

**NUMBER: 390120002.02****MODEL: Karma****DATE: February 9, 2012****MODEL YEAR: 2012****TITLE: HV DC Power Cable Inspection****PRIORITY:**

Vehicles in Operation

APPLICABILITY:

2012 Karma

MARKET REGION:

U.S., Canada, Europe

PURPOSE:

HV DC Power Cable Connector Inspection – All Fisker Karma vehicles produced prior to VIN# YH4K16AA0CA001042 may have a damaged or improperly installed HV DC generator power cable connector.

This Campaign will be used as a reference guide for technicians to perform necessary inspection for a damaged or improperly seated HV generator cable connector. If connector seal retainer is damaged, contact Fisker TSS for further instructions.

Low Temperature Electronics Coolant Line Routing – Low temperature coolant lines for electronics may be incorrectly routed over the rear sway bar, causing unwanted tension and kink the hose.

Low Temperature HV Battery Coolant Line Clearance – HV Battery coolant lines may be coming into contact with shield under generator motor, which can damage the hose.

PROCESS OVERVIEW:

1. HV DC Power Cable Connector Inspection
2. Low Temperature Electronics Coolant Line Routing
3. Low Voltage Isolation Procedure
4. High Voltage Isolation Procedure - MSD
5. Drain Low Temperature Coolant
6. Remove Rear Diffuser Closing Panel
7. Coolant Hose Rerouting
8. Re-Install Rear Diffuser Panel
9. Refill Low Temp Electronics Cooling System
10. Low Temperature HV Battery Coolant Line Clearance

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CAMPAIGN

FISKER AUTOMOTIVE, INC.

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MODEL: Karma

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VIN: All vehicles produced prior to VIN# YH4K16AA0CA001042

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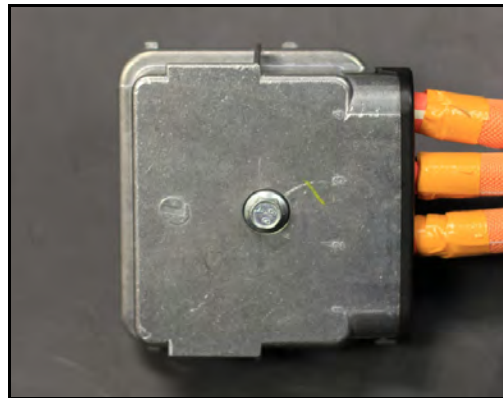
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1. HV DC Power Cable Connector Inspection

HV Battery Connector Examples

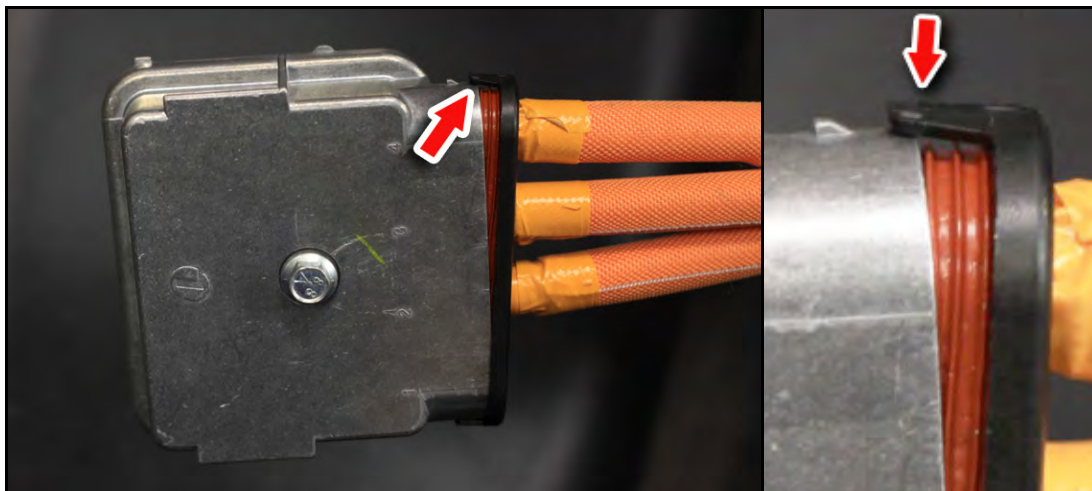
NOTE: Example A is an image of an HV generator battery connector with a properly seated seal retainer.



Example A

NOTE: Example B is an image of an HV generator battery connector with an improperly seated seal retainer, compromising the weatherproof seal.

- If the plastic locking tab (see **red arrow**) is not seated correctly, attempt to re-seat it on connector housing.
- If the plastic locking tab is broken/missing, contact Fisker TSS for further instructions.



Example B

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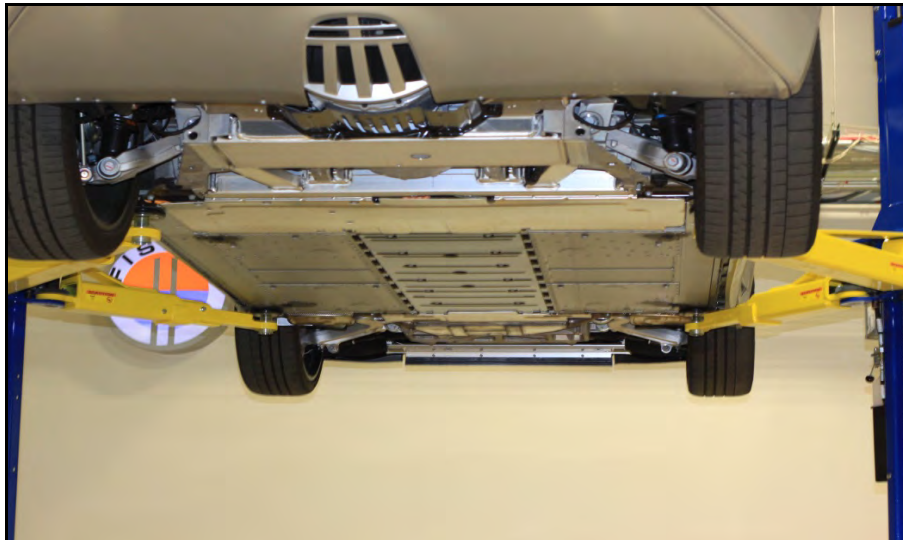


WARNING!

HIGH VOLTAGE (HV) battery contains lethal voltage.

WARNING: Do not touch any exposed electrical wiring (with hands or tools) if the vehicle is switched on or running.

- 1a. Using a lift, elevate the vehicle so that there is full visual access to the HV battery cable connector attached to the generator.



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1b. Inspect the HV DC power cable connector (see arrow in images View 1 and 2). It can be viewed by looking between the exhaust system and front suspension sub-frame on driver's side of vehicle.

NOTE: If the plastic locking tab is broken/missing, contact Fisker TSS for further instructions.



View 1



View 2

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For reference only: Complete HV Inverter 3 (Gen.) HV DC power cable harness

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2. Low Temperature Electronics Coolant Line Routing

There are 2 versions of coolant hoses for the Low Temperature Electronics Coolant System:



Molded type (shown in image above with curved hoses connected to front of coolant pumps).



Non-molded type (shown in image above with straight hoses connected to front of coolant pumps).

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2a. Visually check to confirm hose type (molded or non-molded) by peering through the vents in the rear diffuser closing panel.



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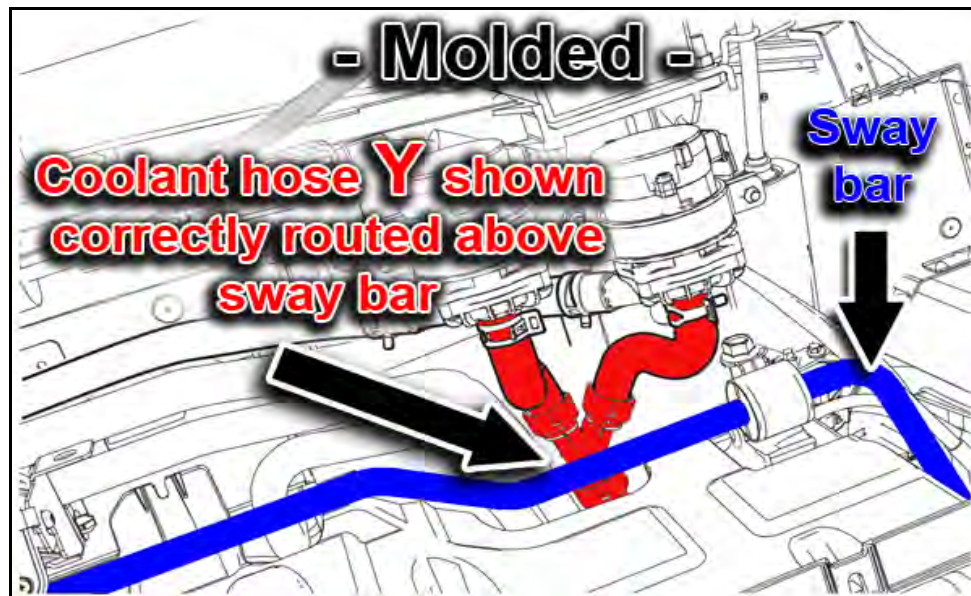
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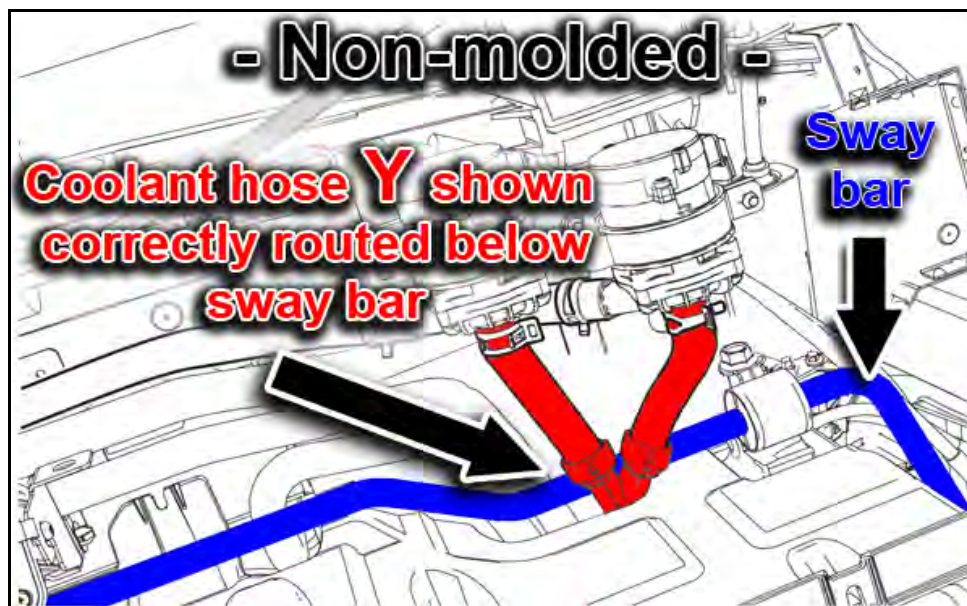
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2b. Inspect for proper rear coolant pump line routing for each type of hose (molded and non-molded).



Proper molded low temperature electronics coolant hose routing (see illustration above).



Proper non-molded low temperature electronics coolant hose routing (see illustration above).

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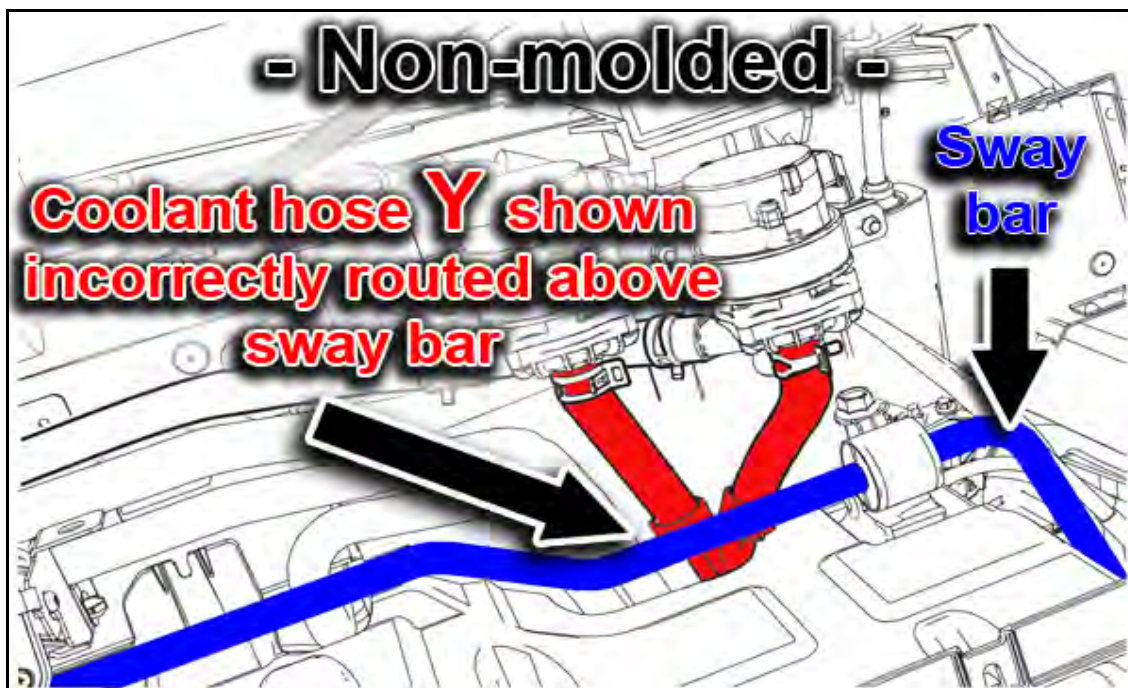
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- If rear coolant hoses are non-molded and they are properly routed under the rear sway bar, go to step 10.
- If rear coolant hoses are non-molded and they are incorrectly installed over the top of the sway bar (as shown in illustration below), continue with following instructions to reroute coolant line.



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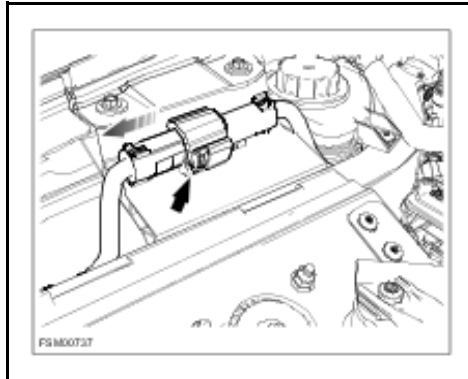
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3. Low Voltage Isolation Procedure

3a. Power down the vehicle. Open the hood and disconnect the 12 Volt battery via connector C104.

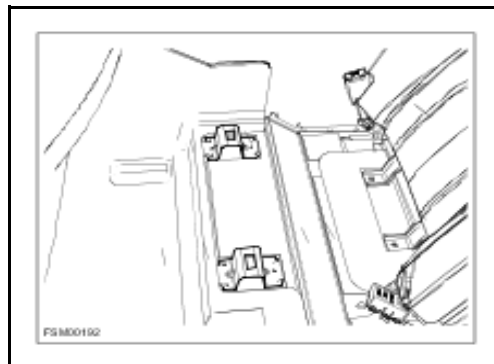


12 Volt Battery Negative Connector C104

4. High Voltage Isolation Procedure - MSD

4a. Remove seat cushion - Rear - LH.

4b. Release clips (x2) from seat cushion leading edge by pulling sharply upwards.



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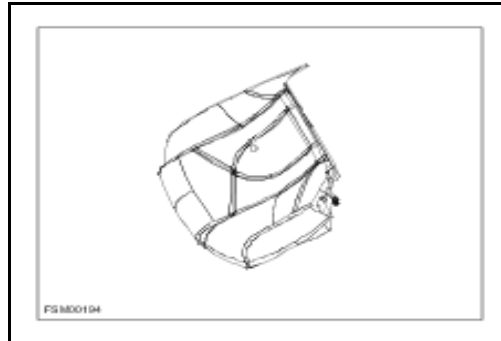
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4c. Disconnect seat harness connector.

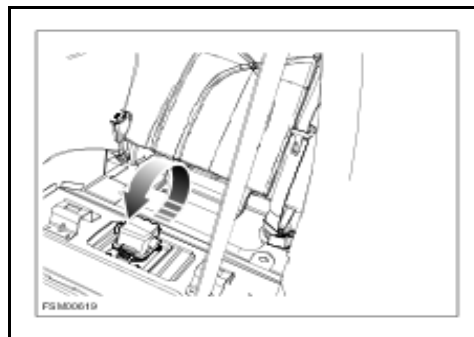


4d. Remove seat cushion.

4e. Release latch pin from Manual Service Disconnect (MSD) latch.

4f. Lift cover for access to MSD plug.

4g. Release clip and remove MSD plug.



WARNING!

Wait 5 minutes for high voltage capacitors to discharge after removal of the Manual Service Disconnect (MSD). Although the battery has been disconnected, residual current may still be present.

NOTE: Verify that the voltage at the Accessory Power Module (APM) has dropped to zero. If 13+ volts are present at the APM, do not continue. Contact Fisker Technical Support.

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5. Drain Low Temperature Coolant

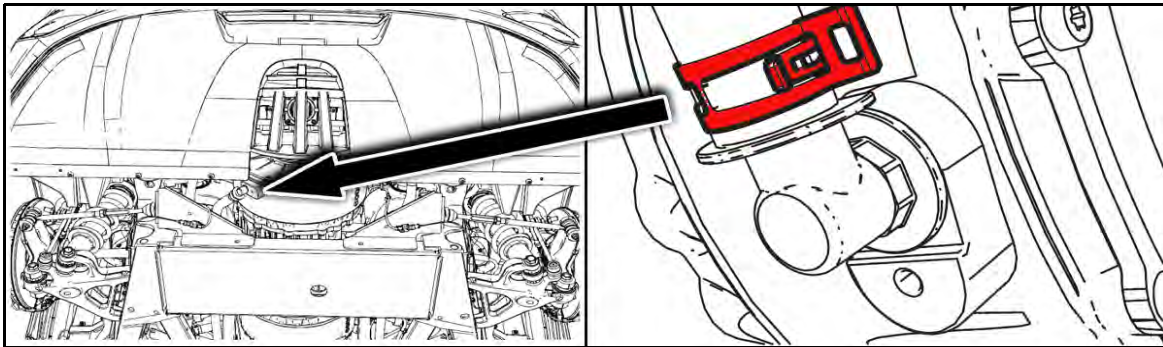


WARNING!

To avoid serious injury, ensure the coolant returns to a safe temperature before commencing work.

NOTE: Position suitable container to contain fluid spillage.

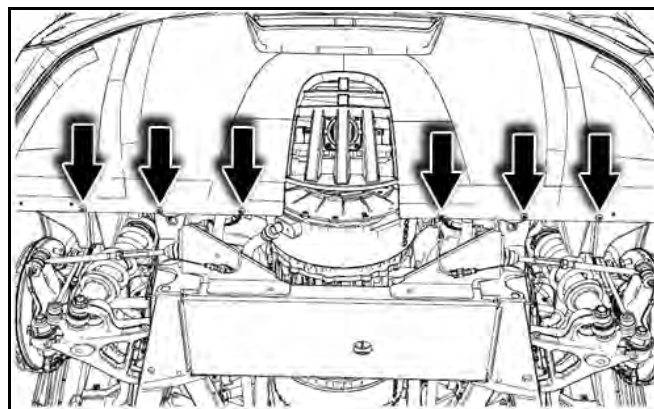
5a. Release hose clamp (red in illustration below) and disconnect rear drive motor coolant hose.



5b. Allow cooling system to drain.

6. Remove Rear Diffuser Closing Panel

6a. Remove screws (x6) securing rear diffuser to closing panel (see illustration below).



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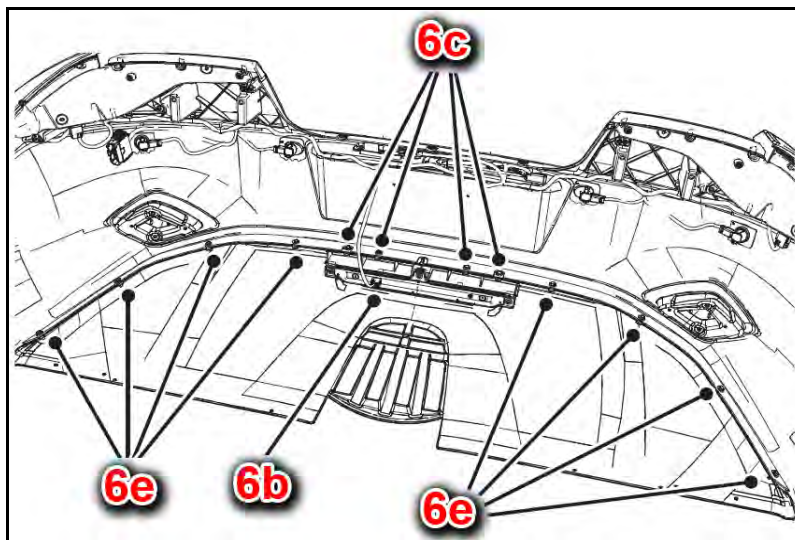
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6b. Disconnect bumper harness connector from fog/reverse lamp (see illustration below).

6c. Remove bolts (x4) securing fog/reverse lamp bracket to rear bumper cover and diffuser (torque 3 Nm) (see illustration below).

6d. Remove fog/reverse lamp bracket to rear diffuser.

6e. Remove bolts (x8) securing diffuser to rear bumper (torque 3 Nm) (see illustration below).



6f. Remove diffuser.

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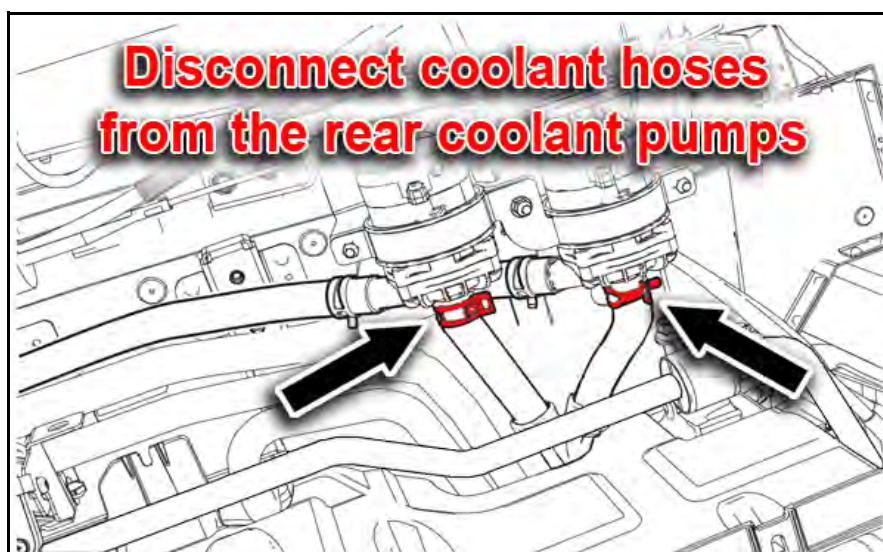
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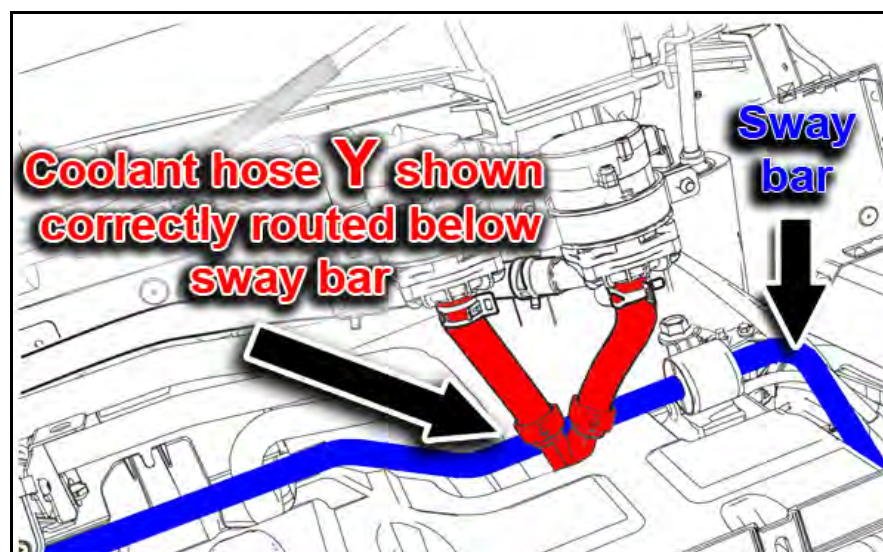
7. Coolant Hose Rerouting

NOTE: Position suitable container to contain fluid spillage.

7a. Release clamps (see illustration below) and disconnect coolant hoses from rear pumps.



7b. Reroute coolant hoses under the rear sway bar (see illustration below).



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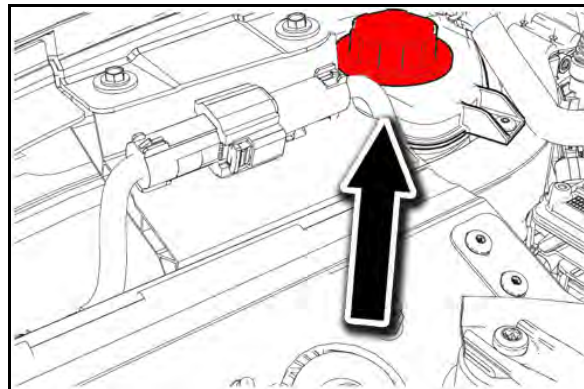
7c. Attach hoses to coolant pumps and install clamps.

8. Re-Install Rear Diffuser Panel

8a. Re-install rear diffuser panel (reverse removal instructions).

9. Refill Low Temp Electronics Cooling System

9a. Remove cap (red in image below) from low temperature electronics coolant reservoir.



9b. Refill until coolant is at upper level mark.



CAUTION:

To prevent damage, do not allow electric pumps to run until sufficient coolant has entered system to facilitate bleeding.

9c. Bleed cooling system.

9d. Check and top off coolant reservoir.

9e. If rerouting the coolant hose was necessary, use labor information on page 20 for the warranty claim submittal.

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10. Low Temperature HV Battery Coolant Line Clearance

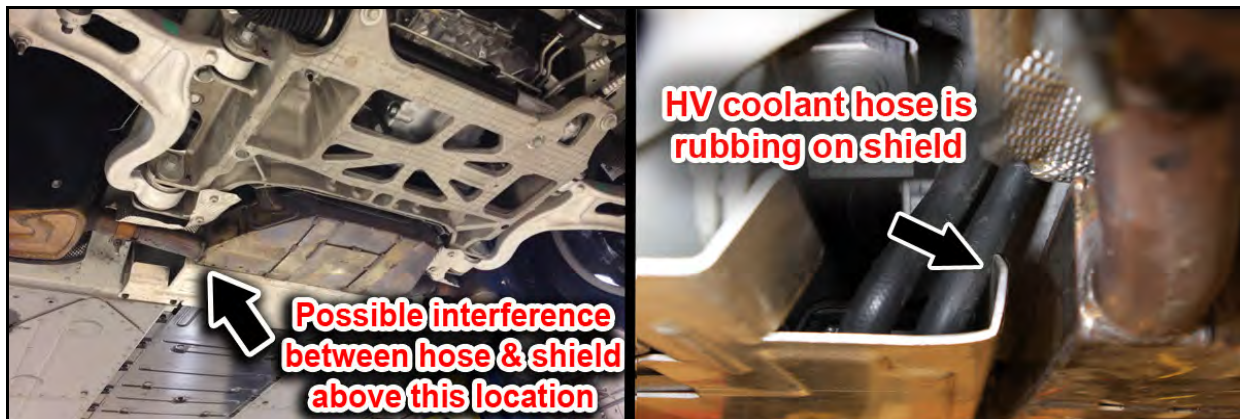


WARNING!

To avoid serious injury, ensure the coolant lines and parts on and around engine return to a safe temperature before commencing work.

10a. Inspect low temperature HV battery coolant line for interference with generator shield (refer to images below).

- If HV battery coolant line is not touching generator shield, no additional repairs are required.
- If HV battery coolant line is touching generator shield (as seen in right image below), continue with following instructions to eliminate interference.



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10b. Bend shield flap forward to give more clearance for coolant hoses as shown in image below.

NOTE: Do not bend shield too far forward or else it will cause interference with muffler and cause rattle.



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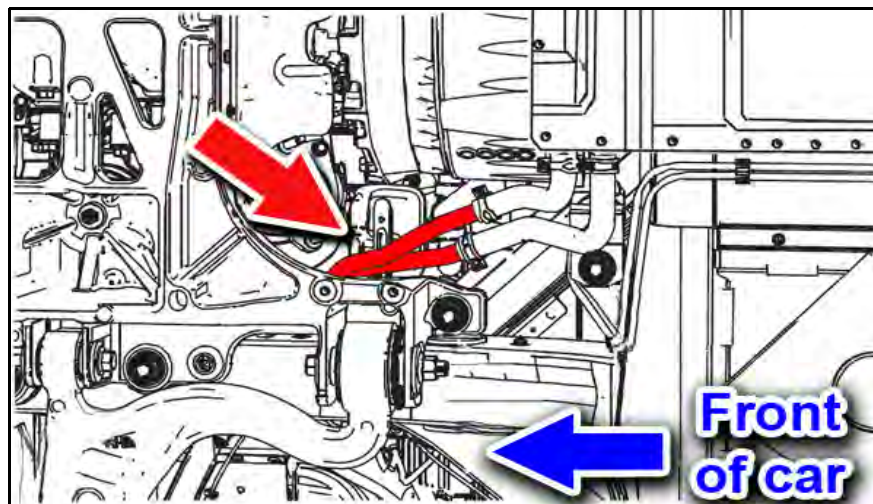
10c. To give additional clearance between coolant hoses and shield, it's possible to slightly bend coolant pipes (see red colored pipes in illustration below) located above muffler assembly.

NOTE: Pipes should not be bent more than a 2 degree angle, or else you can damage them.



WARNING!

Do not bend coolant pipes leading into HV Battery or damage to battery will occur.



Actual image of coolant pipes.

10d. Confirm that the coolant hoses are no longer coming into contact with shield located under generator motor.

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PARTS REQUIRED:

PART NUMBER	DESCRIPTION
N/A	

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
N/A

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
90-15-04-07	Campaign 390120002 / Inspection	0.3	90-15-04-98
20-50-27-07	Campaign 390120002 / Hose Reroute	0.5	20-50-27-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
N/A		

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131119203005 (Use for defect 90-15-04-98)	HV Inv 3 (Gen.) HV DC Power Cable
C131111823002 (Use for defect 20-50-27-98)	Low Temp Coolant Hose

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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Website: www.fiskerautomotive.com

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