



NUMBER: 08-107-17

GROUP: 08 - Electrical

DATE: November 3, 2017

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THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 17-102. ALL APPLICABLE SOLD AND UN-SOLD RRT VIN's HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

SUBJECT:

Loose High Voltage Cable at the Power Inverter Module (PIM) Terminal

OVERVIEW:

This bulletin involves inspecting the High Voltage Interlock Loop (HVIL) connector and potentially installing a Power Inverter Module (PIM) kit.

MODELS:

2017 (RU) Chrysler Pacifica (PHEV)

NOTE: This bulletin applies to vehicles built on or after February 22, 2017 (MDH 0222XX) and on or before July 27, 2017 (MDH 0727XX).

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

SYMPTOM/CONDITION:

The customer may describe a loss of vehicle propulsion or a Malfunction Indicator Light (MIL) illuminated with the following Diagnostic Trouble Codes (DTCs):

- P0C77-00 - HV Battery System Precharge Time Too Short.
- P0C76-00 - Hybrid EV System Discharge Time Too Long - PIM.
- P0AA4-00 - Hybrid Battery Negative Contactor Circuit Stuck Closed.
- P0A79-00 - Drive Motor B Inverter Performance.
- P1AEF-00 - MCPB High Voltage Battery System Voltage High.
- P0AFA-00 - Hybrid-EV Battery System Voltage Low.
- P0EED-00 - Hybrid-EV Battery System Discharge Circuit Performance.

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. **This RRT only applies to vehicles on the RRT VIN list.**

1. Power down the HEV system. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>08 - Electrical/8F - Engine Systems/Battery System/Disconnect, Service High Voltage/Removal and Installation.

NOTE: When submitting a warranty claim, a digital image of the connector must be printed to PDF and attach to the warranty claim.

2. Remove the HVIL cover panel and check the terminal bolts for signs of arcing from the high voltage current, **take a digital image, see step Step 3** after digital image is taken, ensure they are torqued to 25 N·m. (212 in.lbs) (Fig. 1) .
3. Before the HVIL connection is disturbed, digital image in a manner that the high voltage bolts are captured (I.E. from a 45° angle so that if the bolts are loose, any gaps will be seen), while the PIM is in the vehicle (Fig. 1) .
4. Take picture for digital imaging after removal of the PIM HVIL cover of the terminal bolt.
 - a. Record any active/stored DTCs.
 - b. Record the torque value of both PIM terminal bolts. If under 25 N·m. (212 in.lbs), tighten to specifications.
 - c. Record vehicle mileage.

5. Was any trace of arcing found on the terminals?

- YES>>> Proceed to [Step 1](#) of the repair procedure.
- NO>>> Verify correct torque on the bolt. Tighten to 25 N·m. (212 in.lbs). This bulletin has been completed. Use inspect LOP (08-90-16-90) to close the active RRT.



Fig. 1
HVIL Connector

- 1 - Terminal Arcing and Loose Bolt
 - 2 - 45° Angle for Digital Imaging
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PARTS REQUIRED:

Qty.	Part No.	Description
1	68381781AC	Power Inverter Module Kit
1	68233554AE	High Voltage Cable
2	06107056AA	Bolts
(AR)	68163848AB	Coolant

REPAIR PROCEDURE:

1. Replace the PIM. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>08 - Electrical/8E - Electronic Control Modules/Module, Power Inverter, High Voltage/Removal and Installation.
2. Replace the high voltage cable to the PIM. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>08 - Electrical/8F - Engine Systems/ Battery System/Cables, Battery High Voltage/Removal and Installation.
3. Install the new bolts. Tighten to 25 N·m. (212 in.lbs).

POLICY:

Reimbursable within the provisions of the warranty.

NOTE: When submitting a warranty claim, a digital image of the connector must be printed to PDF and attach to the warranty claim.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-90-16-90	Inspect for Signs of Thermal Damage and Verify Torque on High Voltage Cables (3 - Highly-Skilled)	6 - Electrical and Body Systems	0.6 Hrs.
08-90-16-91	Inspect for Signs of Thermal Damage, Replace High Voltage Cables, and Power Inverter Module (PIM) (3 - Highly-Skilled)	6 - Electrical and Body Systems	5.1 Hrs.

FAILURE CODE:

ZZ	Service Action
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