FIAT CHRYSLER AUTOMOBILES

Revised March 2015

Dealer Service Instructions for:

Safety Recall P61 / NHTSA 14V-631
Heated Power Side View Mirror Wire Harness

NOTE: The parts section has been updated.

Models

2011 - 2013 (JK) Jeep® Wrangler

*NOTE: This recall applies only to the above vehicles equipped with heated power side view mirrors (**sales code GTB**) built from February 16, 2010 through July 19, 2013 **(MDH 021605 through 071910)**.*

IMPORTANT: Some of the involved vehicles may be in dealer used vehicle inventory. Dealers should complete this recall service on these vehicles before retail delivery. Dealers should also perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

Subject

The power side view mirrors on about 313,000 of the above vehicles may experience a loss of right and/or left heated power mirror function. Water may travel along the heated power mirror wiring harness and into the heated power mirror electrical connector(s). This can cause corrosion inside the heated mirror connector(s) and the formation of a resistive bridge between the power and ground electrical terminals. A resistive bridge between the power and ground electrical terminals in the heated power mirror connector(s) could cause an electrical fire without warning.

Repair

The heated power mirror electrical connectors for the right and left heated power mirrors will be inspected for corrosion. All vehicles will have the power feed electrical terminal for the heated power mirrors relocated to a separate electrical connector. If the electrical connector is melted or damaged it must be removed and the wires spliced together.

In addition, a water shield will be installed to divert water away from the heated power mirror connector and dielectric grease will be inserted into the connector to prevent corrosion.

Parts Information

Part Number	Description
CBVLP611AA	**Power Mirror Wiring Package**

Each package contains the following components:

Quantity	Description
2	Shield, Foam Water
4	Crimp, Brass
4	Tube, Shrink
2	Connector, Electrical (male)
2	Connector, Electrical (female)

Each dealer to whom vehicles in the recall were assigned will receive enough Power Mirror Wiring Packages to service about 25% of those vehicles.

Part Number	Description
05018395AA	**Crimp, Brass (with shrink tube)** **(4 req. per connector only if the electrical connector is melted/damaged)**
04778138	**Tape, Wire Harness** **(NOTE: One role of wire harness tape can repair 60 vehicles)**
05018045AA	**Cleaner, Electrical Contact (or equivalent)** **(NOTE: One can of cleaner can repair 5 vehicles)**
05013781AA	**Grease, Dielectric Nye (or equivalent)** **(NOTE: One tube of grease can repair 50 vehicles)**

Special Tools

The following special tools are required to perform this repair:

- 10042* Wire splice crimp tool

*** NOTE: One wire splice crimp tool was mailed to each Chrysler/Jeep/Dodge dealer free of charge in June, 2007.**

Additional wire splice crimp tools can be purchased, at dealer expense, by calling Mopar Essential Tools at 1-855-298-2687 during regular business hours. Contact Mopar Essential Tools regarding warranty issues on any purchased tools.

Parts Return

No parts return required for this campaign.

Service Procedure

1. Place both front windows in the full up position.

2. Open the hood.

3. Disconnect and isolate the negative battery cable.

4. Remove and save the interior door trim panel (Figure 1).

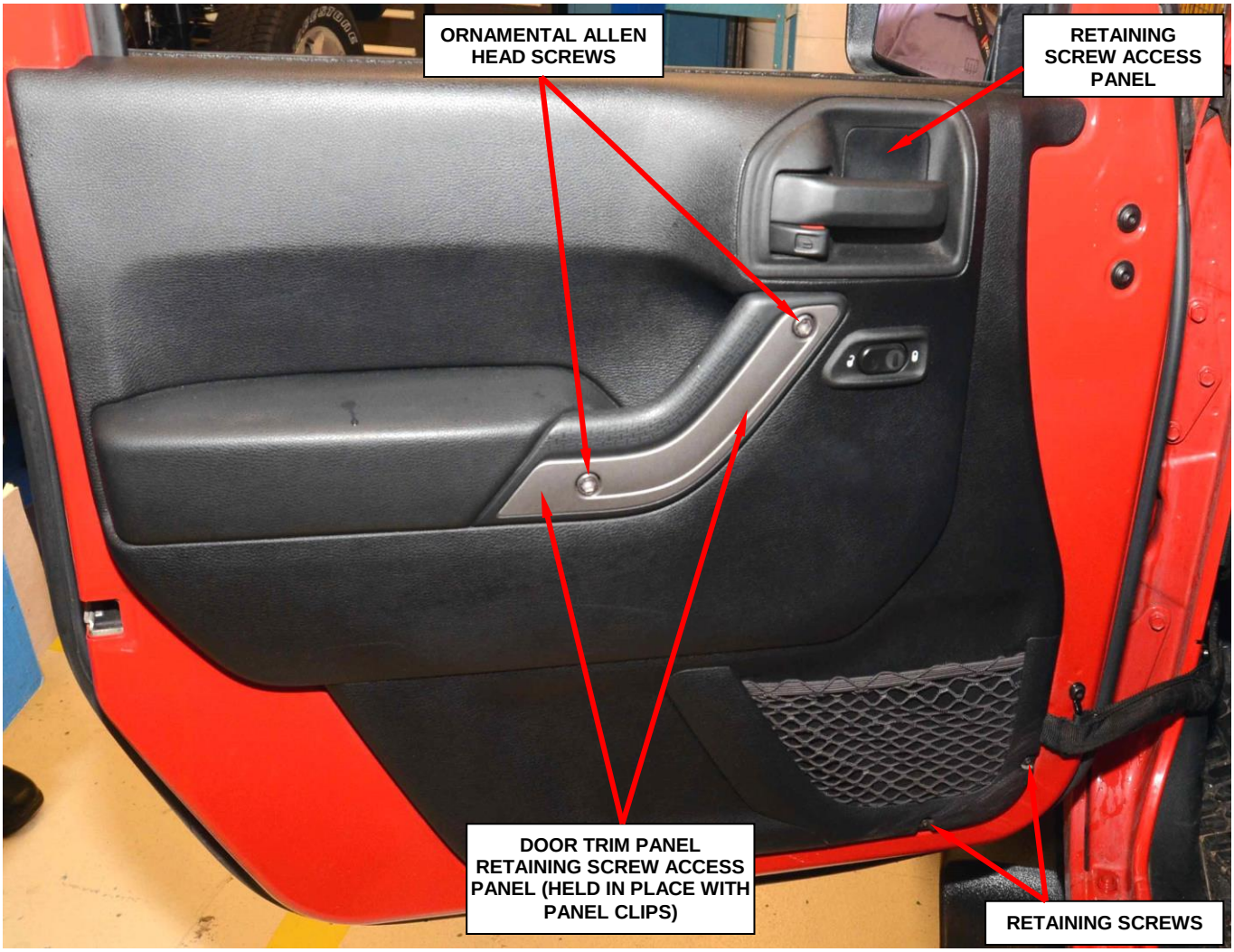

Figure 1 – Interior Door Trim Panel

Service Procedure (Continued)

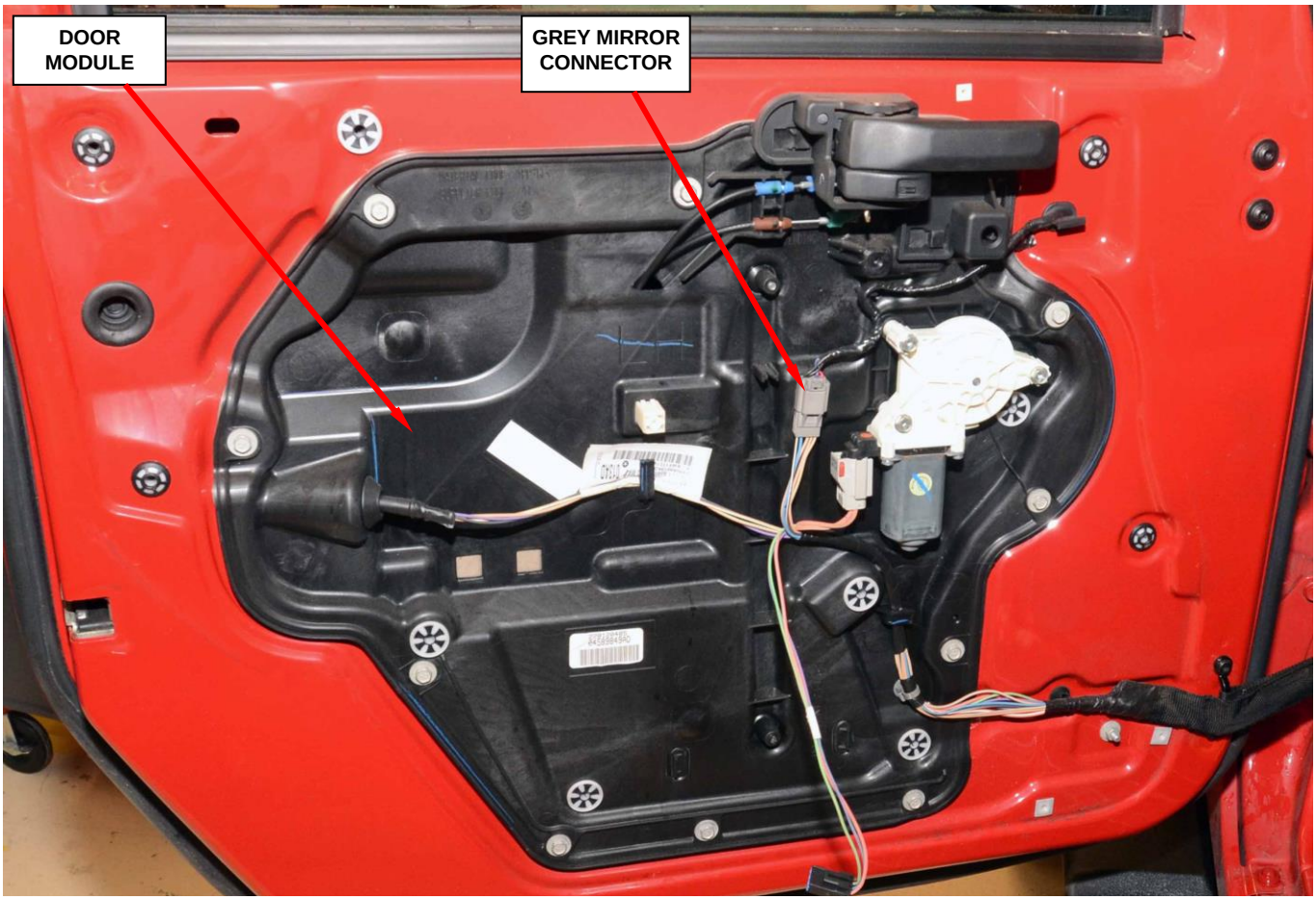

Figure 2 – Grey Mirror Connector

5. Disconnect the grey mirror connector (Figure 2).

6. Using the following procedure, clean the terminals on both sides of the grey mirror connector:

   a. Spray both sides of the connector with Mopar Electrical Contact Cleaner (Figure 3).

   b. Connect and disconnect the male and female connector halves several times.

Figure 3 – Clean Electrical Connectors

Service Procedure (Continued)

c. Spray connectors again with Mopar Electrical Contact Cleaner to rinse out debris.

d. Using compressed air, blow out the connector halves until dry (Figure 6).

7. Inspect the grey connector:

   - If the connector is not melted or damaged, continue with Step 9 of this procedure.
   - If the connector is melted, continue with Step 8 of this procedure.

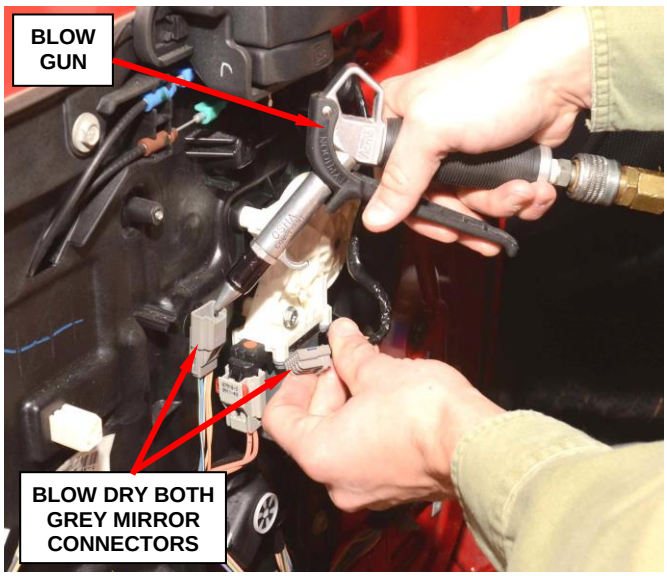

Figure 4 – Blow Dry Connectors

8. Use the following procedure to eliminate a melted mirror wire connector(s):

   a. Mark the four wires on both sides of the grey mirror electrical connector so the wires can be spliced together correctly.

   b. Cut off the wires at both sides of the grey mirror electrical connector (eliminating the grey mirror electrical connector).

   c. Splice the wires together using special tool 10042, brass crimps, rosin core solder and shrink tube. Be sure to align wires using marks made in Step 8a. of this procedure.

   d. Continue with Step 9 of this procedure.

   NOTE: The remainder of the procedure shows a grey mirror electrical connector in the photographs. If the grey mirror electrical connector has been eliminated due to heat damage (melted), the mirror wiring kit must still be installed.

Service Procedure (Continued)

9. Use the following procedure to prepare the wiring kit for installation:

   a. Cut the new female connector wire so that it is 2 inches (51 mm) long (Figure 5).

   b. Cut the new male connector wire so that it is 14 inches (355 mm) long (Figure 5).

   c. Strip ¼ inch (6 mm) of insulation from the end of each new connector wire (Figure 5).

   d. Cut shrink tube pieces in half.

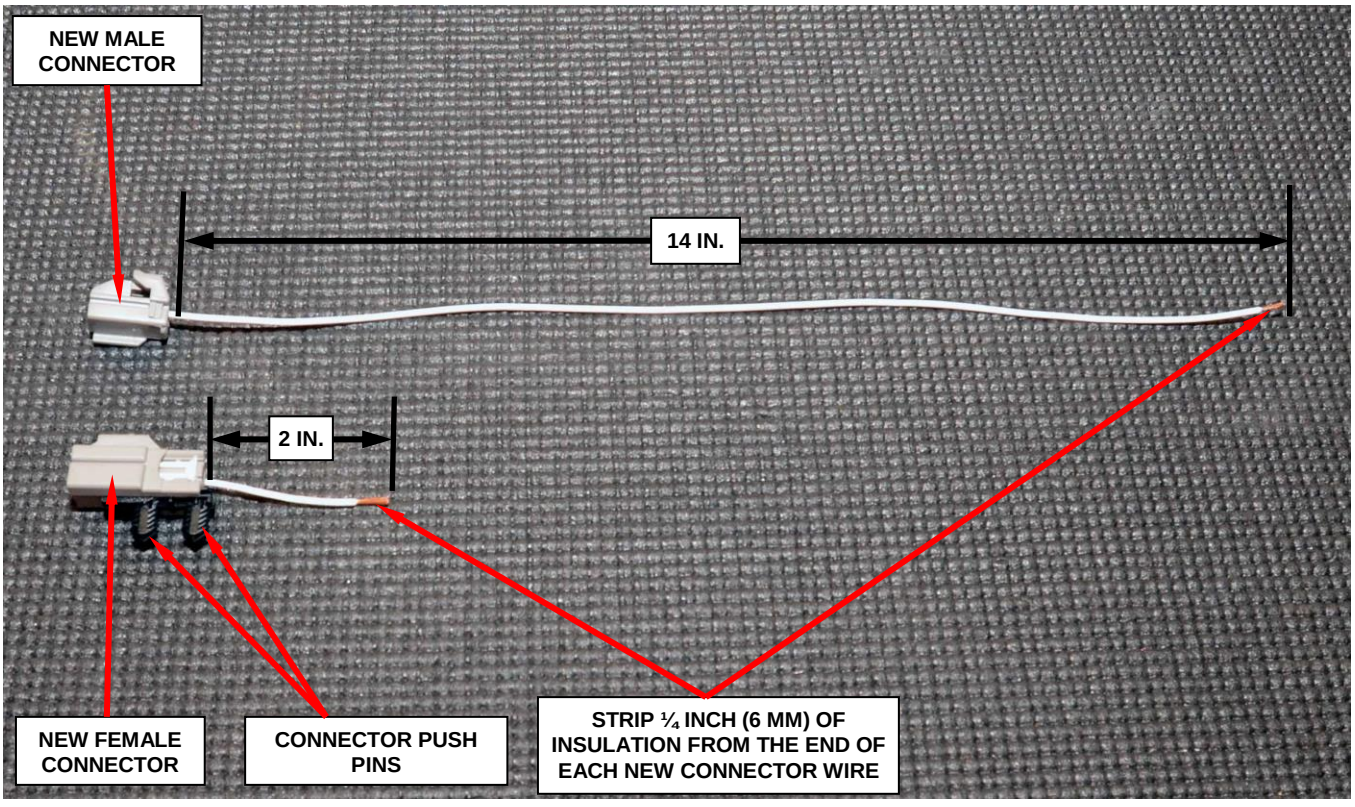

Figure 5 – Wiring Kit Wire Lengths

Service Procedure (Continued)

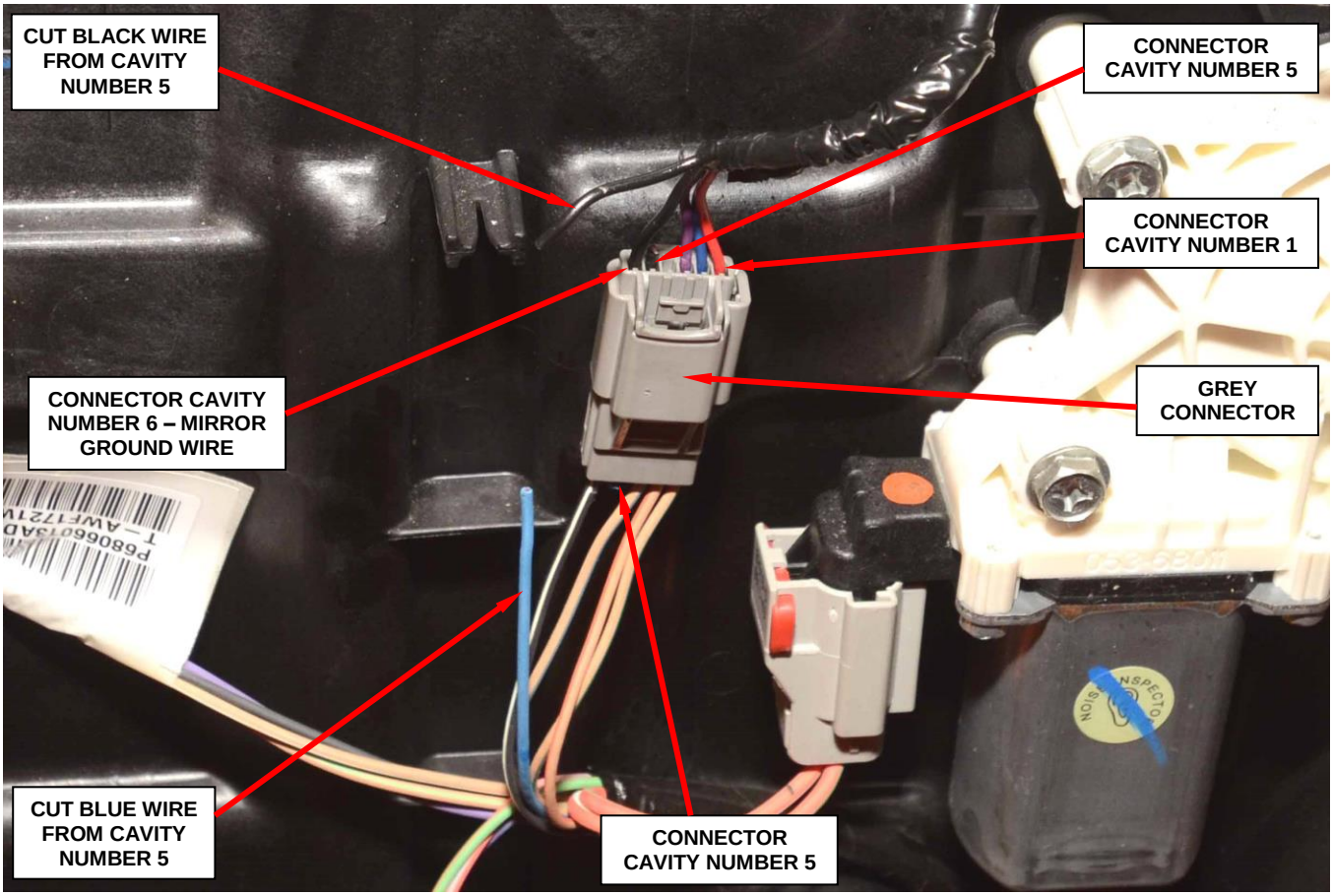

Figure 6 – Cut Power Wires at Both Sides of the Grey Connector

10. Cut the black wire on the mirror harness connector (cavity number 5) and the blue wire in the door harness wire connector (cavity number 5) (Figure 6).

    CAUTION: There are two black wires in the mirror harness connector. Be sure to cut the black wire in cavity number 5.

11. Strip ¼ inch (6 mm) of insulation from the end of the blue and black wire.

12. Install one piece of shrink tube on each of the wires.

Service Procedure (Continued)

13. Using crimp tool (special tool 10042) and the supplied brass crimps, crimp the short two inch long wire on the new female connector to the blue wire on the wiring harness (Figure 7).

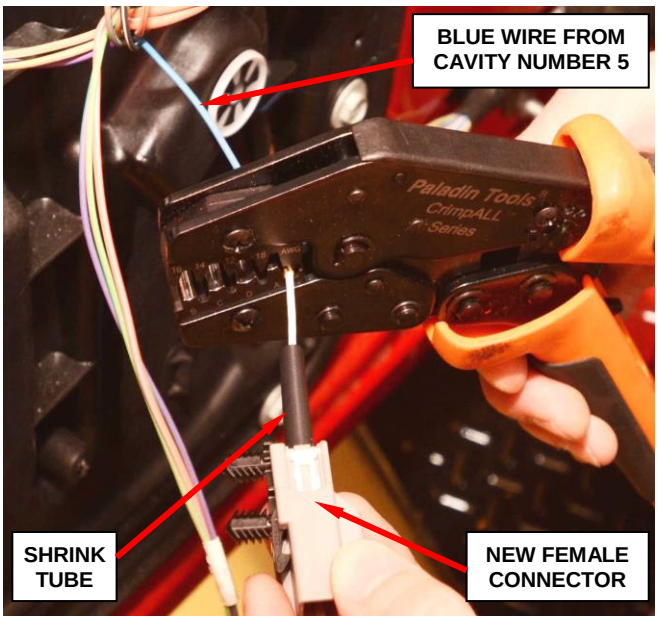

Figure 7 – Crimp Wires Together

14. Using crimp tool (special tool 10042) and the supplied brass crimps, crimp the 14 inch long wire on the new male connector to the black wire on the wiring harness.

15. Solder the brass crimps to ensure a perfect electrical connection (Figure 8).

16. Slide the shrink tube over the soldered brass crimp.

17. Using a heat gun, shrink the shrink tube until it fits tight on the wire and glue comes out of each end of the shrink tube.

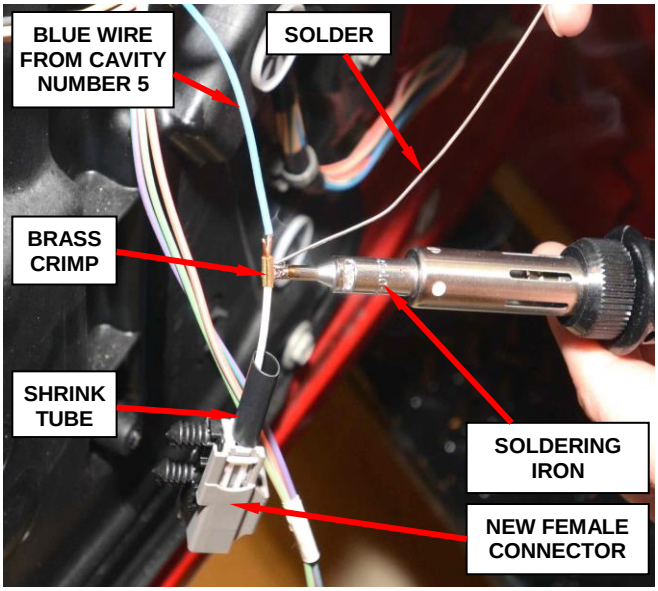

Figure 8 – Solder Brass Crimps

Service Procedure (Continued)

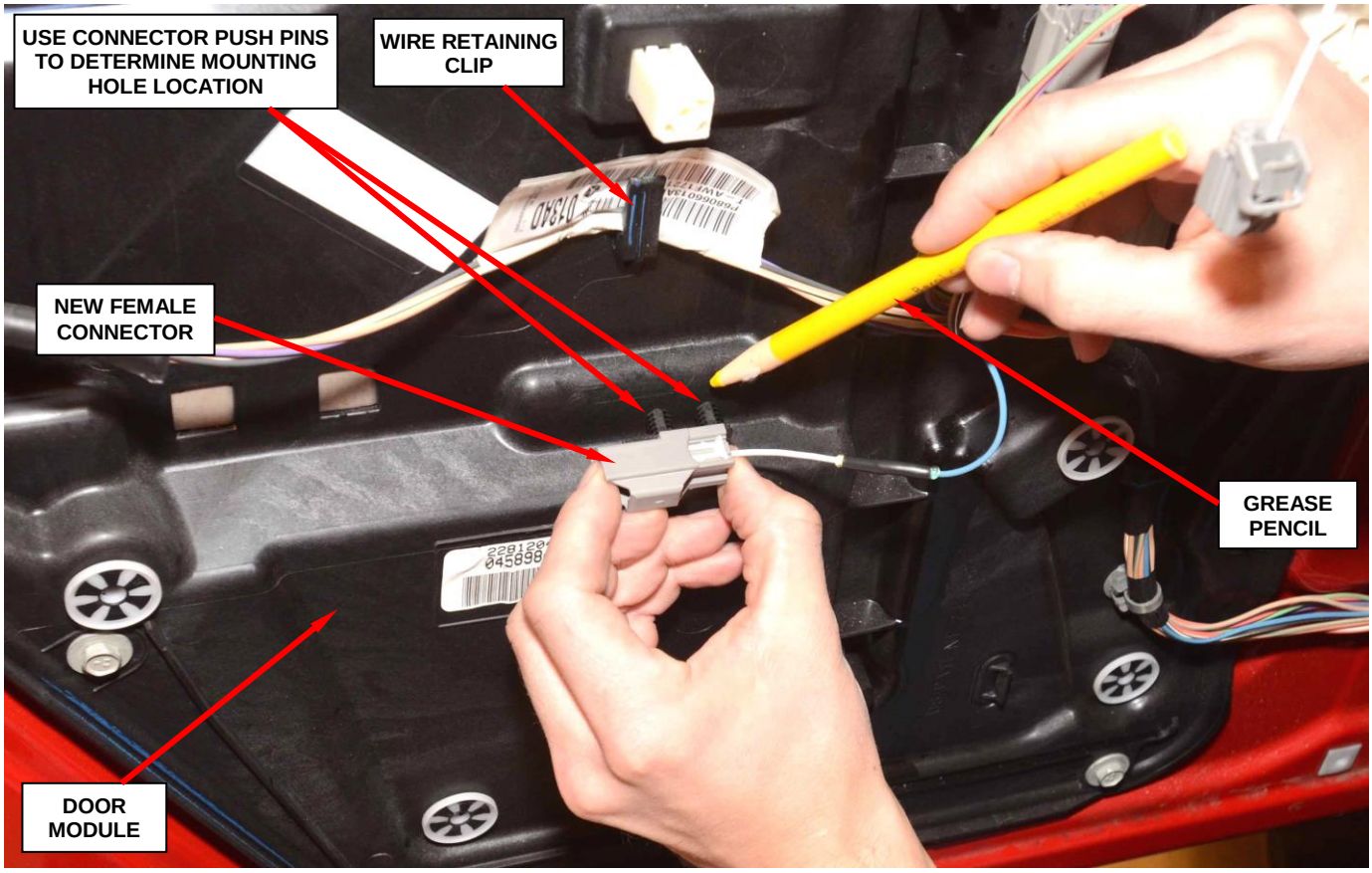

Figure 9 – Mark Connector Retaining Hole Location

18. Using a grease pencil or equivalent, mark the location of the mounting holes on the door module (Figure 9).

19. Center punch the hole locations on the door module.

20. Using a ¼ in. (6.35 mm) drill bit and drill, drill two holes in the door module (Figure 10).

    CAUTION: Be sure that the door glass is in the full up position before drilling the holes. Failure to do so could result in the drill bit striking the door glass and breakings or scratching the door glass.

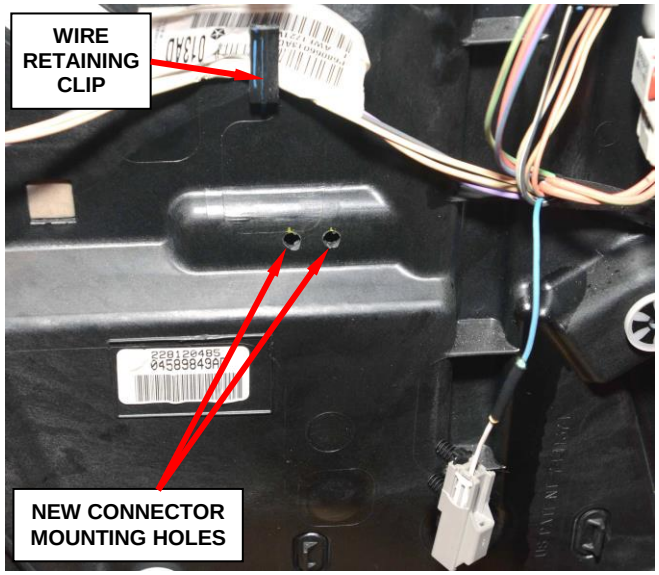

Figure 10 – Drill Connector Mounting Holes

Service Procedure (Continued)

21. Mount the female connector to the door module by pushing the connector push pins into the two holes made in Step 20 (Figure 11).

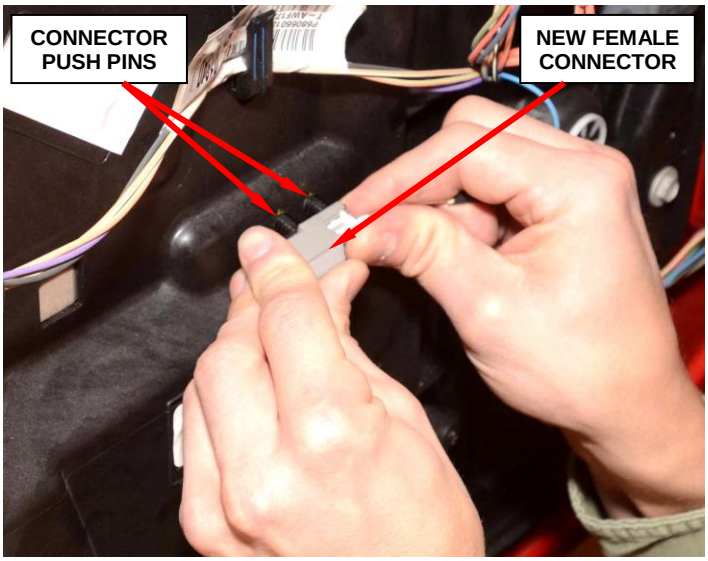

Figure 11 – Mount Connector to Door Module

22. Apply a bead of dielectric grease to the face of the male connector (Figure 12).

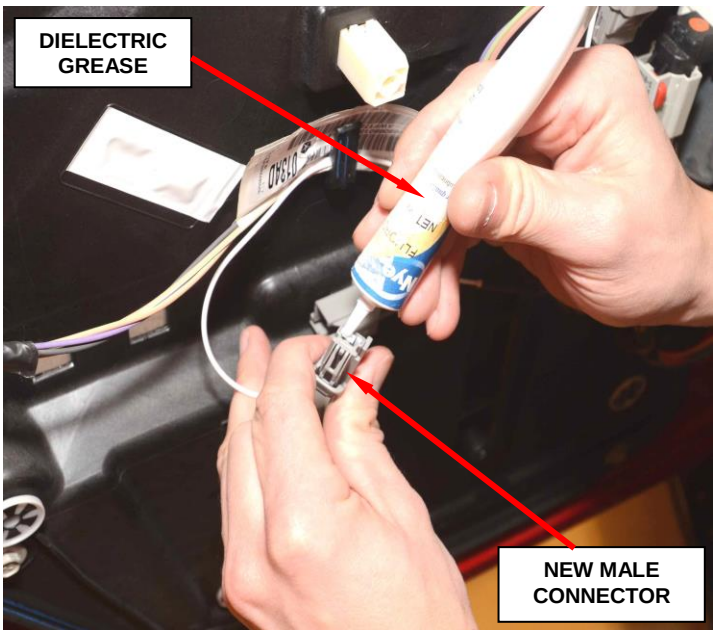

Figure 12 – Apply Grease to Connector

Service Procedure (Continued)

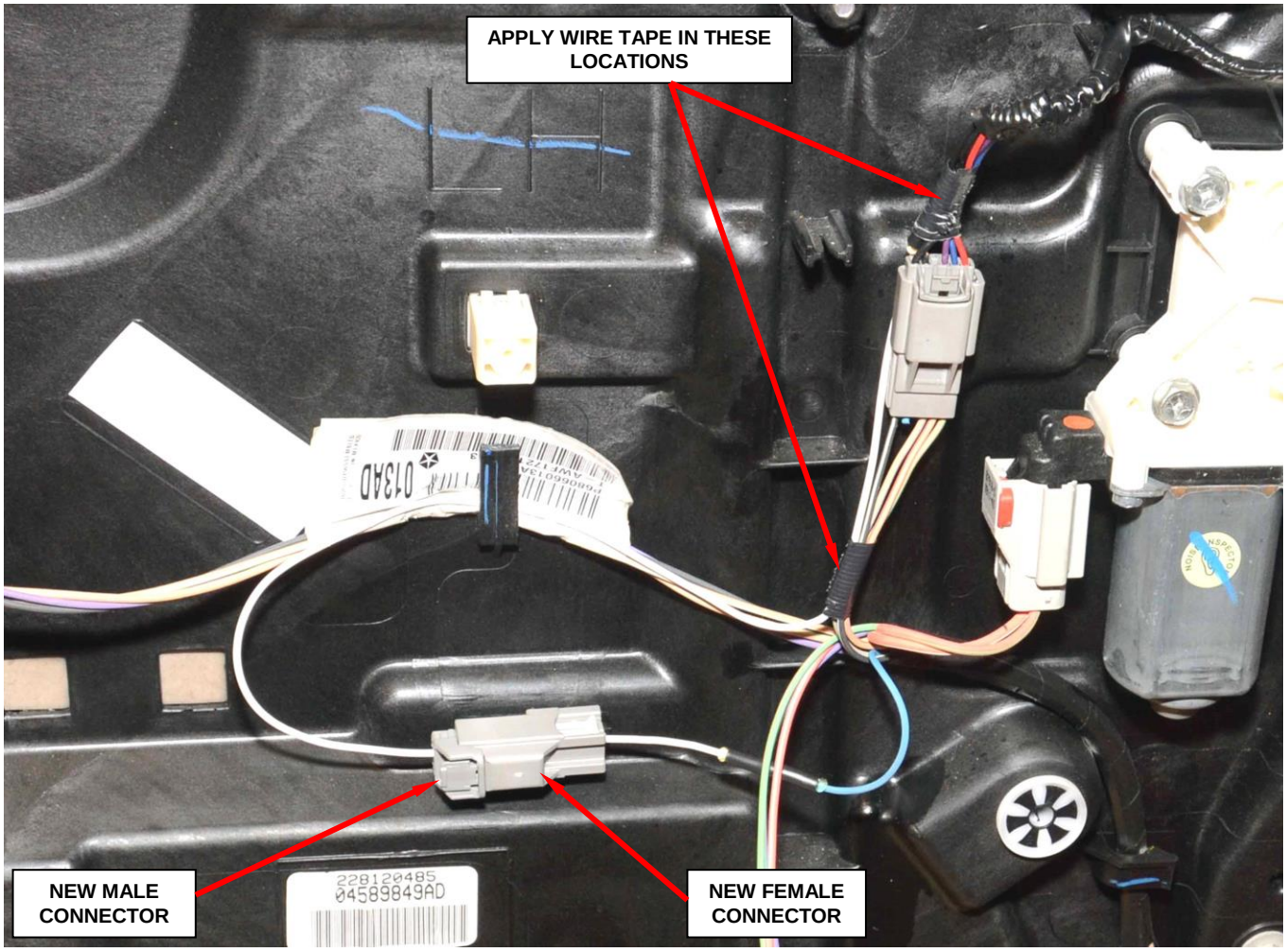

Figure 13 – Correct Wire Routing

23. Connect the female connector to the male connector (Figure 13).

24. Route and tape the wires as shown in Figure 13.

Service Procedure (Continued)

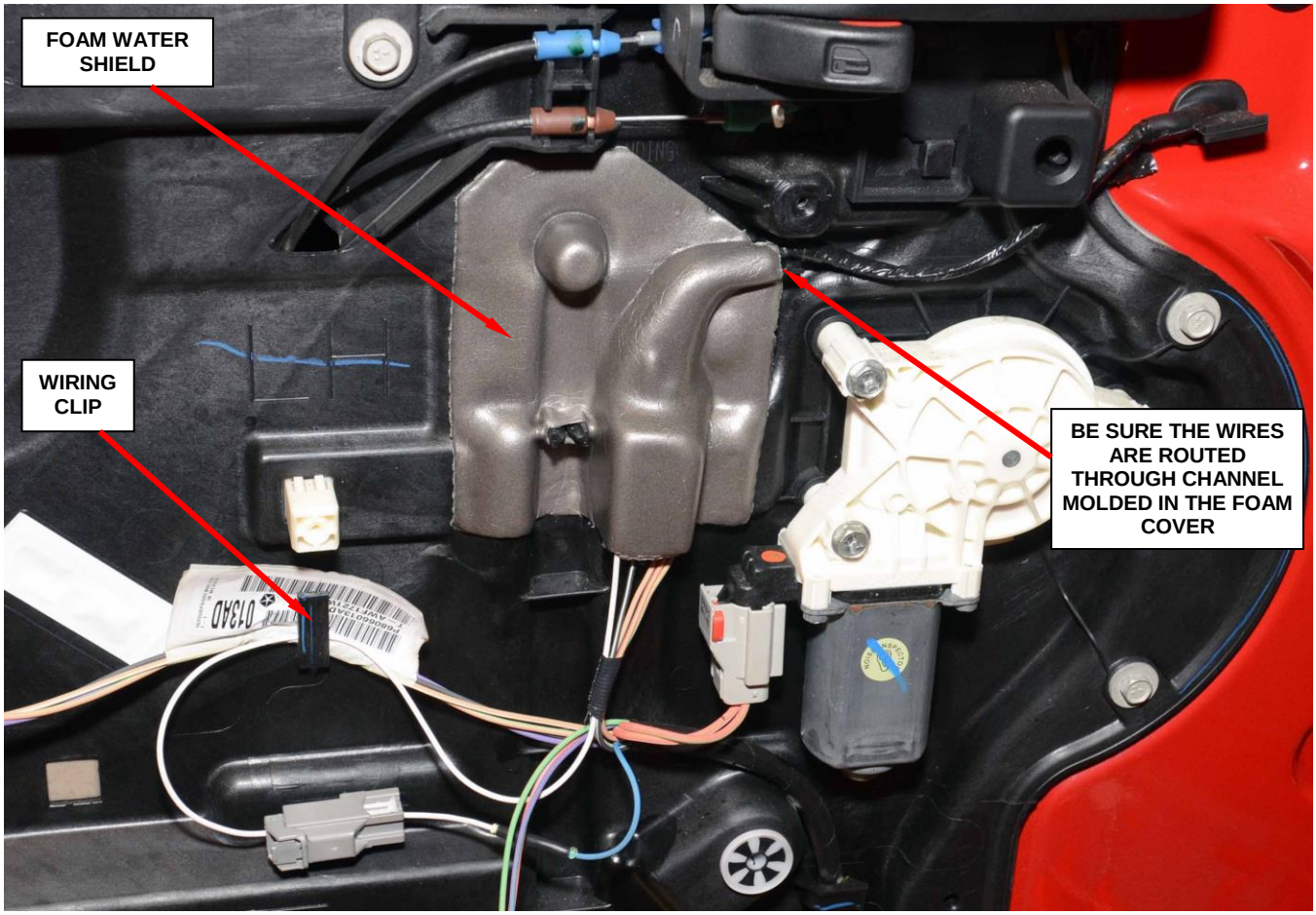

Figure 14 – Install Water Shield onto Door Module

25. Remove the release paper from the foam water shield and install the shield as shown in Figure 14.

26. Install the interior door trim panel.

27. Repeat Steps 2 through 26 to repair the mirror wiring connector on the other front door.

28. Connect the negative battery cable.

Service Procedure (Continued)

29. **For vehicles that had Service Bulletin 08-100-14 performed**:

    a. Open the hood.

    b. Open the Totally Integrated Power Module (TIPM) cover.

    c. Install the 10 amp red (M35) heated mirrors fuse into the TIPM.

    NOTE: Refer to the fuse location printed on the back side of the TIPM cover.

    d. Close the TIPM cover.

    e. Close the hood.

30. Verify all of the following door functions:

    - Mirror adjustment function (up, down, right, left)
    - Power lock function (lock/unlock)
    - Power window function (up/down)
    - Power mirror heat function (turn on rear defroster)

31. Using an appropriate cleaner, clean the front door panels and glass.

32. Return the vehicle to the customer.

Completion Reporting and Reimbursement

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by Chrysler to record recall service completions and provide dealer payments.

Use the following labor operation numbers and time allowances:

	Labor Operation Number	Time Allowance
Install new mirror electrical connectors and water shield	08-P6-11-82	1.2 hours

Related Operation

Eliminate one mirror connector and splice wires together	08-P6-11-50	0.2 hours
Eliminate two mirror connectors and splice wires together	08-P6-11-51	0.4 hours

Add the cost of the recall parts package plus applicable dealer allowance to your claim.

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

Dealer Notification

To view this notification on DealerCONNECT, select "Global Recall System" on the Service tab, then click on the description of this notification.

Owner Notification and Service Scheduling

All involved vehicle owners known to Chrysler are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

Enclosed with each owner letter is an Owner Notification postcard to allow owners to update our records if applicable.

Dealers are encouraged to consider alternative scheduling and servicing approaches for this recall. This repair does not require hoists or other full service facility special equipment and is a Chrysler Mobile Service approved repair.

Vehicle Lists, Global Recall System, VIP and Dealer Follow Up

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the **"Service"** tab and then click on **"Global Recall System."** Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

Dealers must perform this repair on all unsold vehicles *before* retail delivery. Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.

Additional Information

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations
FCA US LLC