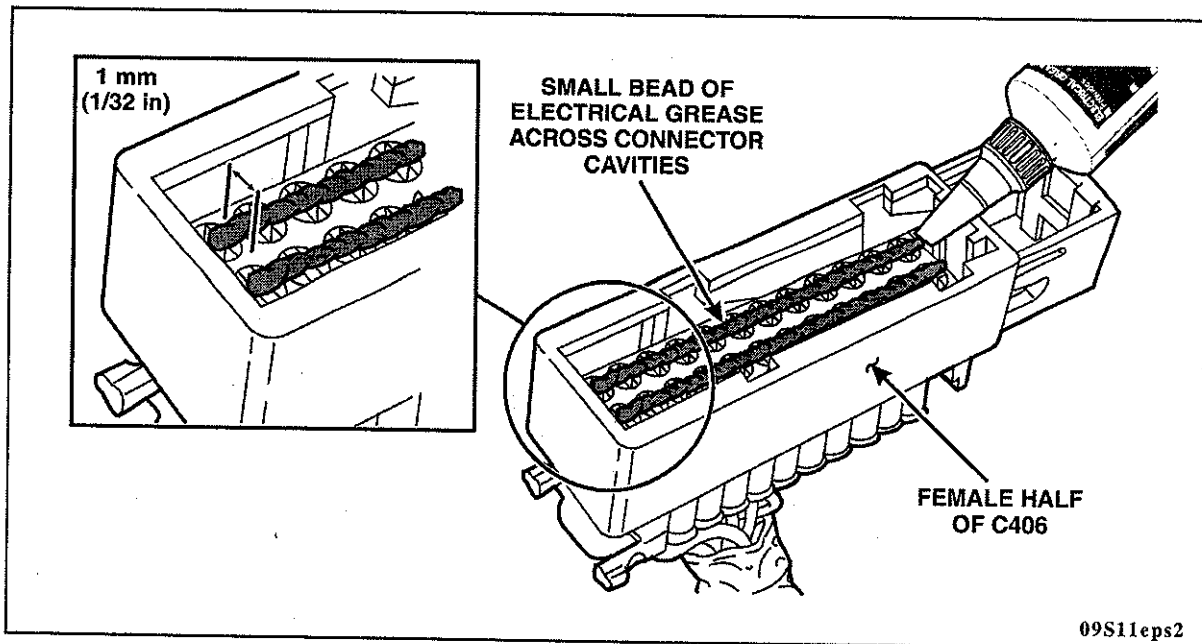


FIGURE 3

4. Connect the front and rear main chassis harness at C406.
5. Position C406 back onto the frame rail ladder bracket and secure the connector and harness using two *new* tie straps as shown. See Figure 4.

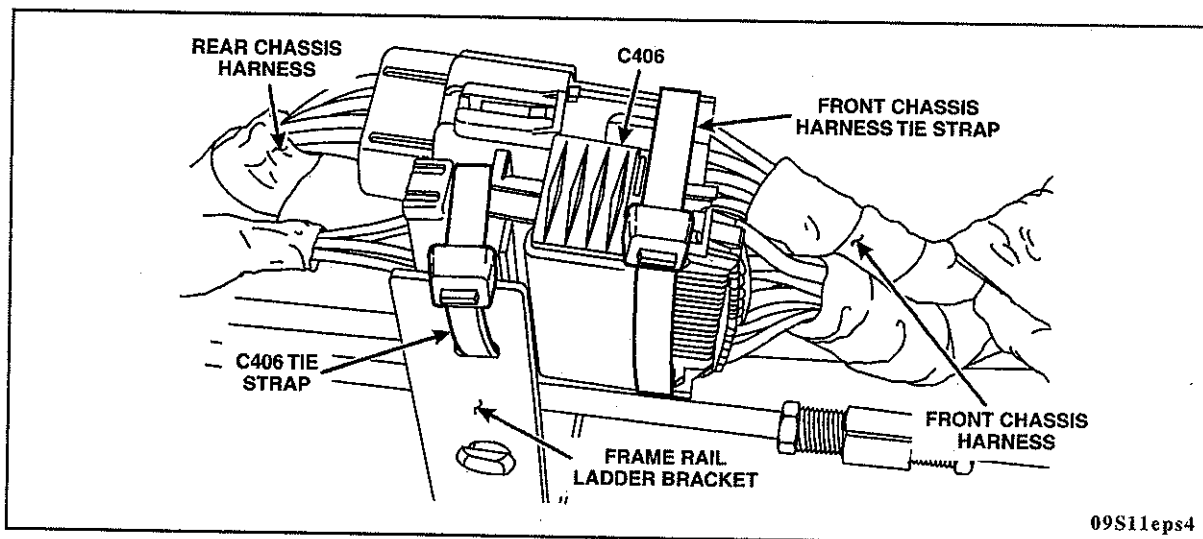


FIGURE 4

