

2022 CHEVROLET CORVETTE SERVICE MANUAL

- SEARCH

1. HVAC

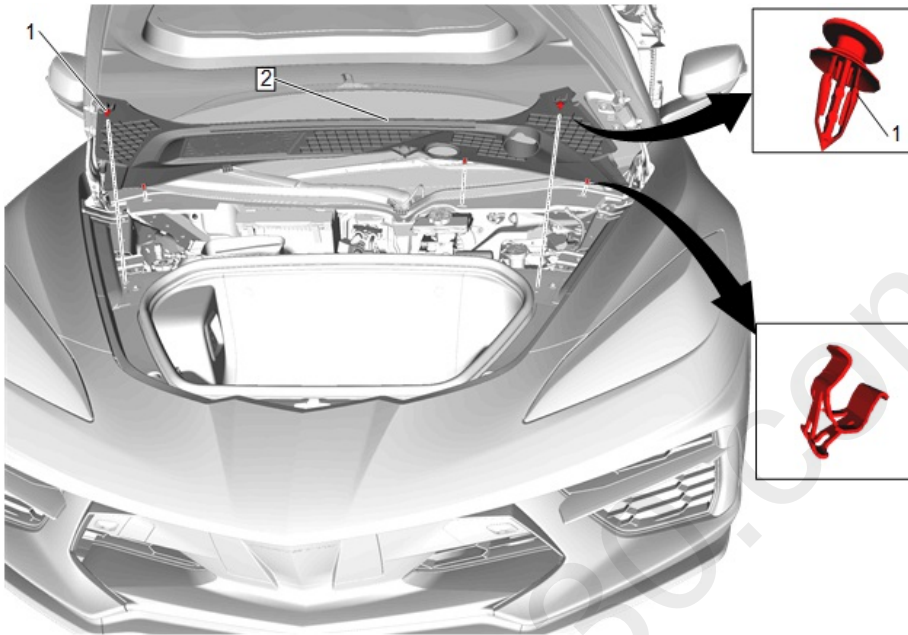
2. **Heating, Ventilation, and Air Conditioning**

3. **Repair Instructions**

- 4.

Air Conditioning Condenser and Air Conditioning Evaporator Tube Replacement

Removal Procedure

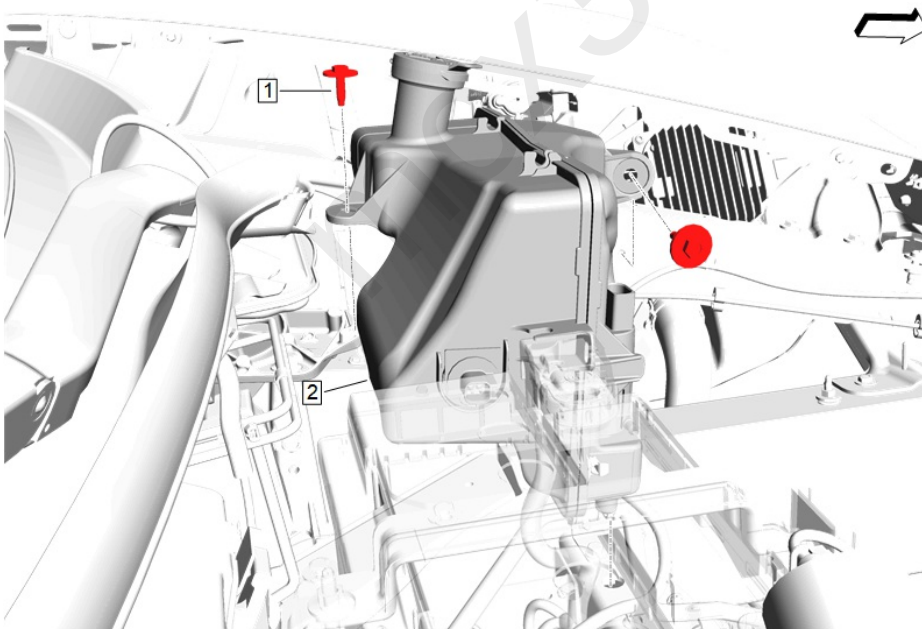


1. [Click here for full size](#)
2. Front Compartment Rear Access Cover (2) >> Remove - Front Compartment Rear Access Cover Replacement
3. Recover the refrigerant. Refrigerant Recovery and Recharging
4. Drain the coolant. Cooling System Draining and Filling



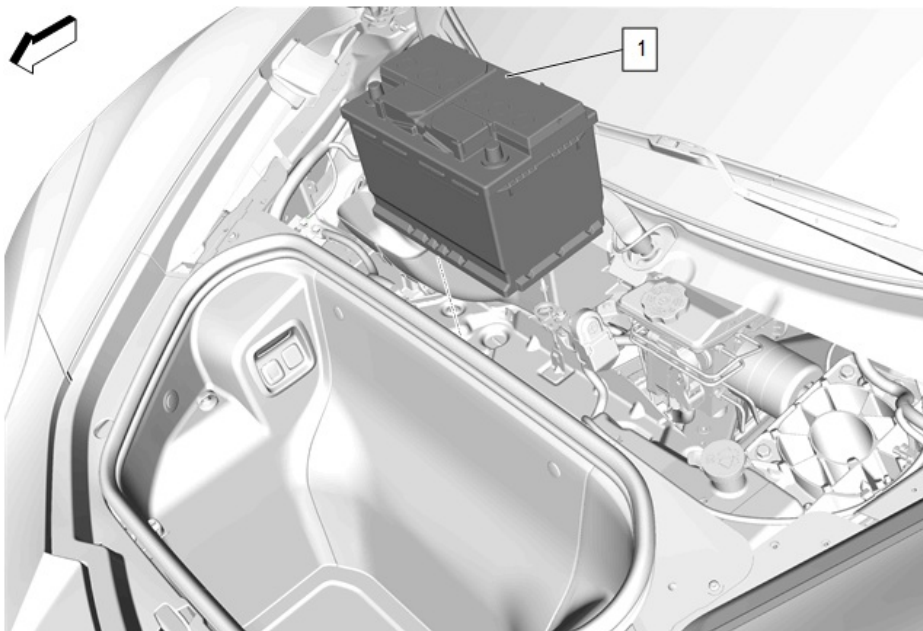
5.
[Click here for full size](#)

6. Front Compartment Front Panel (1) >>> Remove - Front Compartment Front Panel Replacement



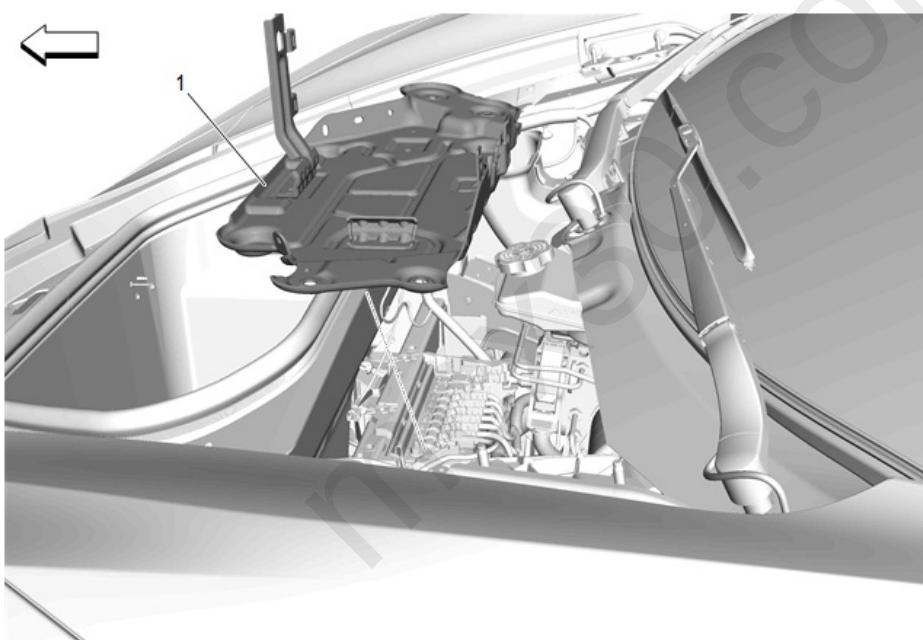
7.
[Click here for full size](#)

8. Windshield Washer Solvent Container (2) >>> Remove - Windshield Washer Solvent Container Replacement



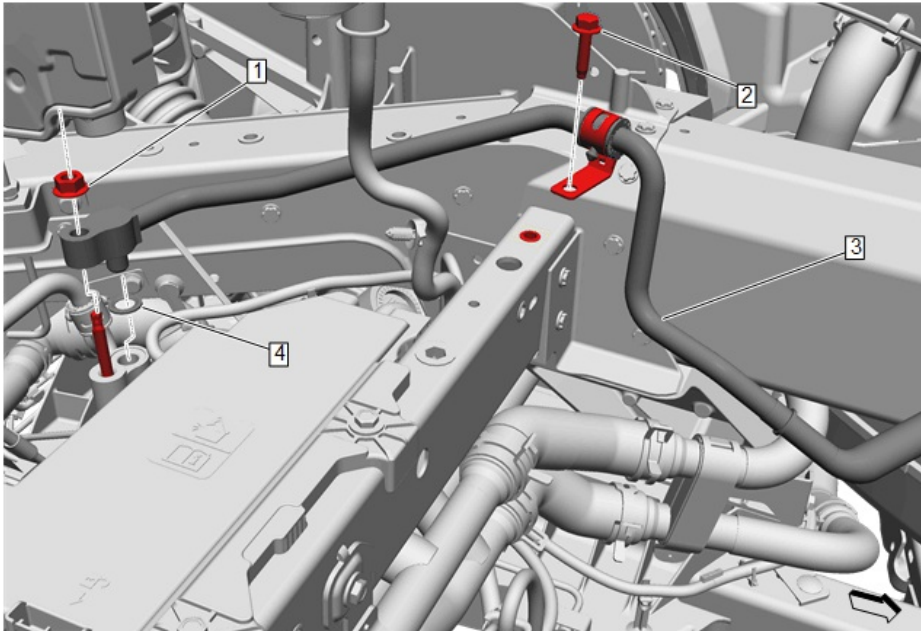
9.
[Click here for full size](#)

10. Battery (1) >>> Remove - Battery Replacement

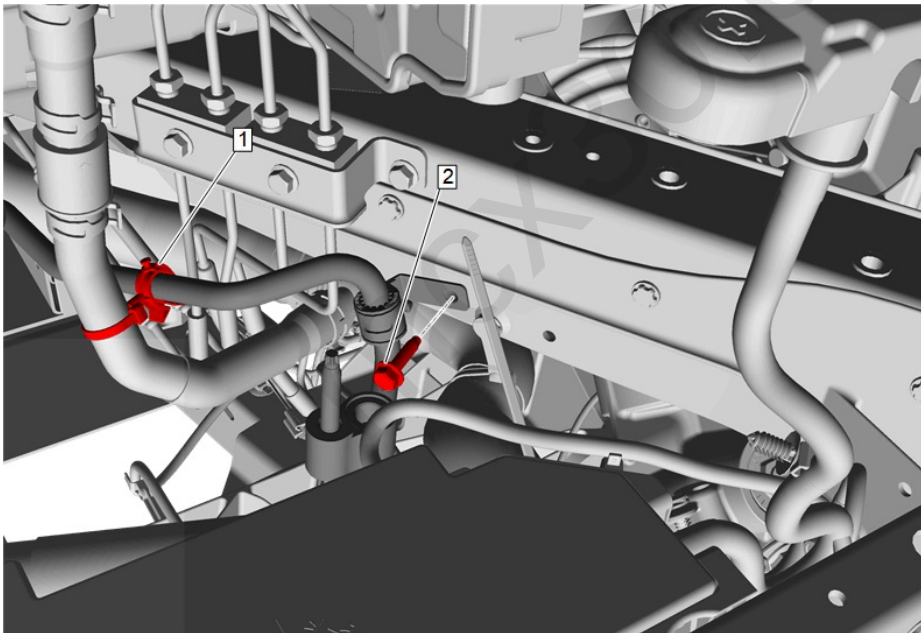


11.
[Click here for full size](#)

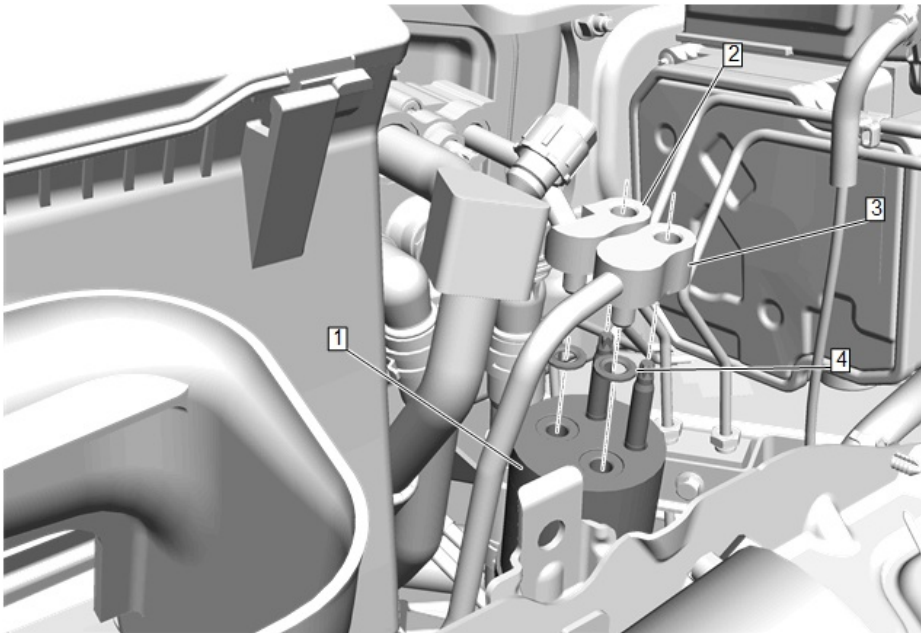
12. Battery Tray (1) >>> Remove - Battery Tray Replacement



13. [Click here for full size](#)
14. Air Conditioning Compressor and Condenser Hose (3) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove
- Air Conditioning Compressor and Condenser Hose Replacement

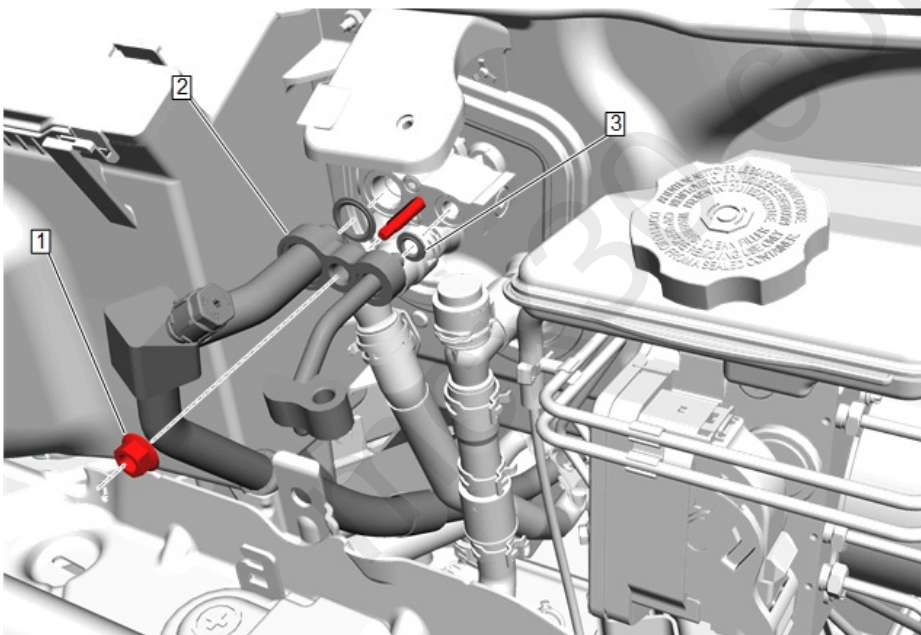


15. [Click here for full size](#)
16. Retainer Clip (1) >> Remove
17. Air Conditioning Evaporator Tube Clip Bracket Bolt (2) >> Remove



18.
[Click here for full size](#)

19. Air Conditioning Receiver and Dehydrator (1) >> Remove - Air Conditioning Receiver and Dehydrator Replacement

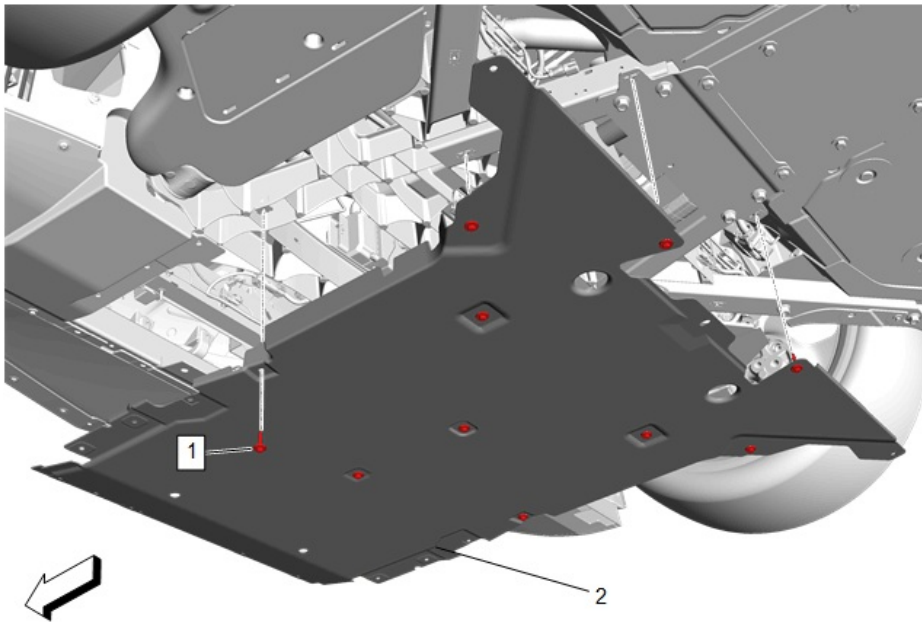


20.
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21. Air Conditioning Condenser and Evaporator Hose Fitting Nut (1) >> Remove

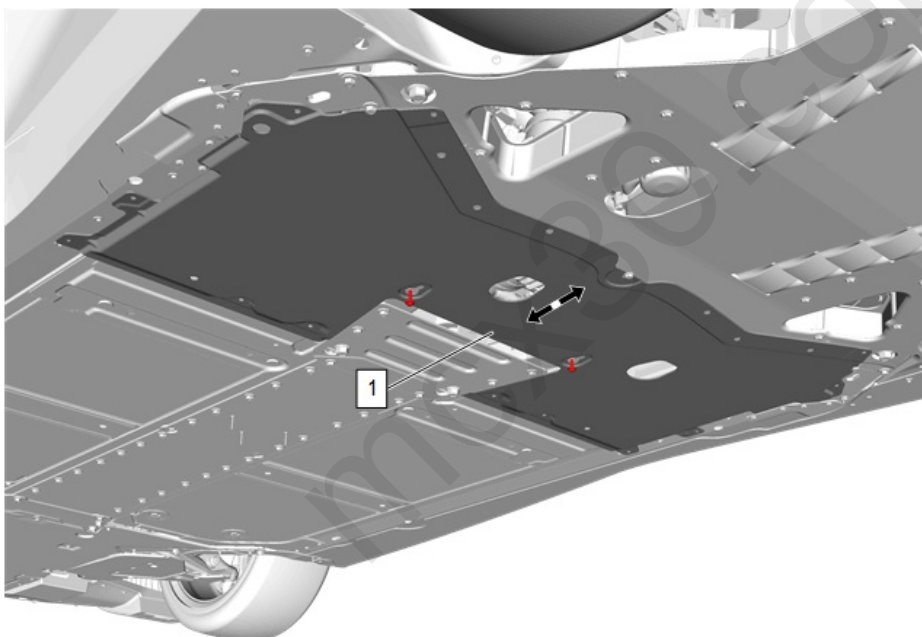
22. Air Conditioning Condenser and Air Conditioning Evaporator Tube (2) @ Air Conditioning Evaporator Thermal Expansion Valve >> Remove

23. Air Conditioning Sealing Washer (3) >> Remove and DISCARD [2x]



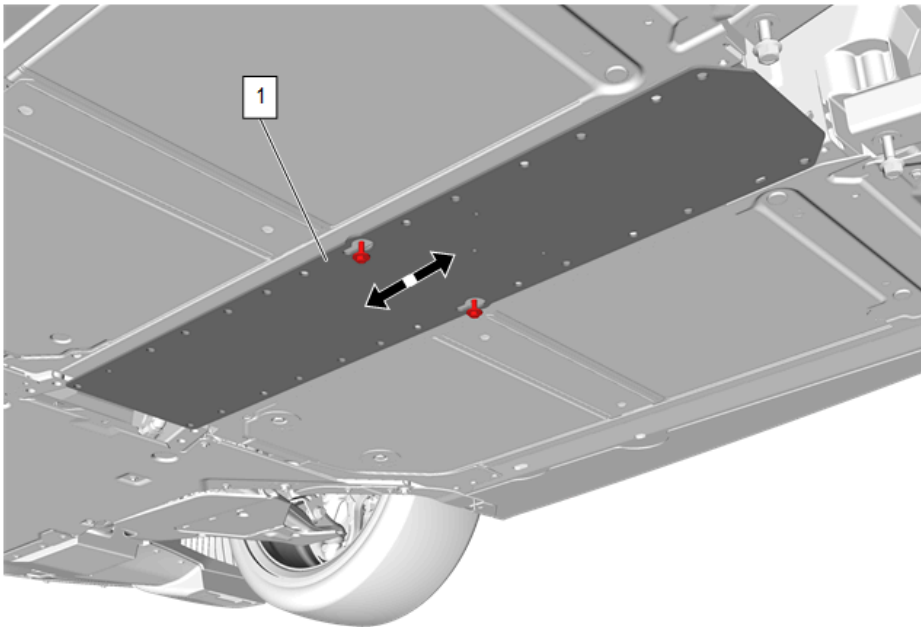
24.
[Click here for full size](#)

25. Front Compartment Insulator (1) >> Remove - Front Compartment Insulator Replacement



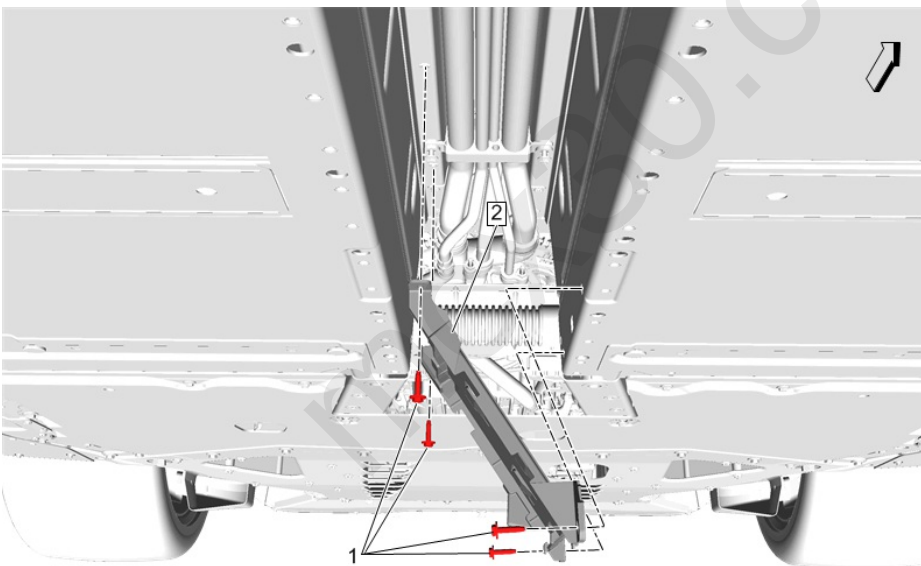
26.
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27. Underbody Rear Air Deflector (1) >> Remove - Underbody Rear Air Deflector Replacement



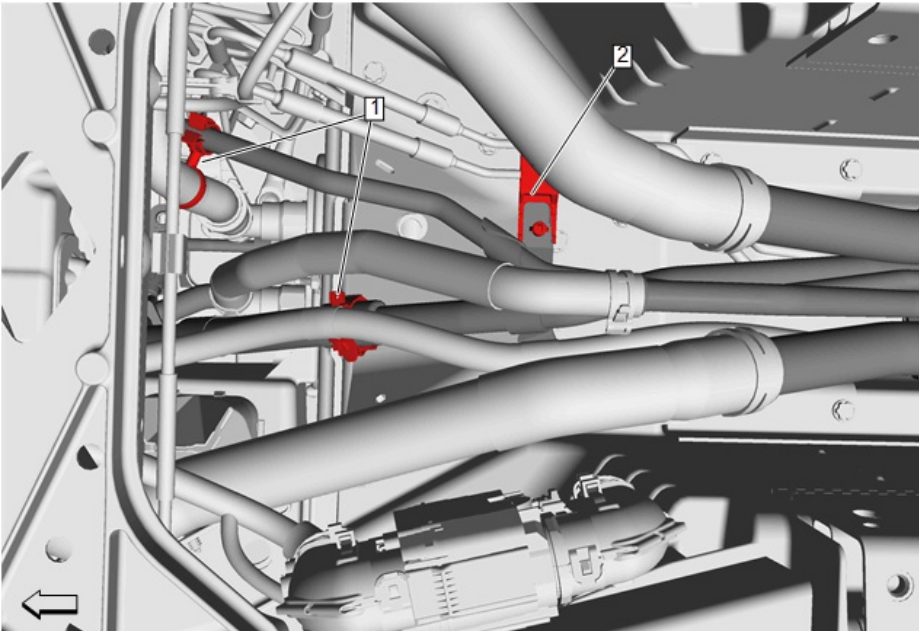
28. [Click here for full size](#)

29. Floor Panel Tunnel Panel Front Reinforcement (1) >> Remove - Floor Panel Tunnel Panel Front Reinforcement Replacement - Mid-Tunnel

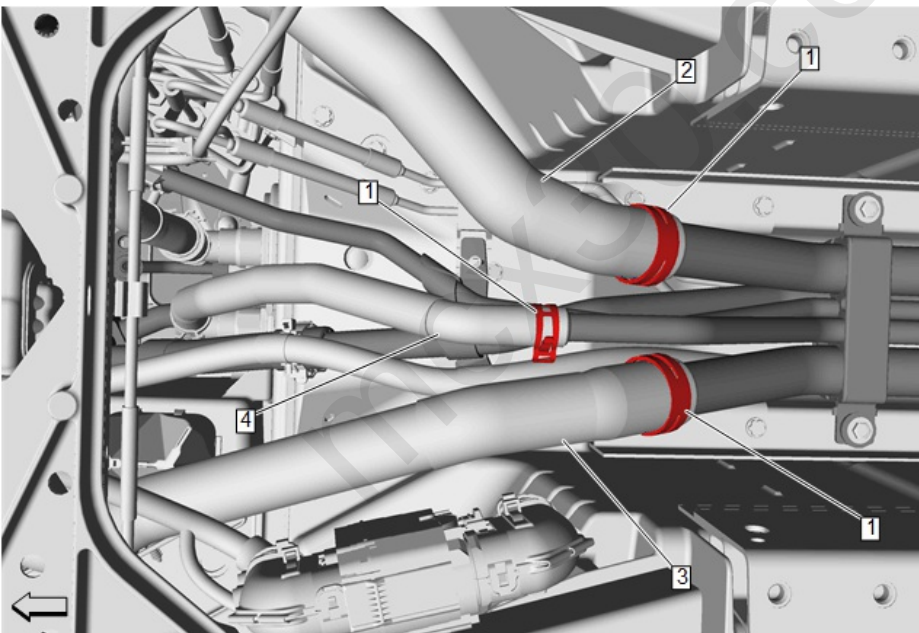


30. [Click here for full size](#)

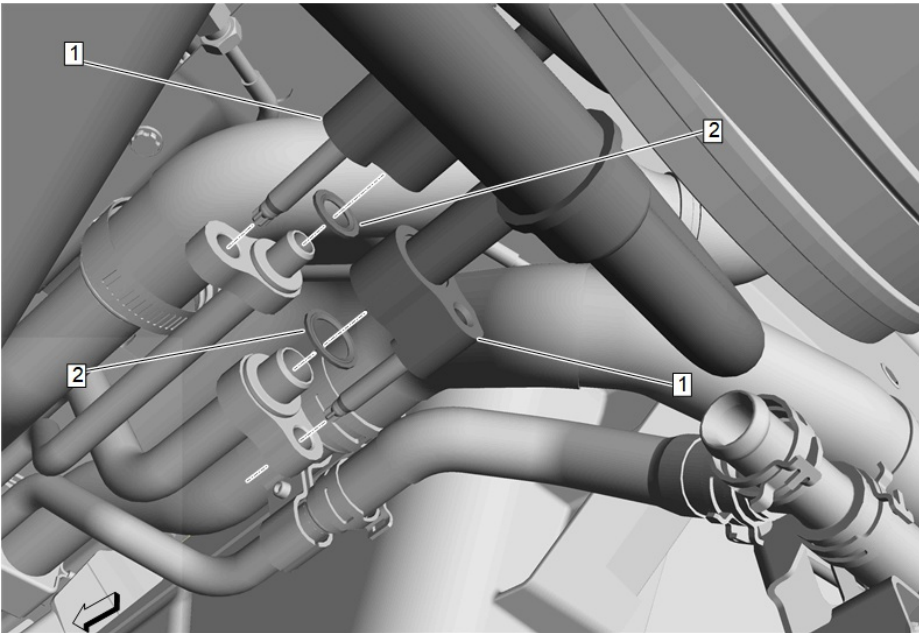
31. Engine Control Module Bracket (2) >> Remove - Engine Control Module Bracket Bracket Replacement



32. [Click here for full size](#)
33. Retaining Clip (1) >> Unclip [2x]
34. Brake Pressure Modulator Valve Rear Brake Pipe Clip (2) >> Remove



35. [Click here for full size](#)
36. Hose Clamp (1) >> Disengage [3x] - Hose Clamp Replacement Guidelines - Spring Type
37. Radiator Inlet Hose (2) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove
38. Radiator Outlet Hose (3) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove
39. Heater Outlet Hose (4) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove

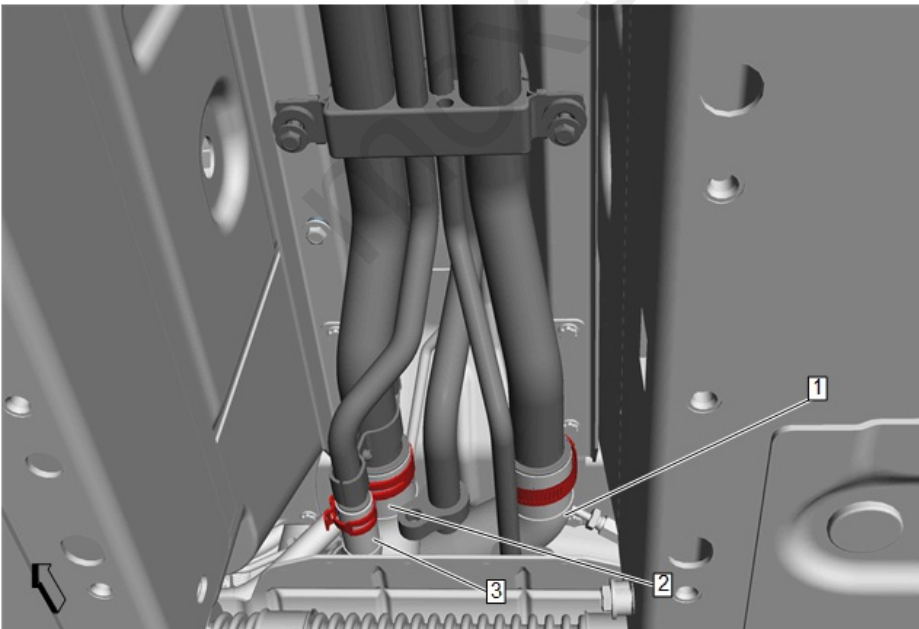


40. [Click here for full size](#)

41. Note:

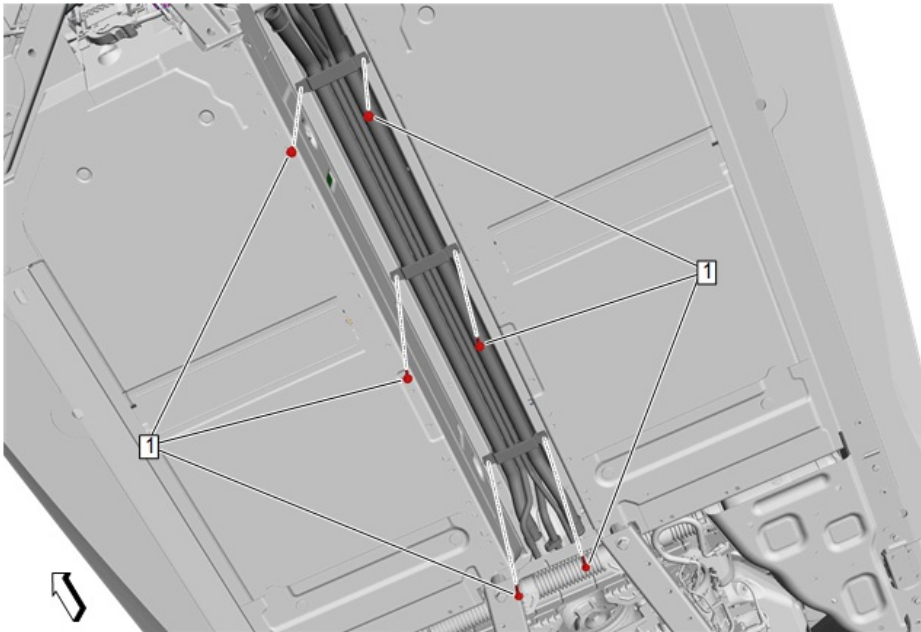
Some components not shown for graphic clarity.

42. Air Conditioning Compressor Hose (1) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove [2x] - Air Conditioning Compressor Hose Replacement

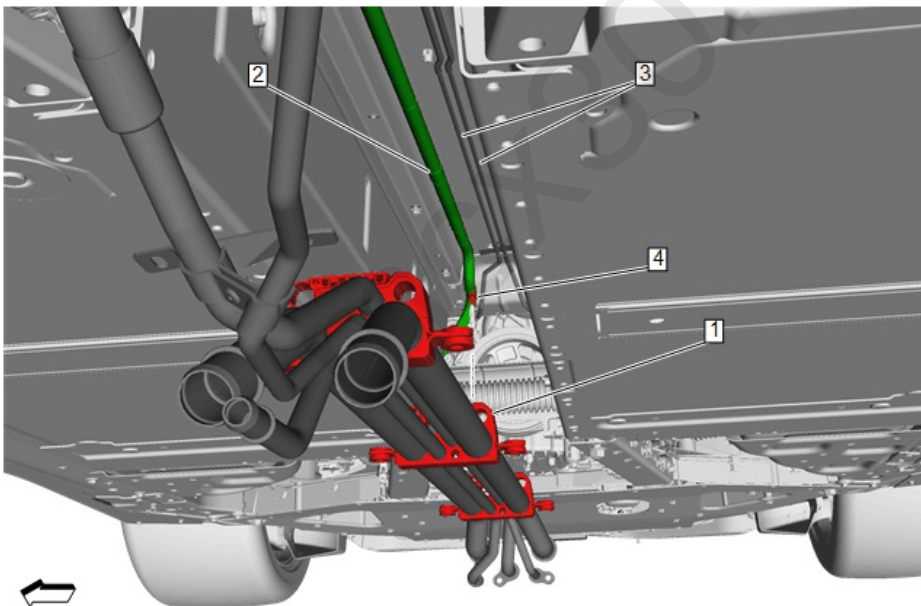


43. [Click here for full size](#)

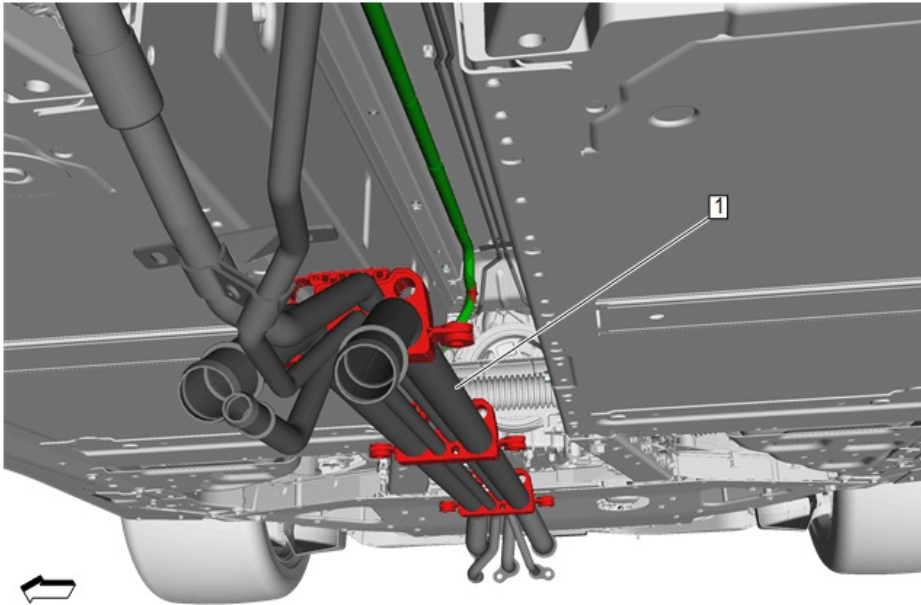
44. Radiator Inlet Hose (1) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove - Radiator Inlet Hose Replacement - A/C Tube to Engine Coolant Manifold
45. Radiator Outlet Hose (3) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove - Radiator Outlet Hose Replacement - A/C Tube to Engine Oil Cooler Adapter to Water Pump Outlet Pipe to Engine Coolant Manifold
46. Radiator Outlet Hose (2) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Remove - Radiator Outlet Hose



47. [Click here for full size](#)
48. Auxiliary Air Conditioning Evaporator Tube Bolt (1) >> Remove [6x]
49. Lower the air conditioning condenser and air conditioning evaporator tube assembly enough to access the air conditioning compressor hose and evaporator tube clips.



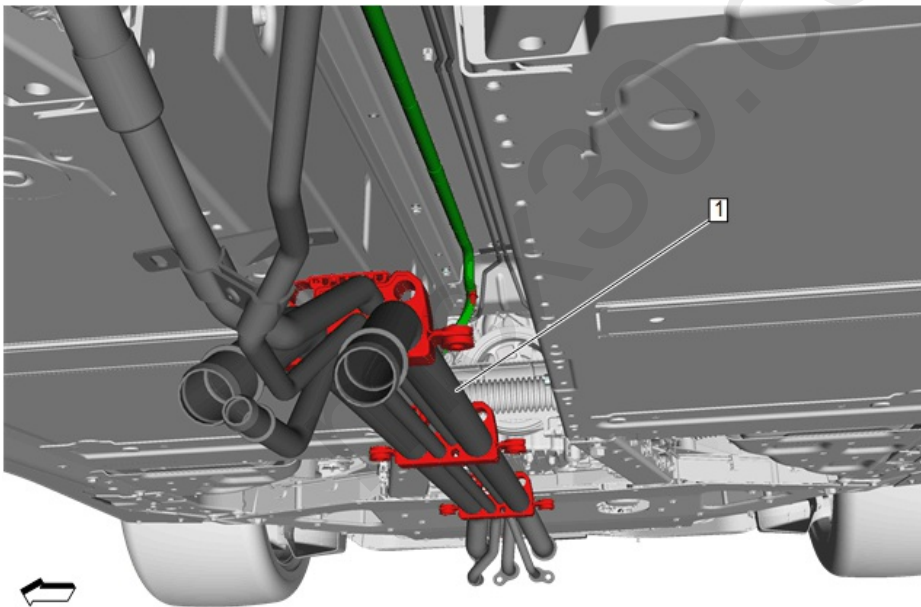
50. [Click here for full size](#)
51. Note:
- Prior to the removal note the position of the positive battery cable and brake pressure modulator valve master cylinder reservoir rear pipes in the clips.
52. Unlatch the air conditioning compressor hose and evaporator tube clips (1) and remove the positive battery cable (2), and the brake pressure modulator valve master cylinder reservoir rear pipes (3) at the clips.
53. Remove the positive battery cable wire harness clip (4) from the air conditioning condenser and air conditioning evaporator tube.



54.
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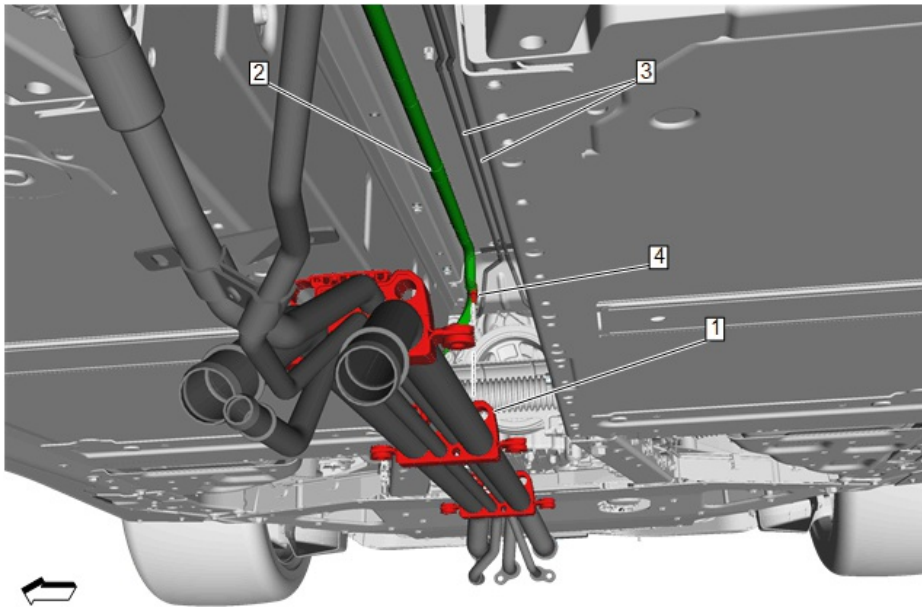
55. Remove the air conditioning condenser and air conditioning evaporator tube (1) from the vehicle.

Installation Procedure

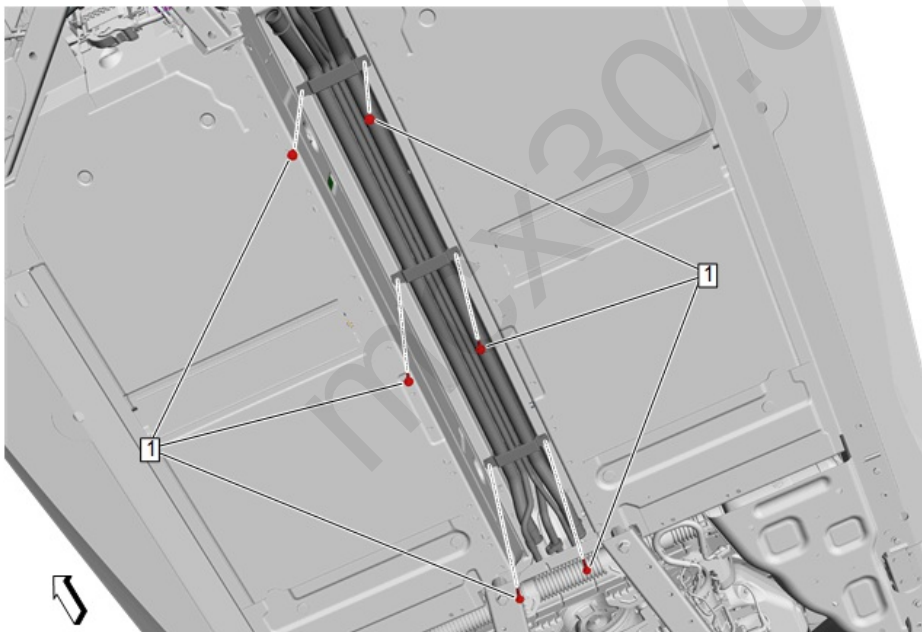


1.
[Click here for full size](#)

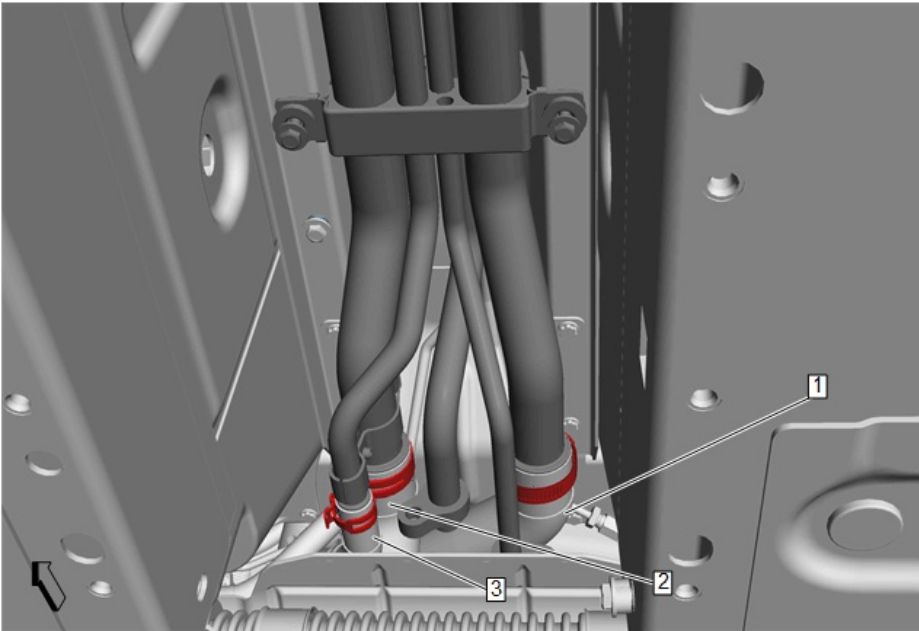
2. Install the air conditioning condenser and air conditioning evaporator tube (1) into the vehicle.



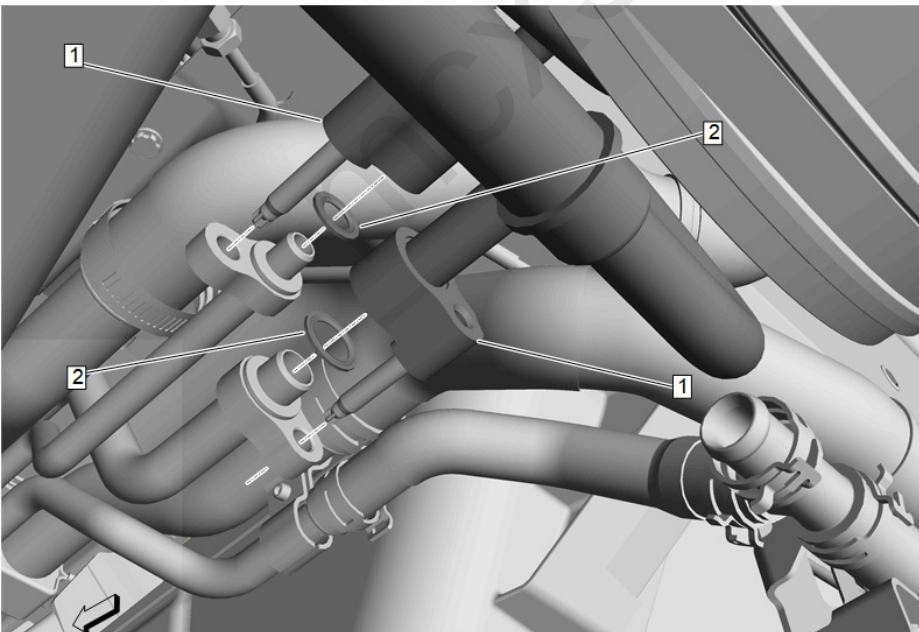
3. [Click here for full size](#)
4. Install the positive battery cable wire harness clip (4) into the air conditioning condenser and air conditioning evaporator tube.
5. Install the positive battery cable (2), and the brake pressure modulator valve master cylinder reservoir rear pipes (3) into the clips and latch the air conditioning compressor hose and evaporator tube clips (1).



6. [Click here for full size](#)
7. Raise the air conditioning condenser and air conditioning evaporator tube assembly and support in place.
8. **Caution:**
Refer to Fastener Caution.
9. Auxiliary Air Conditioning Evaporator Tube Bolt (1) >> Install and tighten [6x]9 N-m (80 lb in)



10. [Click here for full size](#)
11. Radiator Outlet Hose (2) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install - Radiator Outlet Hose Replacement - A/C Tube to Water Pump Inlet
12. Radiator Outlet Hose (3) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install - Radiator Outlet Hose Replacement - A/C Tube to Engine Oil Cooler Adapter to Water Pump Outlet Pipe to Engine Coolant Manifold
13. Radiator Inlet Hose (1) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install - Radiator Inlet Hose Replacement - A/C Tube to Engine Coolant Manifold

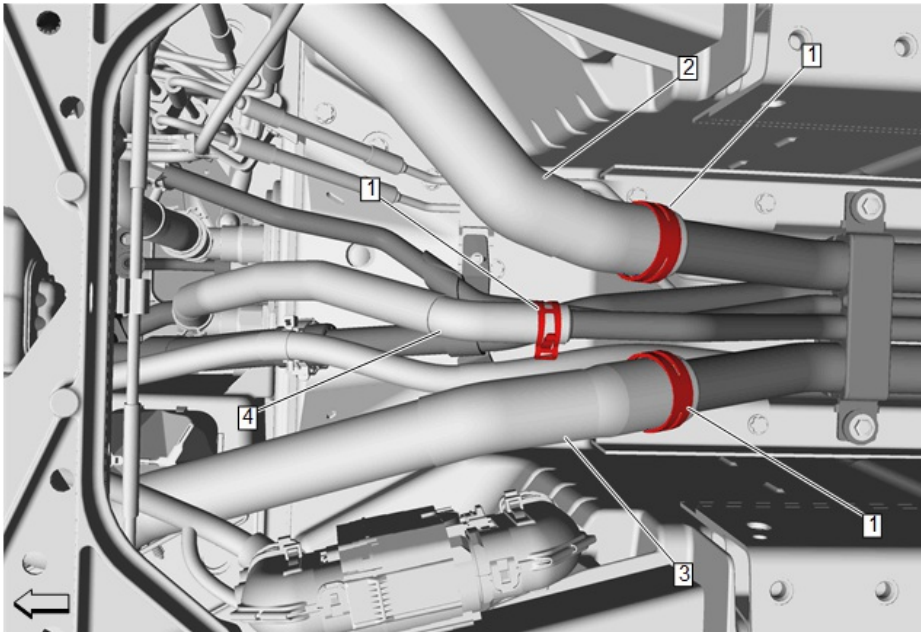


14. [Click here for full size](#)
15. Note:

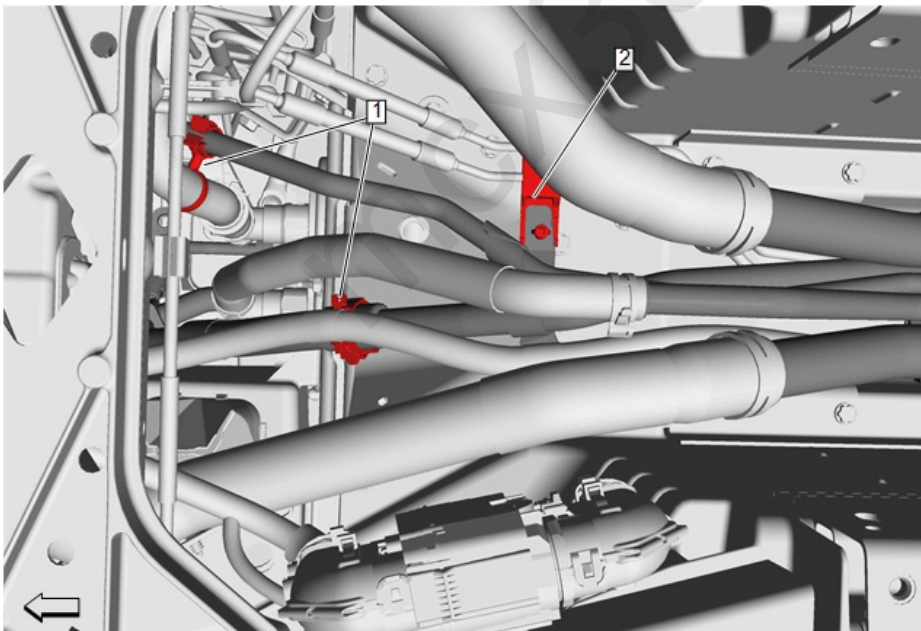
Some components not shown for graphic clarity.

16. Air Conditioning Compressor Hose (1) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install [2x] - Air

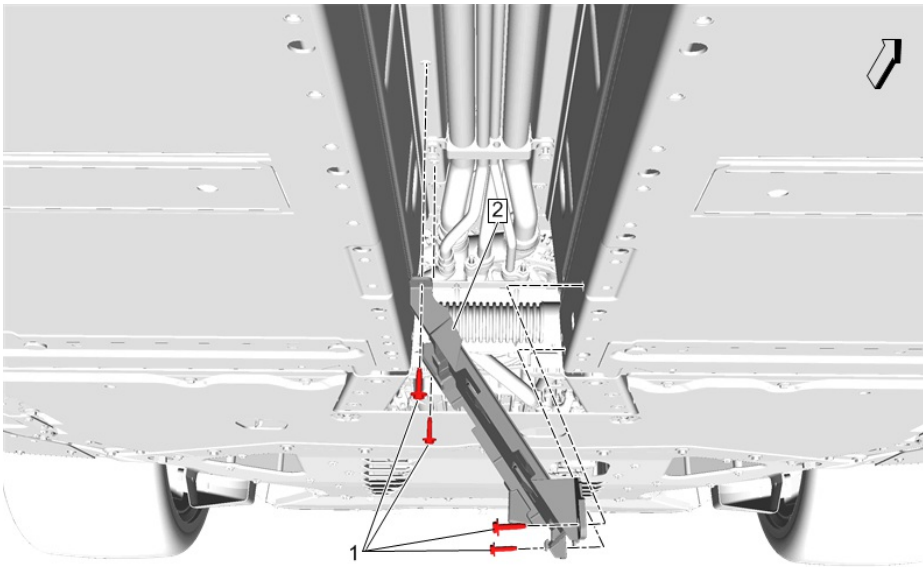
Conditioning Compressor Hose Replacement



17. [Click here for full size](#)
18. Heater Outlet Hose (4) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install
19. Radiator Outlet Hose (3) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install
20. Radiator Inlet Hose (2) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install
21. Hose Clamp (1) >> Engage [3x] - Hose Clamp Replacement Guidelines - Spring Type

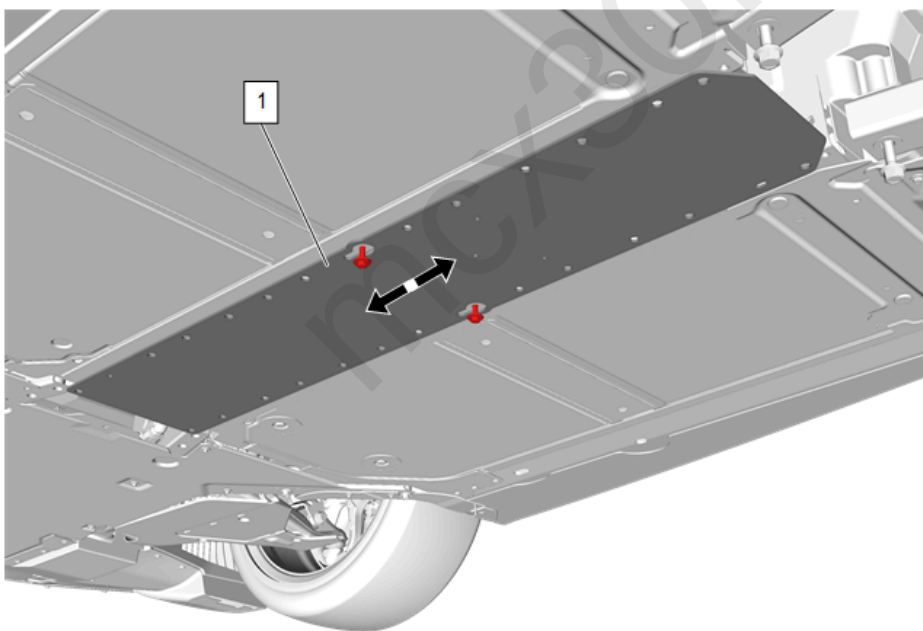


22. [Click here for full size](#)
23. Brake Pressure Modulator Valve Rear Brake Pipe Clip (2) >> Install
24. Retaining Clip (1) >> Clip [2x]



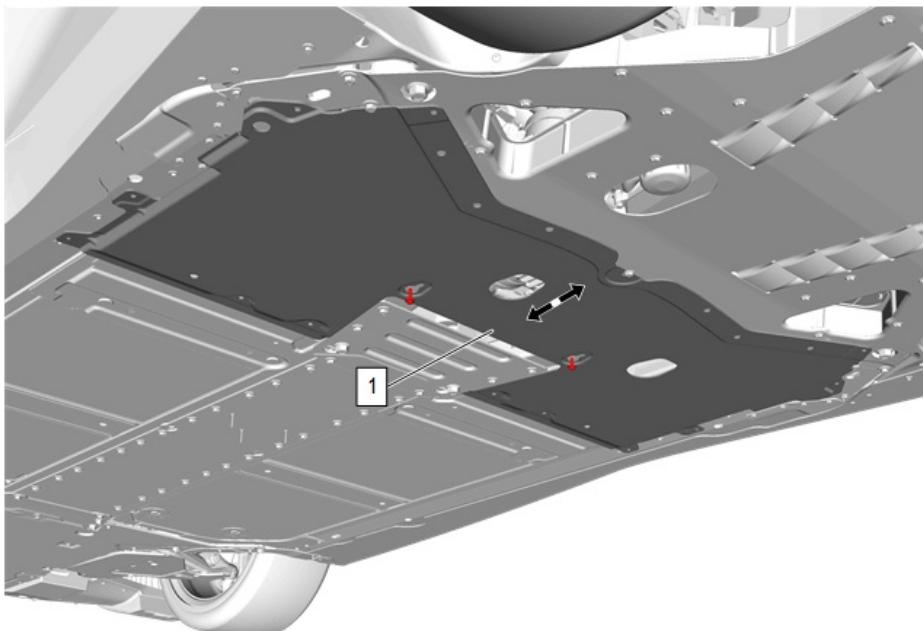
25.
[Click here for full size](#)

26. Engine Control Module Bracket (2) >> Install - Engine Control Module Bracket Bracket Replacement



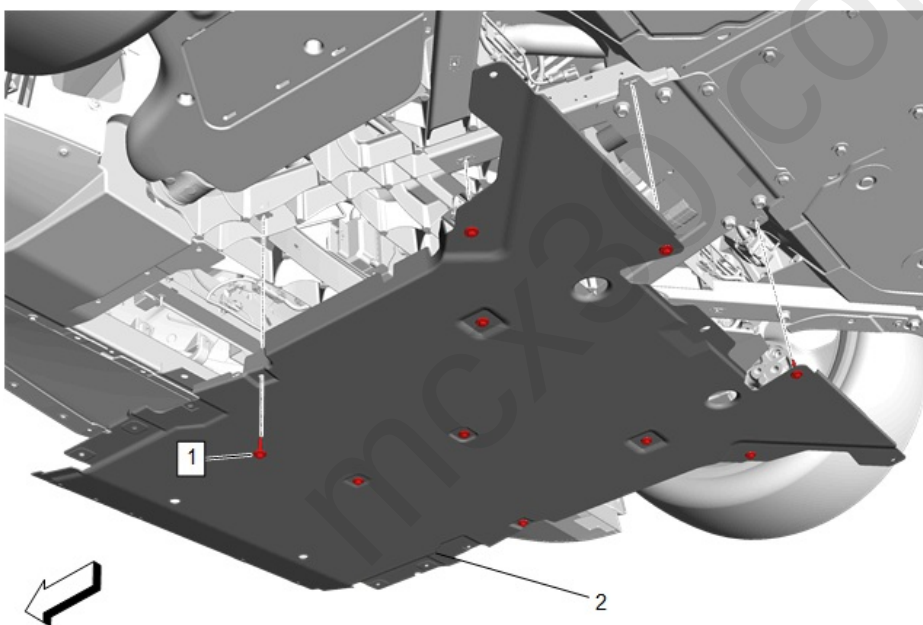
27.
[Click here for full size](#)

28. Floor Panel Tunnel Panel Front Reinforcement (1) >> Install - Floor Panel Tunnel Panel Front Reinforcement Replacement - Mid-Tunnel



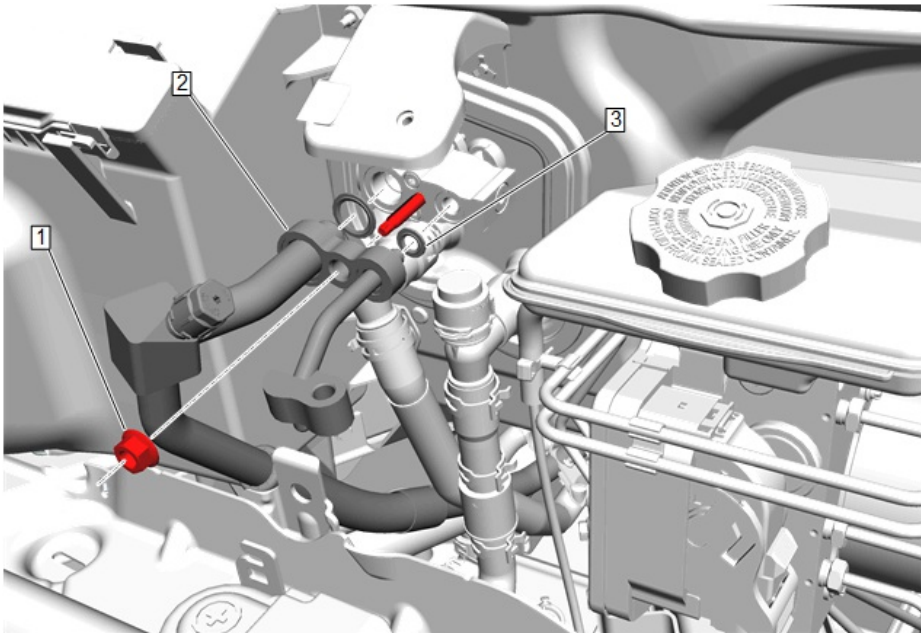
29.
[Click here for full size](#)

30. Underbody Rear Air Deflector (1) >> Install - Underbody Rear Air Deflector Replacement

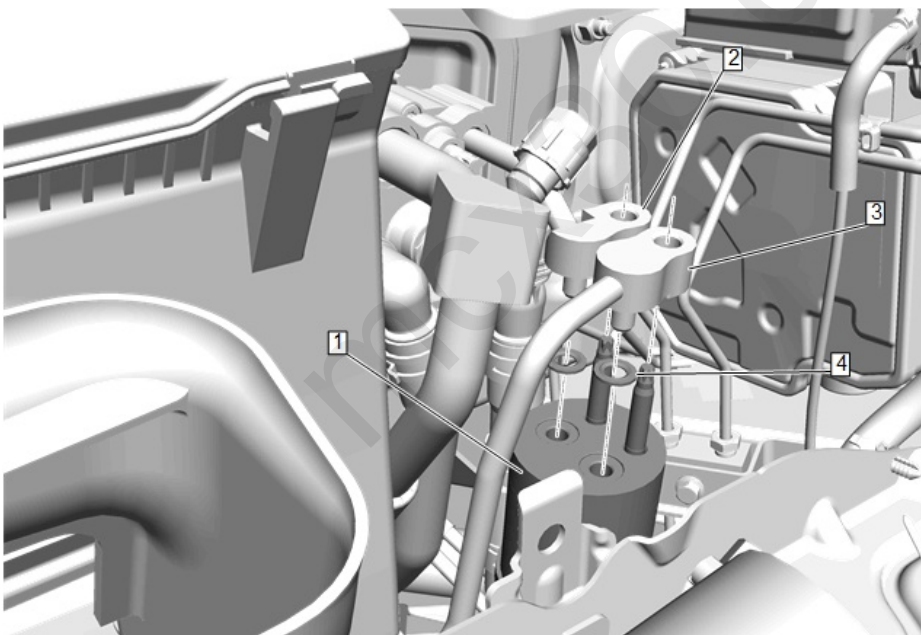


31.
[Click here for full size](#)

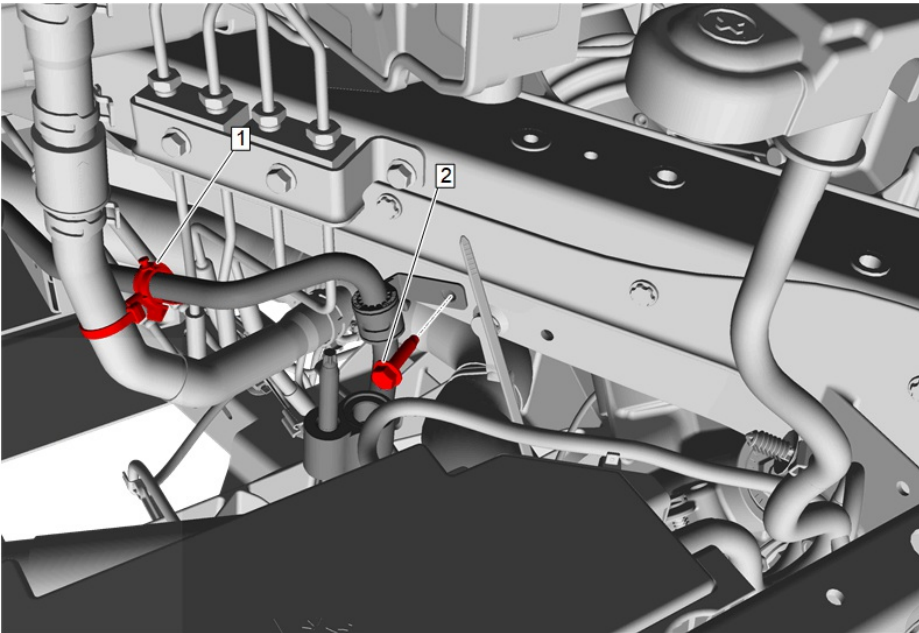
32. Front Compartment Insulator (1) >> Install - Front Compartment Insulator Replacement



33. [Click here for full size](#)
34. Air Conditioning Sealing Washer (3) >> Install NEW [2x]
35. Air Conditioning Condenser and Air Conditioning Evaporator Tube (2) @ Air Conditioning Evaporator Thermal Expansion Valve >> Install
36. Air Conditioning Condenser and Evaporator Hose Fitting Nut (1) >> Install and tighten 22 N-m (16 lb ft)



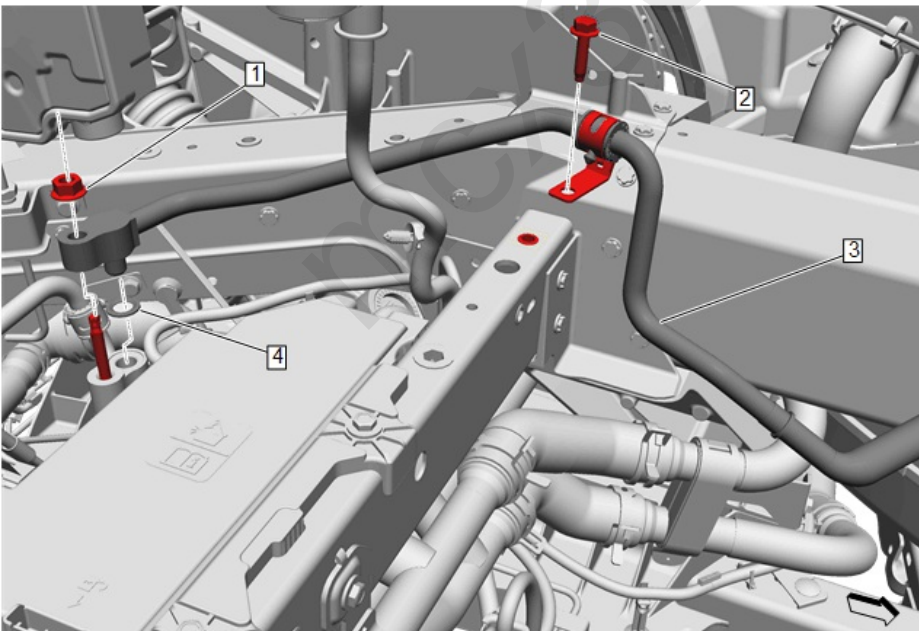
37. [Click here for full size](#)
38. Air Conditioning Receiver and Dehydrator (1) >> Install - Air Conditioning Receiver and Dehydrator Replacement



39.
[Click here for full size](#)

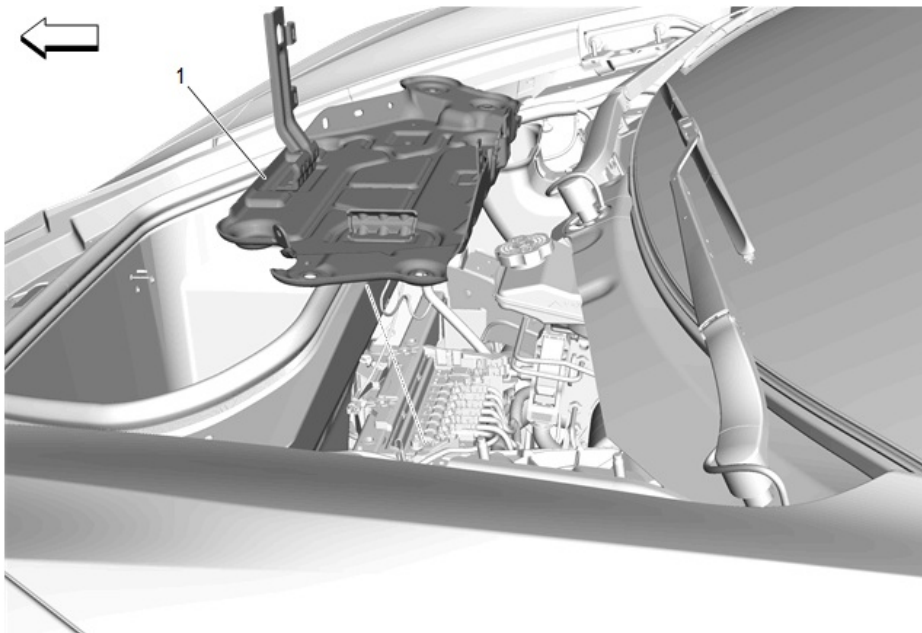
40. Air Conditioning Evaporator Tube Clip Bracket Bolt (2) >> Install and tighten 9 N-m (80 lb in)

41. Retainer Clip (1) >> Install



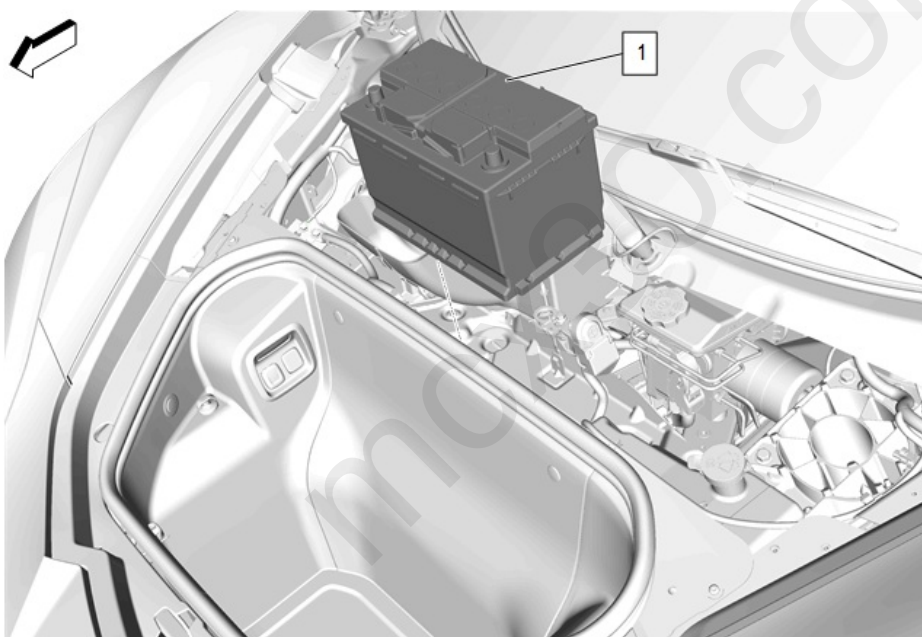
42.
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43. Air Conditioning Compressor and Condenser Hose (3) @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install - Air Conditioning Compressor and Condenser Hose Replacement



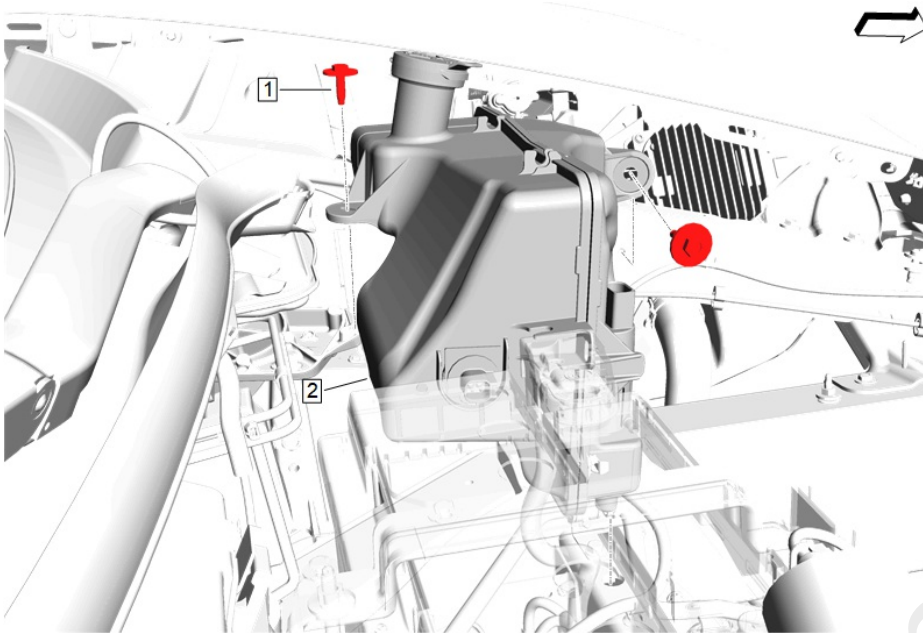
44.
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45. Battery Tray (1) >> Install - Battery Tray Replacement



46.
[Click here for full size](#)

47. Battery (1) >> Install - Battery Replacement



48.
[Click here for full size](#)

49. Windshield Washer Solvent Container (2) >> Install - Windshield Washer Solvent Container Replacement



50.
[Click here for full size](#)

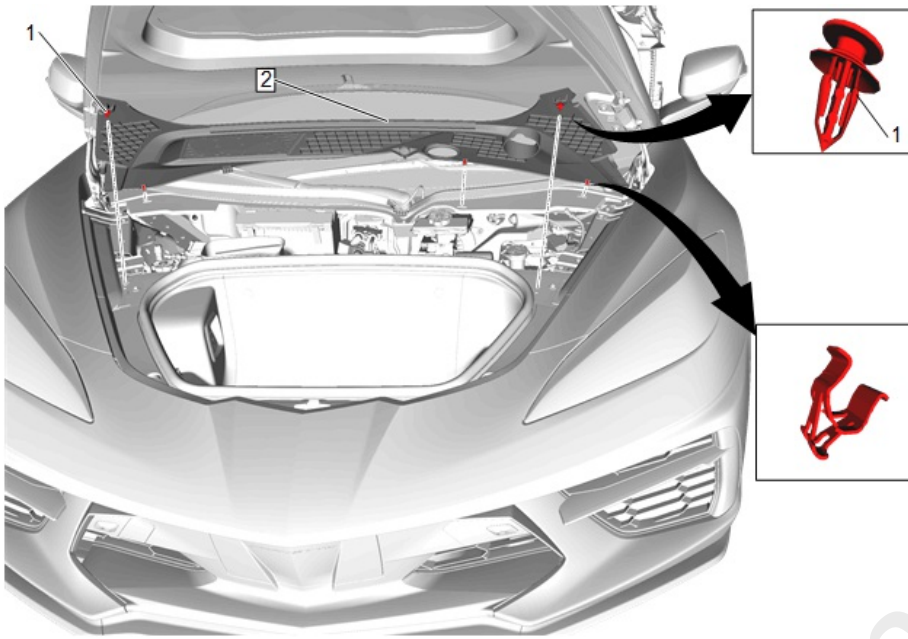
51. Front Compartment Front Panel (1) >> Install - Front Compartment Front Panel Replacement

52. Fill the cooling system to the proper level. Cooling System Draining and Filling

53. Evacuate and charge the refrigerant system. Refrigerant Recovery and Recharging

54. Check for refrigerant leaks.

55. Inspect for coolant leaks.



56.

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57. Front Compartment Rear Access Cover (2) >> Install - Front Compartment Rear Access Cover Replacement