**High Voltage Cable Ground Checks**

1. Appropriately decommission High Voltage from vehicle following the recommended ESS disconnect procedure per the OEM guidelines and procedures.
2. Remove P26 connector at power steering pump motor.
3. Check resistance from metal housing of P26 connector relative to chassis ground.
4. Repeat steps 2-3 for P57 (air compressor HV AC connector, same connector type as above) and P37 (HV DC chiller cable)

The arrow indicates where to measure on the respective connectors. For P26 and P57, see the first image below, for P37, see the second image below

A picture containing diagram, line, sketch, technical drawing

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**A picture containing watch, person, circle, compass

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**Chiller cable rework**

**Required Material:**

* Conductive tape with conductive adhesive
* Scissors
* Contact extraction tooling

**Note:** once the PDU connection has been de-pinned (with Chiller connection still mated), perform a continuity check from the cable braid to vehicle chassis.  If there is no continuity, the cable must be replaced.  If the outer ferrules are not present the cable must be replaced.

**Note:**  This process is valid for all Aux connections at the PDU using the HVSLC connector

**Procedure:**

1. Disconnect Chiller connection at the PDU (Aux 7P)
2. Unlock the end cap and slide it back along the cable
3. Slide the cable seal back along the cable
4. Unseat both cable contacts

* A picture containing toy, tool, indoor, hammer

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1. Slide Ferrule toward the contact as far as it will go. If the Ferrules are not present, the cable MUST be replaced
2. Remove electrical tape that prevents contact between the ferrule and the braided shielding.
3. Straighten/elongate as much of the braiding material as possible

* A picture containing tool, household hardware, indoor, silver

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1. Cut a strip of the conductive tape measuring 5mm wide by 60 mm long
2. Wrap the cut strip of conductive tape around the inner conductor AND the straightened wire braid (5 to 7 total wraps).

* A picture containing text, ruler, measuring stick, tool

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  Description automatically generated

1. Push the Ferrule back over the tape & the outer insulation of the cable

* **NOTE:** perform continuity check with respect to chassis before continuing.  If there is no continuity, repeat steps 7 through 10.  Additional wraps of the conductive tape may be required.  The goal is to make a circuit between the braided wire and the inner surface of the ferrule.
* A picture containing hand tool, household hardware, hammer, tool

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1. Repeat steps 5 through 10 for the second cable.
2. Reseat contacts back into the connector housing

* **NOTE:** the Keying of the end cap ensure the reassembly is Poke Yoke

1. Perform continuity check from the assembled connector’s ground contact, located UNDER the crimped contact.

* A picture containing tool, plastic, cable, toy

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Required Tooling:

* 2x Crescent Wrench
* Yellow Deutsch Extractor
* Aluminum/Copper table

A picture containing tool, cable, floor, indoor

Description automatically generated

A picture containing tool, cable, orange, floor

Description automatically generated

A close-up of a pipe

Description automatically generated with low confidence

A picture containing office supplies, pen, office instrument, indoor

Description automatically generated

A picture containing device, caliper, text, scale

Description automatically generated

A picture containing text, indoor

Description automatically generated

A hand holding a digital caliper

Description automatically generated with low confidence

This is an important measurement.  Ensure **no less** then 9 mm gap between the back of the contact and any added Conductive tape.  Failure to follow could result in arcing, Ground Fault, or other thermal event.[Text Wrapping Break]

A picture containing cable, tool, light, indoor

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