

NUMBER: 08-071-16

GROUP: Electrical

DATE: July 06, 2016

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SUBJECT:

Water Intrusion In Dash To Front Fascia In-Line Connector

OVERVIEW:

This bulletin involves rework on the dash wire harness in the left front wheel well and possible front fascia wiring harness replacement due to water intrusion.

MODELS:

2017 (RU) Chrysler Pacifica

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA.

NOTE: This bulletin applies to vehicles built on or after February 02, 2016 (MDH 0202XX) and on or before April 12, 2016 (MDH 0412XX).

SYMPTOM/CONDITION:

The customer may describe the front fog lamps flicker or experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following Diagnostic Trouble Code (DTC):

- U11E9 - Lost Communication With AGS.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition listed above, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1 (AR)	05013781AA	Nyogel
1 (AR)	68065586AA	Abrasion Tape
1 (AR)	05018045AA	Electrical Contact Cleaner
1 (AR)	55364097AB	Mastic Patch
1 (AR)	68228585AE	Front Fascia Wiring Harness
1 (AR)	68228583AE	Front Fascia Wiring Harness
1 (AR)	68247060AE	Front Fascia Wiring Harness
1 (AR)	68045322AA	Pigtail Harness

REPAIR PROCEDURE:

1. Raise and support the vehicle. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: 04 - Vehicle Quick Reference/Hoisting/Standard Procedure.
2. Remove the left front tire and wheel assembly. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 22 - Tires and Wheels/Removal and Installation.
3. Remove the front seven fasteners (Fig. 1) for the wheel well liner and fold back **Do not bend** the liner to gain access to the dash and fascia wire harness.

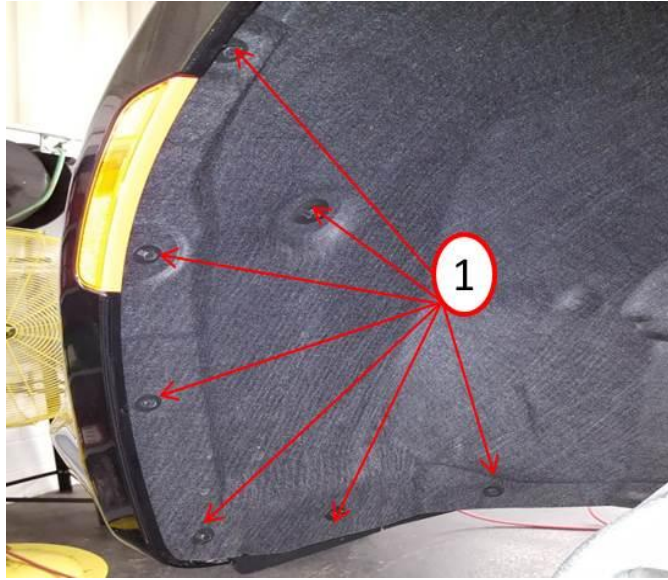


Fig. 1 Wheel Liner Fasteners

1 - Seven Fasteners

4. Locate the wire harness inline connector (Fig. 2). Disconnect Dash to fascia in-line connector and spray with compressed air to dry it out. If no signs of corrosion, spray with electrical contact cleaner(Fig. 3).

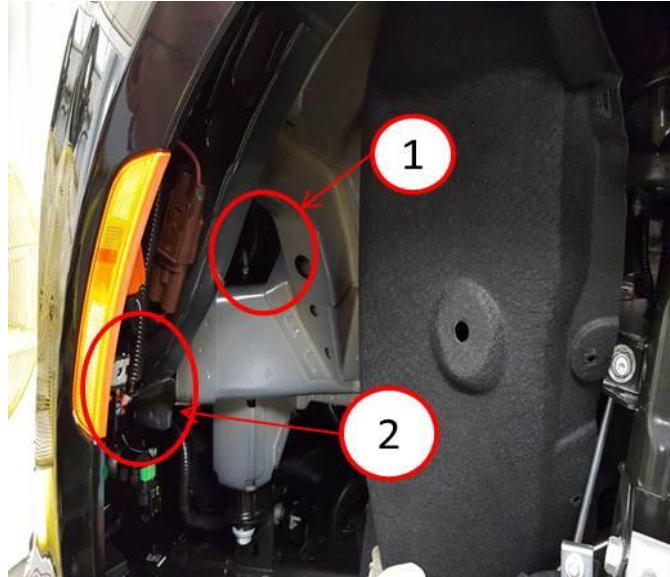


Fig. 2 Location Of Wiring

1 - Ground Location

2 - Dash To Fascia Inline Connector



Fig. 3 Electrical Connector

1 - Fog Lamp Connector / Front Fascia Wiring Connector/Fascia to Dash Inline Connector

NOTE: Ensure connectors plugs are not pushed out of connector when dried with compressed air. (Should be flush with back surface of connector, a light can be used on one side of the connector to view if all plugs are properly installed and seated) (Fig. 4).

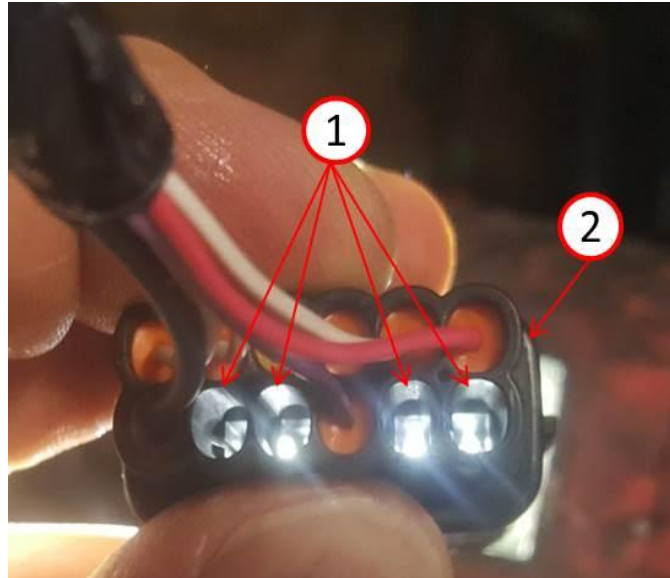


Fig. 4 Electrical Connector Plugs

1 - Missing Seal Plugs

2 - Electrical Connector

5. Locate and remove the ground nut (Fig. 5) to the body structure.



Fig. 5 Ground Nut

1 - Ground Nut

6. Remove the plastic hold down clip from the body (Fig. 6).



Fig. 6 Hold Down

1 - Hold Down

7. Carefully remove the tape from the conduit using care not to cut the wires and then pull back the conduit (Fig. 7).



Fig. 7 Removing Tape From Conduit

8. Measure 120 mm to 130 mm (4.5 in to 5 in) back from center of terminal and trim conduit to new length ([Fig. 8](#)). Pull the clip down to ground terminal. **DO NOT REMOVE CLIP**. Remove remaining tape over the conduit.



Fig. 8 Measure Conduit

9. Fan out wires to separate as much as possible (Fig. 9). Apply one piece of Butyl tape to back of wire making sure to press each wire into butyl separately (Fig. 10).



Fig. 9 Fan Out Wires



Fig. 10 Butyl Tape

10. Fold over butyl in half and press into wires firmly to spread between wires. Fold second half over wires and press firmly to spread butyl between wires ([Fig. 11](#)).



Fig. 11 Butyl Tape Fold Over

11. Fold remaining butyl over, remove remaining backing and press firmly into wires. Work butyl down toward the heat shrink on the terminal ([Fig. 12](#)).

NOTE: Intent is to seal gap between wires and prevent water from getting into/under heat shrink.



Fig. 12 Butyl Toward Heat Shrink

12. Start abrasion or vinyl tape over heat shrink and apply an overlapping wrap up branch to end 145 mm (6 in) from center of terminal (Fig. 13).

NOTE: Tape will go under new length of conduit 20 mm (1 in).



Fig. 13 Abrasion Tape

13. Apply spot tape over conduit making sure the **conduit end is open** to allow water to drain (Fig. 14).

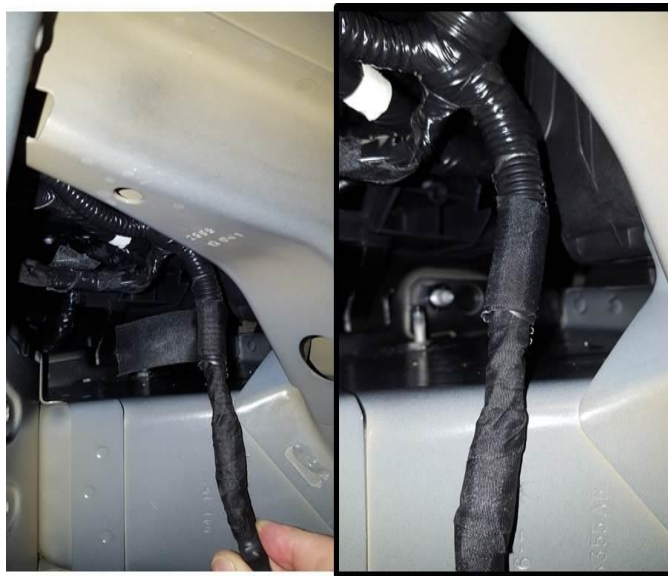


Fig. 14 Spot Tape For Drainage

14. Measure 105 mm (4 in) from center of terminal and position clip so that the tip of clip faces the same direction as the terminal wings. Tighten securely so clip cannot move and trim excess tie strap (Fig. 15).



Fig. 15 Harness Hold Down

15. Apply terminal to stud with wings of terminal facing down, secure clip to hole in rail (Fig. 16). Apply nut to stud and tighten to 8 N-m (70 in. lbs) (Fig. 5).

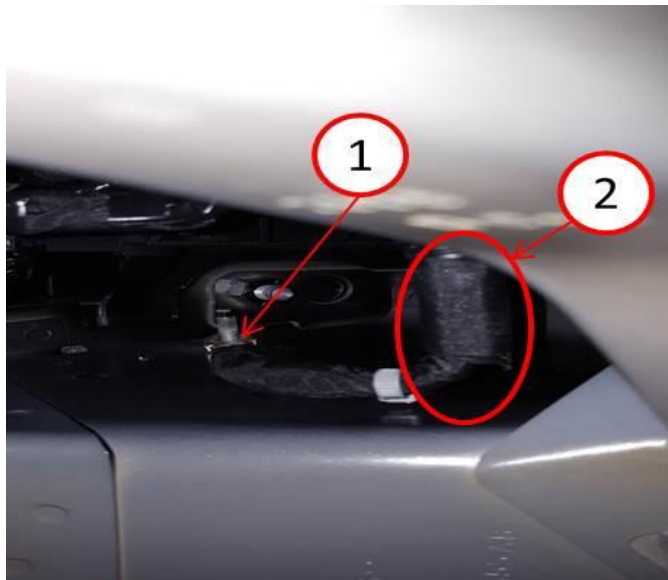


Fig. 16 Ground Nut Wings Up

- 1 - Ground Terminal Wings Up
2 - Open End Of Conduit To Allow For Water Drainage
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16. Inspect the fascia to dash inline connector for corrosion. Are any signs of corrosion found in the front fascia wiring connector?
 - a. YES>>> Replace the front fascia wiring harness. Proceed to [Step #17](#).
 - b. NO>>> Proceed to [Step #18](#).
17. Replace the front fascia wiring harness. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>13 - Frame and Bumpers/Bumpers/Fascia, Front/Removal and Installation.
18. Are any signs of corrosion found in the dash side of the wiring male connector?
 - a. YES>>> Proceed to [Step #19](#).
 - b. NO>>> Proceed to [Step #20](#).
19. Replace the male electrical connector from the dash to the front fascia wiring ([Fig. 17](#)). Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>29 - Non-DTC Diagnostics/Circuit Testing Procedures/Standard Procedure>Wire Splicing.
20. Add small amount of Nyogel 760G to each cavity of the female connector (fascia) and to base of male ground pin (Black wire from Dash) ([Fig. 17](#)).



Fig. 17 Male And Female Connectors

- 1 - Female Connector
 - 2 - Male Connector
 - 3 - Ground Cavity
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21. Reinstall connector and re-clip to fascia if connector is loose. Ensure Red CPA is re-locked ([Fig. 18](#)).



Fig. 18 Electrical Connector

1 - Fog Lamp Connector / Front Fascia Wiring Connector/Fascia to Dash Inline Connector

22. Install the front seven fasteners for the wheel well liner ([Fig. 19](#)).

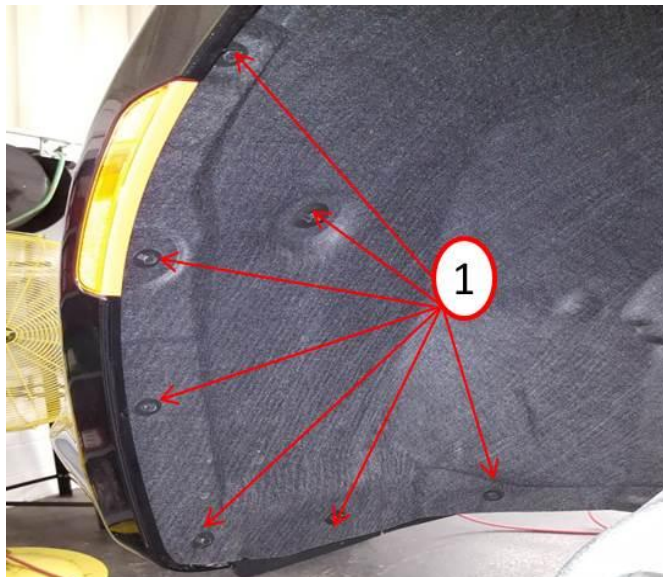


Fig. 19 Wheel Liner Fasteners

1 - 7 Fasteners

- 23. Install the left front tire and wheel assembly. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 22 - Tires and Wheels/Removal and Installation.
- 24. Lower the vehicle. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: 04 - Vehicle Quick Reference/Hoisting/Standard Procedure.
- 25. Clear all DTCs that may have been set in any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-94-LR-90	Repair Wiring Harness Ground Circuit (G906A) (0 - Introduction)	6 - Electrical and Body Systems	0.8 Hrs.
08-94-LR-91	Repair Wiring Harness Ground Circuit (G906A), and Replace Fog Lamp Wiring Harness (0 - Introduction)	6 - Electrical and Body Systems	1.5 Hrs.
08-94-LR-92	Repair Ground Circuit (G906A), Replace Fog Lamp Wiring Harness, and Inline-Dash/Front Fascia (1) Connector (0 - Introduction)	6 - Electrical and Body Systems	2.1 Hrs.

FAILURE CODE:

ZZ	Service Action
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