

SAFETY RECALL

NORTH AMERICA

Electric Hydraulic Power Steering Pump

Reference: 21D / NHTSA 26V-363



FCA US LLC



Remedy available for

2021-2025 (JL) Jeep Wrangler

2021-2025 (JT) Jeep Gladiator

Template Version 1.0

Revision

1

Edition

July 2026

Detail

Parts Information updated. Repair LOPs added.

SYMPTOM DESCRIPTION

The Electric Hydraulic Power Steering Pump (EHPSP) on about 1,206,961 of the above vehicles may have an electrical connection susceptible to high resistance. Some customers may experience a loss of power steering assist or a "Service Power Steering" Diagnostic Trouble Code (DTC). In some circumstances, high resistance electrical activity may take place in the area of the EHPSP connection causing overheating of combustible materials. Overheating of combustible materials in the vehicle or surrounding area may potentially lead to a fire. A fire can result in increased risk of occupant injury and injury to persons outside the vehicle.

Out of an abundance of caution, FCA US is advising owners of these vehicles to park away from structures or other vehicles until the remedy is obtained.

SCOPE

NOTE: Some vehicles above may have been identified as not involved in this recall and therefore have been excluded from this recall.

IMPORTANT:

- Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Violation of this requirement by a dealer could result in a civil penalty of up to \$27,874 per vehicle.
- 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.

REPAIR TO BE PERFORMED

Inspect and replace wiring and the electric hydraulic power steering pump as necessary.

ALTERNATE TRANSPORTATION

Dealers should proactively minimize customer inconvenience while the recall repair is being performed. Reference the Goodwill Alternate Transportation Guidelines warranty bulletin link within Recall Central on DealerCONNECT for options to support the customer while their vehicle is in service.

COMPLETION REPORTING / REIMBURSEMENT

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

Use the following labor operation numbers and time allowances:

Labor Description	Number	Hrs
Inspect Electric Hydraulic Power Steering Pump Electrical Harness Connector	19-21-D1-81	0.3
Inspect, Modify and Install Electrical Harness and Replace Electric Hydraulic Power Steering Pump - 3.6L Only	19-21-D1-82	1.3
Inspect, Modify and Install Electrical Harness and Replace Electric Hydraulic Power Steering Pump - 2.0L ICE and 3.0L Diesel Only	19-21-D1-83	1.4
Inspect, Modify and Install Electrical Harness and Replace Electric	19-21-D1-84	1.9

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Labor Description	Number	Hrs
Hydraulic Power Steering Pump - 2.0L PHEV Only		
Inspect, Modify and Install Electrical Harness and Replace Electric Hydraulic Power Steering Pump - 6.4L Only	19-21-D1-85	1.2

Labor Description	Number	Allowance
Floor Plan Reimbursement	95-95-95-97	Calculate See Below

Floor Plan Reimbursement represents a new vehicle's average daily allowance (see table below) multiplied by the number of days the vehicle was in dealer inventory and not available for sale. This reimbursement is limited to the number of days from the date of the stop sale to the date that the remedy was made available. Note: If the vehicle was received by your dealership (KZX date) AFTER the stop sale date, you will use the KZX date instead of the stop sale date. For this Recall, the stop sale was initiated on **06/11/2026** and the remedy was made available on **07/09/2026**, therefore, the number of days cannot exceed **28** days.

Vehicle	Average Daily Allowance
2021-2025 (JL) Jeep Wrangler	██████
2021-2025 (JT) Jeep Gladiator	██████

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

In addition, enter "MATL" in the Part Number section of your claim with the applicable Material Allowance where appropriate.

NOTE: When multiple campaign repairs are performed during the same visit, general operations will be considered for claim overlap. Upon claim submission, if overlap is identified by the warranty system, an LG4 message code will be shown, and an adjustment is required to the labor time before the claim will be accepted. Reference Warranty Bulletin D-26-12 for further details on claim processing instructions.

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

For Mobile Service Reimbursement, dealer to include standard dealer entry and mark-up for parts, standard dealer entry and labor rate for service, as well as the special services code for mobile allowance. The special services LOP will only be paid once per VIN and may NOT be used in coordination with any Alternate Transportation claims.

For additional details, reference the Mobile Service Warranty Bulletin - for convenience, a copy has been linked within Recall Central on DealerCONNECT.

PARTS INFORMATION

No parts are required to perform the inspection.

NOTE: **EHPS Pump and Harness** can only be ordered through the STAR Center.

Part No.	Qty.	Part Name
CSZS21D1AA		EHPS (Pump) – JL 3.0L Diesel
CSZS21D2AA		EHPS (Pump) – JT 3.0L Diesel
CSZS21D3AA		EHPS (Pump) – JL 2.0L PHEV
CSZS21D4AA		EHPS (Pump) – JL 6.4L
CSZS21D5AA		EHPS (Pump) – JL LHD 2.0L non-PHEV
CSZS21D6AA		EHPS (Pump) – JL 3.6L
CSZS21D7AA		EHPS (Pump) – JT 3.6L & JL RHD 2.0L non-PHEV
CSZS21D8AA		EHPS (Pump) – JL/JT RHD 3.6L

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Part No.	Qty.	Part Name
CSZS21D9AA		
		Harness – ALL (exc. 6.4L and 3.0L Diesel)
CSZS21DAAA		
		Harness – 6.4L & 3.0L Diesel Only)

Part No.	Qty.	Part Name
06036529AA		Rivet, Metal – Fender Liner (as needed)
06506007AA		Rivet (M6.3X25.0) – Fender Liner (as needed)

PARTS RETURN

Do not scrap the power steering pump or cut wire harness ends. These parts may be requested back for further analysis at the Quality Engineering Center (QEC) for review.

Please hold part until claim has been paid and part has been dispositioned.

If part is requested and not returned, dealer may be subject to charge back.

SPECIAL TOOLS

Tools Required to Perform Inspection Procedure.

Number	Description
NPN	wiTECH MicroPod II / MDP
NPN	Laptop Computer
NPN	wiTECH Software

Tools Required to Perform Repair Procedure.

Number	Description
9688A	Cap Adapter Power Steering Pump

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 / SERVICE SCHEDULING

All involved vehicle owners known to FCA 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.

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
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Use the following links to help locate the appropriate section:

- Plugin Hybrid Electric Vehicle (PHEV)
- Internal Combustion Engine (ICE)
- Left Hand Drive (LHD)
- Right Hand Drive (RHD)

LINKS:

- [Section A: 2.0L PHEV, 2.0L ICE, 2.2L Diesel, 3.6L ICE \(LHD\)](#)
- [Section B: 3.0L Diesel, 6.4L ICE \(LHD\)](#)
- [Section C: 2.0L ICE 3.6L ICE \(RHD\)](#)

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SERVICE PROCEDURE

- A. JL with 2.0L Engine Plug-In Hybrid Electric Vehicle (PHEV) - Left Hand Drive (LHD)
JL with 2.0L Internal Combustion Engine (ICE) - Left Hand Drive (LHD)
JL & JT with 2.2L Diesel Engine - Left Hand Drive (LHD)
JL & JT with 3.6L Internal Combustion Engine (ICE) - Left Hand Drive (LHD)

WARNING: Part of this recall population contains hybrid vehicles. Follow all safety precautions published in Service Library for the specific vehicle you are working on.

NOTE: The wiTECH scan tool must be used to perform this Recall. The wiTECH software is required to be at the latest release level before performing this procedure.

NOTE: The vehicle **MUST NOT** be connected to a high voltage battery charger during this process.

1. Connect the wiTECH MDP to the vehicle data link connector.
2. Place the ignition in the "RUN" position.
3. Open the wiTECH 2.0 website.
4. Enter your "User id" and "Password" and your "Dealer Code", then select "Sign In" at the bottom of the screen. Click "Accept".
5. From the "Vehicle Selection" screen, select the vehicle to be updated.
6. From the "Action Items" screen, select the "Topology" tab.
7. Click "View DTCs" and inspect for Diagnostic Trouble Code (DTC) U0131 - lost communication with power steering control module "A".
 - **YES - DTC is present.** Power steering pump replacement and wire harness overlay installation will be required. No further inspection required. Continue with the following steps while skipping those related to inspection.
 - **NO - DTC is NOT present.** Continue performing the following inspection process.
8. Place the ignition in the "OFF" position and then remove the wiTECH micro pod II / MDP device from the vehicle.
9. Remove the "clean air hose" or "air cleaner resonator" depending on engine. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **09 – Engine / Air Intake System / HOSE, Clean Air / Removal** or **09 - Engine, 3.6L / Air Intake System / RESONATOR, Air Cleaner / Removal**.
 - **NOTE:** It is not necessary to disconnect the electrical wire connectors, the hose/resonator may be positioned aside with wires still attached.
10. Remove the air cleaner body. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **09 – Engine / Air Intake System / BODY, Air Cleaner / Removal**.

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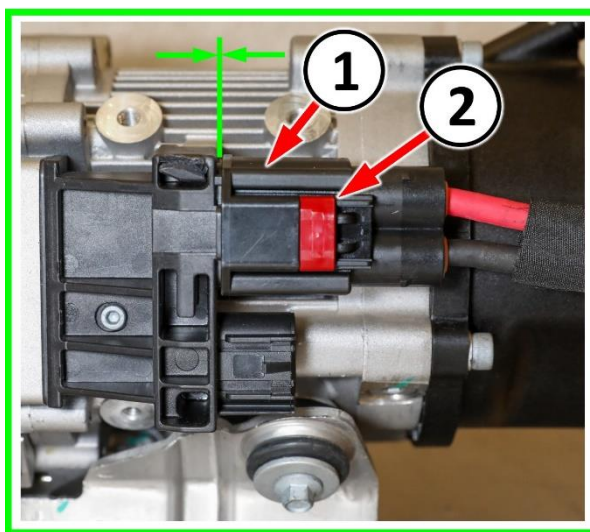


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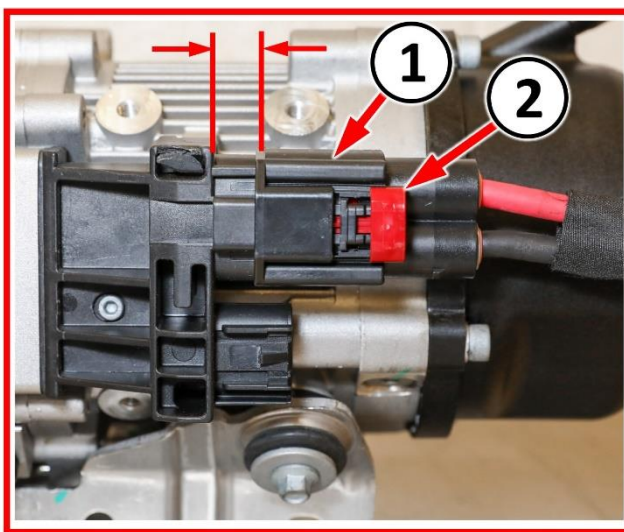
11. **DTC U0131 NOT present:** Perform the following electrical connector inspection steps.

- a. Visually verify Electric Hydraulic Power Steering (EHPS) connector is fully mated to the pump interface with CPA fully engaged on the connector latch. If electrical connector is not fully mated or CPA is not engaged, take photos to attach to repair claim (Figure A1).



Electrical Connector and CPA

Fully Engaged, No Gap



Electrical Connector and/or CPA

Not Fully Engaged, Gap Observed

Figure A1 – EHPS Electrical Connector and Connector Position Assurance (CPA)

1 - EHPS Electrical Connector

2 - Connector Position Assurance (CPA)

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- b. Grasp the EHPS connector ONLY (not the wires) and pull to determine if it is securely connected to the EHPS pump. If connector releases, take photos to attach to repair claim. If connector does not detach, push on connector to ensure it is fully seated (Figure A2).

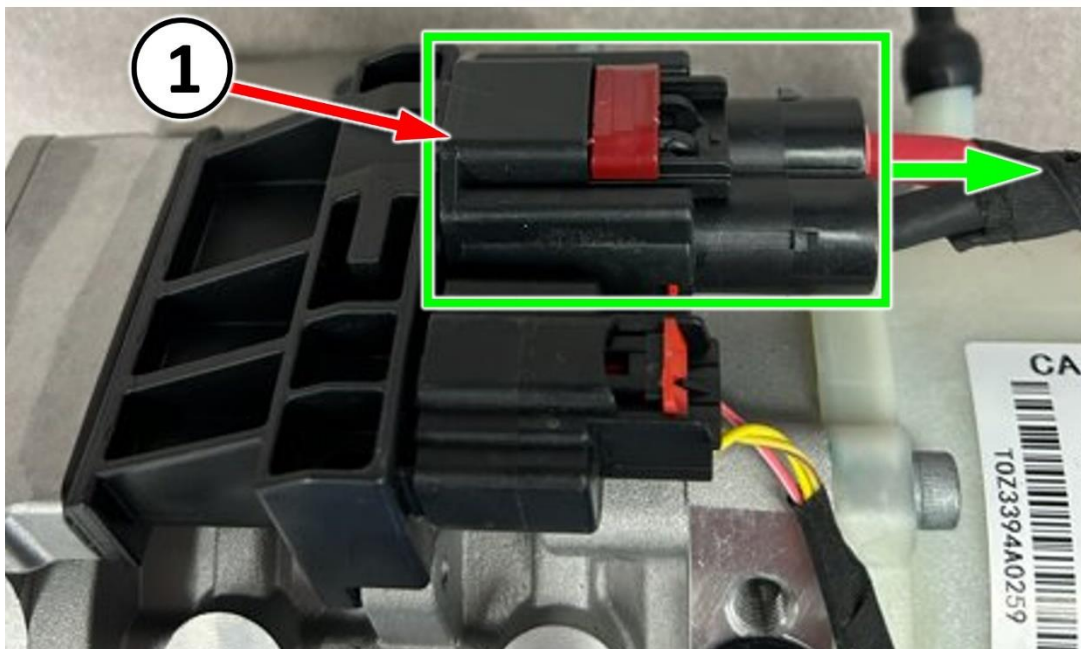


Figure A2 – EHPS Electrical Connector Pull Test

1 - EHPS Electrical Connector

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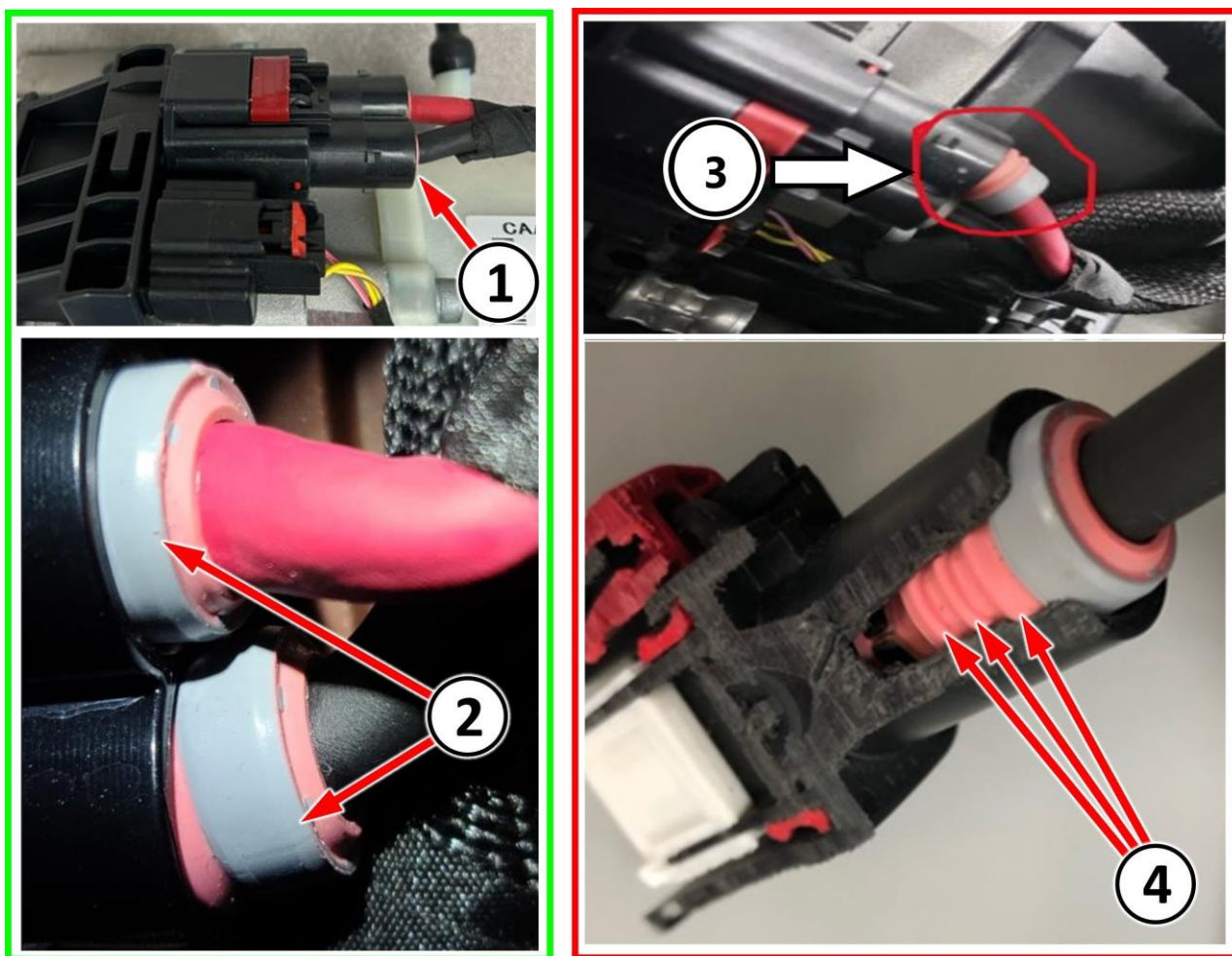
Electric Hydraulic Power Steering Pump



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- c. Inspect the wire harness for any wires that are not fully inserted into the connector as shown in the following images. If the sealing ribs are exposed, take photos to attach to repair claim (Figure A3).
- d. Visually inspect for any visible damage to harness bundle and EHPS connector. If damage is observed, take photos to attach to repair claim.



Correctly Inserted Terminals - OK

Ribs Exposed - Not OK Condition

Figure A3 – Power Steering Pump Harness Connector Wires

- 1 - Electrical Wires Fully Inserted in Terminal - OK
- 2 - Gray Portion of Seal Protruding Beyond Connector Body – OK
- 3 – Pink Rib(s) Protruding Beyond Connector Body – Not OK
- 4 – Example of Pink Ribs

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12. Were any issues found with EHPS connector or harness connections to the pump or DTC U0131 present?

- **YES:** Power steering pump replacement and wire harness overlay installation will be required. Continue with the service procedure.
- **NO:** If no issues are found with EHPS electrical connection, ensure wire harness is routed and secured properly (Figure A4). Reinstall the air cleaner body and clean air hose or air cleaner resonator depending on engine.
 - **DealerCONNECT/ Service Library under: Service Info> 09 – Engine / Air Intake System / BODY, Air Cleaner / Installation.**
 - **DealerCONNECT/ Service Library under: Service Info> 09 – Engine / Air Intake System / HOSE, Clean Air / Installation or 09 - Engine, 3.6L / Air Intake System / RESONATOR, Air Cleaner / Installation.**
 - Inspection is complete. Return the vehicle to the customer.

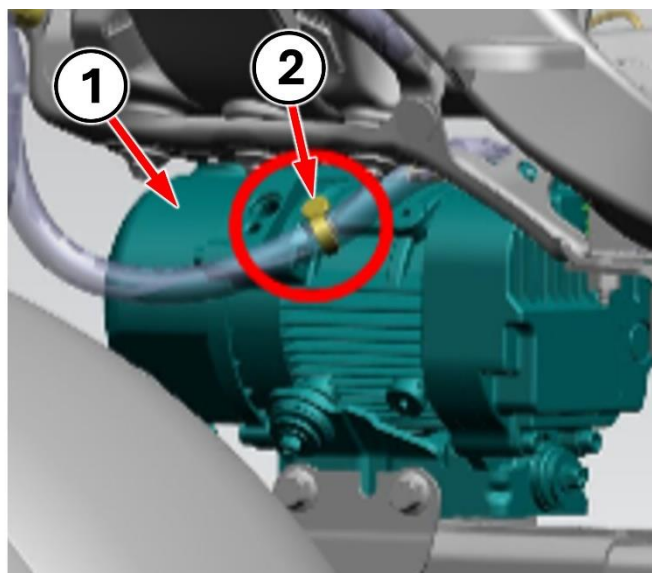
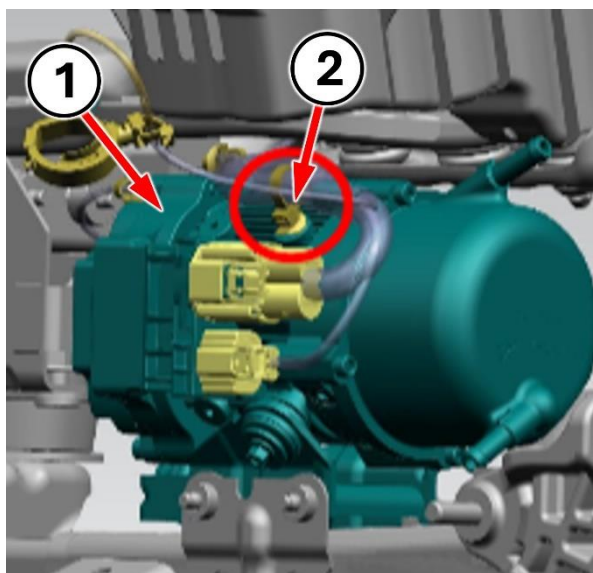


Figure A4 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - Power Steering Pump
2 – Wire Harness Retainers

13. Power down the battery system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info>

- **PHEV: 12 - Electrified Powertrain System / High Voltage Battery / Standard Procedure.**
- **ICE: 08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.**

14. Raise and support the vehicle. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **04 - Vehicle Quick Reference / Hoisting / Standard Procedure.**

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15. Remove the right front wheelhouse splash shield. **Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 23 – Body / Exterior / SHIELD, Splash / Removal and Installation.**

16. Disengage the air duct from the air cleaner bracket (Figure A5).

17. Disengage any wire harness routing retainers from the bracket as applicable depending on engine configuration (Figure A5).

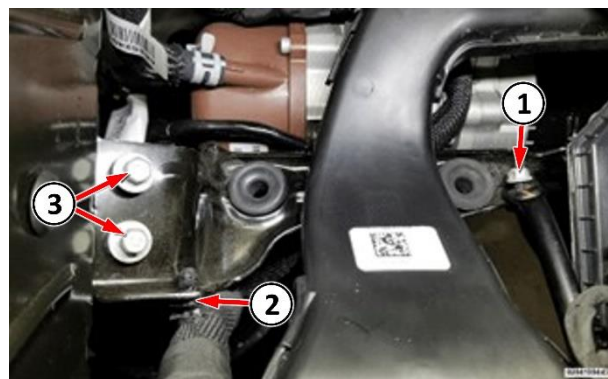


Figure A5 – Electrical Connectors

- 1 - Bracket Nut
- 2 - Wire Harness Routing Clip
- 3 - Bracket Bolts

18. Remove the bracket nut (Figure A5).

19. Remove the bracket bolts (Figure A5).

20. Remove the bracket bolt (Figure A6).

21. remove the air cleaner bracket (Figure A6).

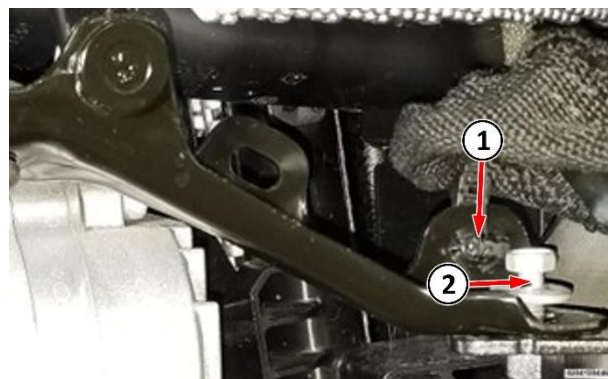


Figure A6 – Electrical Connectors

- 1 - Wire Harness Routing Clip
- 2 - Bracket Bolt

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22. Disconnect the electrical connectors from the EHPS pump if not already done so, by sliding red CPA back and de-pressing connector latch (Figure A7).

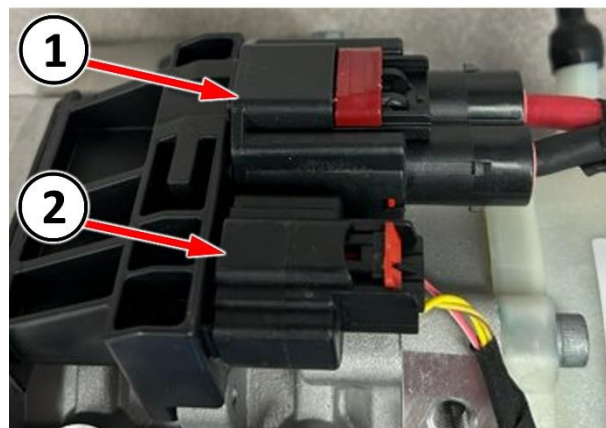


Figure A7 – Electrical Connectors

23. Remove fir tree clips from the EHPS pump/pump bracket (Figure A8).

1 - 2way connector D2704A

2 – 3way connector D2704B

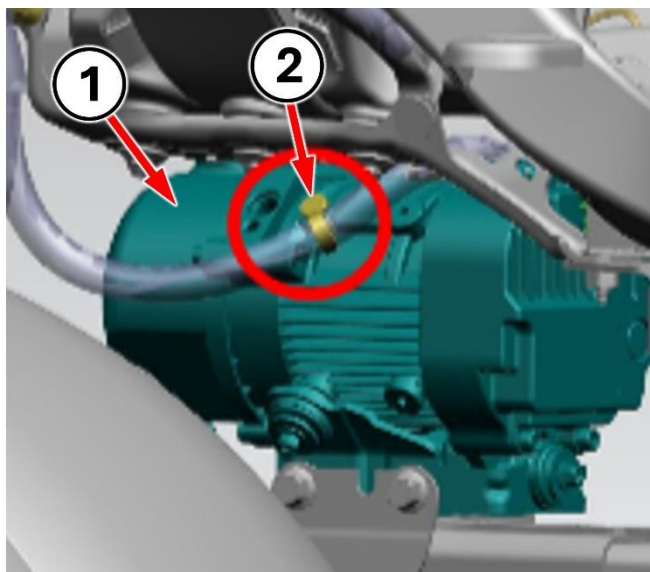
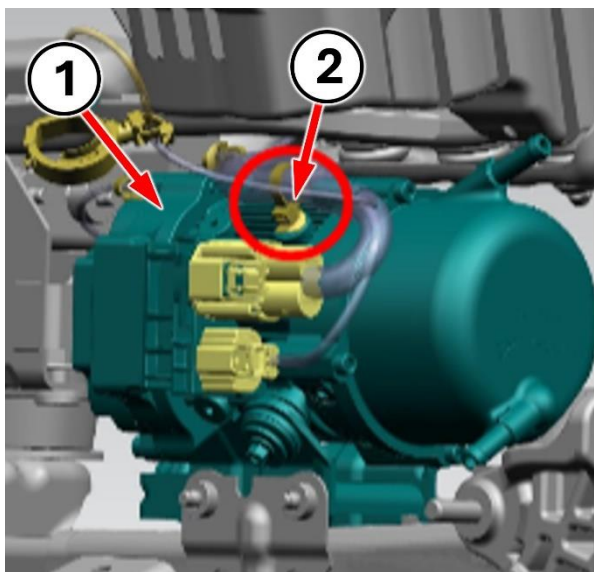


Figure A8 – Power Steering Pump Wire Harness Routing and Clipping

1 - Power Steering Pump

2 – Wire Harness Retainers

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24. Position a drain pan before disconnecting pump hoses and pipes.

25. Remove the EHPS pump pressure pipe bolt and remove the pressure pipe from the EHPS pump (Figure A9).

26. Remove the EHPS pump frame bracket bolts (Figure A9).

27. Pinch off the EHPS pump return hose and supply hose with suitable clamps.

28. With the hose clamp released, disconnect the return hose from the EHPS pump (Figure A9).

29. With the hose clamp released, disconnect the supply hose from the EHPS pump and position the hose end higher than the power steering pump reservoir to prevent leaking while disconnected (Figure A9).

30. Remove the EHPS pump from the vehicle and set aside for return for analysis (Figure A9).

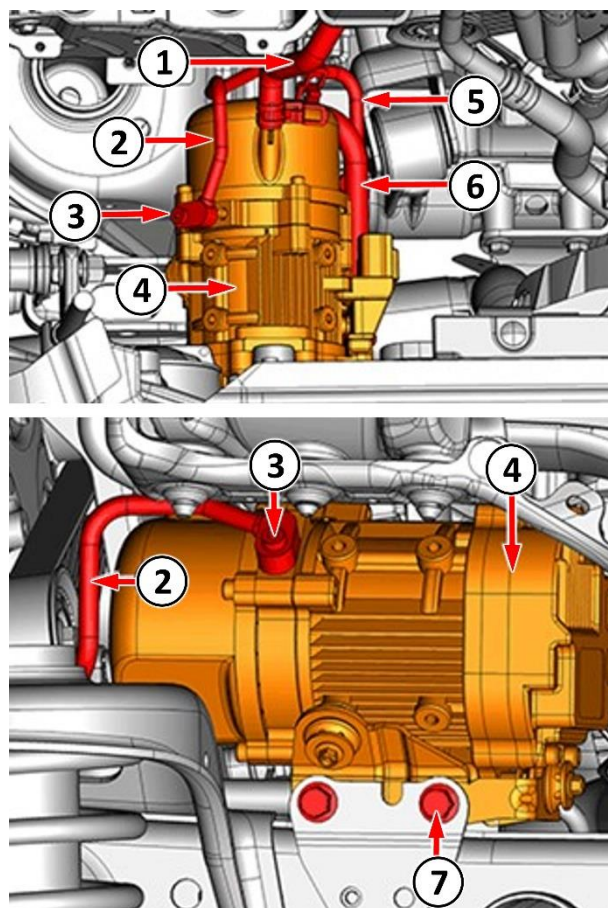


Figure A9 – EHPS Pump

- 1 - Supply Hose
- 2 - Pressure Pipe
- 3 - Pump Pressure Pipe Bolt
- 4 - EHPS Pump
- 5 - Wire Harness
- 6 - Return Hose
- 7 - EHPS Pump Frame Bracket Bolts

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32. Locate EHPS ground G908A on body of vehicle near the right-side headlamp on one of three studs (Figure A10).
NOTE: The EHPS ground connection is often located on the lower stud but may vary depending on vehicle build configuration so MUST be verified.
33. Remove the ground nut and eyelet off the stud then verify continuity with a multimeter between G908A ground eyelet and EHPS connector D2704A cavity 1 black wire. Also verify the EHPS ground circuit is isolated from chassis ground (Figure A10). **NOTE: If a continuity reading is still present between the EHPS ground circuit wire and chassis ground, the wrong wire has been selected.**

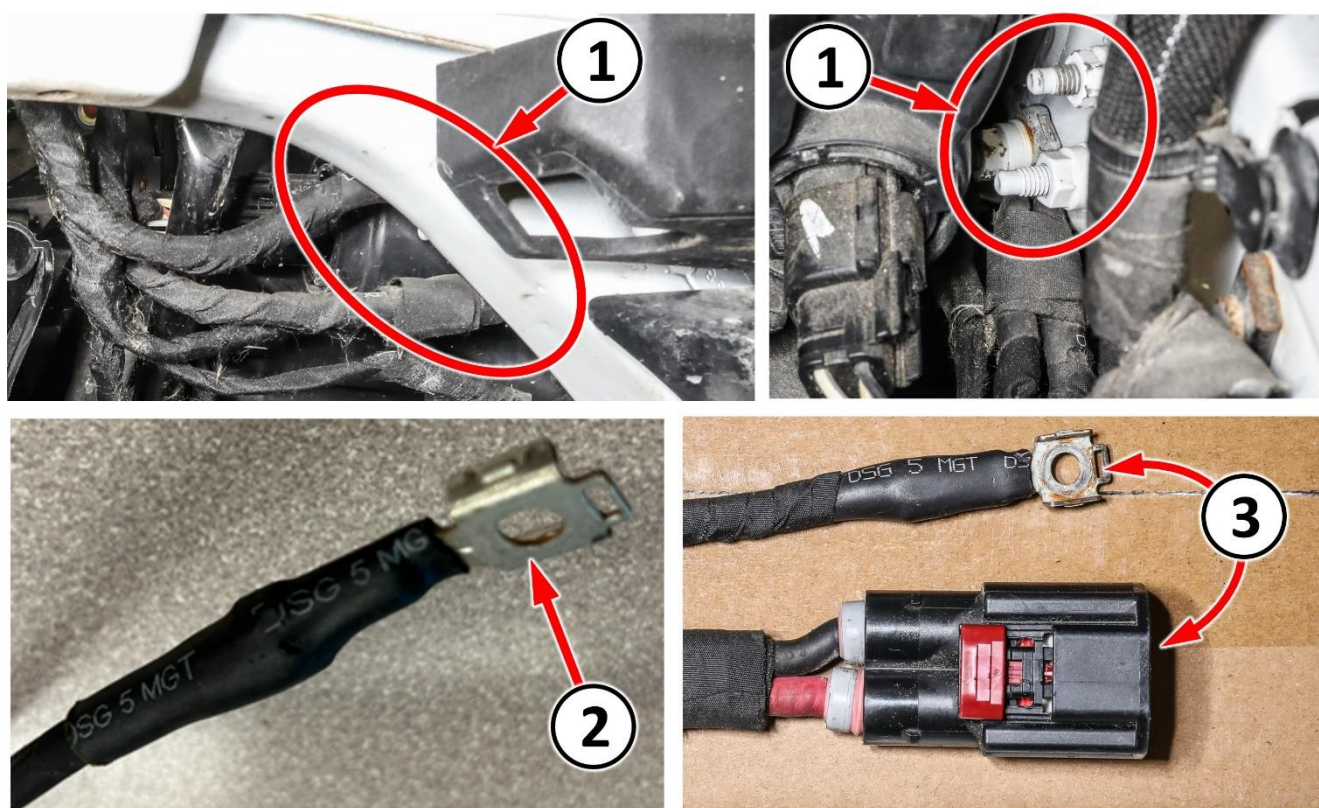


Figure A10 – EHPS Ground G908A - Near Right Side Headlamp

- 1 - EHPS ground G908A general location on vehicle body
2 – EHPS ground G908A
3 – Verify continuity with a multimeter (also verify circuit isolation from chassis ground)

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34. Remove the cover from the Power Distribution Center (PDC) under hood fuse box.
35. Locate the EHPS power supply eyelet D6630J on post #6 and remove eyelet off or the stud (Figure A11).
36. Verify continuity with multimeter between D6630J eyelet and D2704A connector cavity 2 red wire. Also verify the EHPS power circuit is isolated from the vehicle power circuit (Figure A11). **NOTE: If a continuity reading is still present between the EHPS power circuit wire and other vehicle power circuits, the wrong wire has been selected.**

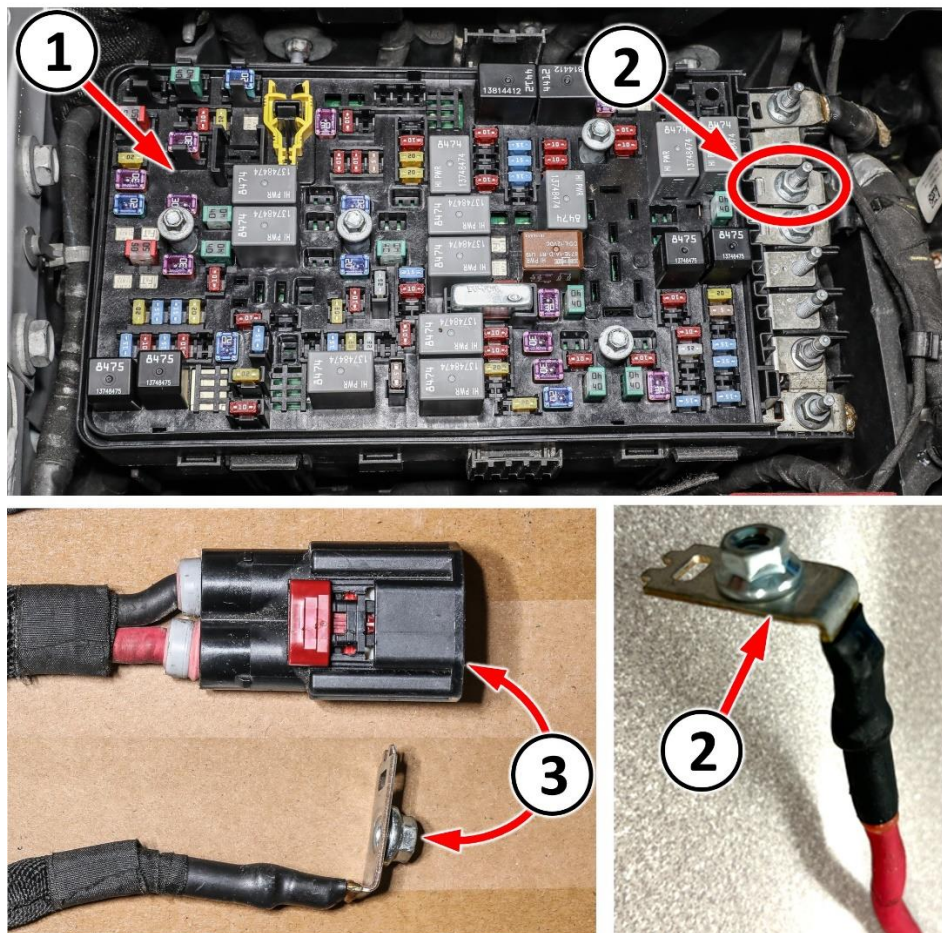


Figure A11 – EHPS Power Supply Eyelet D6630J in PDC

- 1 - PDC
- 2 – EHPS power supply eyelet D6630J
- 3 – Verify Continuity with a Multimeter (also verify circuit Isolation from other vehicle power circuit)

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37. After verification, cut EHPS power supply eyelet D6630J approximately 4 inches behind eyelet 90-degree bend and set aside for return for analysis (Figure A12).
38. After verification, cut ground eyelet G908A approximately 4 inches behind center of eyelet hole and set aside for return for analysis (Figure A12).
39. Cut 2way EHPS connector D2704A approximately 2 inches behind connector body taking special care not to cut through 3way connector D2704B circuits. Set aside for return for analysis (Figure A12).

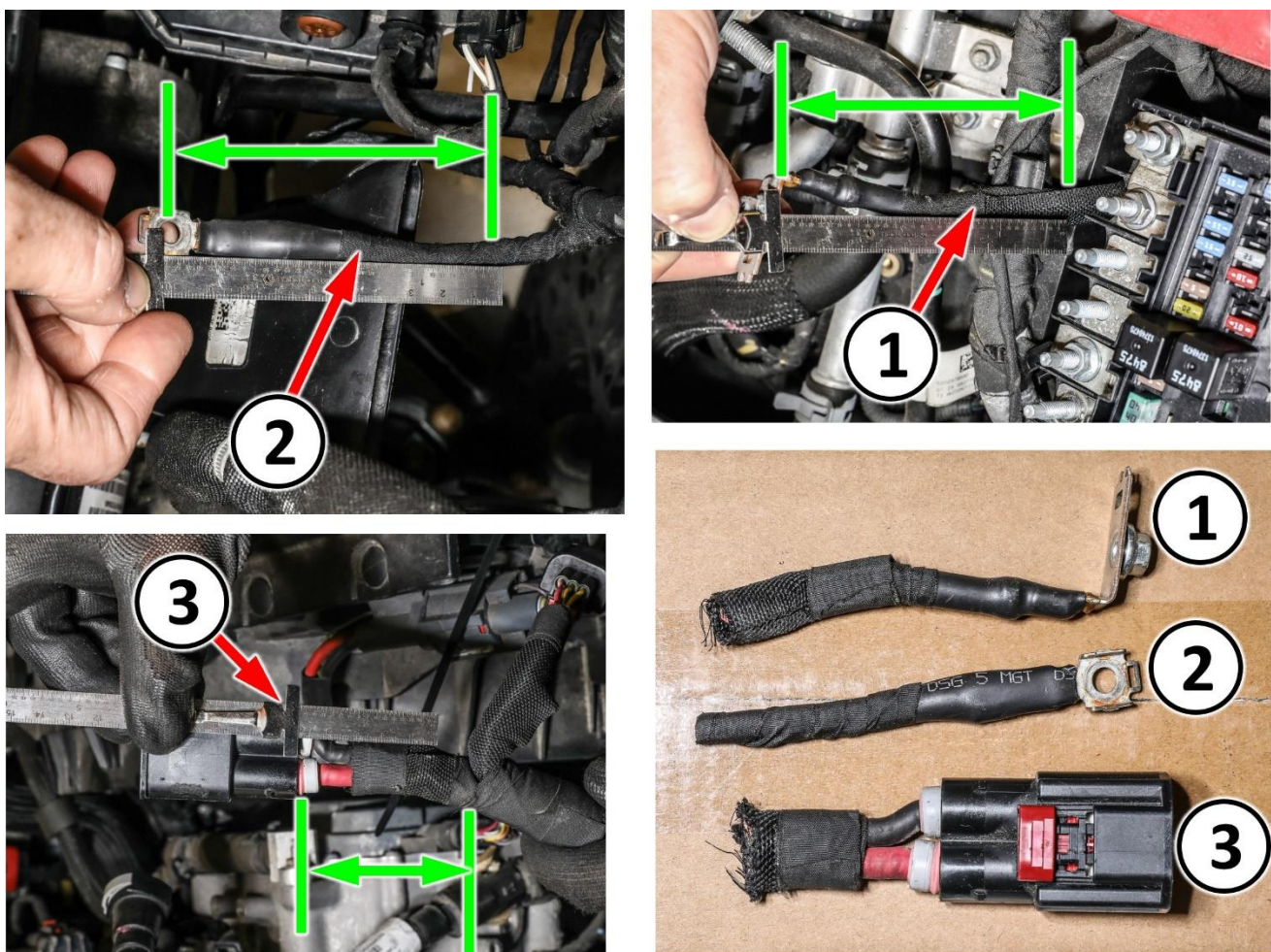


Figure A12 – Remove EHPS Wire Harness Terminals

- 1 – EHPS power supply eyelet D6630J
- 2 – EHPS ground eyelet G908A
- 3 – EHPS connector D2704A

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40. Use locally sourced heat shrink tubing to seal the exposed end where EHPS power supply eyelet D6630J was removed (Figure A13).
41. Use locally sourced heat shrink tubing to seal the exposed end where EHPS ground eyelet G908A was removed (Figure A13).
42. Use locally sourced heat shrink tubing to seal the exposed ends where EHPS connector D2704A was removed (Figure A13).

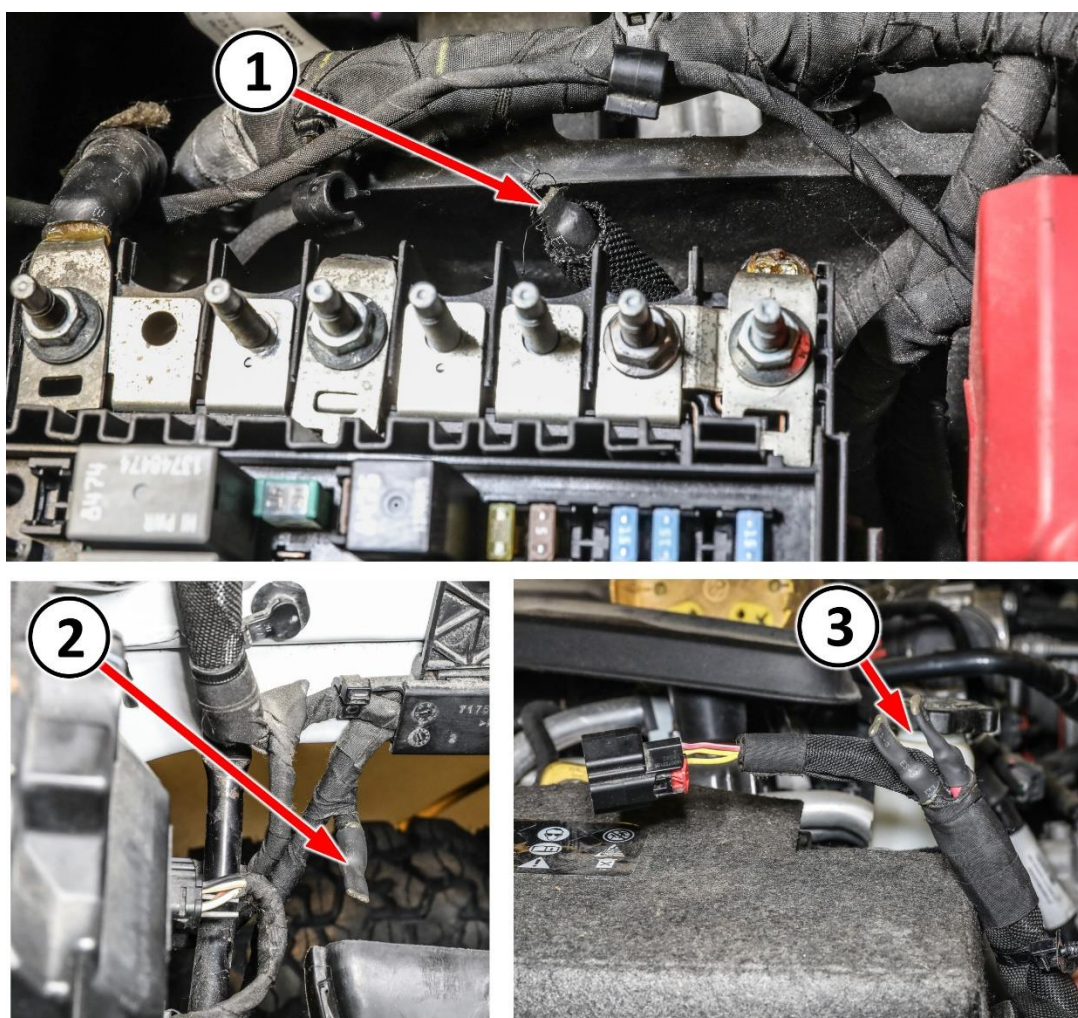


Figure A13 – Seal Exposed Ends of Cut EHPS Wires

- 1 – EHPS power supply eyelet D6630J
- 2 – EHPS ground eyelet G908A
- 3 – EHPS connector D2704A

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43. Obtain the **NEW** EHPS overlay harness and position it in the engine compartment following the routing path of the original harness (Figure A14).

NOTE: Do not attach anything permanently at this point.

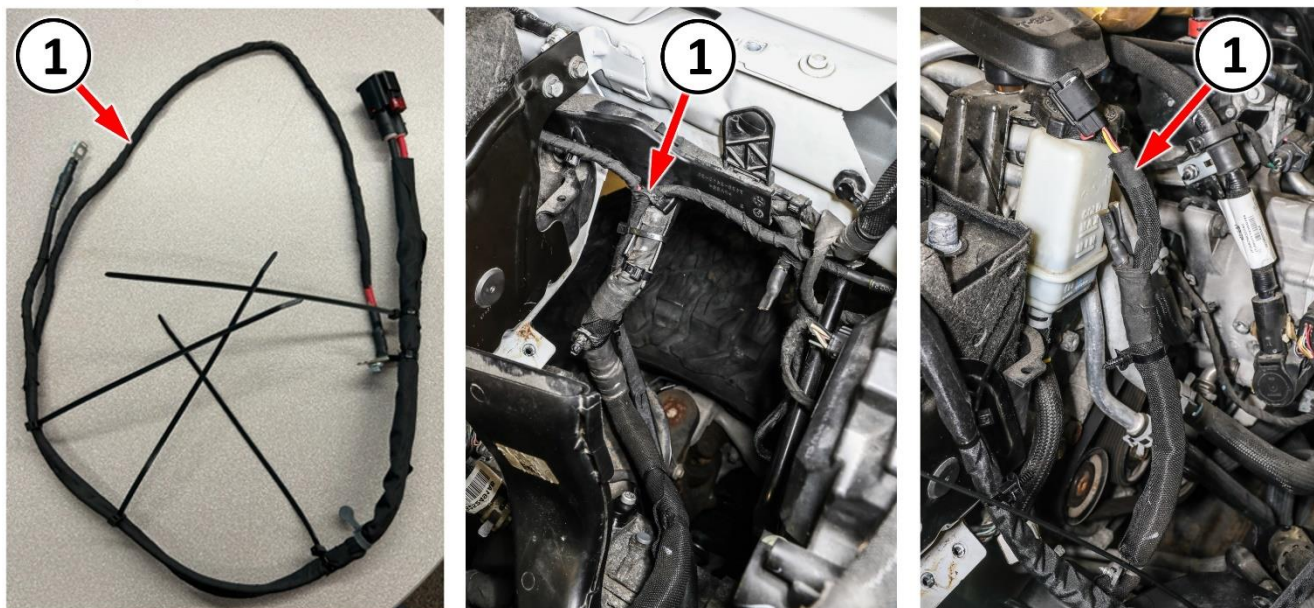


Figure A14 – EHPS Overlay Harness

1 - EHPS Overlay Harness

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44. Obtain the **NEW** EHPS pump and position it in the vehicle (Figure A15).

45. Connect the supply hose to the EHPS pump and secure with the hose clamp (Figure A15).

46. Connect the return hose to the EHPS pump and secure with the hose clamp (Figure A15).

47. Install the EHPS pump frame bracket bolts and tighten to 29 N·m (21 Ft. Lbs.) (Figure A15).

48. Install the EHPS pressure pipe to the EHPS pump then install the EHPS pump pressure pipe bolt (Figure A15). Tighten the pressure pipe bolt to:
2024 and prior: 20 N·m (15 Ft. Lbs.)
2025 and later: 25 N·m (18 Ft. Lbs.)

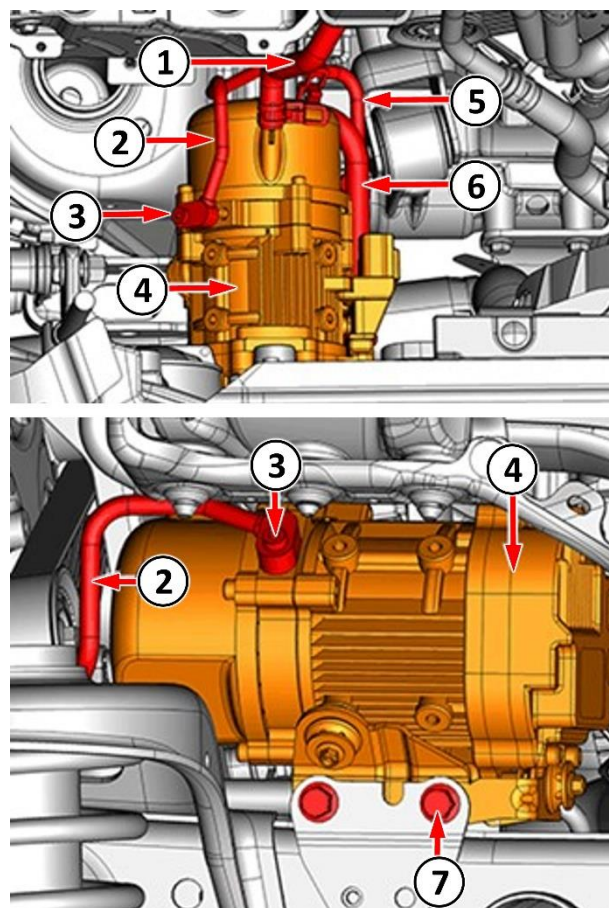


Figure A15 – EHPS Pump

- 1 - Supply Hose
- 2 - Pressure Pipe
- 3 - Pump Pressure Pipe Bolt
- 4 - EHPS Pump
- 5 - Wire Harness
- 6 - Return Hose
- 7 - EHPS Pump Frame Bracket Bolts

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NOTE: When two fir tree clips exist in the same location on both the new EHPS overlay harness and original EHPS harness, remove the old fir tree clip in favor of using the new fir tree clip (Figure A16).

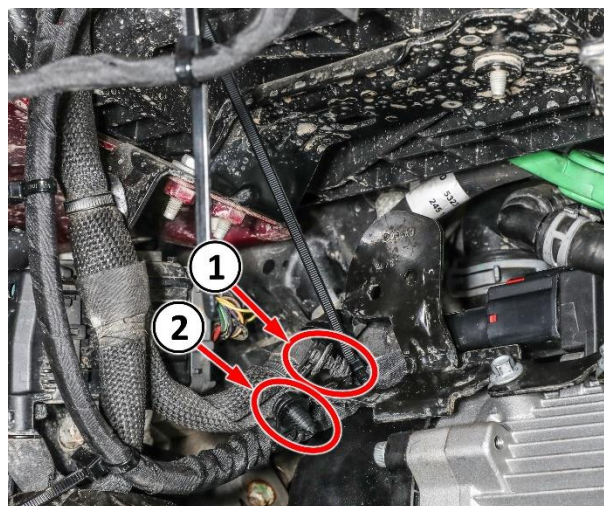


Figure A16 – Fir Tree Clips

1 – Old Fir Tree Clip

2 – New Fir Tree Clip

49. Install the EHPS wire harness fir tree clips to the EHPS pump/pump bracket (Figure A17).

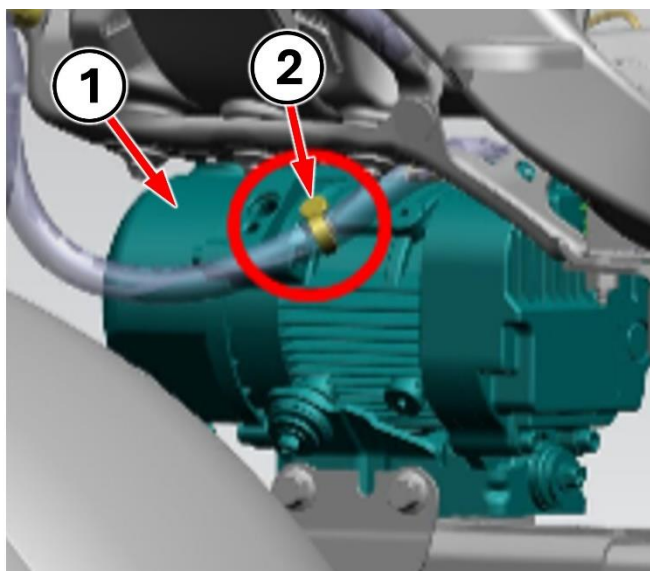
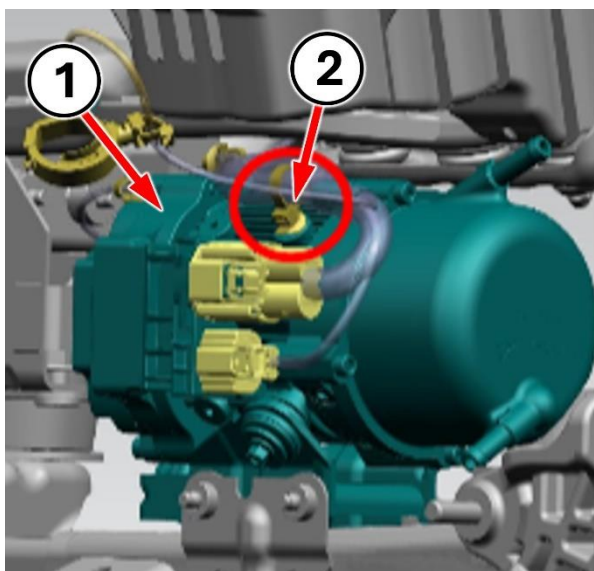


Figure A17 – Power Steering Pump Wire Harness Routing and Clipping

1 - Power Steering Pump

2 – Wire Harness Retainers

SAFETY RECALL

NORTH AMERICA

Electric Hydraulic Power Steering Pump



Reference: 21D / NHTSA 26V-363

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50. Connect the electrical connectors to the EHPS pump then engage the red CPA connector latch in locked position (Figure A18). Verify connection with Push-Pull-Push on connector, not on circuits.
51. Secure overlay to existing EHPS dash wiring bundle with double tie strap clip while making sure overlay is not in direct contact with sharp edges.

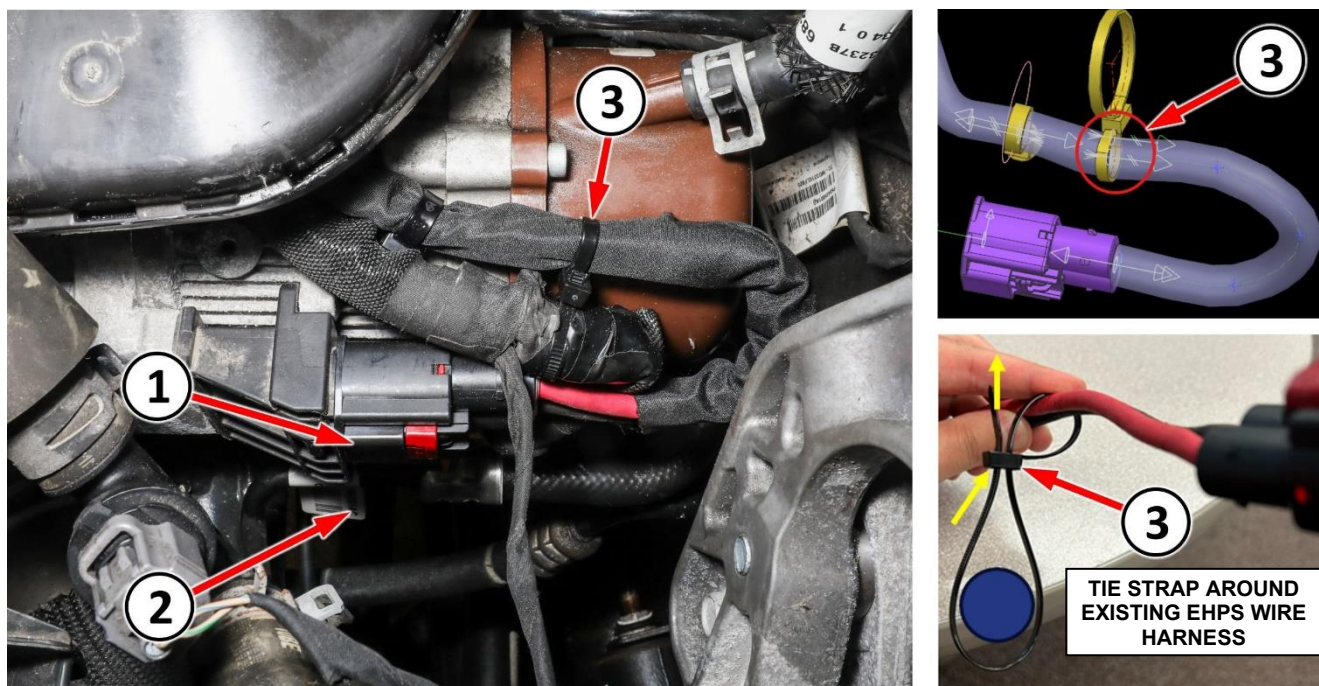


Figure A18 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - 3way connector D2704B
- 2 – 2way connector D2704A
- 3 – Tie Strap

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52. Route remainder of EHPS overlay harness along existing dash harness bundle routing, securing double tie strap clips to existing dash harness wiring bundle. Make sure overlay is not in direct contact with sharp edges. Reference routing pictures below (Figure A19).
53. Loop and secure with cable tie or black electrical any excess overlay jumper wire length outboard of battery.

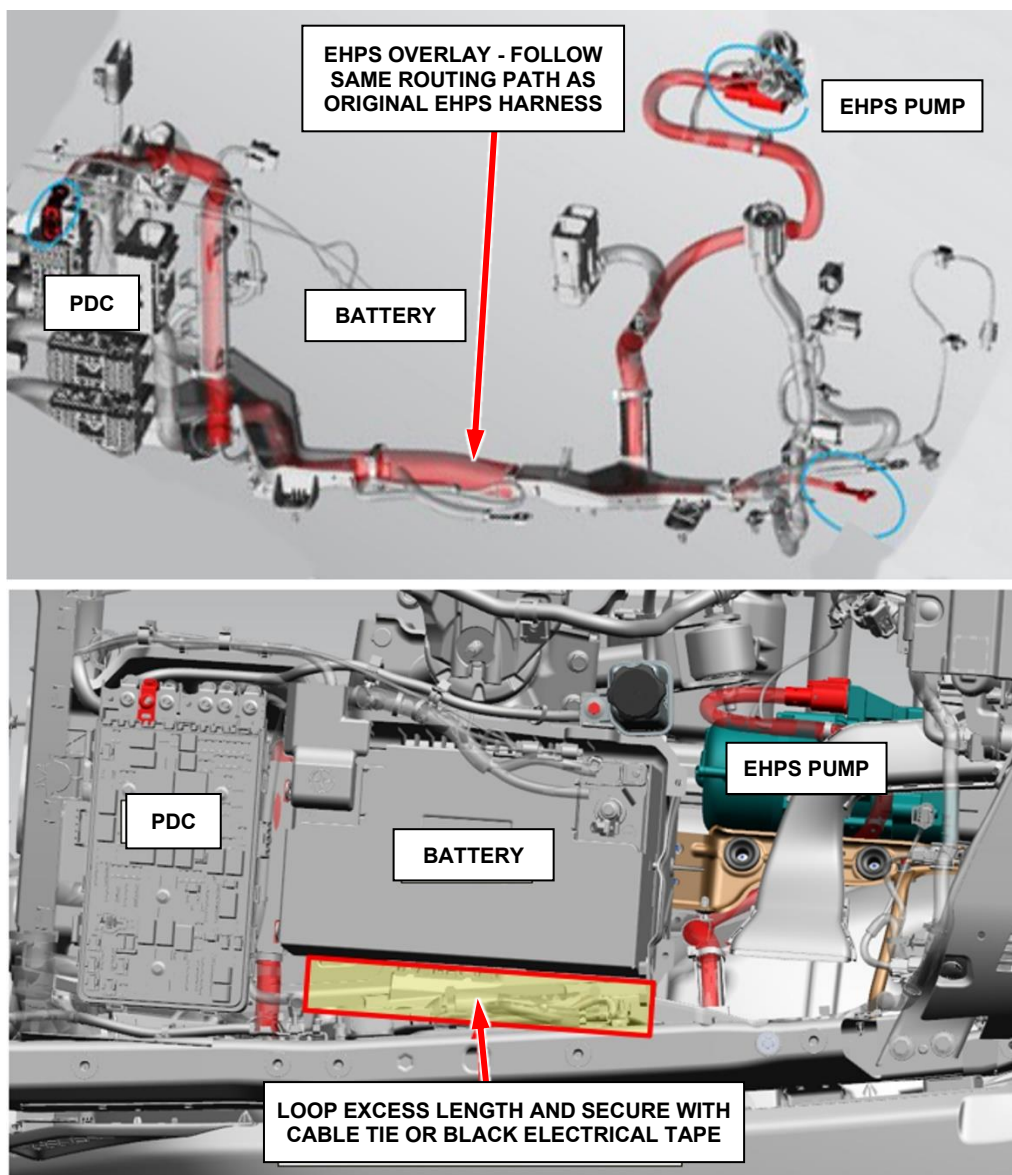


Figure A19 – Power Steering Pump Wire Harness Overlay Routing

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54. Place EHPS service overlay jumper D6630J EHPS power eyelet on post #6 on the PDC and torque nut to 9 N·m (80 In. Lbs.) (Figure A11).
55. Place EHPS service overlay jumper ground G908A over ground stud eyelet previously removed and torque ground stud nut to 15 N·m (11 Ft. Lbs.) (Figure A10).
56. Install the air cleaner bracket. Tighten fasteners securely (Figures A6 and A5).
57. Engage the air duct to the air cleaner bracket (Figure A5).
58. Install the wheelhouse splash shield. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **23 - Body / Exterior / SHIELD, Splash, Front Wheelhouse / Installation**
59. Install the air cleaner body. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **09 – Engine / Air Intake System / BODY, Air Cleaner / Installation.**
60. Install the “clean air hose” or “air cleaner resonator” depending on engine. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **09 – Engine / Air Intake System / HOSE, Clean Air / Installation or 09 - Engine, 3.6L / Air Intake System / RESONATOR, Air Cleaner / Installation.**
61. Power up the battery system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info>
 - **PHEV: 12 - Electrified Powertrain System / High Voltage Battery / Standard Procedure.**
 - **ICE: 08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.**
62. Refill the power steering system with fluid. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **19 - Steering / Standard Procedure / power steering system bleeding.**
63. Do not scrap the power steering pump or cut wire harness ends. These parts may be requested back for further analysis at the Quality Engineering Center (QEC) for review.
64. Return vehicle to customer or inventory.

B. JL with 3.0L Diesel Engine - Left Hand Drive (LHD)

JL with 6.4L Internal Combustion Engine (ICE) - Left Hand Drive (LHD)

NOTE: The wiTECH scan tool must be used to perform this Recall. The wiTECH software is required to be at the latest release level before performing this procedure.

NOTE: The vehicle MUST NOT be connected to a high voltage battery charger during this process.

1. Connect the wiTECH MDP to the vehicle data link connector.

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Electric Hydraulic Power Steering Pump



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2. Place the ignition in the **"RUN"** position.
3. Open the wiTECH 2.0 website.
4. Enter your **"User id"** and **"Password"** and your **"Dealer Code"**, then select **"Sign In"** at the bottom of the screen. Click **"Accept"**.
5. From the **"Vehicle Selection"** screen, select the vehicle to be updated.
6. From the **"Action Items"** screen, select the **"Topology"** tab.
7. Click **"View DTCs"** and inspect for Diagnostic Trouble Code (DTC) U0131 - lost communication with power steering control module "A".
 - **YES - DTC is present.** Power steering pump replacement and wire harness overlay installation will be required. No further inspection required. Continue with the following steps while skipping those related to inspection.
 - **NO - DTC is NOT present.** Continue performing the following inspection process.
8. Place the ignition in the **"OFF"** position and then remove the wiTECH micro pod II / MDP device from the vehicle.

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9. Remove the power steering pump reservoir retaining bolt then relocate the power steering pump reservoir. For 3.0L diesel, remove the retaining bolt and relocate the glow plug relay (Figure B1).

10. **DTC U0131 NOT present:** Perform the following electrical connector inspection steps.

- a. Visually verify Electric Hydraulic Power Steering (EHPS) connector is fully mated to the pump interface with CPA fully engaged on the connector latch. If electrical connector is not fully mated or CPA is not engaged, take photos to attach to repair claim (Figure B2).

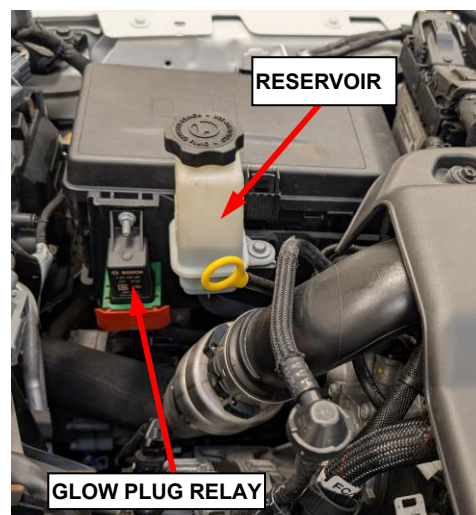
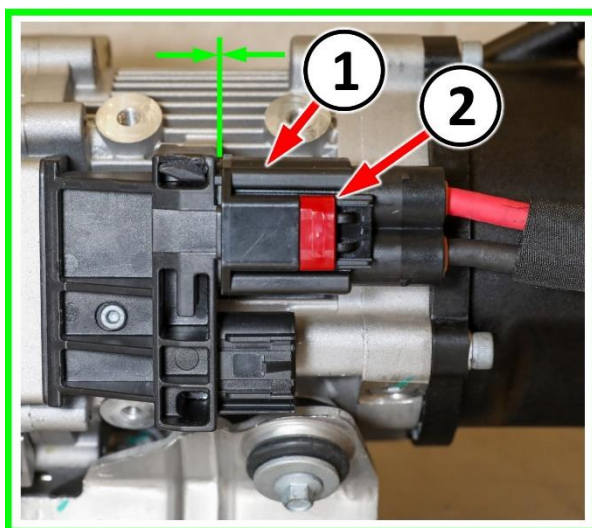
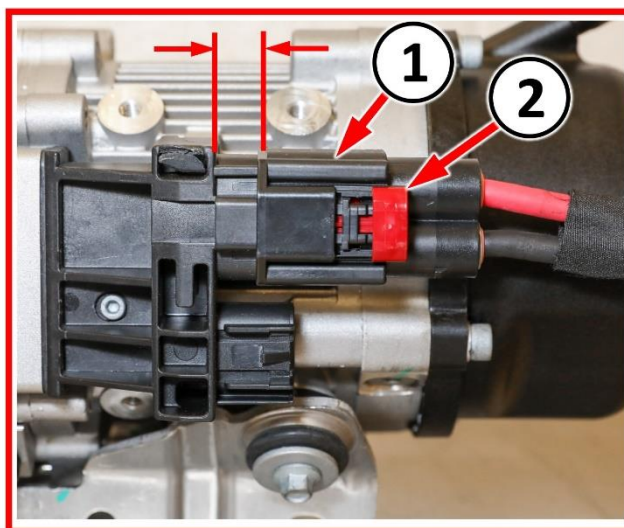


Figure B1 – Power Steering Pump Reservoir



**Electrical Connector and CPA
Fully Engaged, No Gap**



**Electrical Connector and/or CPA
Not Fully Engaged, Gap Observed**

Figure B2 – EHPS Electrical Connector and Connector Position Assurance (CPA)

1 - EHPS Electrical Connector

2 - Connector Position Assurance (CPA)

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Electric Hydraulic Power Steering Pump



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- b. Grasp the EHPS connector ONLY (not the wires) and pull to determine if it is securely connected to the EHPS pump. If connector releases, take photos to attach to repair claim. If connector does not detach, push on connector to ensure it is fully seated (Figure B3).

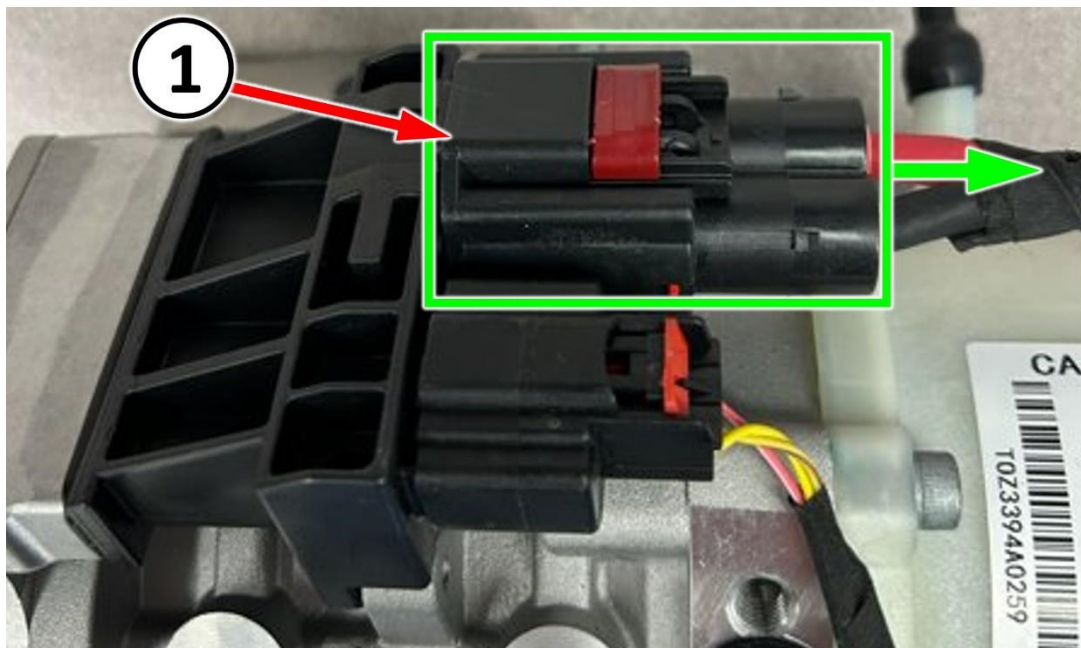


Figure B3 – EHPS Electrical Connector Pull Test

1 - EHPS Electrical Connector

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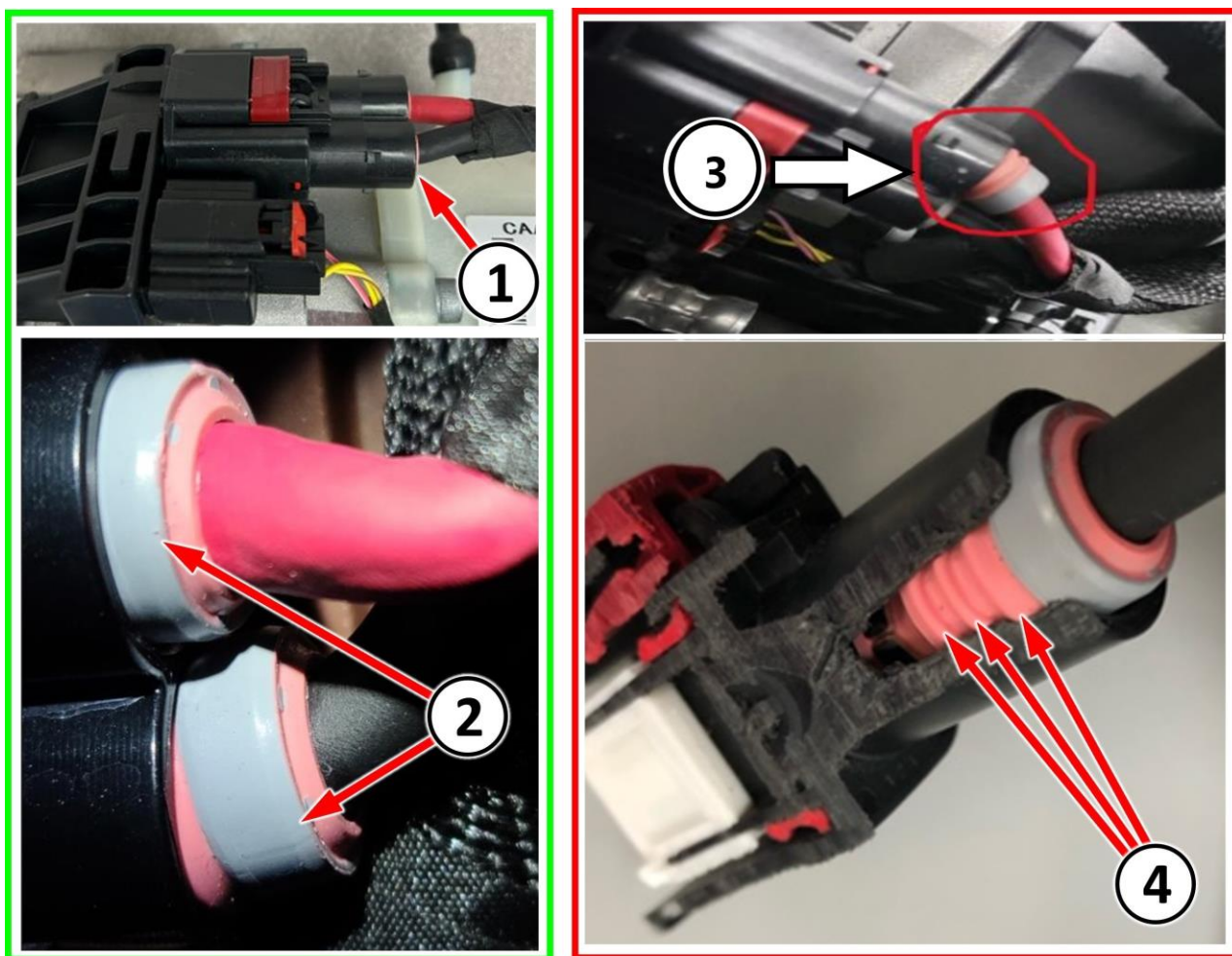
Electric Hydraulic Power Steering Pump



Reference: 21D / NHTSA 26V-363

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- c. Inspect the wire harness for any wires that are not fully inserted into the connector as shown in the following images. If the sealing ribs are exposed, take photos to attach to repair claim (Figure B4).
- d. Visually inspect for any visible damage to harness bundle and EHPS connector. If damage is observed, take photos to attach to repair claim.



Correctly Inserted Terminals - OK

Ribs Exposed - Not OK Condition

Figure B4 – Power Steering Pump Harness Connector Wires

- 1 - Electrical Wires Fully Inserted in Terminal - OK
- 2 - Gray Portion of Seal Protruding Beyond Connector Body – OK
- 3 – Pink Rib(s) Protruding Beyond Connector Body – Not OK
- 4 – Example of Pink Ribs

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11. Were any issues found with EHPS connector or harness connections to the pump or DTC U0131 present?

- **YES:** Power steering pump replacement and wire harness overlay installation will be required. Continue with the service procedure.
- **NO:** If no issues can be found with EHPS electrical connection, ensure wire harness is routed and secured properly (Figure B5). Reinstall the power steering pump reservoir and tighten the bolt to 5 N·m (44 In. Lbs.) (Figure B1).
- Inspection is complete. Return the vehicle to the customer.

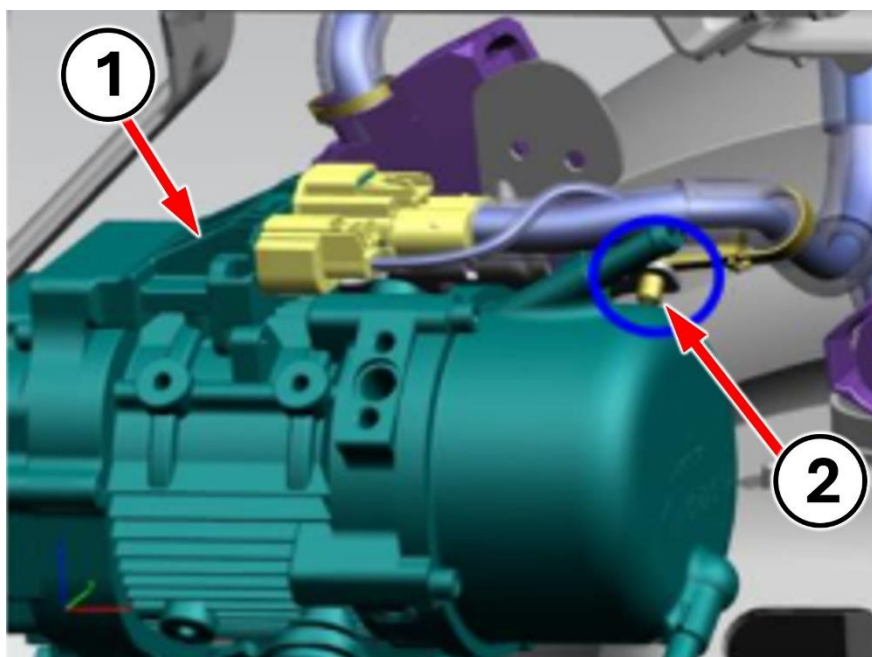


Figure B5 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - Power Steering Pump
- 2 – Wire Harness Retainers

12. Power down the battery system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.**

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13. (3.0L Only) Remove the Charge Air Cooler (CAC) Hose (Figure B6). Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 09 - Engine, 3.0L Turbo Diesel / Turbocharger System / COOLER and HOSES, Charge Air / Removal and Installation.

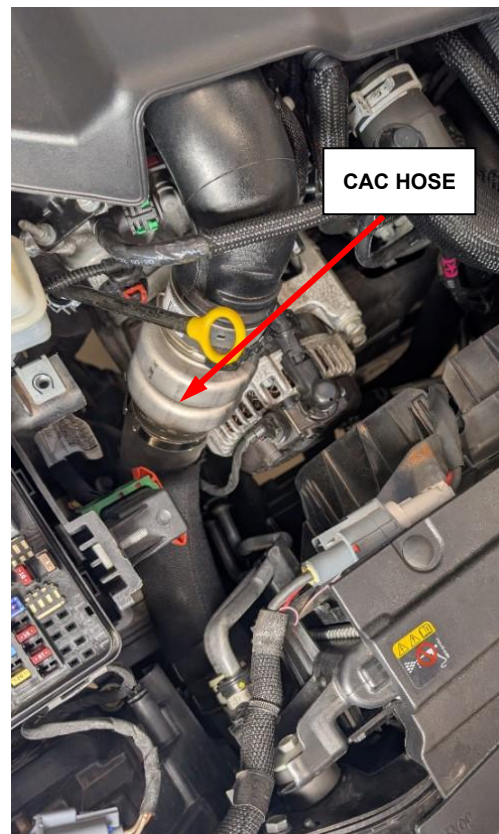


Figure B6 – CAC Hose

14. Raise and support the vehicle. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **04 - Vehicle Quick Reference / Hoisting / Standard Procedure.**
15. Remove the wheelhouse splash shield. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **23 - Body / Exterior / SHIELD, Splash, Front Wheelhouse / Removal and Installation**

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Reference: 21D / NHTSA 26V-363



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16. Disconnect the electrical connectors from the EHPS pump if not already done so, by sliding red CPA back and de-pressing connector latch (Figure B7).

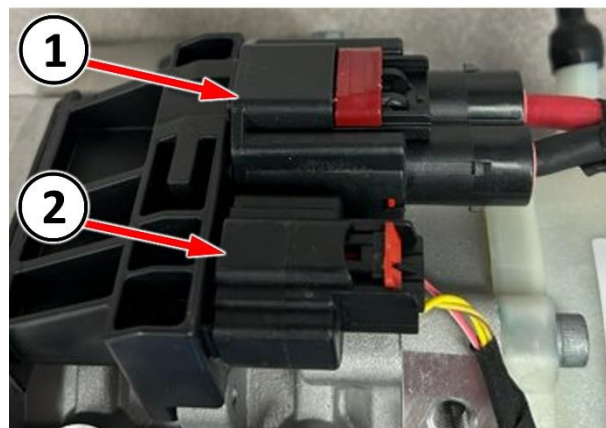


Figure B7 – Electrical Connectors

17. Remove fir tree clip from the EHPS pump/pump bracket (Figure B8).

1 - 2way connector D2704A
2 – 3way connector D2704B

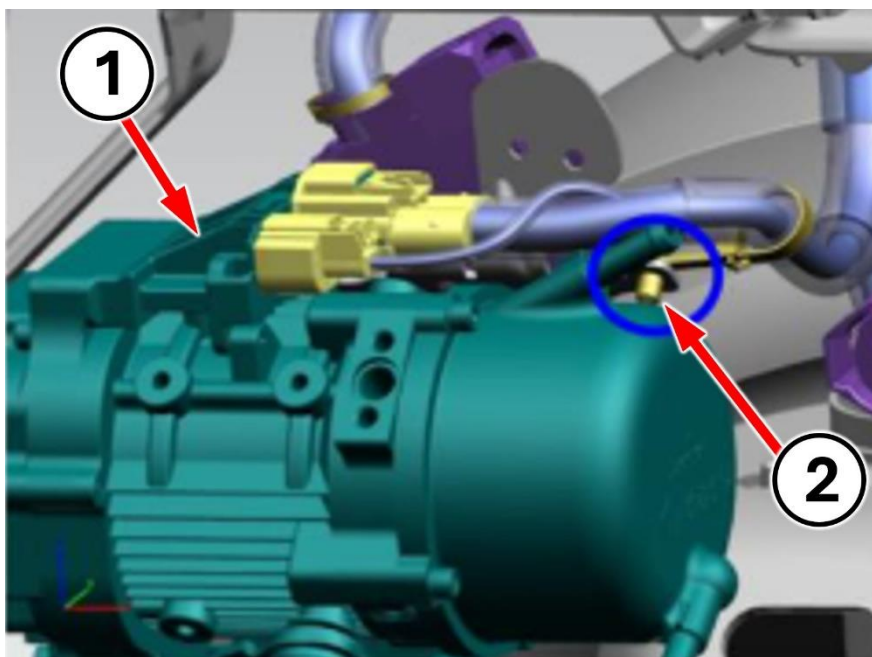


Figure B8 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - Power Steering Pump
2 – Wire Harness Retainers

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Electric Hydraulic Power Steering Pump

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18. Position a drain pan before disconnecting pump hoses and pipes.
19. Pinch off the EHPS pump return hose with a suitable clamp.
20. Disconnect the EHPS pump return hose from the EHPS pump (Figure B9).



Figure B9 – EHPS Pump Return Hose

1 - Pump Return Line

21. Remove the EHPS pump pressure pipe bolt and remove the pressure pipe from the EHPS pump (Figure B10).

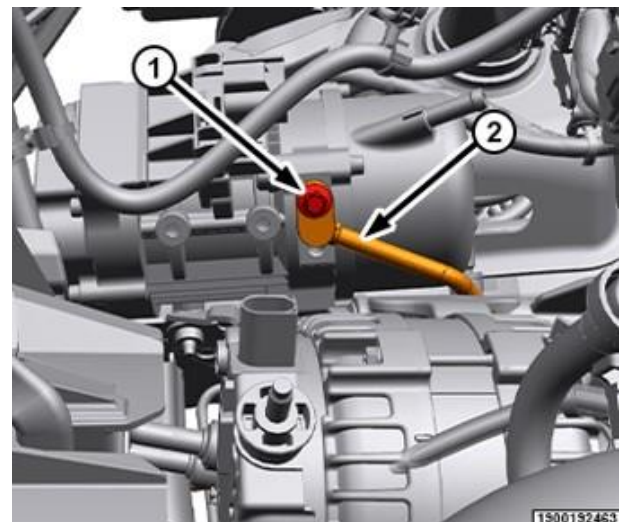


Figure B10 – EHPS Pump Pressure Pipe

1 - Pump Pressure Line Bolt

2 - Pressure Line

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22. Remove the bolts and position aside the wire harness bracket (upper image in Figure B11).

NOTE: For 3.0L vehicles, disconnect the electrical harness connector to gain bolt access (lower image in Figure B11).

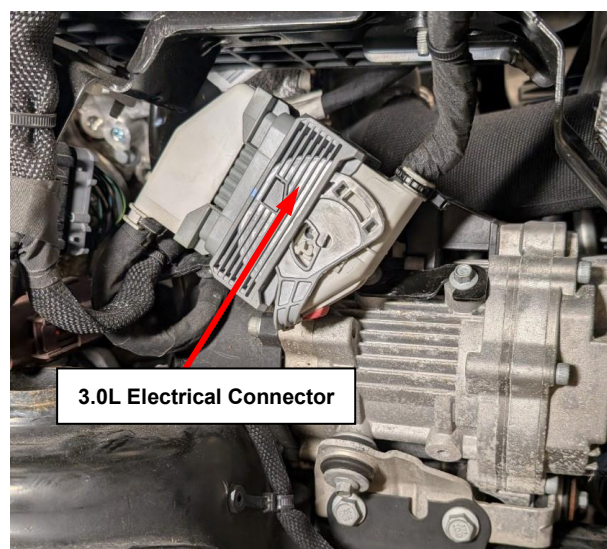
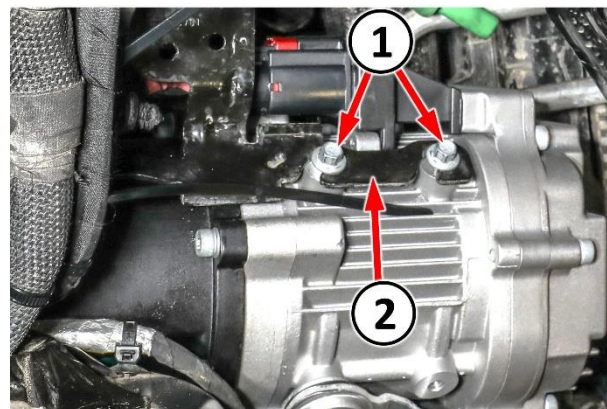


Figure B11 – Wire Harness Bracket

1 - Bolts

2 - Bracket

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23. Remove the EHPS pump frame bracket bolts (Figure B12).
24. Remove the EHPS pump from the vehicle with reservoir attached (Figure B12).
25. Obtain the **NEW** EHPS pump and transfer the reservoir to the **NEW** pump.
26. Set aside the replaced EHPS pump from the vehicle for return for analysis.

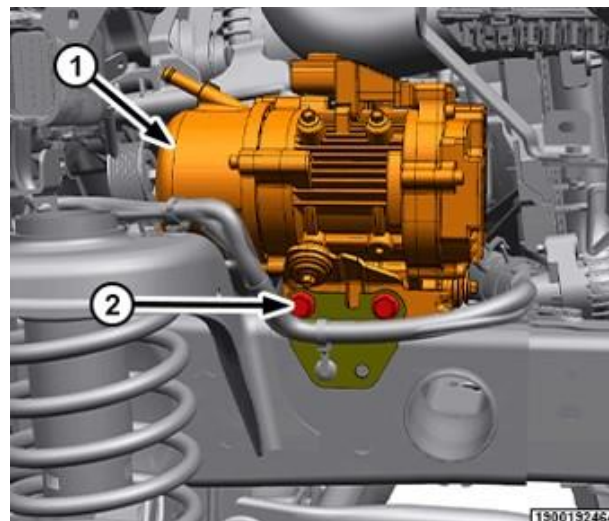


Figure B12 – EHPS Pump

1 - Pump

2 - EHPS Pump Frame Bracket Bolts

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27. Locate EHPS ground G908A on body of vehicle near the right-side headlamp on one of three studs (Figure B12). NOTE: The EHPS ground connection is often located on the lower stud but may vary depending on vehicle build configuration so MUST be verified.
28. Remove the ground nut and eyelet off the stud then verify continuity with a multimeter between G908A ground eyelet and EHPS connector D2704A cavity 1 black wire. Also verify the EHPS ground circuit is isolated from chassis ground (Figure B12). NOTE: If a continuity reading is still present between the EHPS ground circuit wire and chassis ground, the wrong wire has been

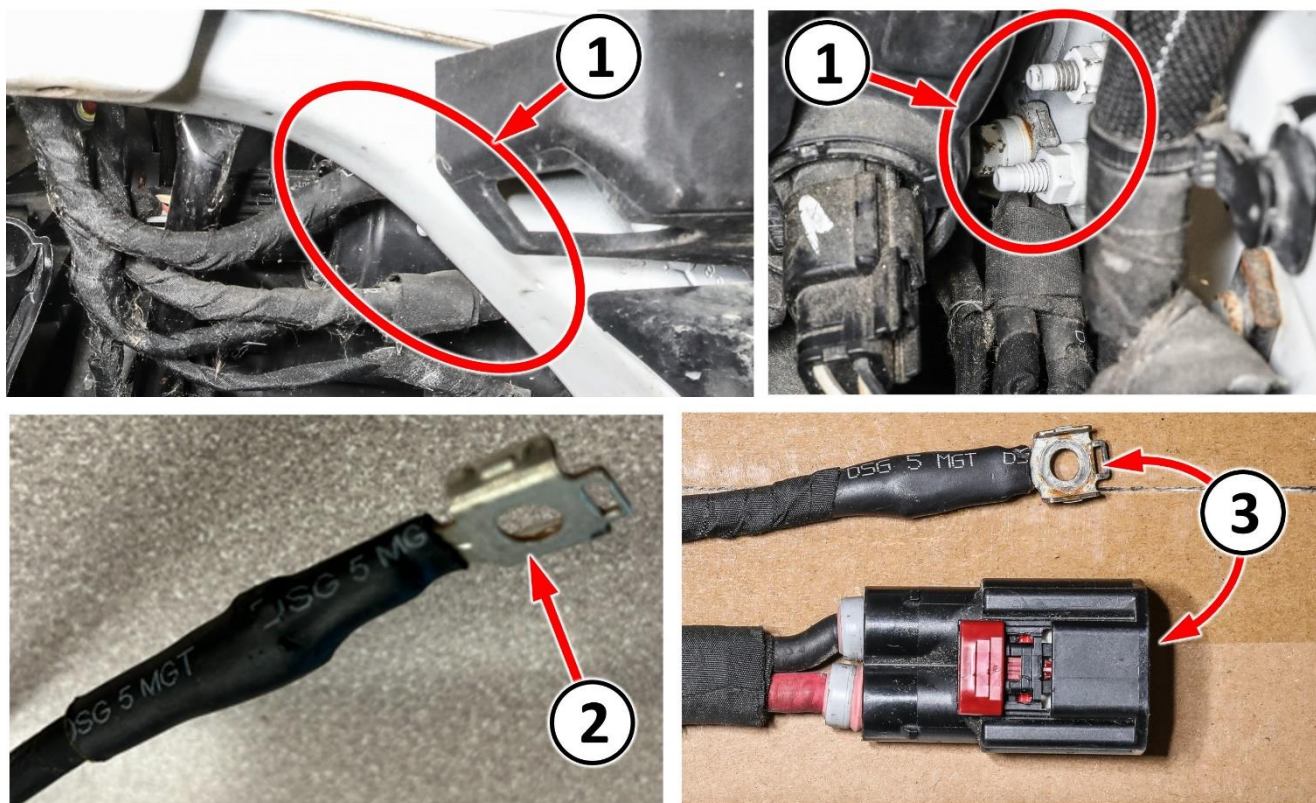


Figure B13 – EHPS ground G908A - Near Right Side Headlamp

- 1 - EHPS ground G908A general location on vehicle body
- 2 – EHPS ground G908A
- 3 – Verify continuity with a multimeter (also verify circuit isolation from chassis ground)

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29. Remove the cover from the Power Distribution Center (PDC) under hood fuse box.
30. Locate the EHPS power supply eyelet D6630J on post #6 and remove eyelet off or the stud.
31. Verify continuity with multimeter between D6630J eyelet and D2704A connector cavity 2 red wire. Also verify the EHPS power circuit is isolated from the vehicle power circuit (Figure B13). NOTE: If a continuity reading is still present between the EHPS power circuit wire and other vehicle power circuits, the wrong wire has been selected.

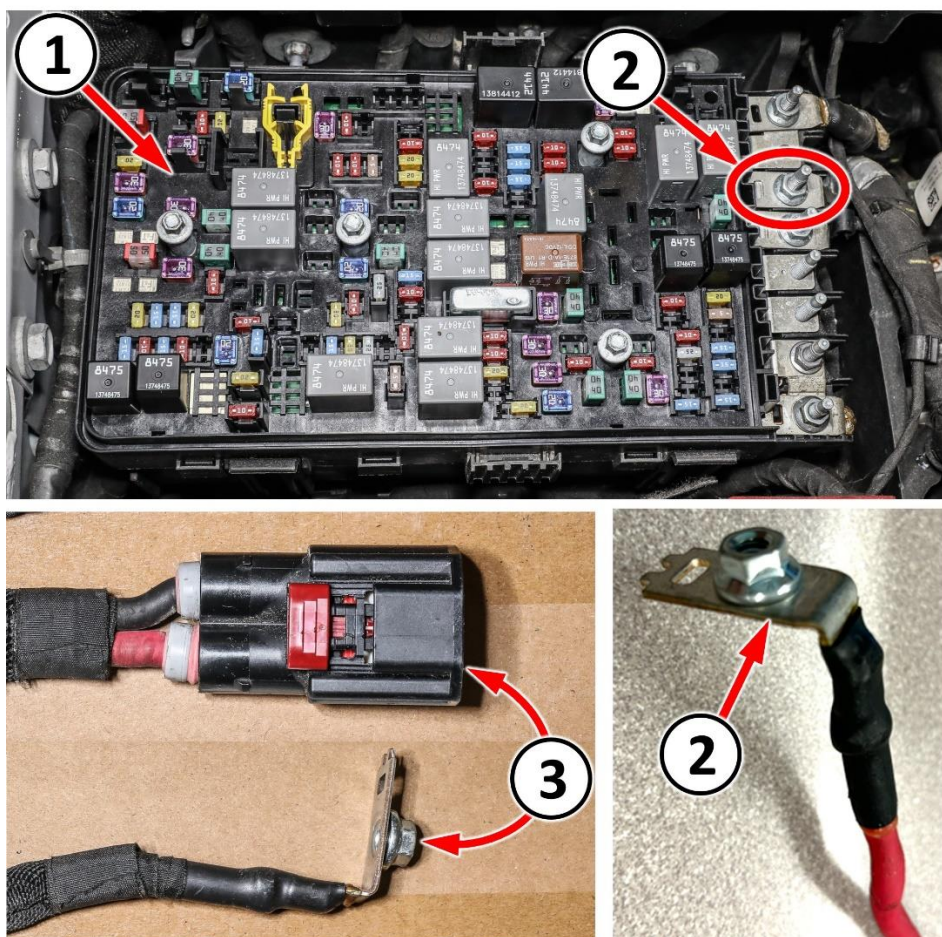


Figure B14 – EHPS Power Supply Eyelet D6630J in PDC

- 1 - PDC
- 2 – EHPS power supply eyelet D6630J
- 3 – Verify Continuity with a Multimeter (also verify circuit Isolation from other vehicle power circuit)

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32. After verification, cut EHPS power supply eyelet D6630J approximately 4 inches behind eyelet 90-degree bend and set aside for return for analysis (Figure B15).
33. After verification, cut ground eyelet G908A approximately 4 inches behind center of eyelet hole and set aside for return for analysis (Figure B15).
34. Cut 2way EHPS connector D2704A approximately 2 inches behind connector body taking special care not to cut through 3way connector D2704B circuits. Set aside for return for analysis (Figure B15).

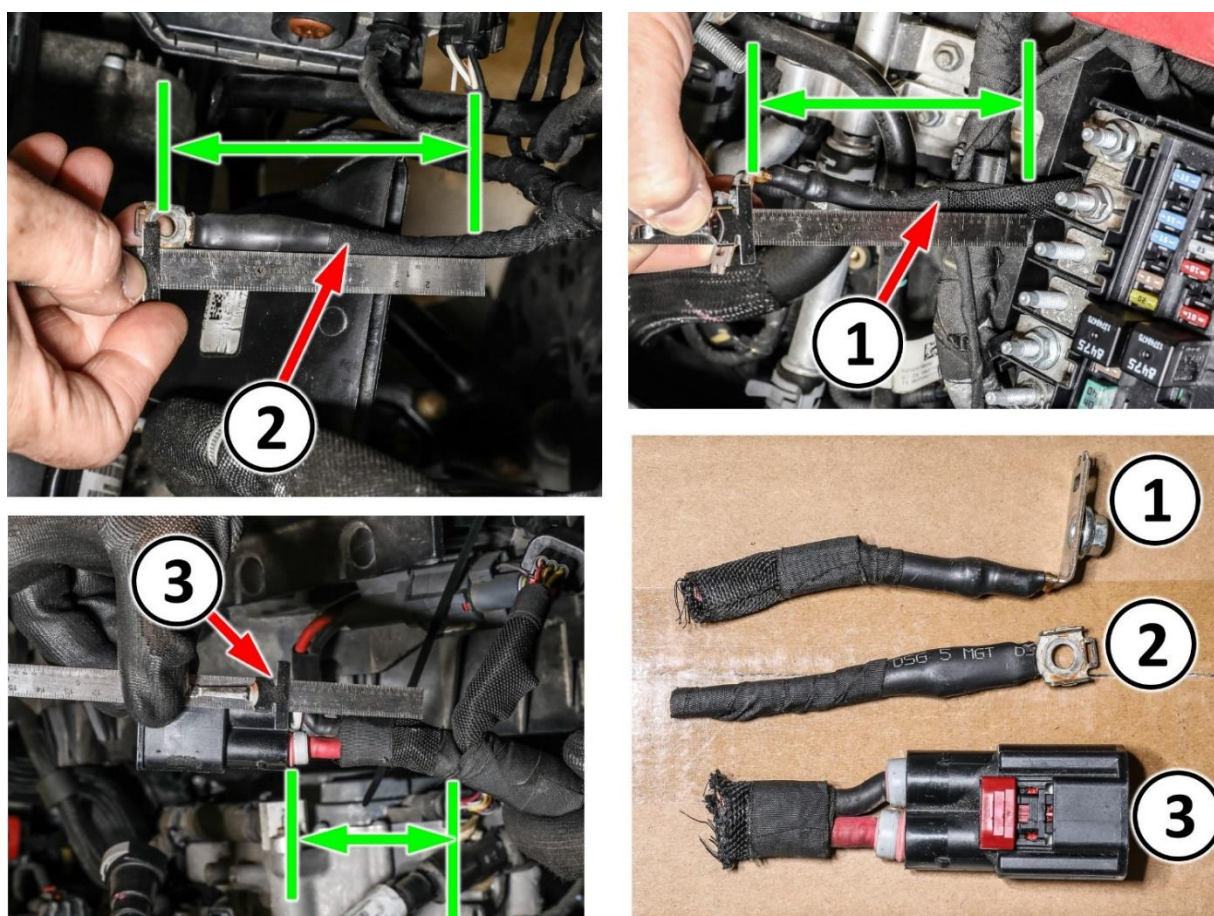


Figure B15 – Remove EHPS Wire Harness Terminals

- 1 – EHPS power supply eyelet D6630J
- 2 – EHPS ground eyelet G908A
- 3 – EHPS connector D2704A

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35. Use locally sourced heat shrink tubing to seal the exposed end where EHPS power supply eyelet D6630J was removed (Figure B16).
36. Use locally sourced heat shrink tubing to seal the exposed end where EHPS ground eyelet G908A was removed (Figure B16).
37. Use locally sourced heat shrink tubing to seal the exposed ends where EHPS connector D2704A was removed (Figure B16).

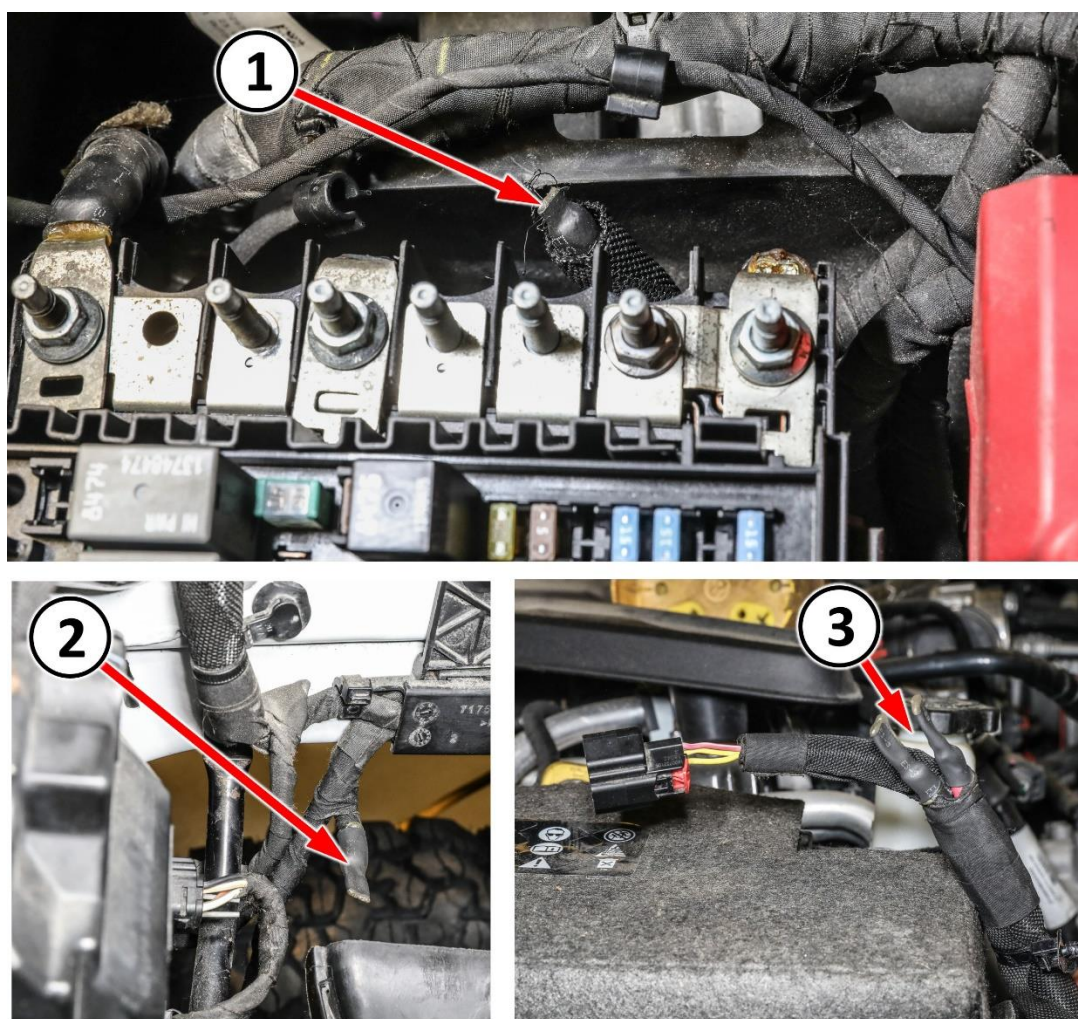


Figure B16 – Seal Exposed Ends of Cut EHPS Wires

- 1 – EHPS power supply eyelet D6630J
- 2 – EHPS ground eyelet G908A
- 3 – EHPS connector D2704A

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38. Obtain the **NEW** EHPS overlay harness and position it in the engine compartment following the routing path of the original harness (Figure B17).

NOTE: Do not attach anything permanently at this point.

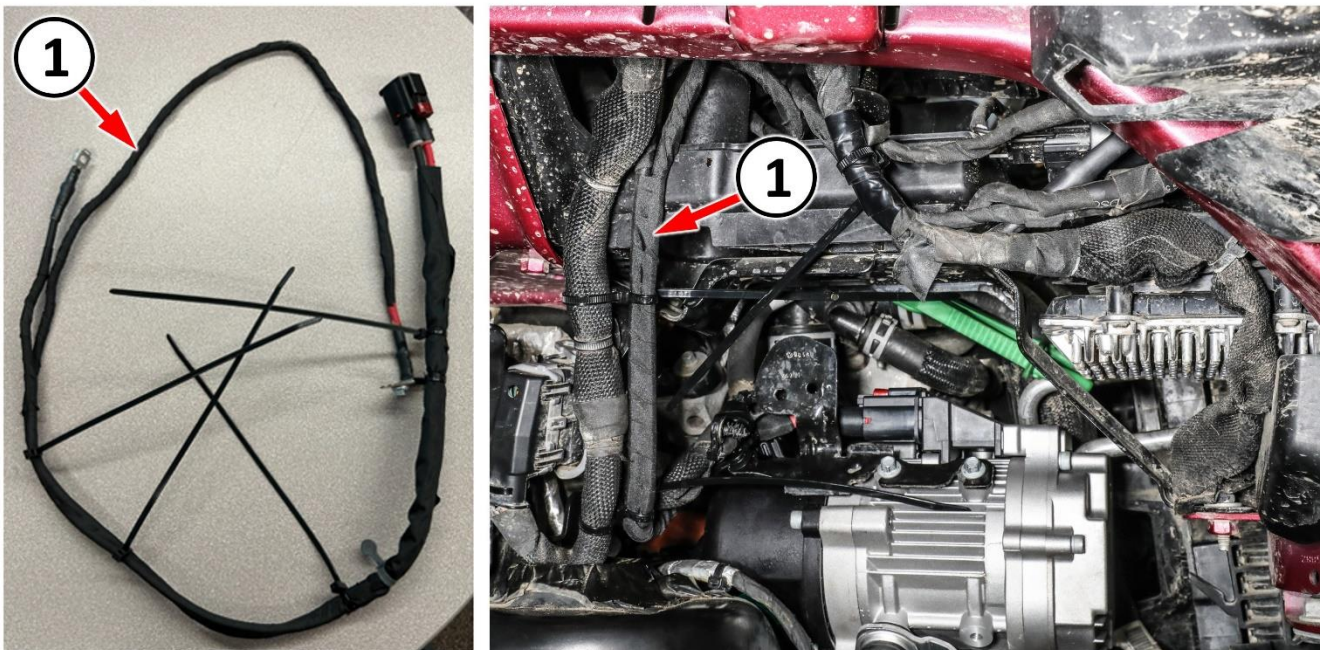


Figure B17 – EHPS Overlay Harness

1 - EHPS Overlay Harness

39. Position the **NEW** EHPS pump with reservoir attached into the vehicle.
40. Install the EHPS pump frame bracket bolts and tighten to 29 N·m (21 Ft. Lbs.) (Figure B12).
41. Align the wire harness bracket and install and tighten the bolts securely (upper image in Figure B12). For 3.0L, connect the electrical connector (lower image in Figure B12).
42. Install the EHPS pressure pipe to the EHPS pump then install the EHPS pump pressure pipe bolt (Figure B9). Tighten the pressure pipe bolt to:
2024 and prior: 20 N·m (15 Ft. Lbs.)
2025 and later: 25 N·m (18 Ft. Lbs.)
43. Connect the return hose to the EHPS pump and secure with the hose clamp (Figure B9).
44. Reinstall the power steering pump reservoir and tighten the bolt to 5 N·m (44 In. Lbs.) (Figure B1).

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NOTE: When two fir tree clips exist in the same location on both the new EHPS overlay harness and original EHPS harness, remove the old fir tree clip in favor of using the new fir tree clip (Figure B18).

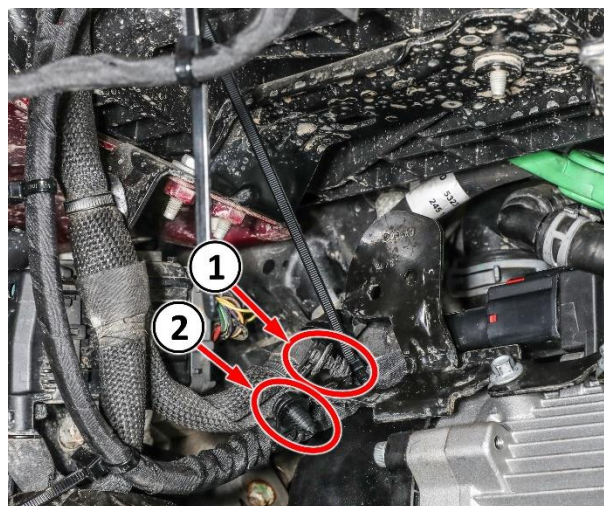


Figure B18 – Fir Tree Clips

45. Install the EHPS wire harness fir tree clip to the EHPS pump/pump bracket (Figure B19).

1 – Old Fir Tree Clip
2 – New Fir Tree Clip

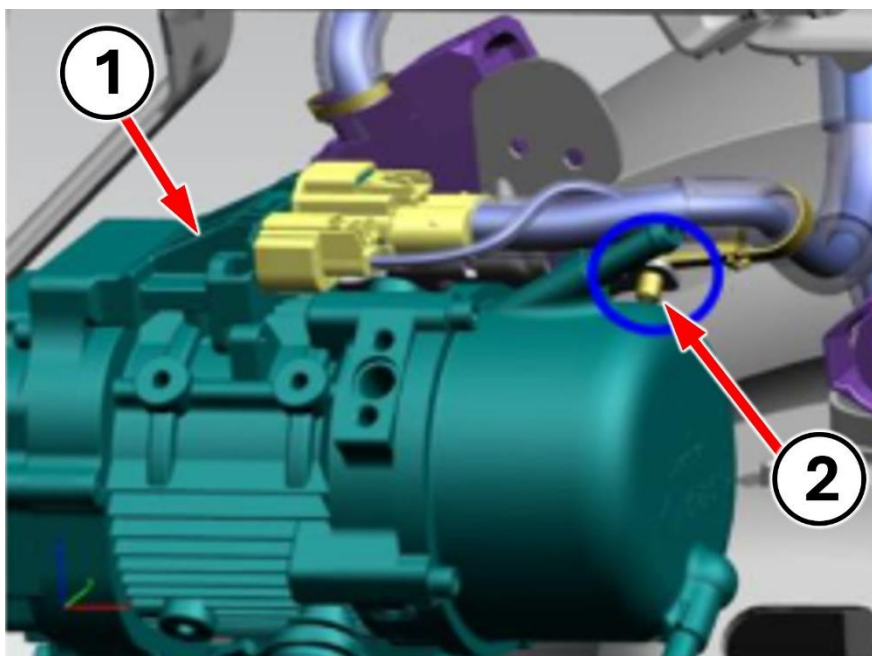


Figure B19 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - Power Steering Pump
2 – Wire Harness Retainer

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46. Connect the electrical connectors to the EHPS pump then engage the red CPA connector latch in locked position (Figure B20). Verify connection with Push-Pull-Push on connector, not on circuits.
47. Secure overlay to existing EHPS dash wiring bundle with double tie strap clip while making sure overlay is not in direct contact with sharp edges.

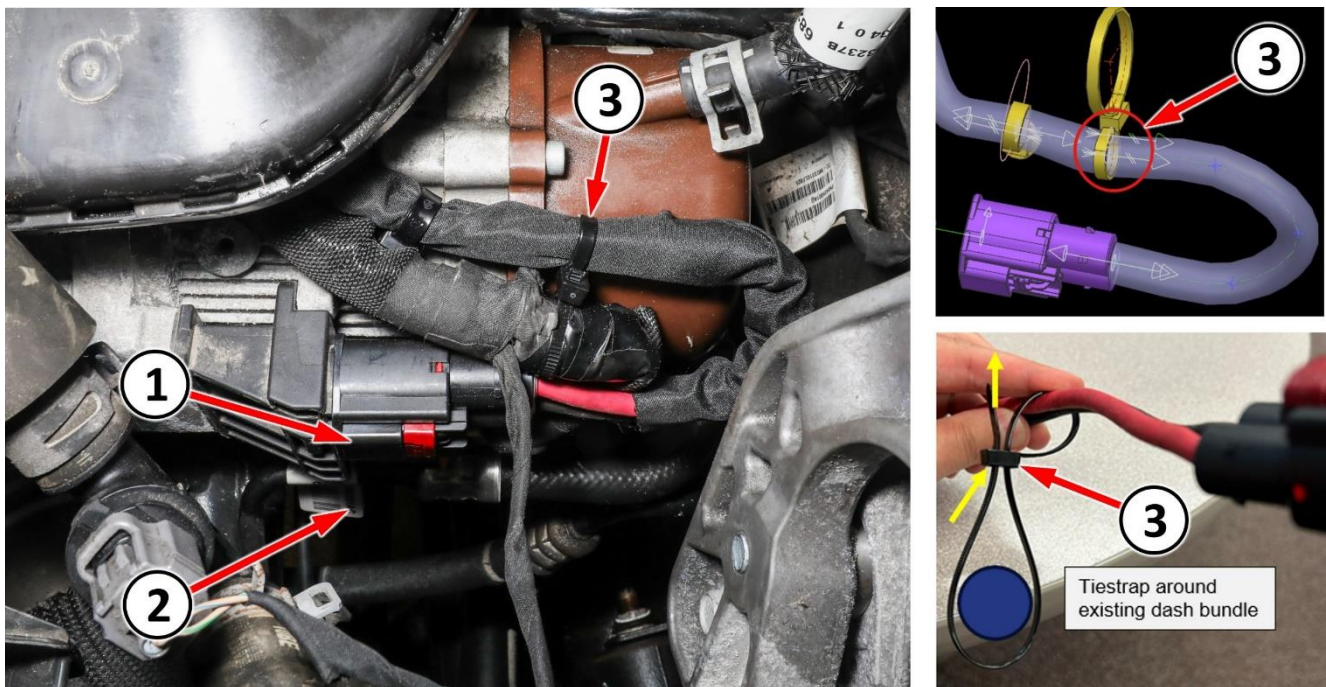


Figure B20 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - 3way connector D2704B
- 2 – 2way connector D2704A
- 3 – Tie Strap

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Reference: 21D / NHTSA 26V-363

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48. Route remainder of EHPS service overlay jumper along existing dash harness bundle routing, securing double tie strap clips to existing dash harness wiring bundle. Make sure overlay is not in direct contact with sharp edges (Figure B17).
49. Loop and secure with cable tie or black electrical any excess overlay jumper wire length outboard of PDC (Figure B21).

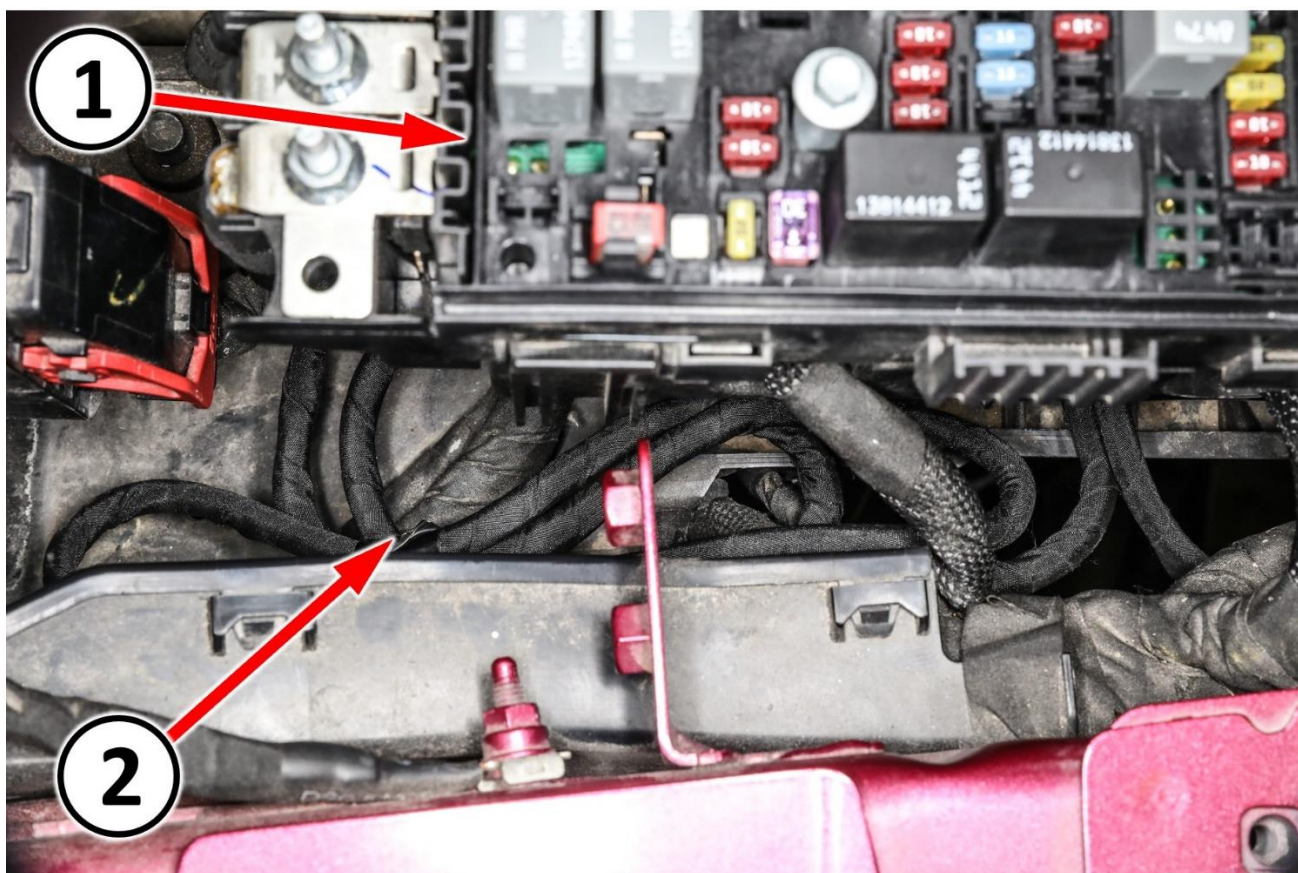


Figure B21 – Power Steering Pump Wire Harness Overlay Routing

1 - PDC

2 – Excess Wire Harness

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Reference: 21D / NHTSA 26V-363

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50. Place EHPS service overlay jumper D6630J EHPS power eyelet on post #6 on the PDC and torque nut to 9 N·m (80 In. Lbs.) (Figure B14).
51. Place EHPS service overlay jumper ground G908A over ground stud eyelet previously removed and torque ground stud nut to 15 Newton-meters 15 N·m (11 Ft. Lbs.) (Figure B13).
52. Install the wheelhouse splash shield. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **23 - Body / Exterior / SHIELD, Splash, Front Wheelhouse / Installation.**
53. Lower the vehicle. For 3.0L vehicle, install the CAC hose (Figure B6).
54. Install the power steering pump reservoir and tighten the bolt to 5 N·m (44 In. Lbs.). For 3.0L diesel, install the retaining bolt and relocate the glow plug relay (Figure B1) (Figure B1).
55. Power up the battery system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.**
56. Refill the power steering system with fluid. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **19 - Steering / Standard Procedure / power steering system bleeding.**
57. Do not scrap the power steering pump or cut wire harness ends. These parts may be requested back for further analysis at the Quality Engineering Center (QEC) for review.
58. Return vehicle to customer or inventory.

C. JL with 2.0L Internal Combustion Engine (ICE) – Right Hand Drive (RHD)
JL with 3.6L Internal Combustion Engine (ICE) – Right Hand Drive (RHD)

NOTE: The wiTECH scan tool must be used to perform this Recall. The wiTECH software is required to be at the latest release level before performing this procedure.

1. Connect the wiTECH MDP to the vehicle data link connector.
2. Place the ignition in the “**RUN**” position.
3. Open the wiTECH 2.0 website.
4. Enter your “**User id**” and “**Password**” and your “**Dealer Code**”, then select “**Sign In**” at the bottom of the screen. Click “**Accept**”.
5. From the “**Vehicle Selection**” screen, select the vehicle to be updated.
6. From the “**Action Items**” screen, select the “**Topology**” tab.
7. Click “**View DTCs**” and inspect for Diagnostic Trouble Code (DTC) U0131 - lost communication with power steering control module “A”.
 - **YES - DTC is present.** Power steering pump replacement and wire harness overlay installation will be required. No further inspection required. Continue with the following steps while skipping those related to inspection.
 - **NO - DTC is NOT present.** Continue performing the following inspection process.
8. Place the ignition in the “**OFF**” position and then remove the wiTECH micro pod II / MDP device from the vehicle.
9. Remove the “clean air hose” or “air cleaner resonator” depending on engine. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **09 – Engine / Air Intake System / HOSE, Clean Air / Removal** or **09 - Engine, 3.6L / Air Intake System / RESONATOR, Air Cleaner / Removal**.
 - **NOTE: It is not necessary to disconnect the electrical wire connectors, the hose/resonator may be positioned aside with wires still attached.**

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Electric Hydraulic Power Steering Pump

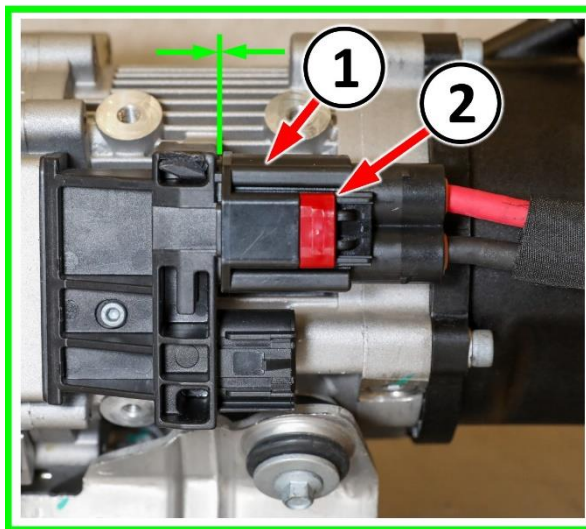
Reference: 21D / NHTSA 26V-363



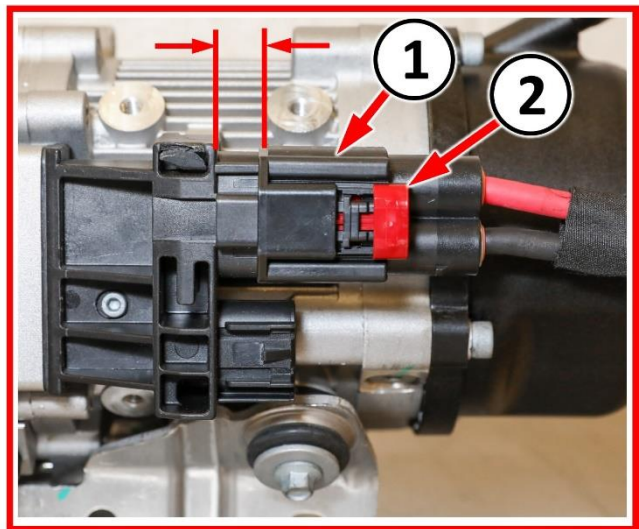
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10. **DTC U0131 NOT present:** Perform the following electrical connector inspection steps.

- a. Visually verify Electric Hydraulic Power Steering (EHPS) connector is fully mated to the pump interface with CPA fully engaged on the connector latch. If electrical connector is not fully mated or CPA is not engaged, take photos to attach to repair claim (Figure C1).



**Electrical Connector and CPA
Fully Engaged, No Gap**



**Electrical Connector and/or CPA
Not Fully Engaged, Gap Observed**

Figure C1 – EHPS Electrical Connector and Connector Position Assurance (CPA)

1 - EHPS Electrical Connector

2 - Connector Position Assurance (CPA)

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- b. Grasp the EHPS connector ONLY (not the wires) and pull to determine if it is securely connected to the EHPS pump. If connector releases, take photos to attach to repair claim. If connector does not detach, push on connector to ensure it is fully seated (Figure C2).

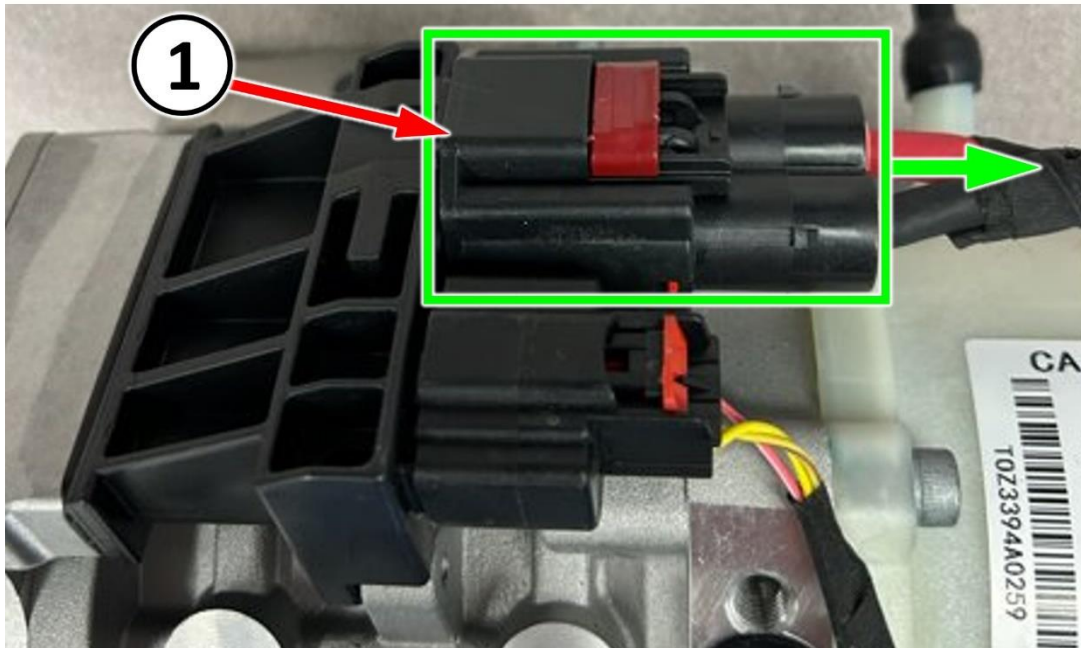


Figure C2 – EHPS Electrical Connector Pull Test

1 - EHPS Electrical Connector

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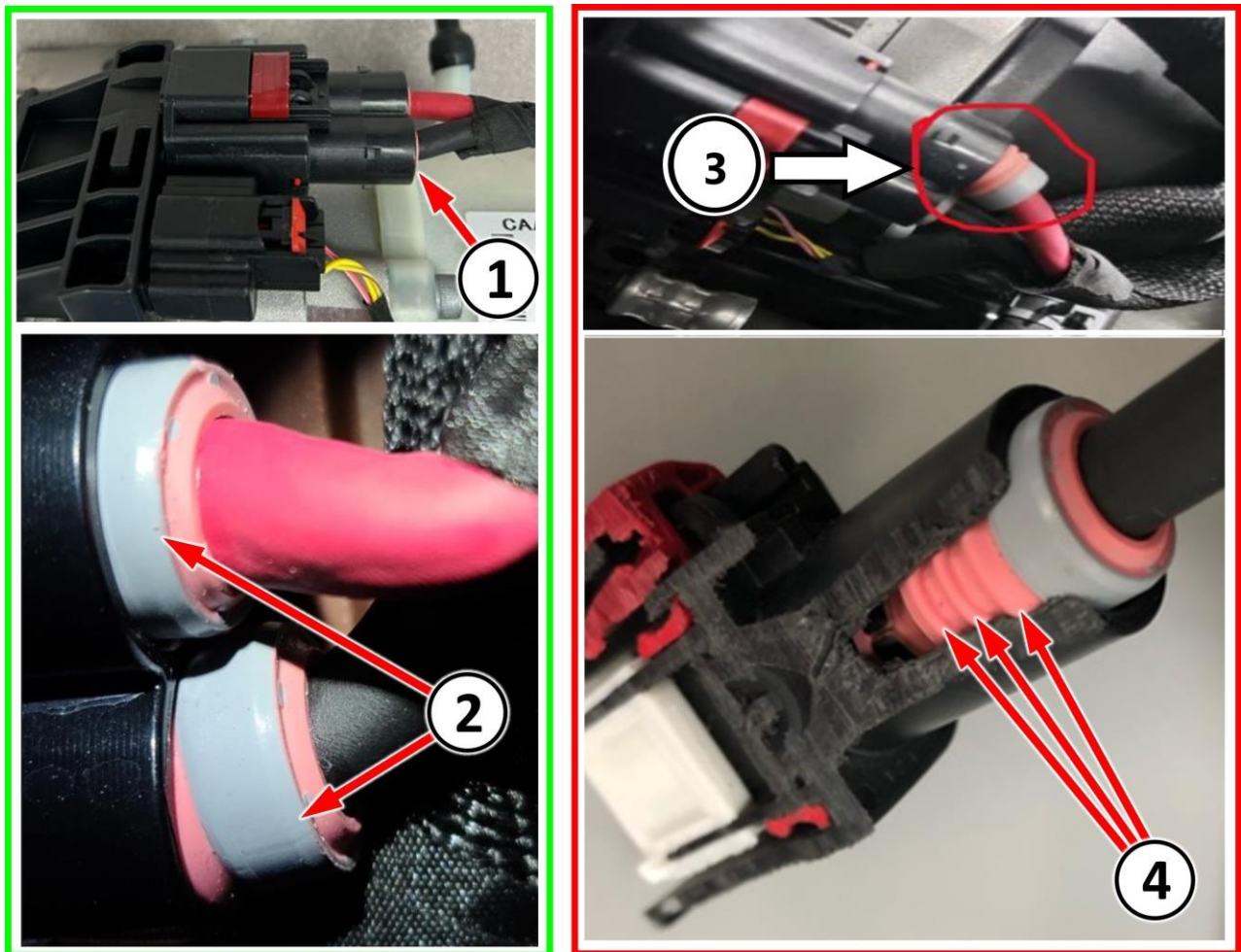
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- c. Inspect the wire harness for any wires that are not fully inserted into the connector as shown in the following images. If the sealing ribs are exposed, take photos to attach to repair claim (Figure C3).
- d. Visually inspect for any visible damage to harness bundle and EHPS connector. If damage is observed, take photos to attach to repair claim.



Correctly Inserted Terminals - OK

Ribs Exposed - Not OK Condition

Figure C3 – Power Steering Pump Harness Connector Wires

- 1 - Electrical Wires Fully Inserted in Terminal - OK
- 2 - Gray Portion of Seal Protruding Beyond Connector Body – OK
- 3 – Pink Rib(s) Protruding Beyond Connector Body – Not OK
- 4 – Example of Pink Ribs

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11. Were any issues found with EHPS connector or harness connections to the pump or DTC U0131 present?

- **YES:** Power steering pump replacement and wire harness overlay installation will be required. Continue with the service procedure.
- **NO:** If no issues can be found with EHPS electrical connection, ensure wire harness is routed and secured properly (Figure C4). Reinstall the clean air hose or air cleaner resonator depending on engine.
 - **DealerCONNECT/ Service Library under: Service Info> 09 – Engine / Air Intake System / HOSE, Clean Air / Installation or 09 - Engine, 3.6L / Air Intake System / RESONATOR, Air Cleaner / Installation.**
 - Inspection is complete. Return the vehicle to the customer.

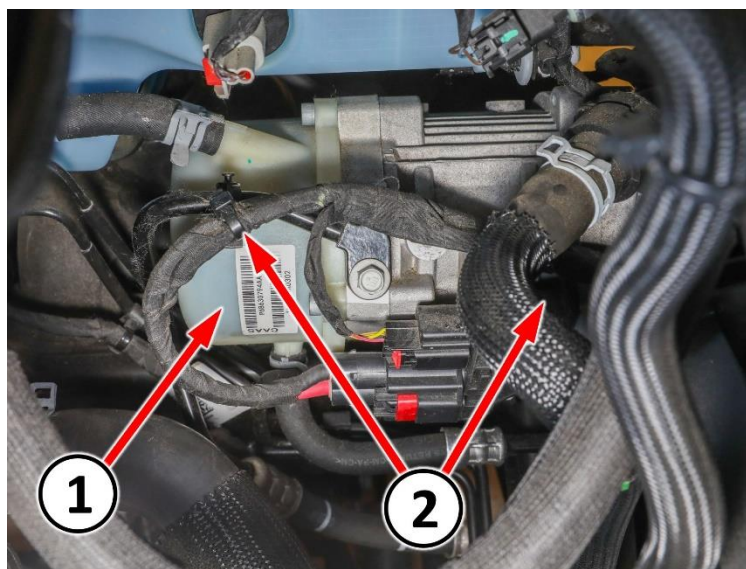


Figure C4 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - Power Steering Pump
- 2 – Wire Harness Retainers

12. Power down the battery system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.**
13. Raise and support the vehicle. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **04 - Vehicle Quick Reference / Hoisting / Standard Procedure.**
14. Remove the Left front wheelhouse splash shield. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **23 – Body / Exterior / SHIELD, Splash / Removal and Installation.**

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15. Remove Disconnect the electrical connectors from the EHPS pump if not already done so, by sliding red CPA back and de-pressing connector latch (Figure C5).
16. Release wire harness retainers from the EHPS pump and pressure tube.
17. Position a drain pan before disconnecting pump hoses and pipes.
18. Remove the EHPS pump pressure pipe bolt and remove the EHPS pressure pipe from the EHPS pump (Figure C5).
19. With the hose clamp released, disconnect the return hose from the EHPS pump (Figure C5).
20. With the hose clamp released, disconnect the supply hose from the EHPS pump and secure the hose end higher than the power steering pump reservoir (Figure C5).
21. Remove the EHPS pump frame bracket bolts (Figure C5).
22. Remove the EHPS pump from the vehicle and aside for return for analysis.

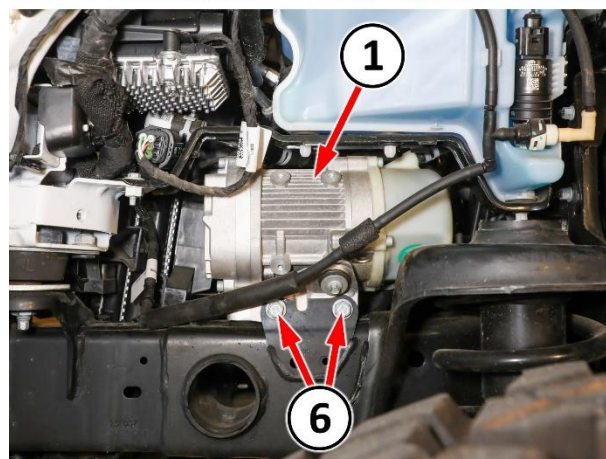
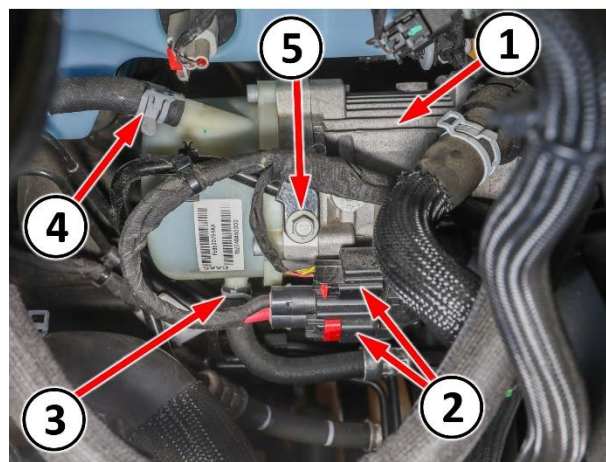


Figure C5 – EHPS Pump

- 1 - EHPS Pump
- 2 - Wire Harness
- 3 - Return Hose Pump
- 4 - Supply Hose
- 5 - Pressure Pipe Bolt
- 6 - EHPS Pump Frame Bracket Bolts

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23. Locate EHPS ground G908A on body of vehicle near the left-side headlamp on one of three studs (Figure C6). NOTE: The EHPS ground connection is often located on the lower stud but may vary depending on vehicle build configuration so MUST be verified.
24. Remove the ground nut and eyelet off the stud then verify continuity with a multimeter between G908A ground eyelet and EHPS connector D2704A cavity 1 black wire. Also verify the EHPS ground circuit is isolated from chassis ground (Figure C6). NOTE: If a continuity reading is still present between the EHPS ground circuit wire and chassis ground, the wrong wire has been selected.

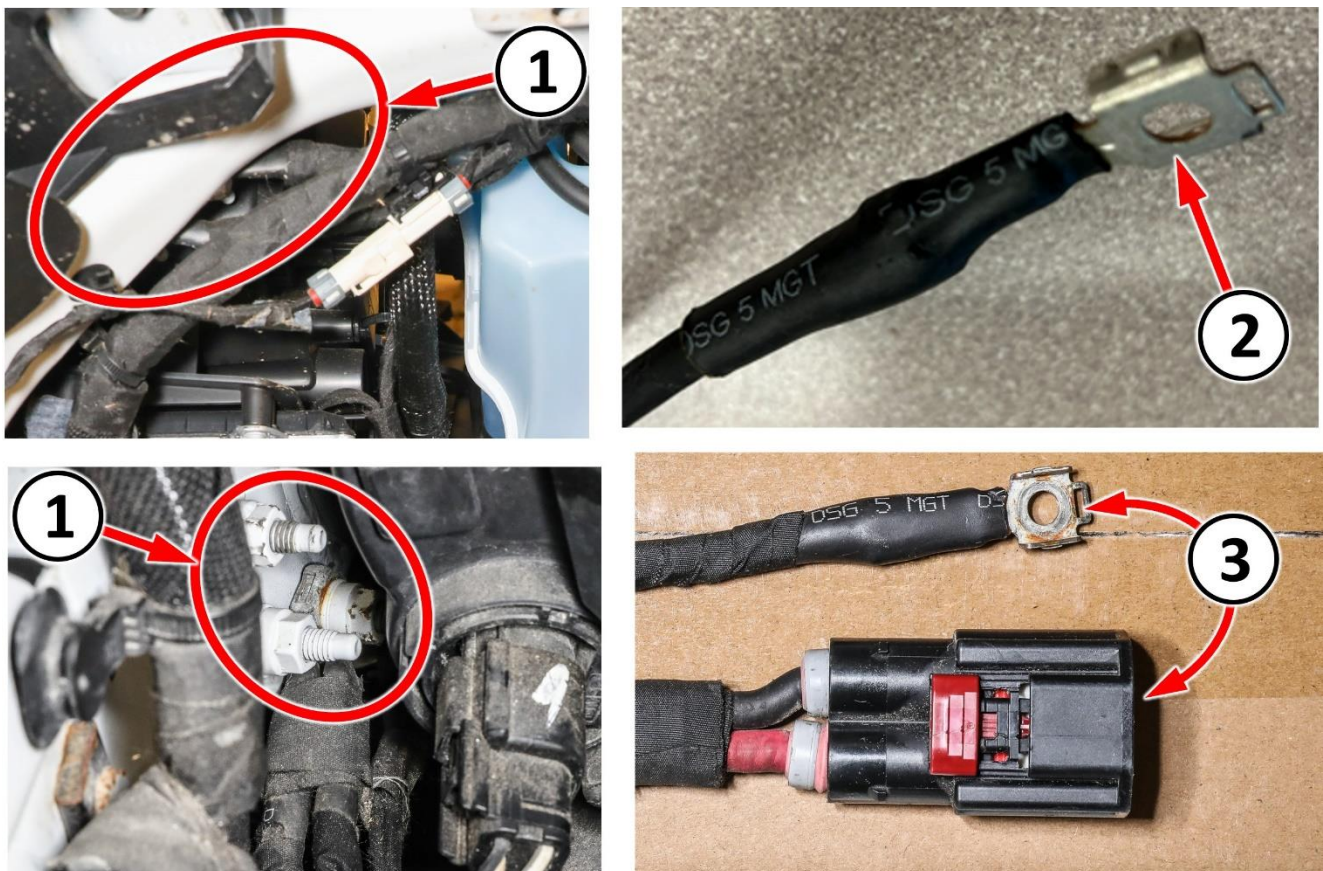


Figure C6 – EHPS ground G908A - Near Left Side Headlamp

- 1 - EHPS ground G908A general location on vehicle body
- 2 – EHPS ground G908A
- 3 – Verify continuity with a multimeter (also verify circuit isolation from chassis ground)

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25. Remove the cover from the Power Distribution Center (PDC) under hood fuse box.
26. Locate the EHPS power supply eyelet D6630J on post #6 and remove eyelet off or the stud (Figure C7).
27. Verify continuity with multimeter between D6630J eyelet and D2704A connector cavity 2 red wire. Also verify the EHPS power circuit is isolated from the vehicle power circuit (Figure C7). NOTE: If a continuity reading is still present between the EHPS power circuit wire and other vehicle power circuits, the wrong wire has been selected.

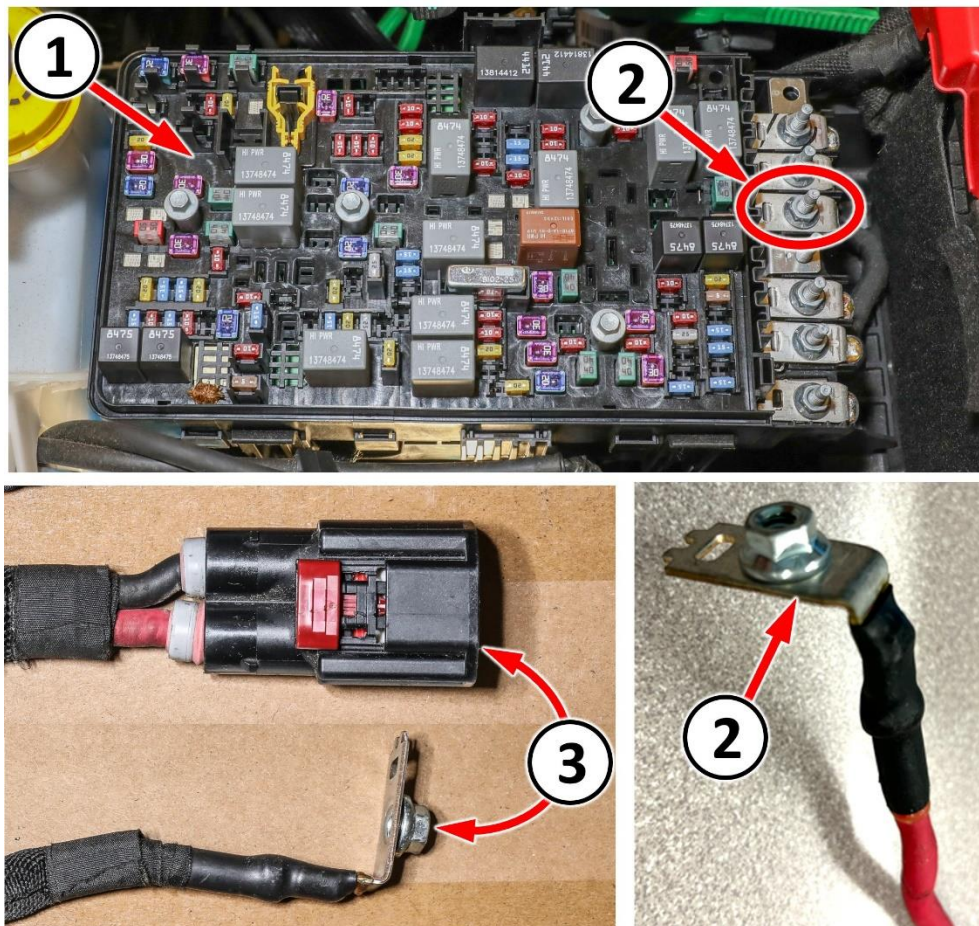


Figure C7 – EHPS Power Supply Eyelet D6630J in PDC

- 1 - PDC
- 2 – EHPS power supply eyelet D6630J
- 3 – Verify Continuity with a Multimeter (also verify circuit Isolation from other vehicle power circuit)

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28. After verification, cut EHPS power supply eyelet D6630J approximately 4 inches behind eyelet 90-degree bend and set aside for return for analysis (Figure C8).
29. After verification, cut ground eyelet G908A approximately 4 inches behind center of eyelet hole and set aside for return for analysis (Figure C8).
30. Cut 2way EHPS connector D2704A approximately 4 inches behind connector body taking special care not to cut through 3way connector D2704B circuits. Set aside for return for analysis (Figure C8).

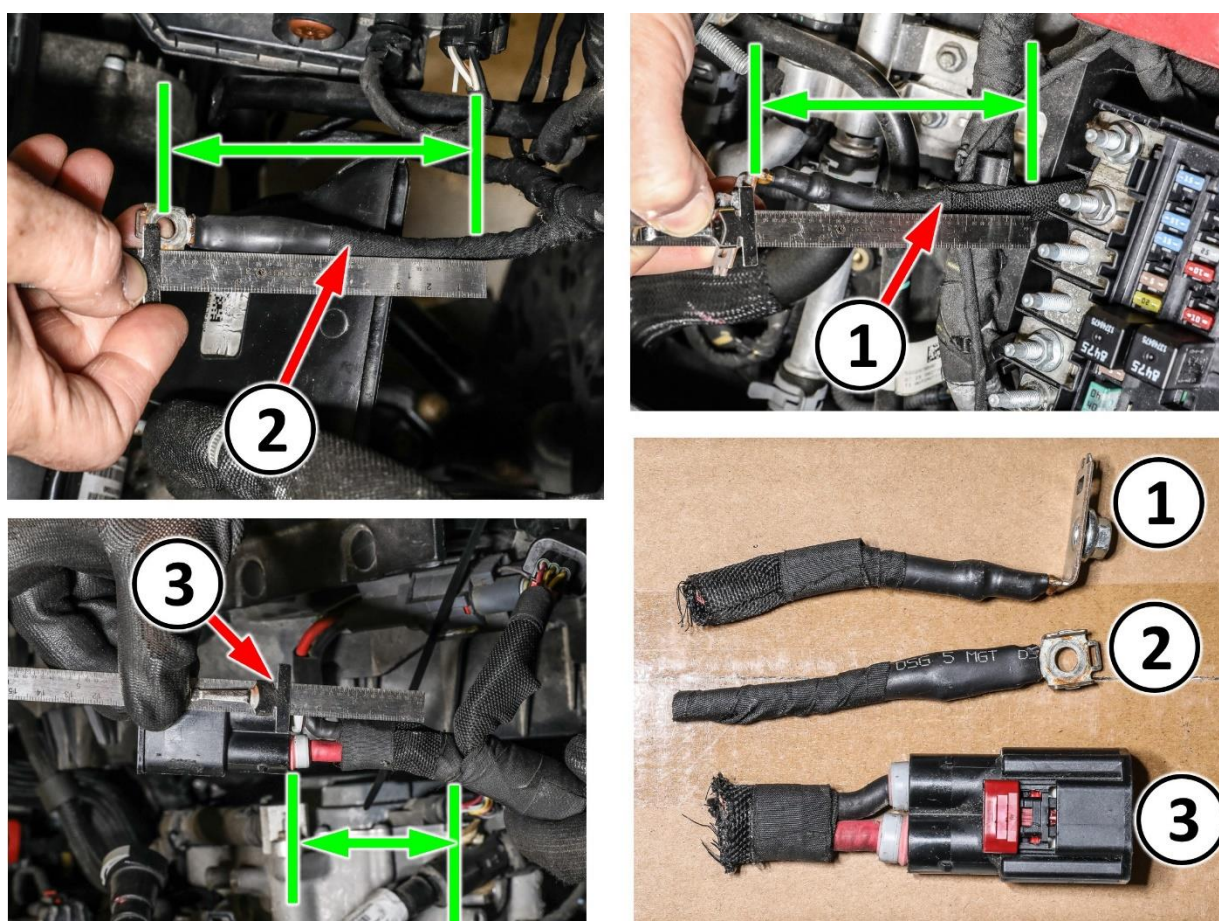


Figure C8 – Remove EHPS Wire Harness Terminals

- 1 – EHPS power supply eyelet D6630J
- 2 – EHPS ground eyelet G908A
- 3 – EHPS connector D2704A

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31. Use locally sourced heat shrink tubing to seal the exposed end where EHPS power supply eyelet D6630J was removed (Figure C9).
32. Use locally sourced heat shrink tubing to seal the exposed end where EHPS ground eyelet G908A was removed (Figure C9).
33. Use locally sourced heat shrink tubing to seal the exposed ends where EHPS connector D2704A was removed (Figure C9).

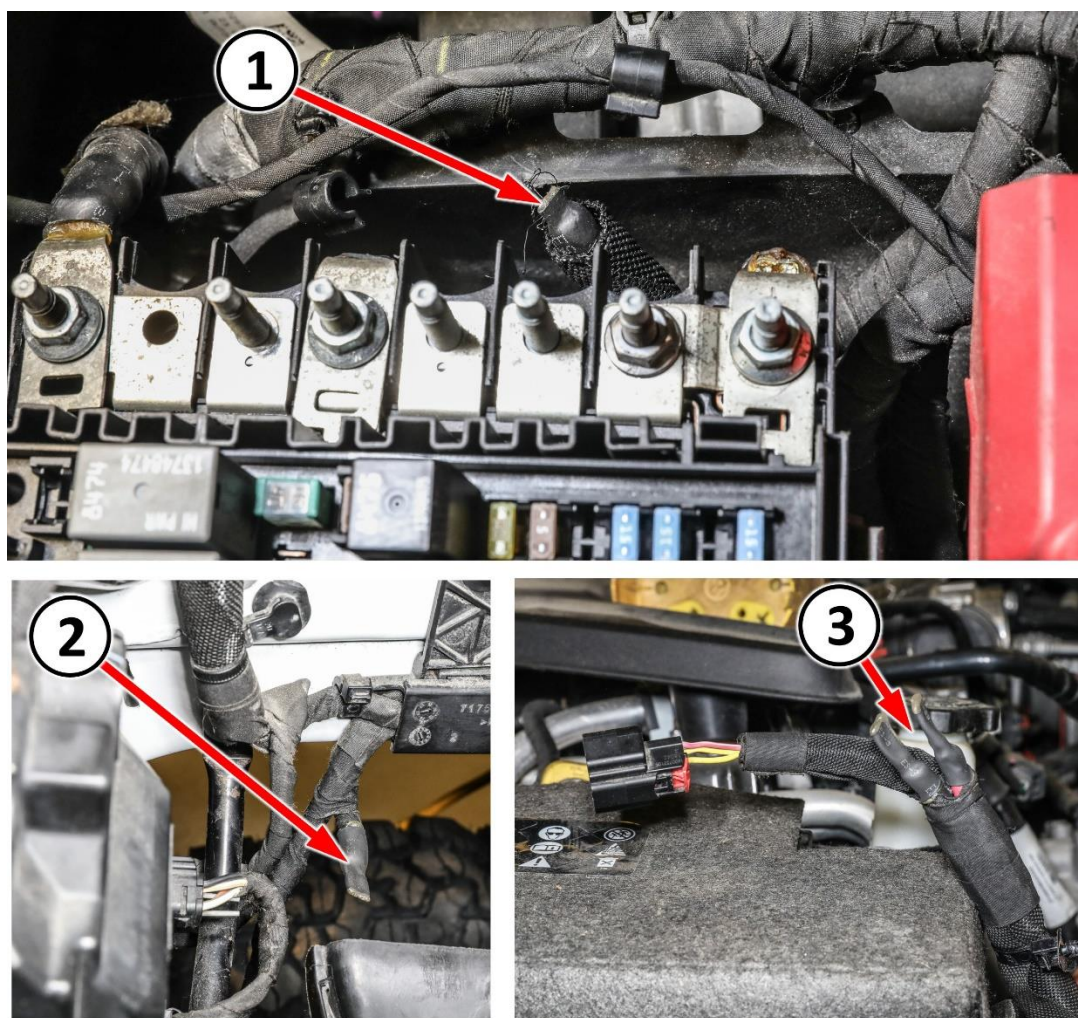


Figure C9 – Seal Exposed Ends of Cut EHPS Wires

- 1 – EHPS power supply eyelet D6630J
- 2 – EHPS ground eyelet G908A
- 3 – EHPS connector D2704A

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34. Obtain the **NEW** EHPS overlay harness and position it in the engine compartment following the routing path of the original harness (Figure C10).

NOTE: Do not attach anything permanently at this point.

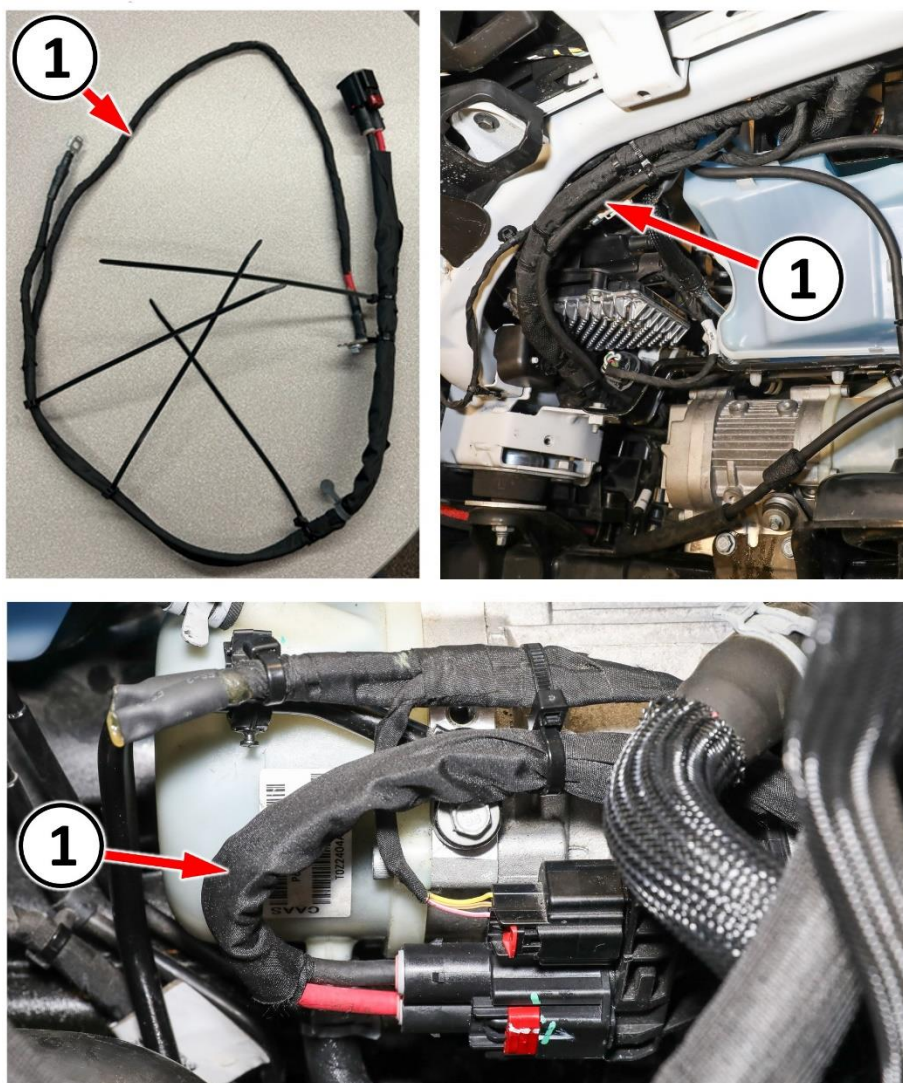


Figure C10 – EHPS Overlay Harness

1 - EHPS Overlay Harness

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35. Obtain the **NEW** EHPS pump and position it in the vehicle (Figure C11).

36. Install the EHPS pump frame bracket bolts and tighten to 29 N·m (21 Ft. Lbs.) (Figure C11).

37. Connect the supply hose to the EHPS pump and secure with the hose clamp (Figure C11).

38. Connect the return hose to the EHPS pump and secure with the hose clamp (Figure C11).

39. Install the EHPS pressure pipe to the EHPS pump then install the EHPS pump pressure pipe bolt (Figure C11). Tighten the pressure pipe bolt to:
2024 and prior: 20 N·m (15 Ft. Lbs.)
2025 and later: 25 N·m (18 Ft. Lbs.)

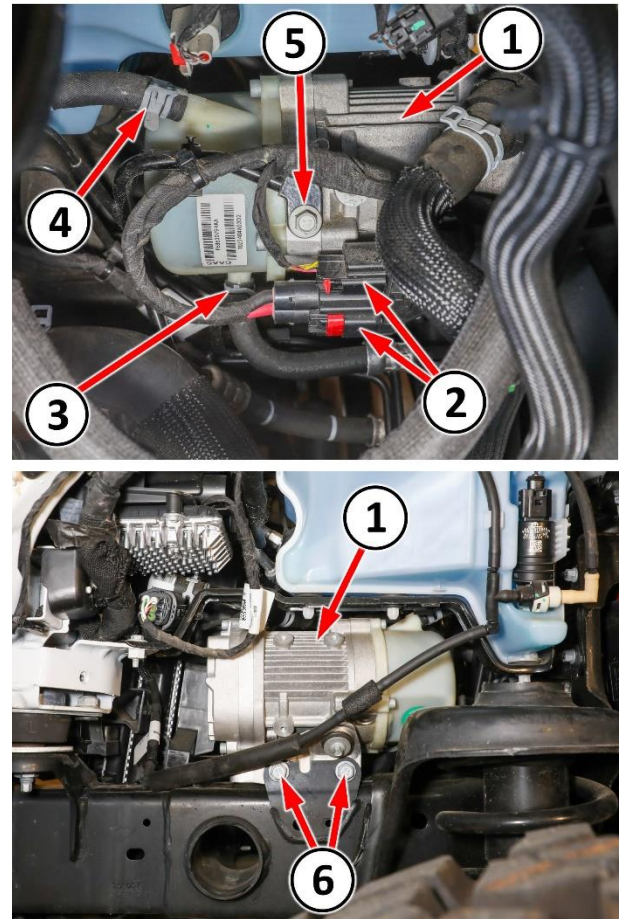


Figure C11 – EHPS Pump

- 1 - EHPS Pump
- 2 - Wire Harness
- 3 - Return Hose Pump
- 4 - Supply Hose
- 5 - Pressure Pipe Bolt
- 6 - EHPS Pump Frame Bracket Bolts

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40. Install the EHPS wire harness retainers to the EHPS pump and pressure tube (Figure C12).
41. Connect the electrical connectors to the EHPS pump then engage the red CPA connector latch in locked position (Figure C12). Verify connection with Push-Pull-Push on connector, not on circuits.
42. Secure overlay to existing EHPS dash wiring bundle with double tie strap clip while making sure overlay is not in direct contact with sharp edges.

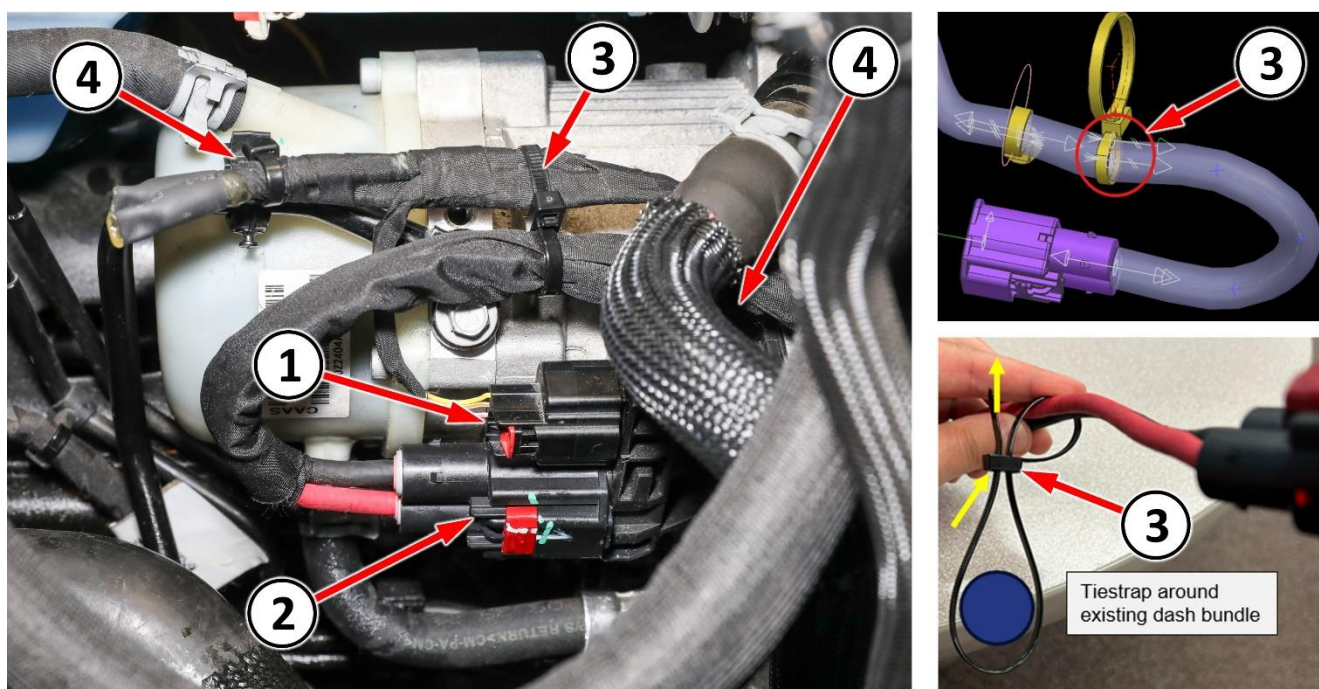


Figure C12 – Power Steering Pump Wire Harness Routing and Clipping

- 1 - 3way connector D2704B
- 2 – 2way connector D2704A
- 3 – Tie Strap
- 4 – Wire Harness Retainers

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43. Route remainder of EHPS overlay harness along existing dash harness bundle routing, securing double tie strap clips to existing dash harness wiring bundle. Make sure overlay is not in direct contact with sharp edges. Reference routing pictures below (Figure C13).

44. Loop and secure with cable tie or black electrical any excess overlay jumper wire length outboard of PDC.

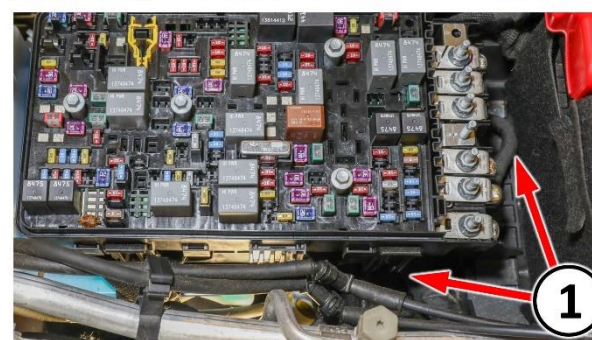
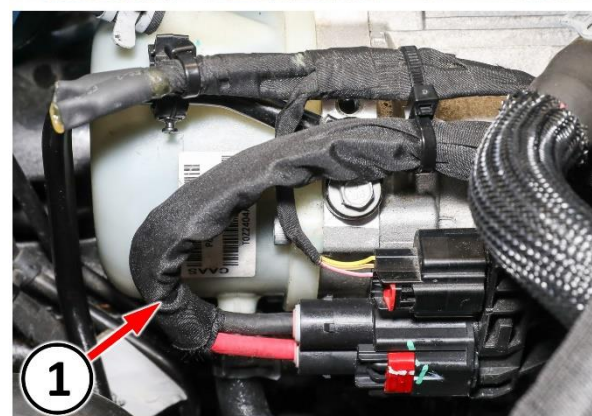
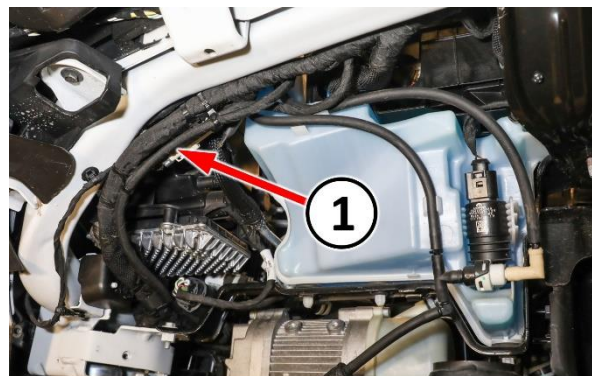


Figure C13 – Harness Routing

1 – Overlay Harness

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45. Place EHPS service overlay jumper D6630J EHPS power eyelet on post #6 on the PDC and torque nut to 9 N·m (80 In. Lbs.) (Figure C09).
46. Place EHPS service overlay jumper ground G908A over ground stud eyelet previously removed and torque ground stud nut to 15 N·m (11 Ft. Lbs.) (Figure C08).
47. Install the wheelhouse splash shield. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **23 - Body / Exterior / SHIELD, Splash, Front Wheelhouse / Installation**
48. Install the "clean air hose" or "air cleaner resonator" depending on engine. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **09 – Engine / Air Intake System / HOSE, Clean Air / Installation or 09 - Engine, 3.6L / Air Intake System / RESONATOR, Air Cleaner / Installation.**
49. Power up the battery system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.**
50. Refill the power steering system with fluid. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> **19 - Steering / Standard Procedure / power steering system bleeding.**
51. Do not scrap the power steering pump or cut wire harness ends. These parts may be requested back for further analysis at the Quality Engineering Center (QEC) for review.
52. Return vehicle to customer or inventory.