

2022 CHEVROLET CORVETTE SERVICE MANUAL

- [SEARCH](#)

1. [HVAC](#)

2. [Heating, Ventilation, and Air Conditioning](#)

3. [Repair Instructions](#)

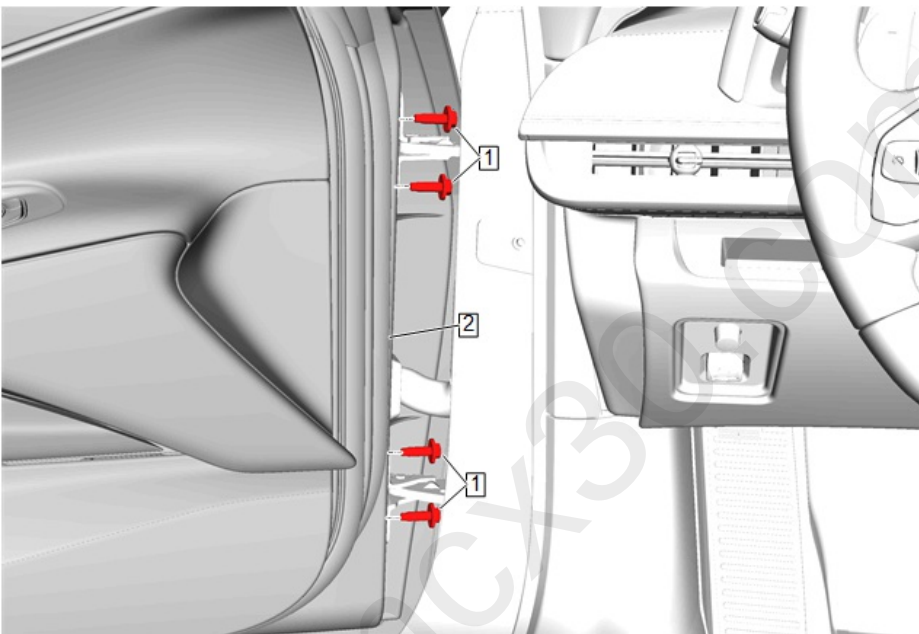
4.

Radio Cooling Duct Replacement

Single Use Fasteners and Components

- Air Conditioning Sealing Washer - Large
- Air Conditioning Sealing Washer - Small

Removal Procedure

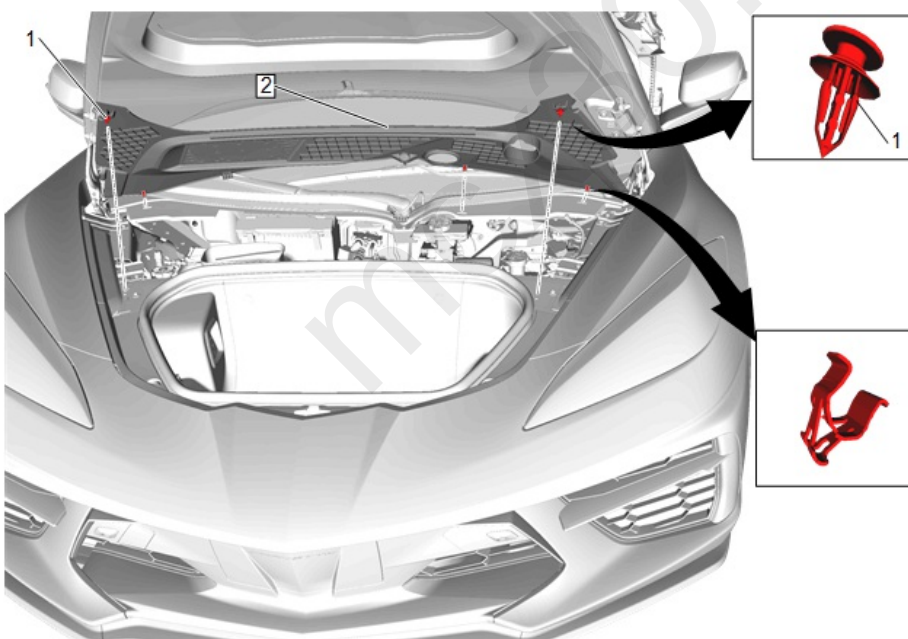


1. [Click here for full size](#)
2. Remove the left door (2) only. Front Side Door Replacement



3.
[Click here for full size](#)

4. Remove the left and right front seats (2). Front Seat Removal and Installation



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

6. Front Compartment Rear Access Cover (2) >>> Remove - Front Compartment Rear Access Cover Replacement

7. Recover the refrigerant. Refrigerant Recovery and Recharging

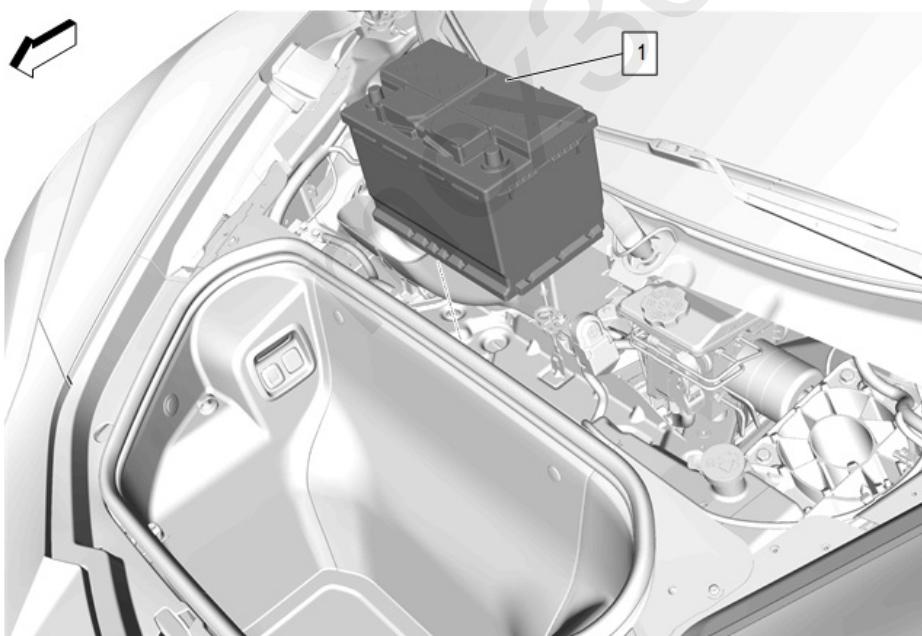
8. Drain the cooling system. Cooling System Draining and Filling



9.
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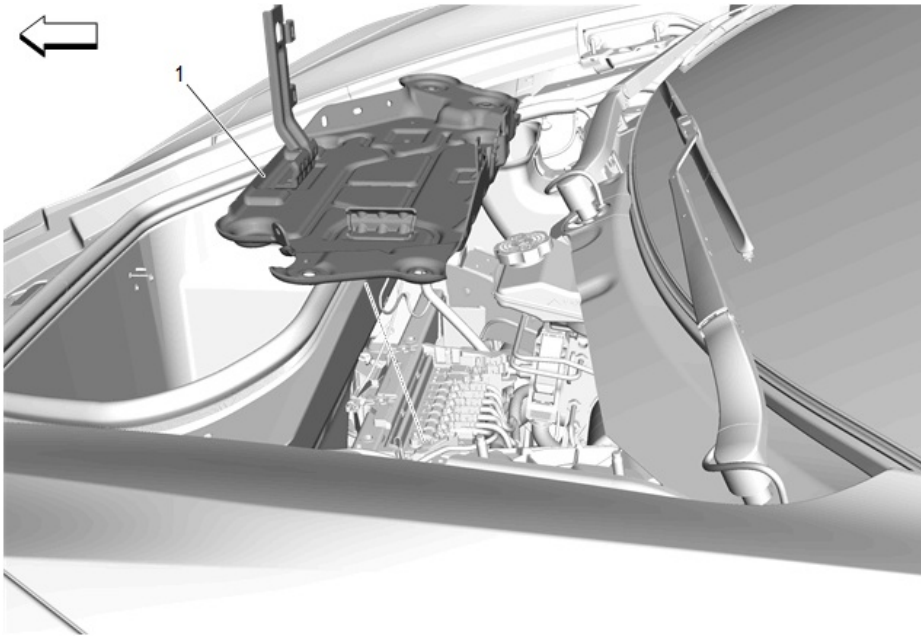
10. Front Compartment Front Panel (1) >> Remove - Front Compartment Front Panel Replacement

11. Disconnect the negative battery cable. Battery Negative Cable Disconnection and Connection



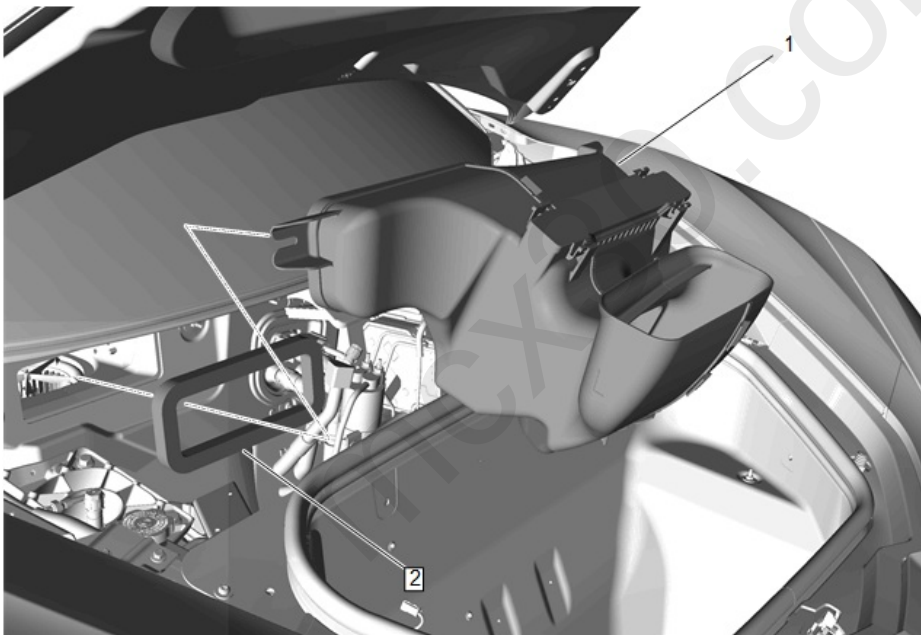
12.
[Click here for full size](#)

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



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

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



16.
[Click here for full size](#)

17. Air Inlet Housing Front Panel (1) >>> Remove - Air Inlet Housing Front Panel Replacement

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

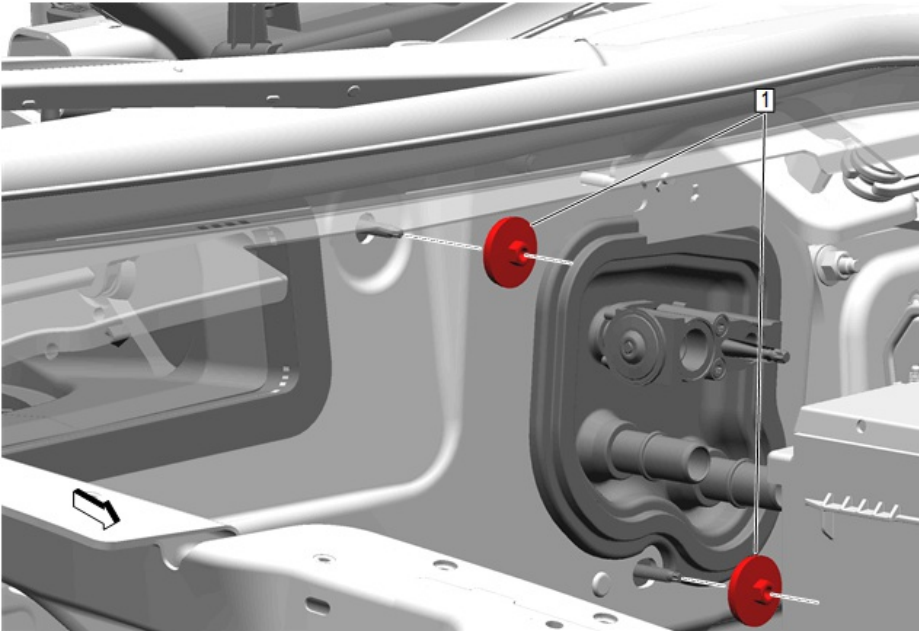
19. Air Conditioning Condenser and Evaporator Hose Fitting Nut (1) >>> Remove

20. Air Conditioning Evaporator Thermal Expansion Valve Stud (2) >>> Remove

21. Remove the air conditioning condenser and air conditioning evaporator tube from the air conditioning evaporator thermal expansion valve and reposition to the side.

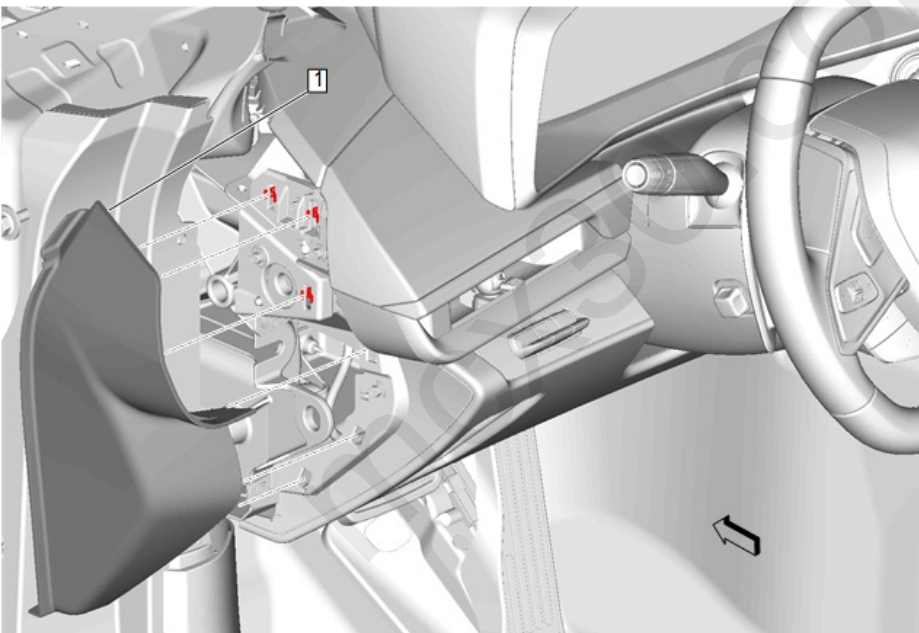
22. Radiator Inlet Hose @ Heater Core Inlet Tube >>> Remove - Radiator Inlet Hose Replacement - Radiator Inlet Pipe to A/C Tube

23. Heater Outlet Hose @ Heater Core Outlet Tube >>> Remove - Heater Outlet Hose Replacement



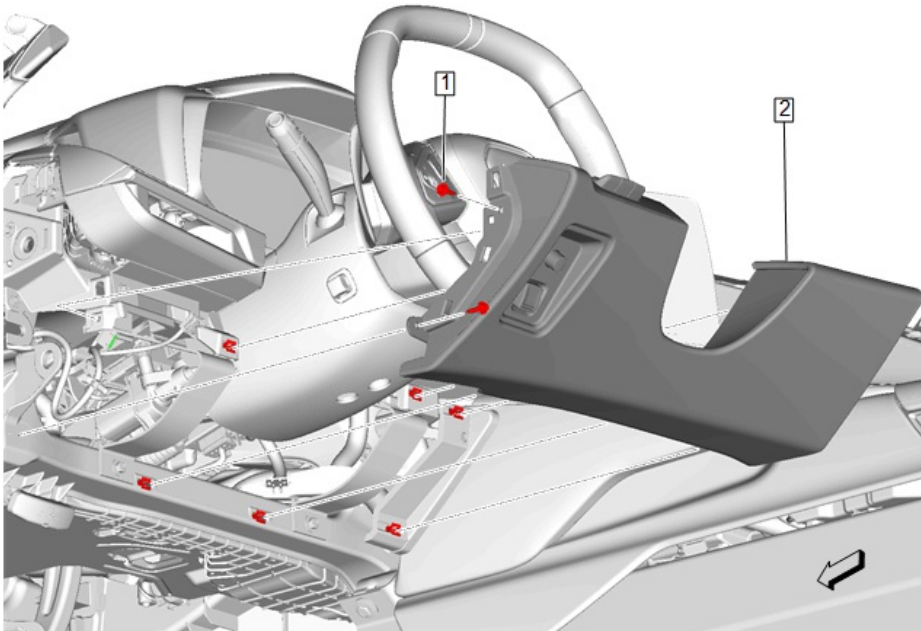
24.
[Click here for full size](#)

25. Heater and Blower Module Nut (1) >>> Remove [2x]



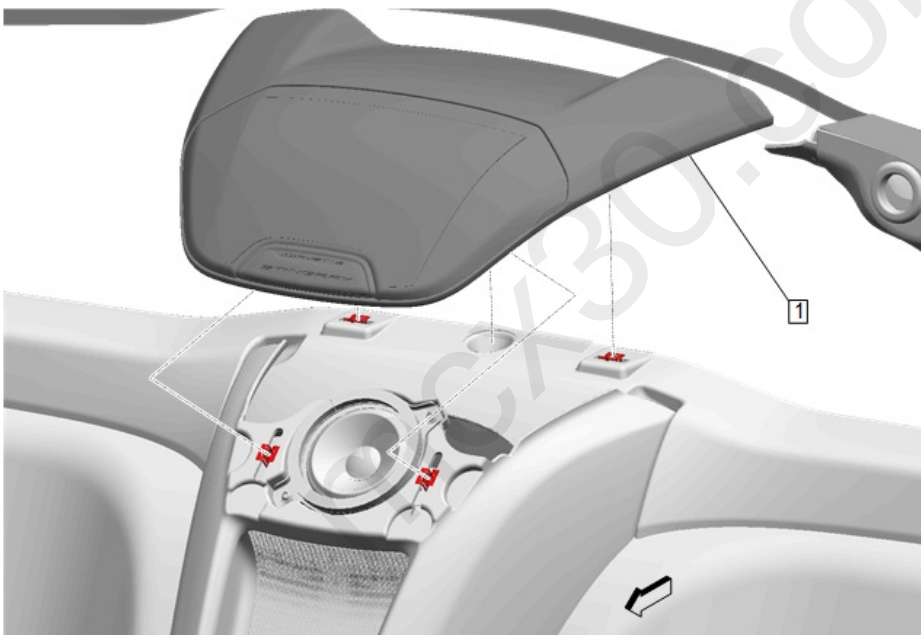
26.
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27. Remove the left and right instrument panel outer trim cover (1). Instrument Panel Outer Trim Cover Replacement



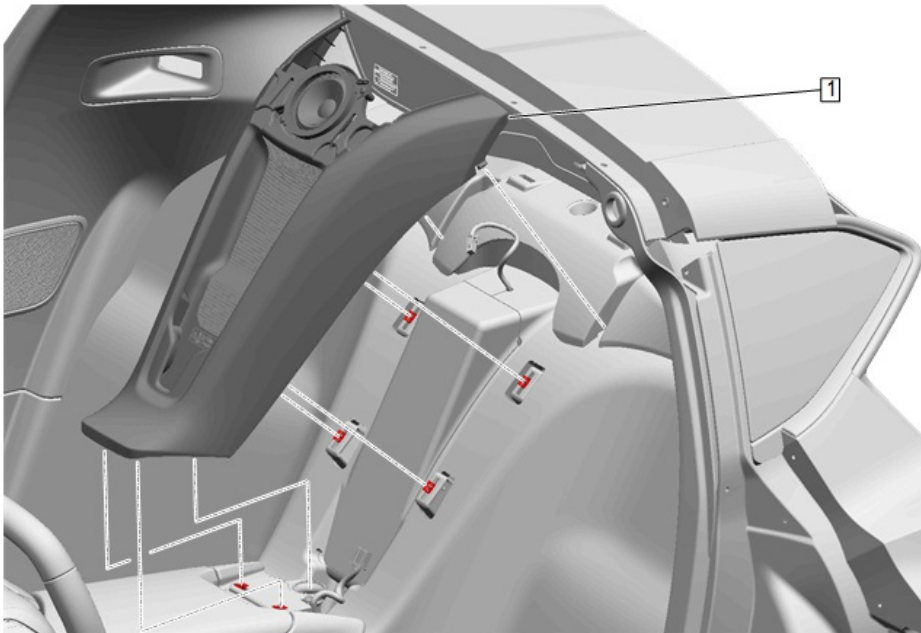
28.
[Click here for full size](#)

29. Instrument Panel Knee Bolster (2) >> Remove - Instrument Panel Knee Bolster Replacement



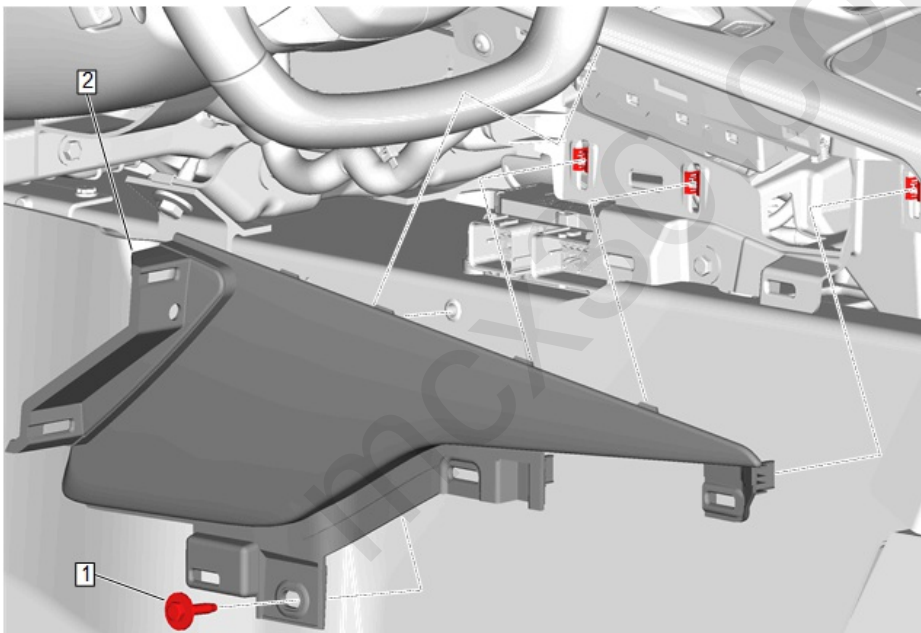
30.
[Click here for full size](#)

31. Radio Rear Quarter Trim Panel Speaker Grille (1) >> Remove - Radio Rear Quarter Trim Panel Speaker Grille Replacement



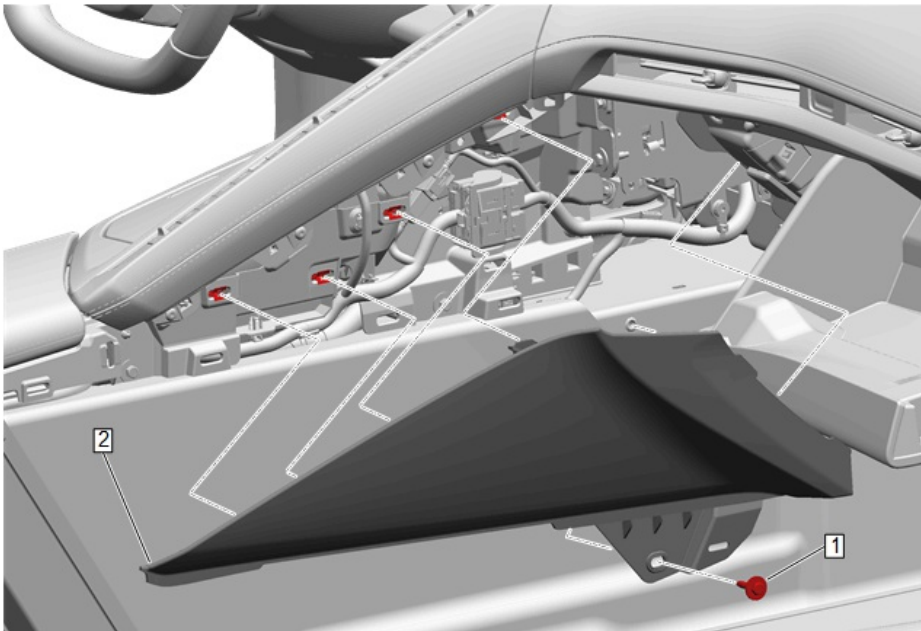
32.
[Click here for full size](#)

33. Rear Compartment Closeout Panel (1) >> Remove - Rear Compartment Closeout Panel Replacement



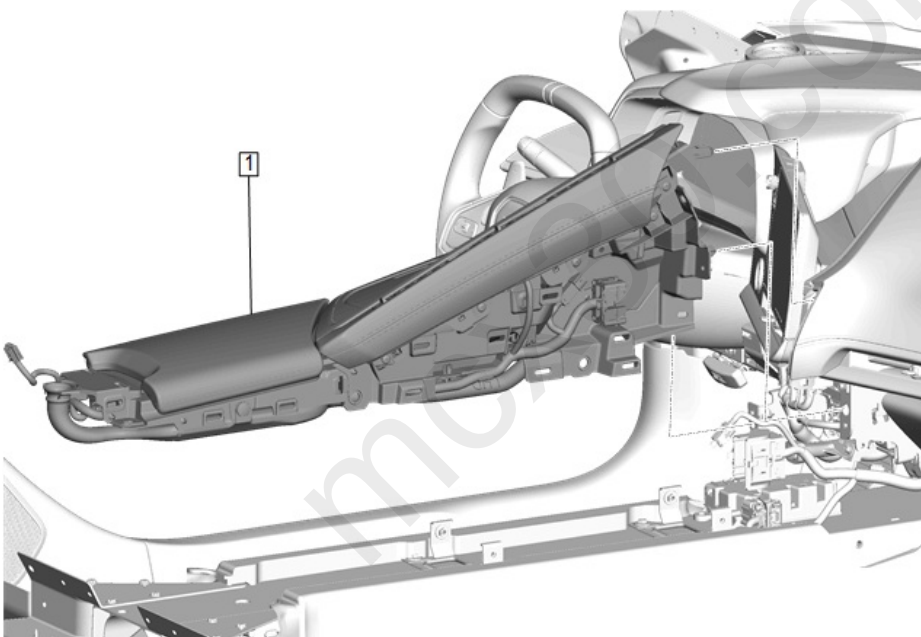
34.
[Click here for full size](#)

35. Front Floor Console Applique - Left Side (2) >> Remove - Front Floor Console Applique Replacement - Left Side



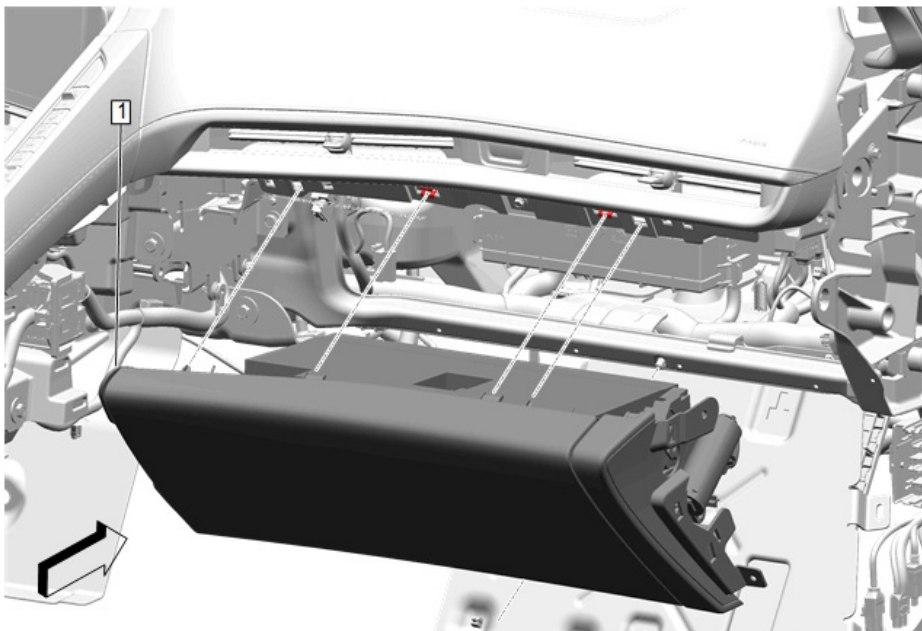
36.
[Click here for full size](#)

37. Front Floor Console Extension Panel (2) >>> Remove - Front Floor Console Extension Panel Replacement



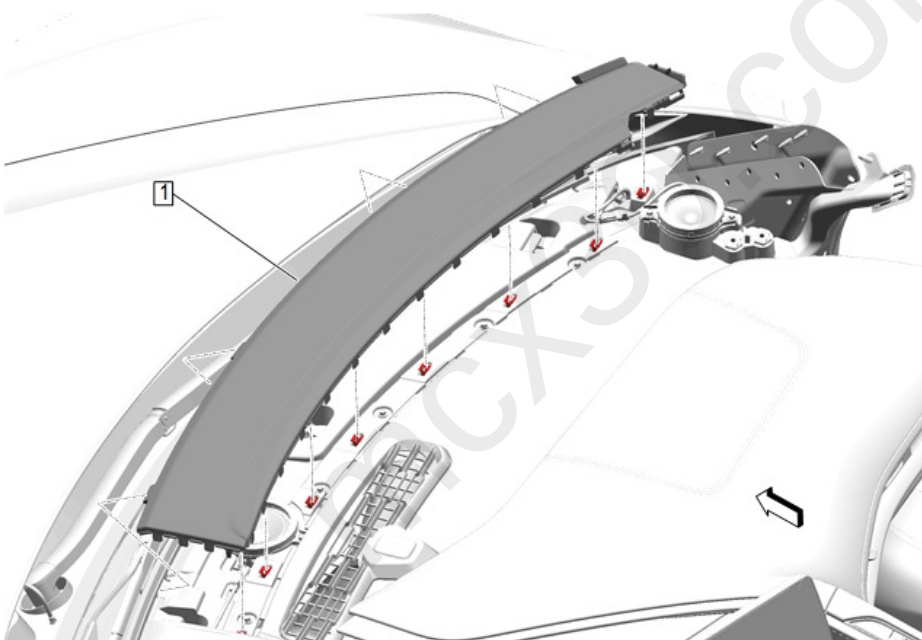
38.
[Click here for full size](#)

39. Front Floor Console Compartment (1) >>> Remove - Front Floor Console Compartment Replacement



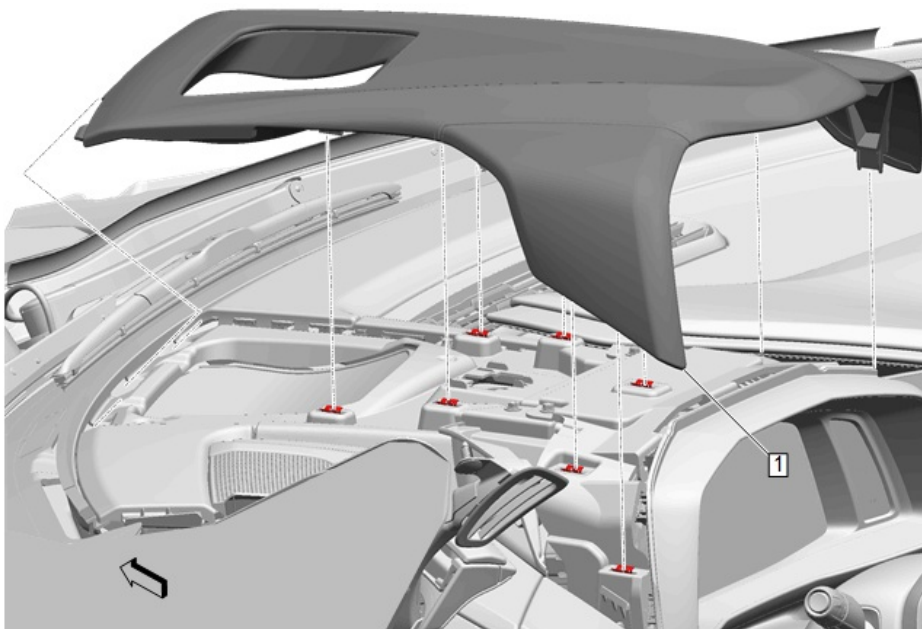
40.
[Click here for full size](#)

41. Instrument Panel Compartment (1) >> Remove - Instrument Panel Compartment Replacement



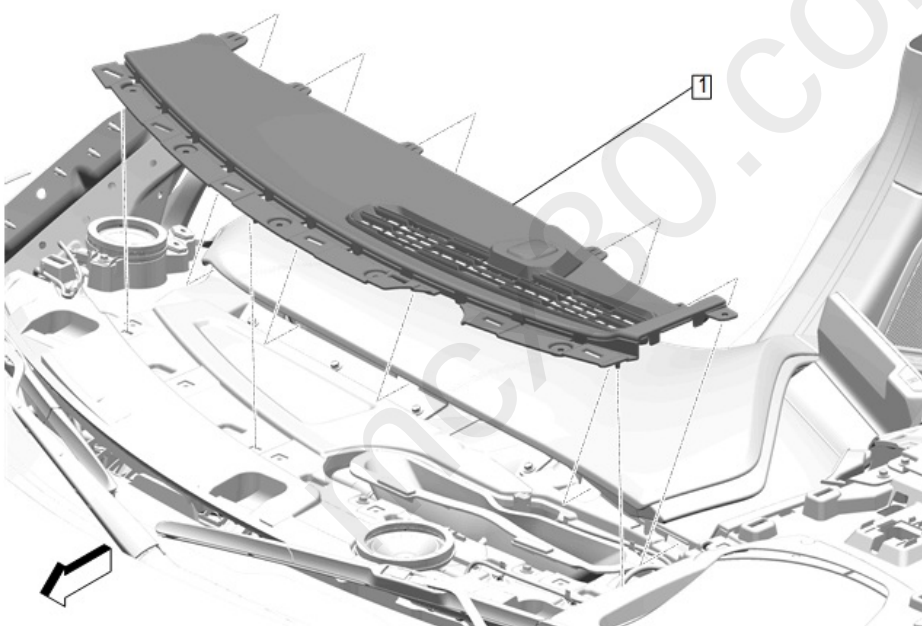
42.
[Click here for full size](#)

43. Radio Front Center Speaker Grille (1) >> Remove - Radio Front Center Speaker Grille Replacement



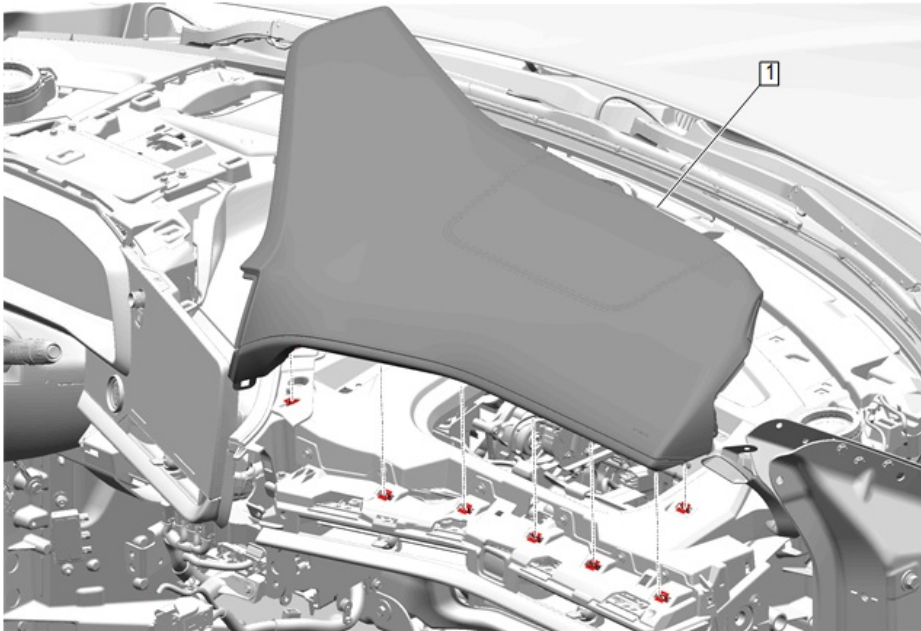
44.
[Click here for full size](#)

45. Instrument Panel Instrument Cluster Hood (1) >>> Remove - Instrument Panel Instrument Cluster Hood Replacement



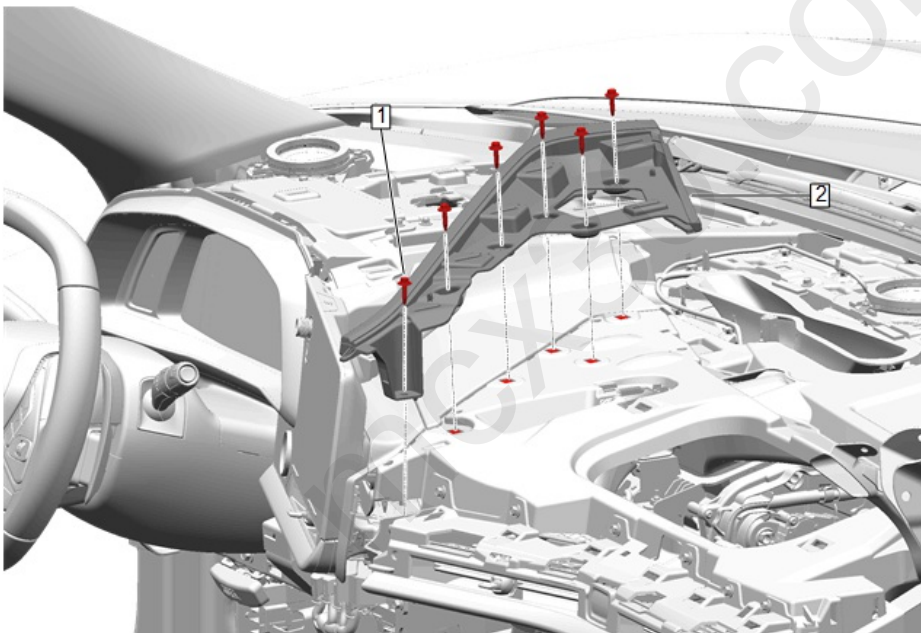
46.
[Click here for full size](#)

47. Instrument Panel Extension (1) >>> Remove - Instrument Panel Extension Replacement



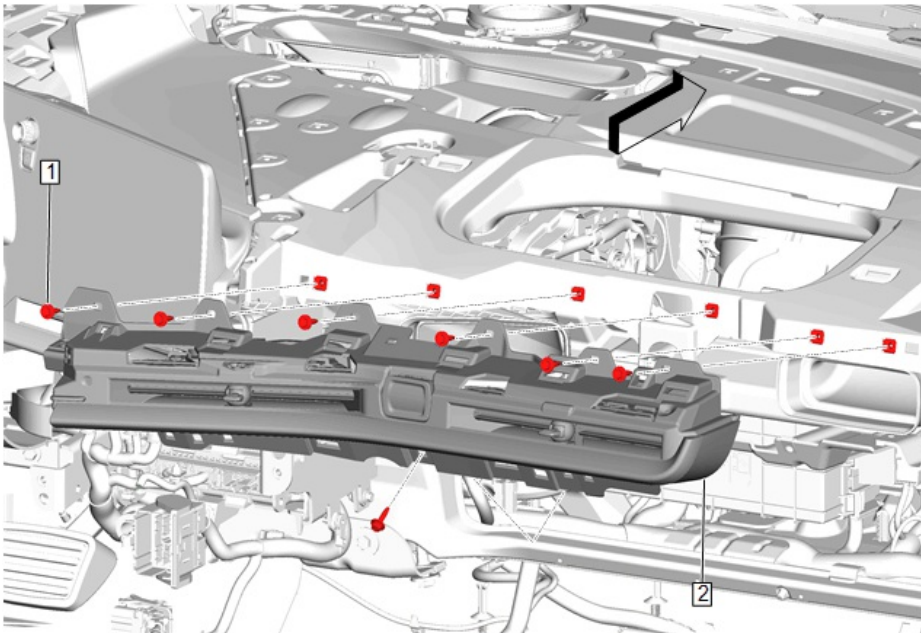
48.
[Click here for full size](#)

49. Instrument Panel Upper Trim Panel (1) >>> Remove - Instrument Panel Upper Trim Panel Replacement



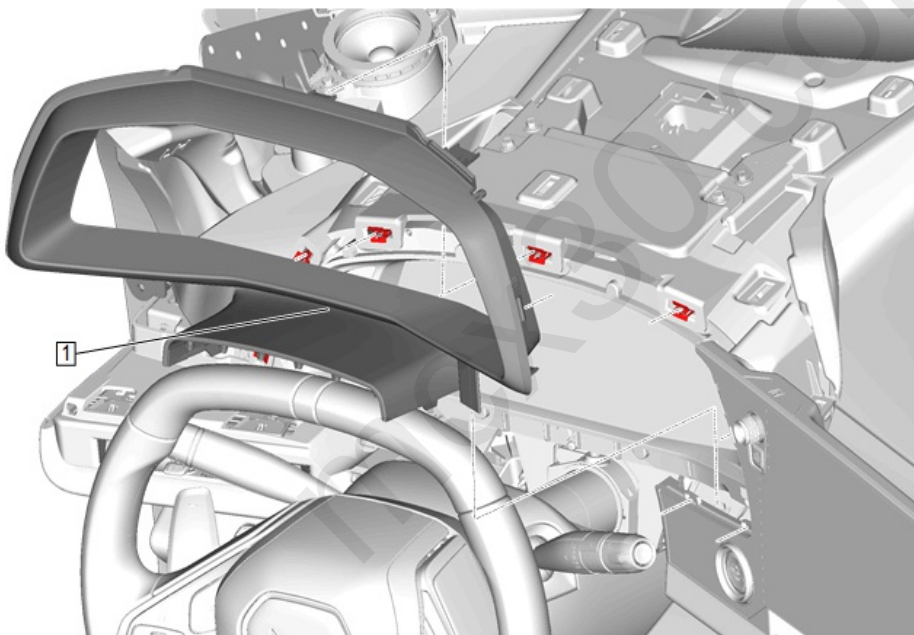
50.
[Click here for full size](#)

51. Instrument Panel Trim Pad (2) >>> Remove - Instrument Panel Trim Pad Replacement



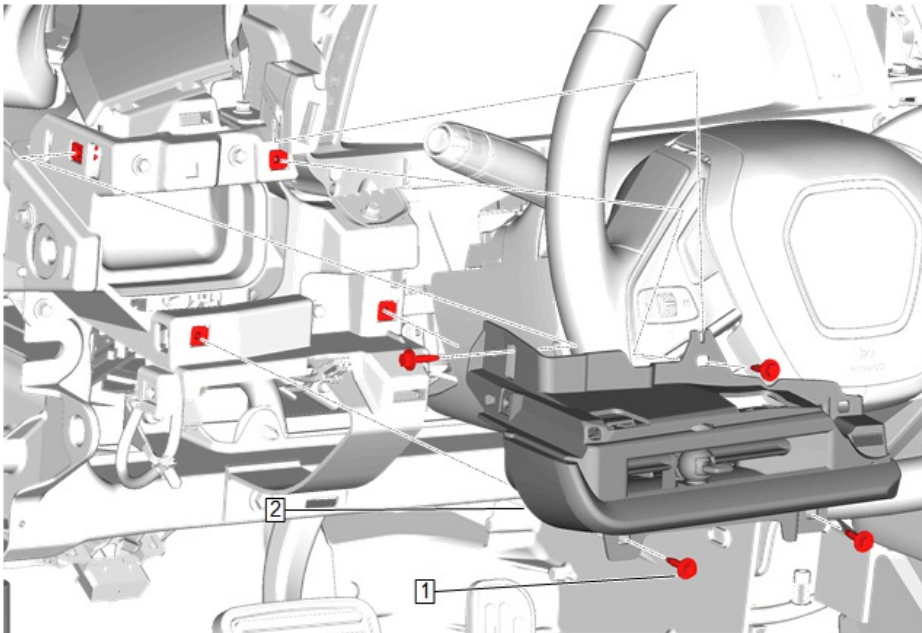
52.
[Click here for full size](#)

53. Instrument Panel Air Outlet Bezel - Right Side (2) >> Remove - Instrument Panel Air Outlet Bezel Replacement - Right Side



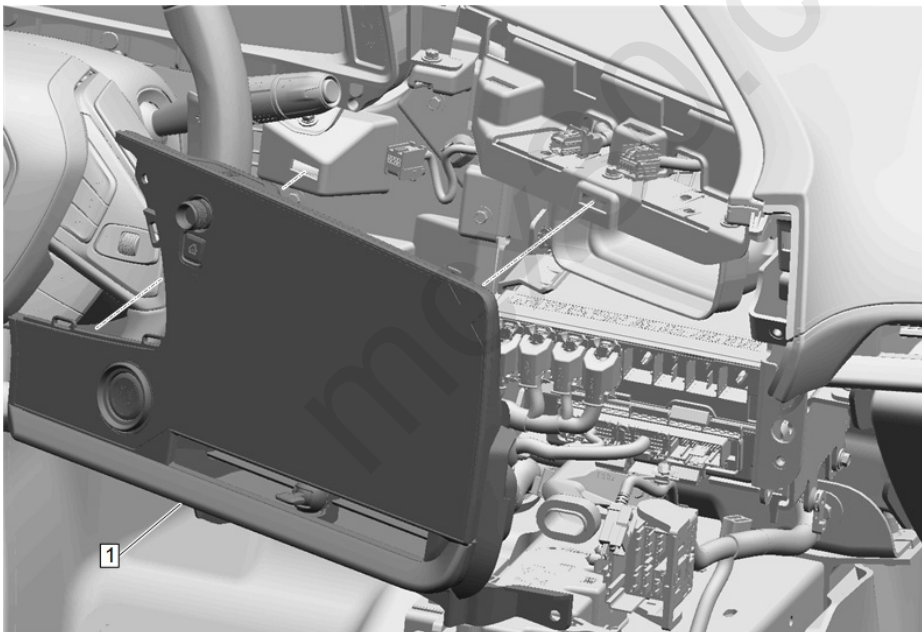
54.
[Click here for full size](#)

55. Instrument Panel Cluster Trim Plate (1) >> Remove - Instrument Panel Cluster Trim Plate Replacement



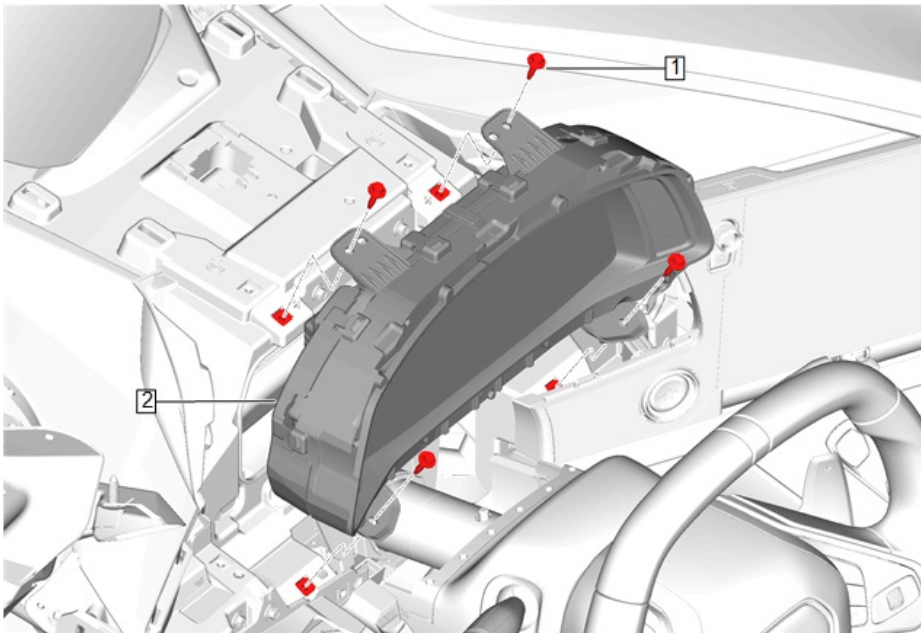
56.
[Click here for full size](#)

57. Instrument Panel Air Outlet Bezel - Left Side (2) >> Remove - Instrument Panel Air Outlet Bezel Replacement - Left Side



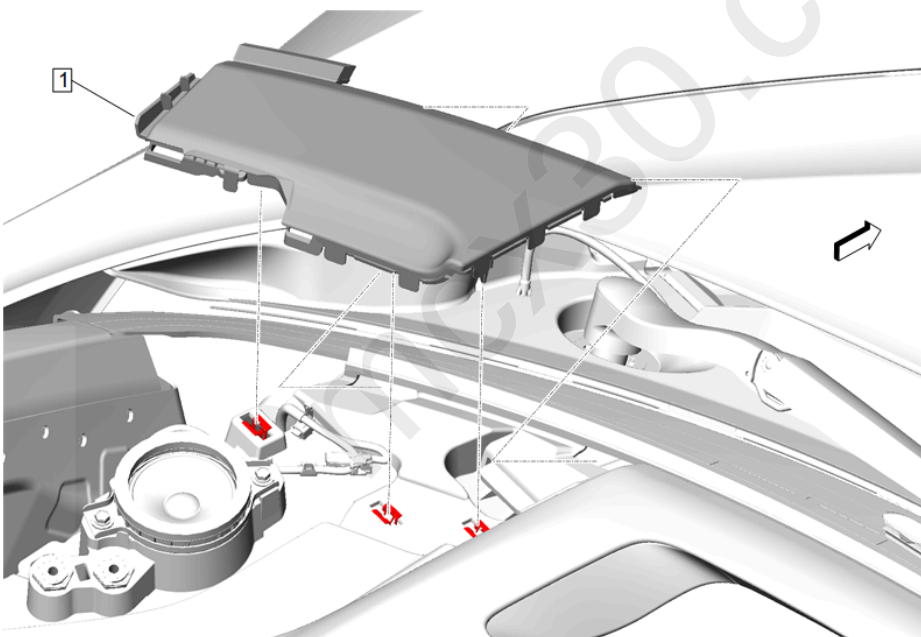
58.
[Click here for full size](#)

59. Radio Control (1) >> Remove - Radio Control Replacement



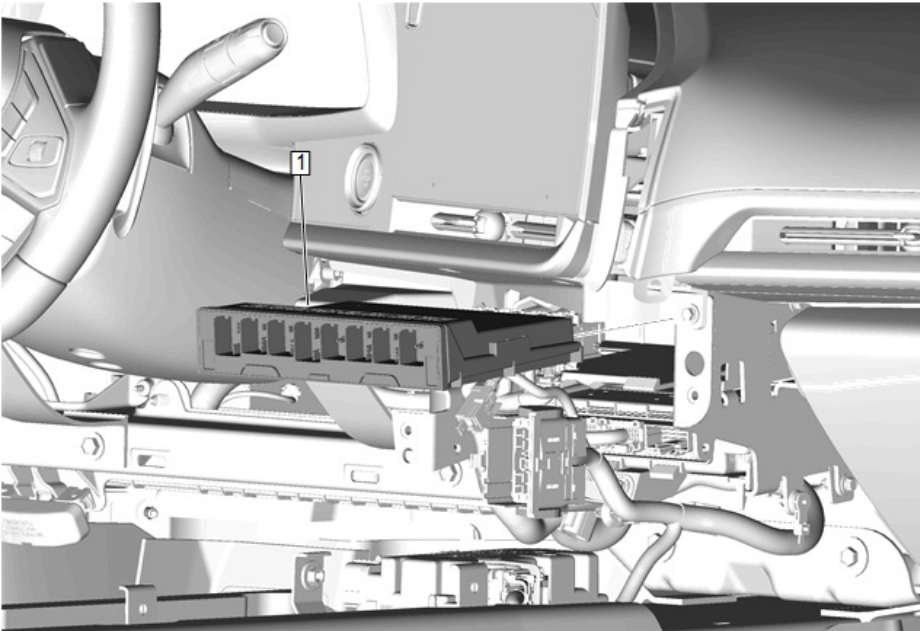
60.
[Click here for full size](#)

61. Instrument Cluster (2) >> Remove - Instrument Cluster Replacement



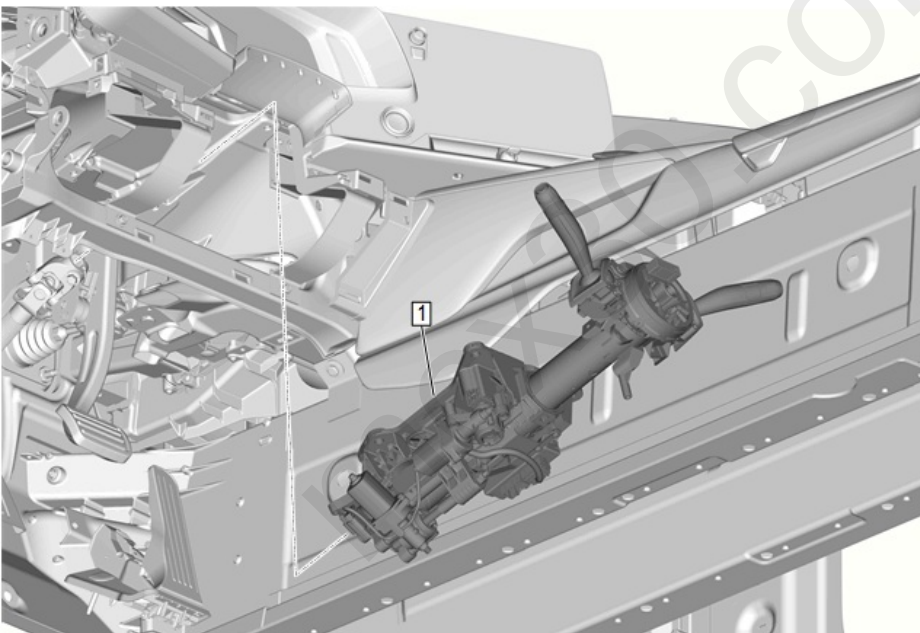
62.
[Click here for full size](#)

63. Instrument Panel Upper Trim Panel Cover (1) >> Remove - Instrument Panel Upper Trim Panel Cover Replacement



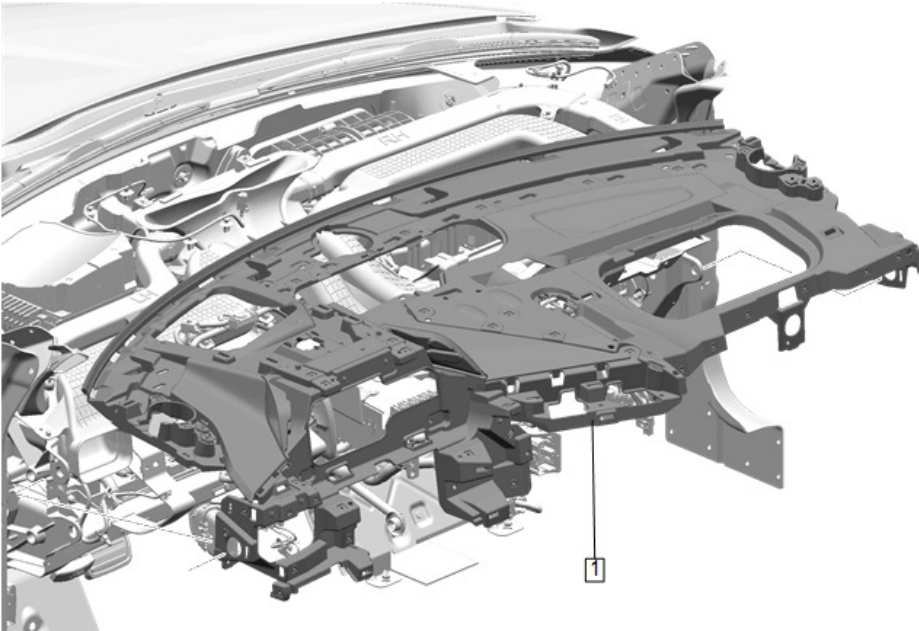
64.
[Click here for full size](#)

65. Body Control Module (1) >> Remove - Body Control Module Replacement

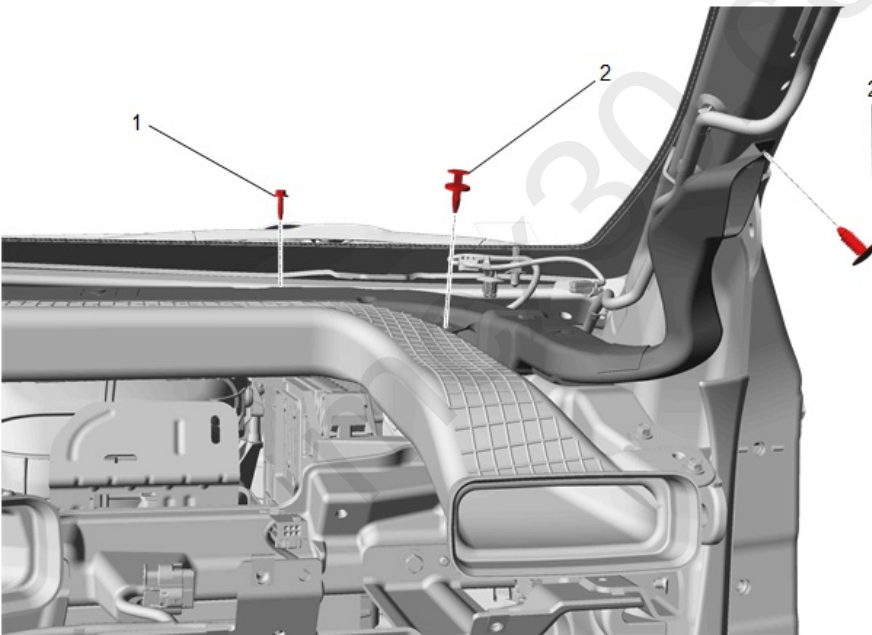


66.
[Click here for full size](#)

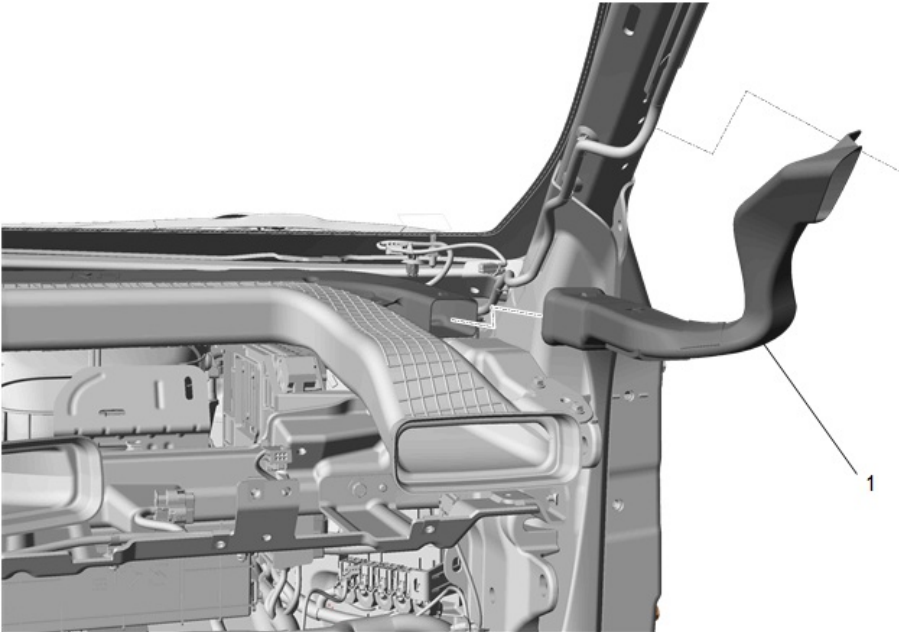
67. Steering Column (1) >> Remove - Steering Column Replacement



68. [Click here for full size](#)
69. Instrument Panel Carrier (1) >> Remove - Instrument Panel Carrier Replacement
70. With the aid of an assistant, remove the instrument panel carrier assembly from the vehicle. (1)



71. [Click here for full size](#)
72. Side Window Defogger Outlet Duct Bolt (1) >> Remove
73. Side Window Defogger Outlet Duct Retainer (2) >> Remove [2x]



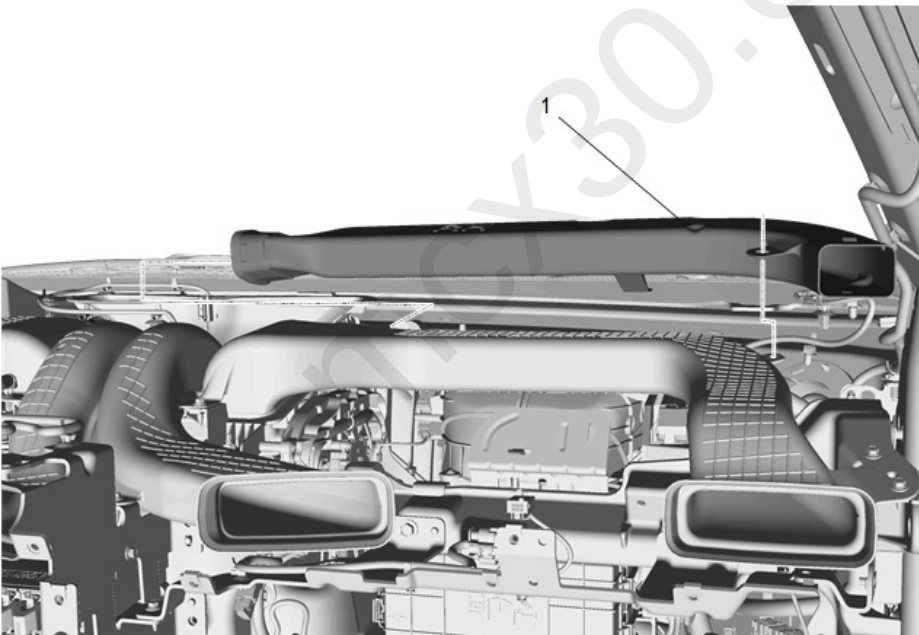
74.

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75. Side Window Defogger Outlet Outer Duct - Right Side (1) >> Remove

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

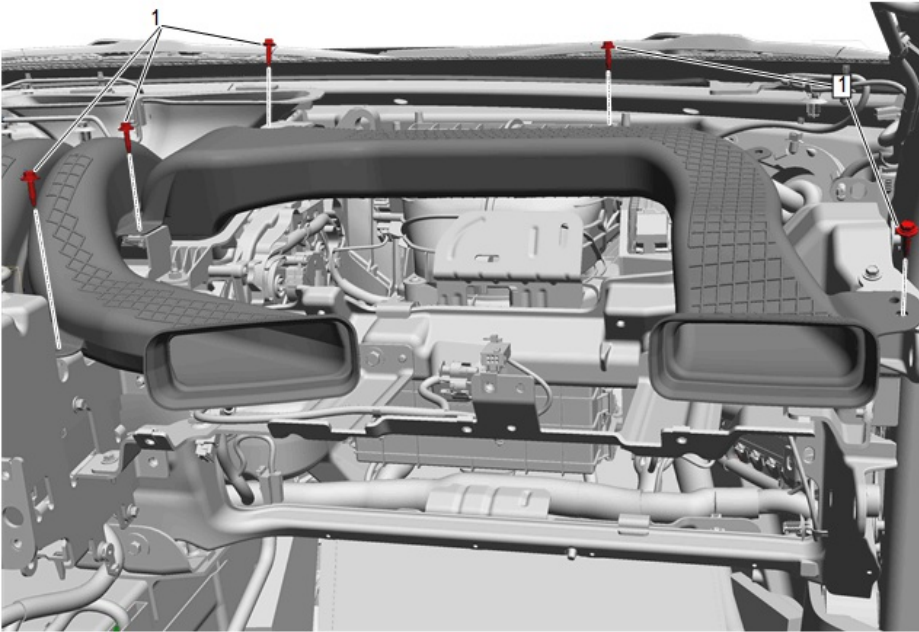
77. Instrument Panel Wiring Harness Retainer (1) @ Side Window Defogger Outlet Outer Duct - Right Side >> Remove



78.

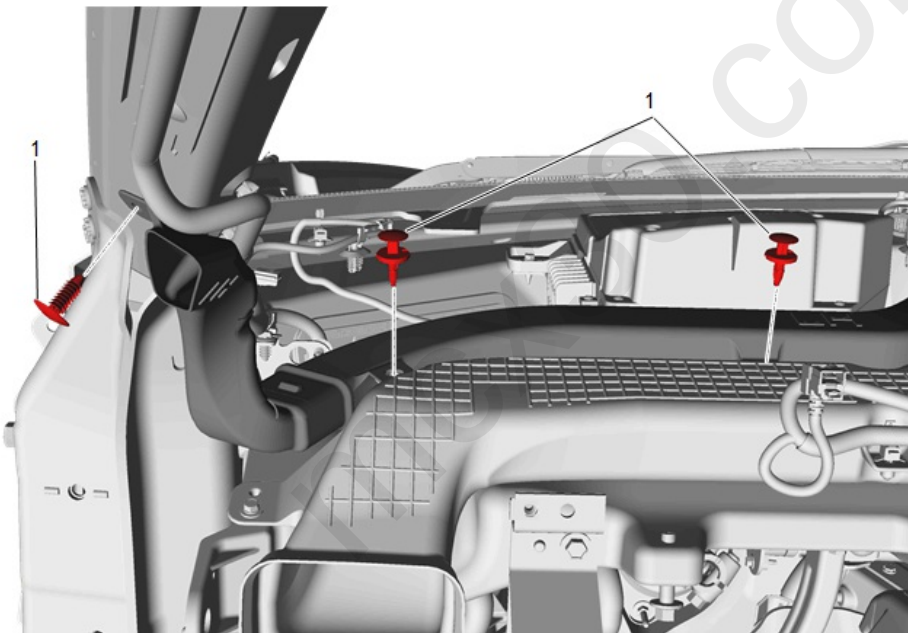
[Click here for full size](#)

79. Side Window Defogger Outlet Outer Duct - Right Side (1) >> Remove



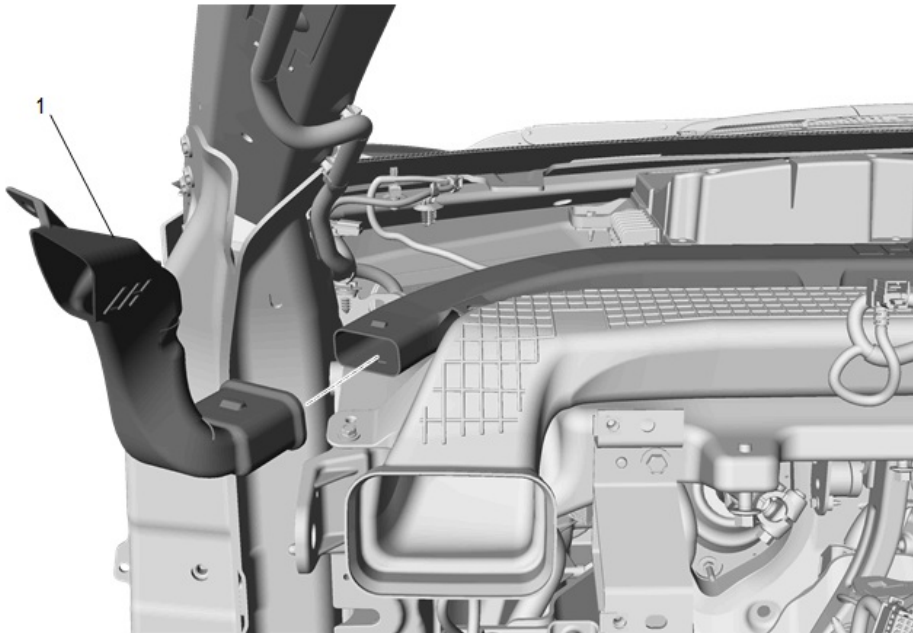
80.
[Click here for full size](#)

81. Instrument Panel Outer Air Outlet Duct Bolt (1) >> Remove [5x]



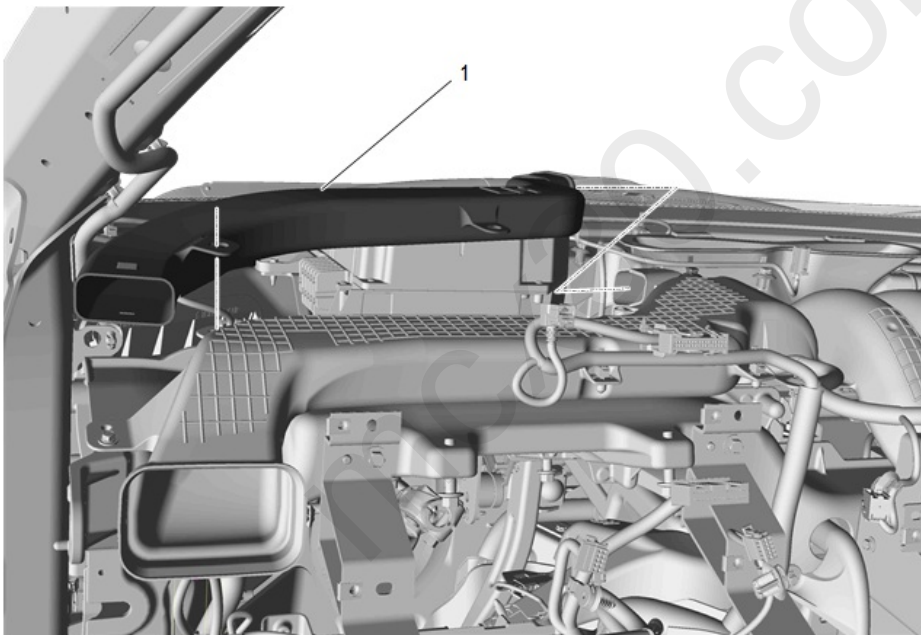
82.
[Click here for full size](#)

83. Side Window Defogger Outlet Duct Retainer (1) >> Remove [3x]



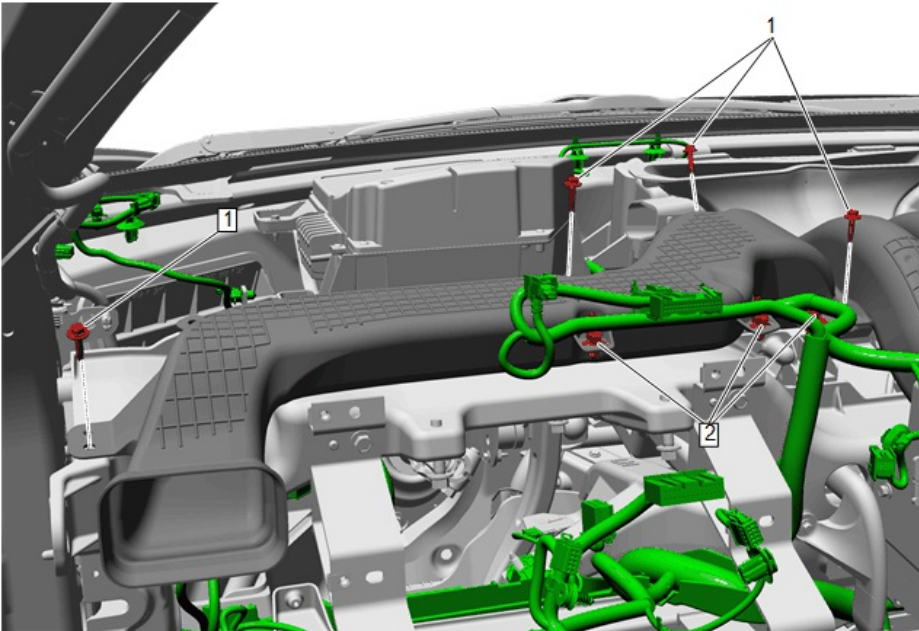
84.
[Click here for full size](#)

85. Side Window Defogger Outlet Duct - Left Side (1) >> Remove

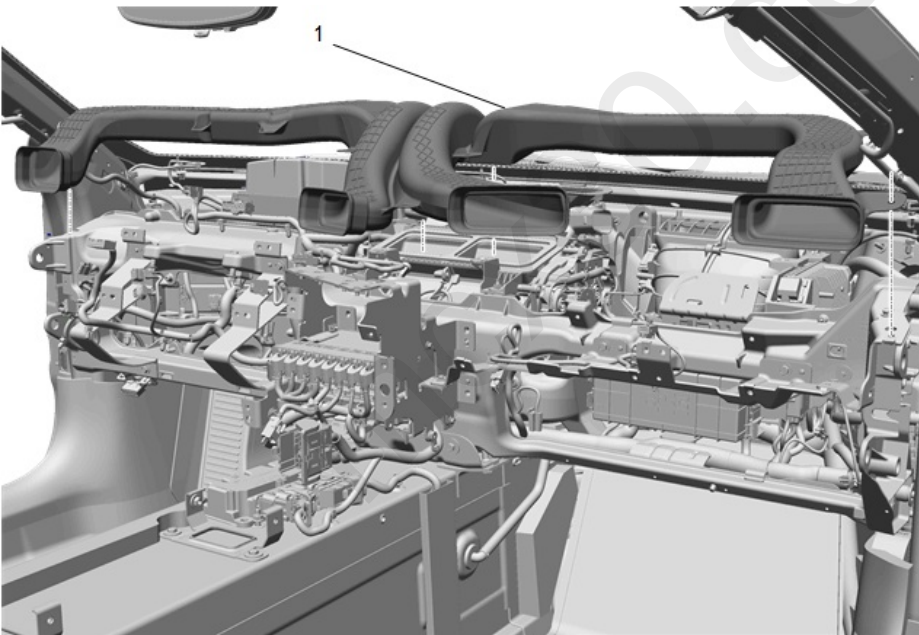


86.
[Click here for full size](#)

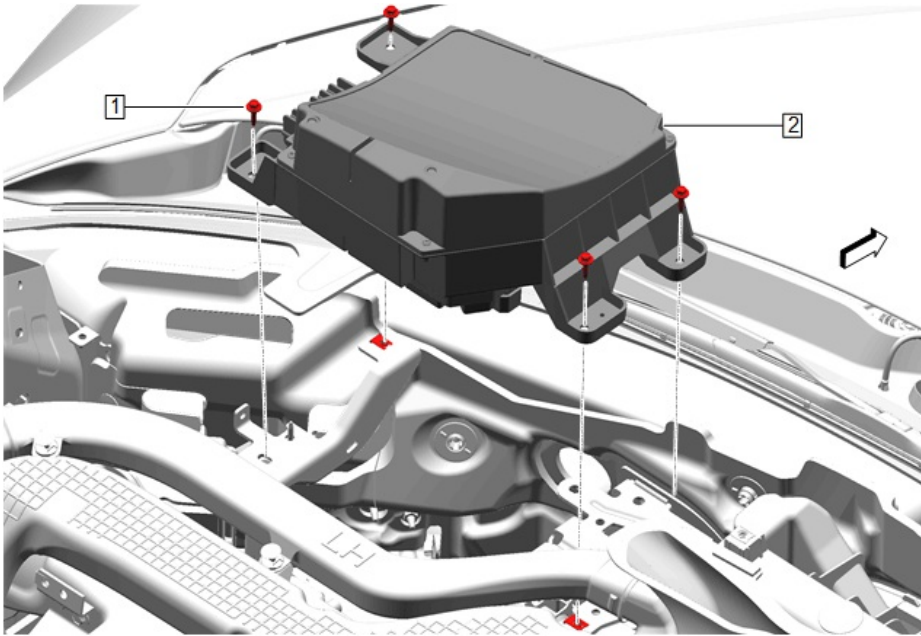
87. Side Window Defogger Outlet Duct - Left Side (1) >> Remove



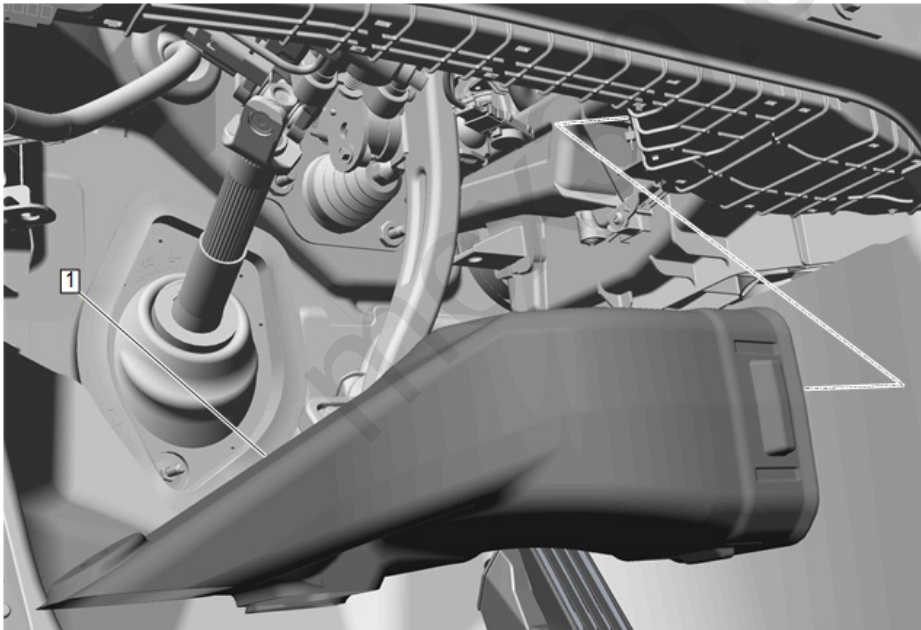
88. [Click here for full size](#)
89. Instrument Panel Outer Air Outlet Duct Bolt (1) >> Remove [4x]
90. Wiring Harness Retainer (2) @ Instrument Panel Outer Air Outlet Duct >> Remove [3x]



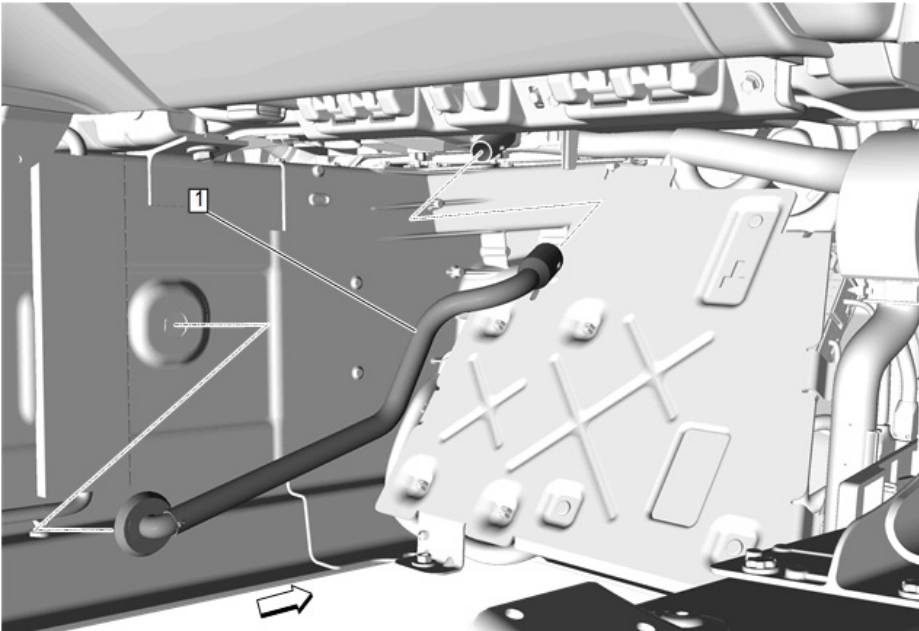
91. [Click here for full size](#)
92. Instrument Panel Outer Air Outlet Duct (1) >> Remove



93. [Click here for full size](#)
94. Head-Up Display Bolt (1) >> Remove [4x]
95. Head-Up Display (2) >> Remove
96. Disconnect the electrical connectors.

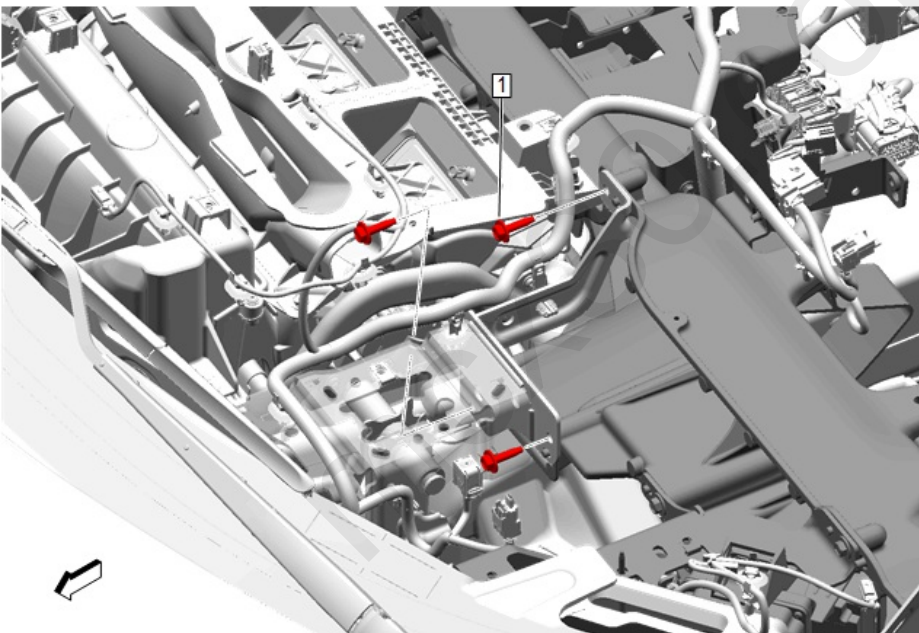


97. [Click here for full size](#)
98. Floor Front Air Outlet Duct - Left Side (1) >> Remove - Floor Front Air Outlet Duct Replacement - Left Side



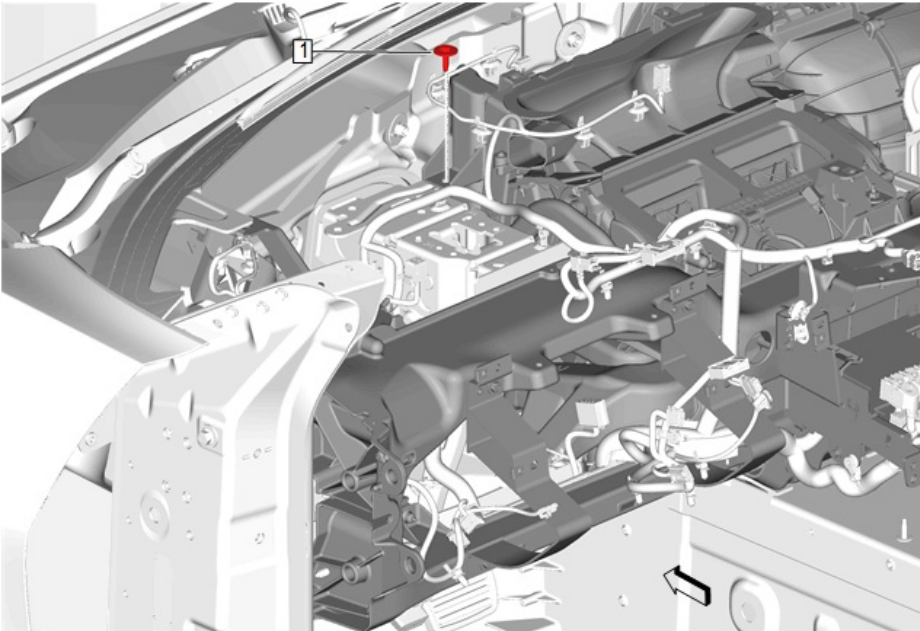
99.
[Click here for full size](#)

100. Air Conditioning Evaporator Case Drain Tube (1) @ Heater and Air Conditioning Evaporator and Blower Module >> Remove



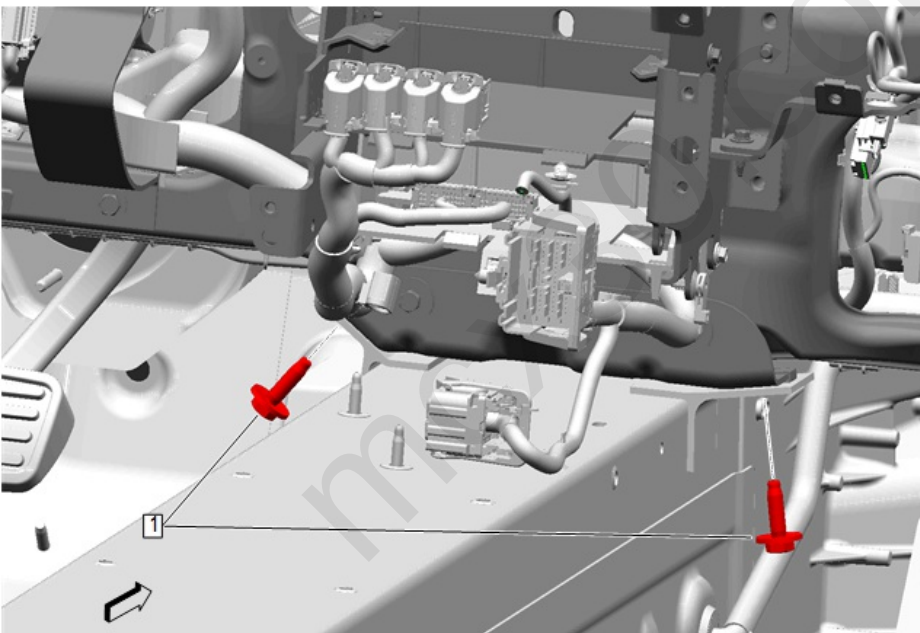
101.
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102. Brake and Accelerator and Clutch Pedal Bracket Bolt (1) >> Remove [3x]



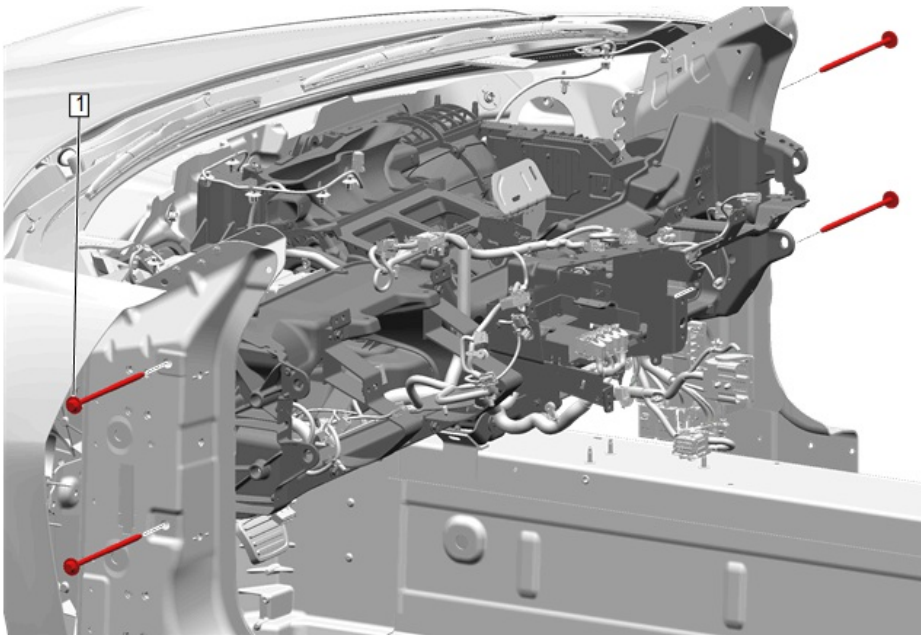
103.
[Click here for full size](#)

104. Heater and Air Conditioning Evaporator and Blower Module Bolt (1) >> Remove



105.
[Click here for full size](#)

106. Instrument Panel Center Lower Bracket Bolt (1) >> Remove [2x]

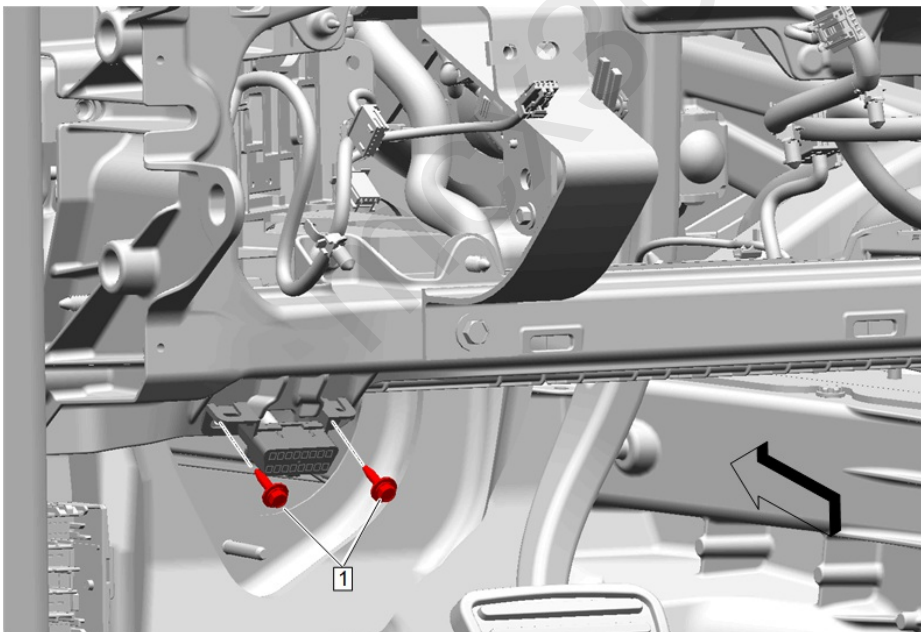


107. [Click here for full size](#)

108. Note:

When removing the right side instrument panel tie bar bolts, slide bolts out far enough to clear the tie bar, and leave the bolts in the cavity. The bolts do not have to be removed from the vehicle.

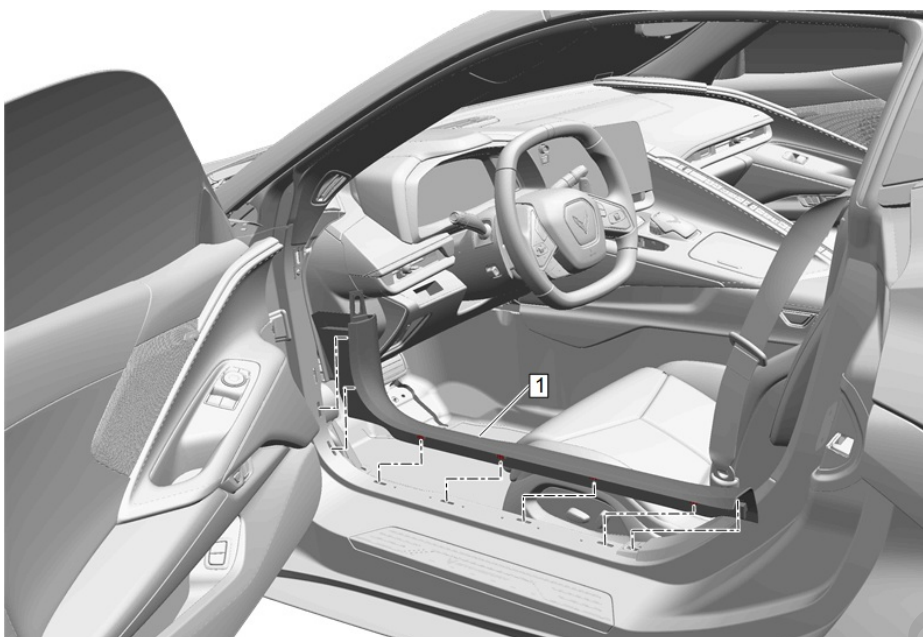
109. Instrument Panel Tie Bar Bolt (1) >> Remove [4x]



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

111. Data Link Connector Bolt (1) >> Remove [2x]

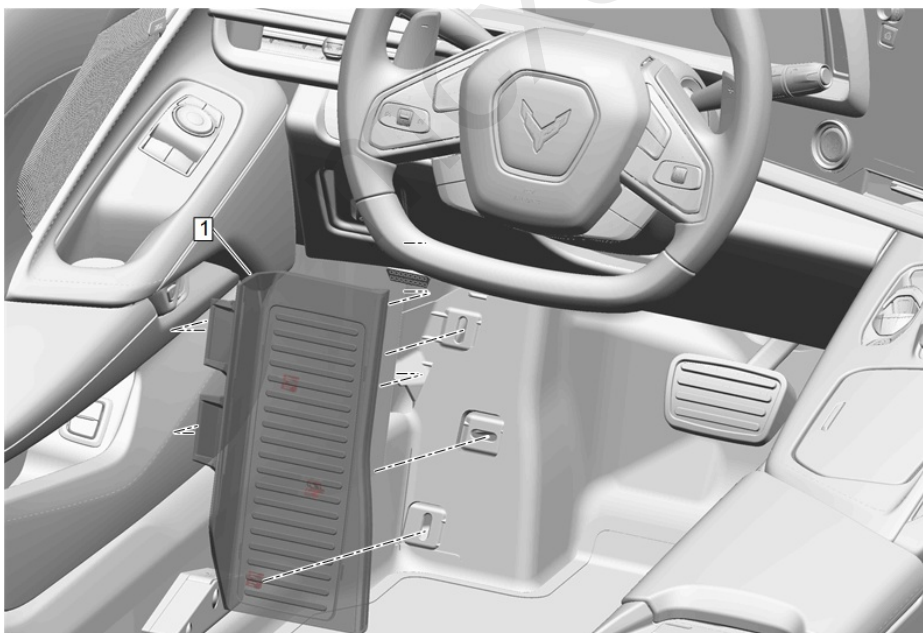
112. Data Link Connector >> Remove



113.
[Click here for full size](#)

114. Use a flat-bladed plastic trim tool in order to release the front side door sill garnish molding (1) clips.

115. Remove the left and right side front side door sill garnish moldings (1).



116.
[Click here for full size](#)

117. Use a flat-bladed plastic trim tool in order to release the driver footrest (1) from the driver footrest bracket.

118. Driver Footrest (1) >>> Remove

- 119. [Click here for full size](#)
- 120. Instrument Panel Wiring Harness Ground Bolt (1) >> Remove [2x]
- 121. Ground terminal (2) >> Remove [2x]
- 122. Electrical Connector (3) >> Disconnect [6x]
- 123. [Click here for full size](#)
- 124. Electrical Connector (1) @ Restraints Control Module >> Disconnect
- 125. Wiring Harness Retainer (2) >> Remove
- 126. Electrical Connector (3) @ Serial Data Gateway Module >> Disconnect
- 127. [Click here for full size](#)
- 128. Instrument Panel Wiring Harness Ground Bolt (1) >> Remove [2x]
- 129. Ground terminal (2) >> Remove [2x]
- 130. Electrical Connector (3) >> Disconnect [6x]
- 131. [Click here for full size](#)
- 132. Disconnect the brake pedal position sensor electrical connector (1).
- 133. Wiring Harness Retainer (2) >> Remove [5x]



- 134. [Click here for full size](#)
- 135. Remove the instrument panel tie bar and heater and air conditioning evaporator and blower module (1) together with the aid of an assistant.
- 136. [Click here for full size](#)
- 137. Air Conditioning Sealing Washer - Large (1) >> Remove and DISCARD
- 138. Air Conditioning Sealing Washer - Small (2) >> Remove and DISCARD
- 139. [Click here for full size](#)
- 140. Radio Cooling Duct Bolt (1) >> Remove [2x]
- 141. [Click here for full size](#)
- 142. Radio Cooling Duct (1) >> Remove

Installation Procedure

1. [Click here for full size](#)
2. Radio Cooling Duct (1) >> Install
3. [Click here for full size](#)
4. Caution:

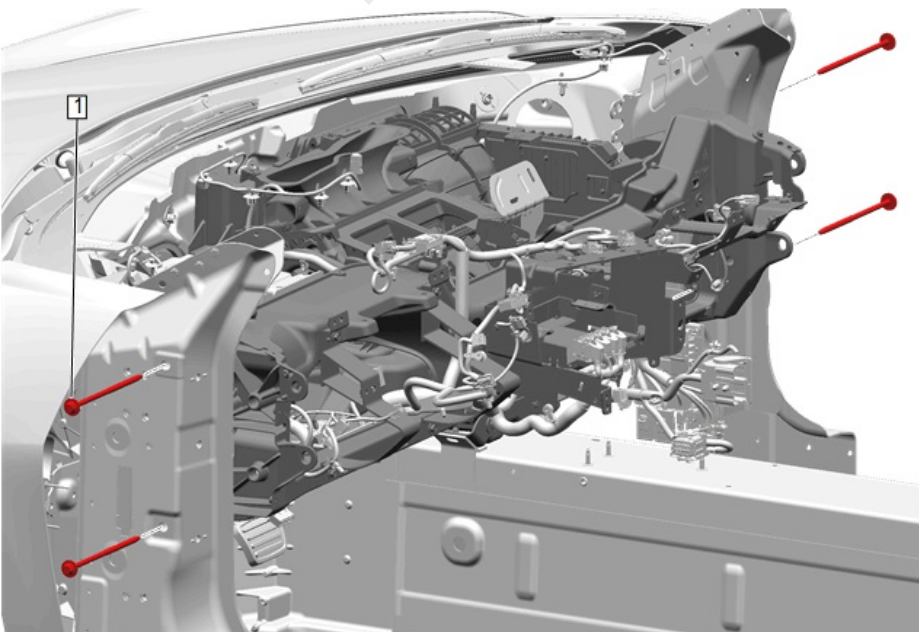
Refer to Fastener Caution.

5. Radio Cooling Duct Bolt (1) >> Install and tighten [2x]1.5 N-m (13 lb in)
6. [Click here for full size](#)
7. Air Conditioning Sealing Washer - Large (1) >> Install NEW
8. Air Conditioning Sealing Washer - Small (2) >> Install NEW



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

10. Install the instrument panel tie bar and heater and air conditioning evaporator and blower module (1) together with the aid of an assistant.



- 11.

[Click here for full size](#)

12. Note:

Refer to the procedure link for torque specification.

13. Instrument Panel Tie Bar Bolt (1) >> Install and tighten [4x] - Instrument Panel Tie Bar Replacement

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

15. Wiring Harness Retainer (2) >> Install [5x]

16. Connect the brake pedal position sensor electrical connector (1).

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

18. Electrical Connector (3) >> Connect [6x]

19. Ground terminal (2) >> Install [2x]

20. Note:

Refer to the procedure link for torque specification.

21. Instrument Panel Wiring Harness Ground Bolt (1) >> Install and tighten [2x] - Ground Repair

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

23. Electrical Connector (3) @ Serial Data Gateway Module >> Connect

24. Wiring Harness Retainer (2) >> Install

25. Electrical Connector (1) @ Restraints Control Module >> Connect

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

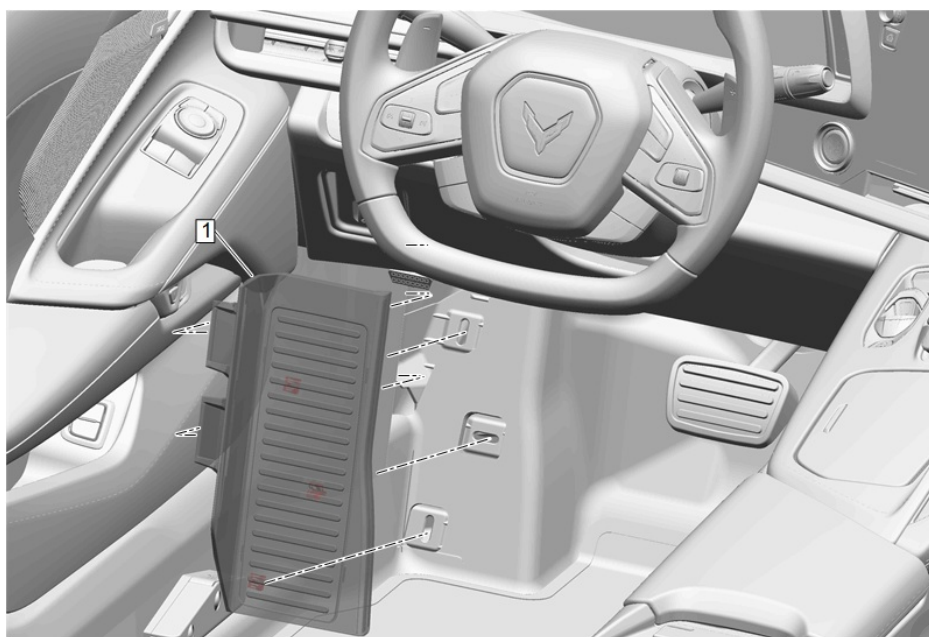
27. Electrical Connector (3) >> Connect [6x]

28. Ground terminal (2) >> Install [2x]

29. Note:

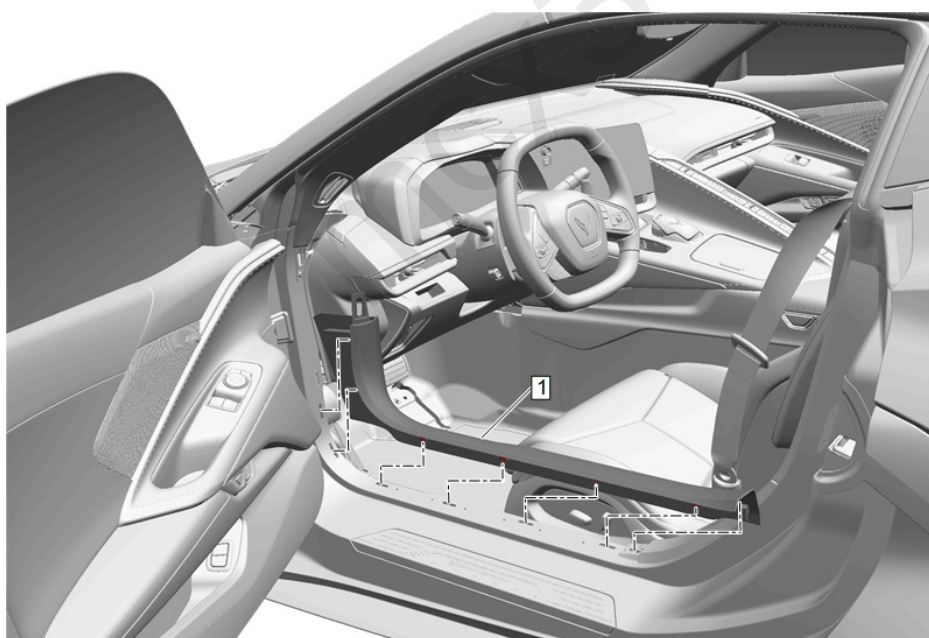
Refer to the procedure link for torque specification.

30. Instrument Panel Wiring Harness Ground Bolt (1) >> Install and tighten [2x] - Ground Repair



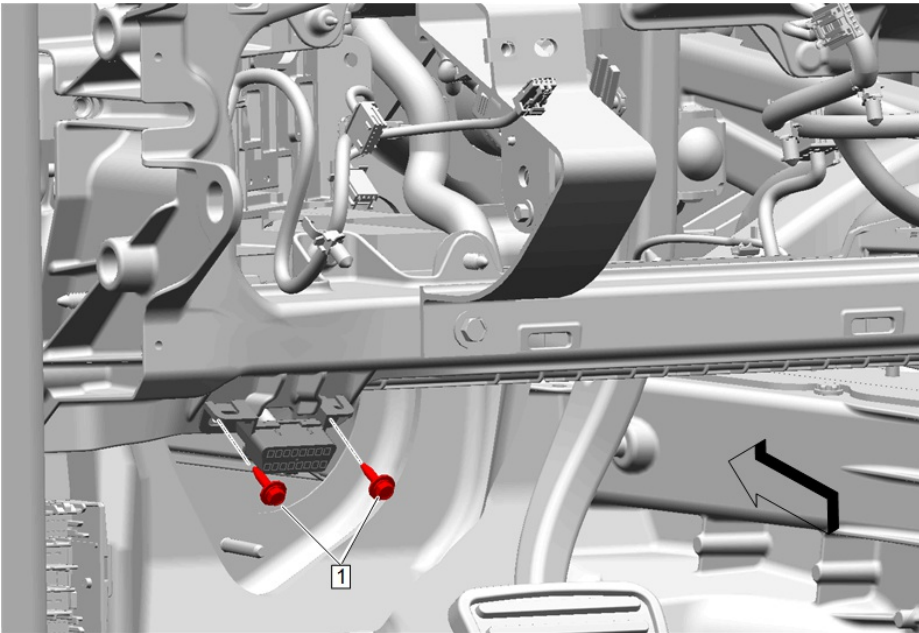
31.
[Click here for full size](#)

32. Driver Footrest (1) >> Install



33.
[Click here for full size](#)

34. Install the left and right side front side door sill garnish moldings (1).



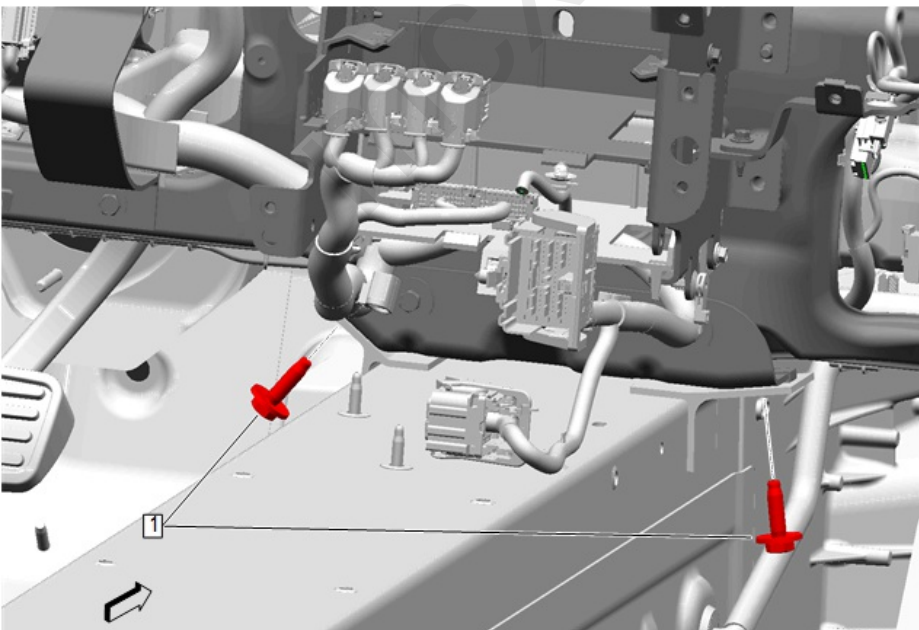
35.
[Click here for full size](#)

36. Data Link Connector >> Install

37. Note:

Refer to the procedure link for torque specification.

38. Data Link Connector Bolt (1) >> Install and tighten [2x] - Instrument Panel Tie Bar Replacement

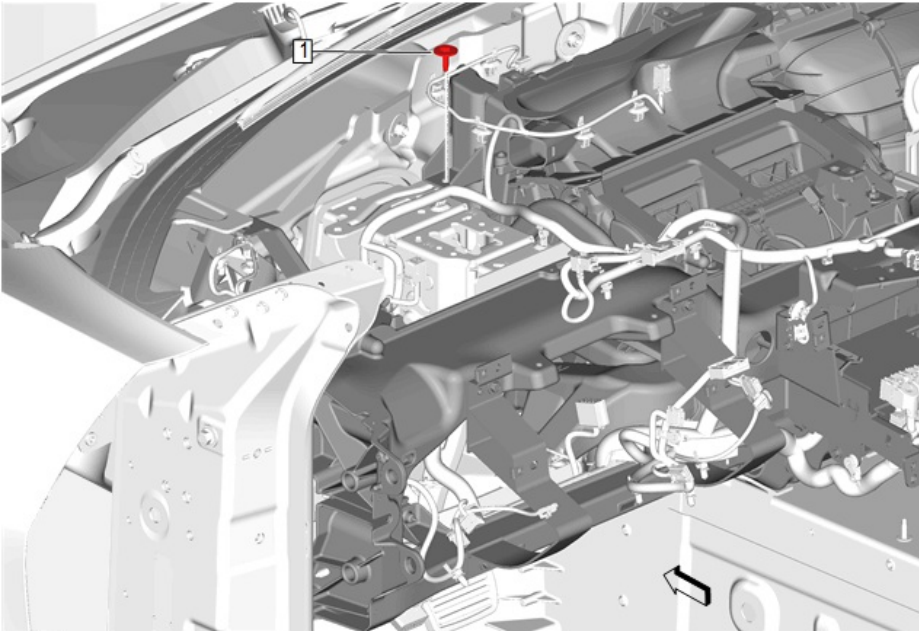


39.
[Click here for full size](#)

40. Note:

Refer to the procedure link for torque specification.

41. Instrument Panel Center Lower Bracket Bolt (1) >> Install and tighten [2x] - Instrument Panel Tie Bar Replacement

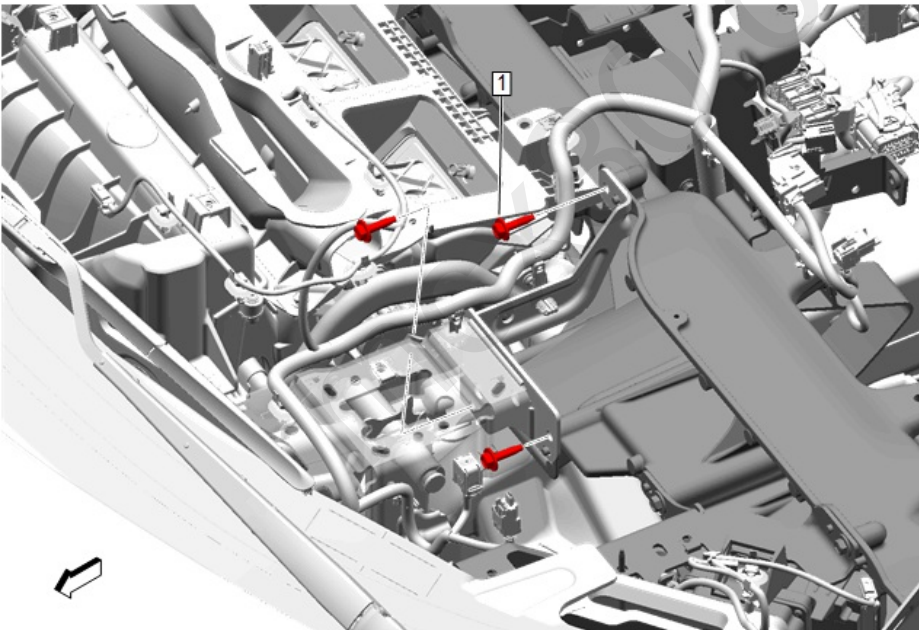


42. [Click here for full size](#)

43. Note:

Refer to the procedure link for torque specification.

44. Heater and Air Conditioning Evaporator and Blower Module Bolt (1) >> Install and tighten - Instrument Panel Tie Bar Replacement

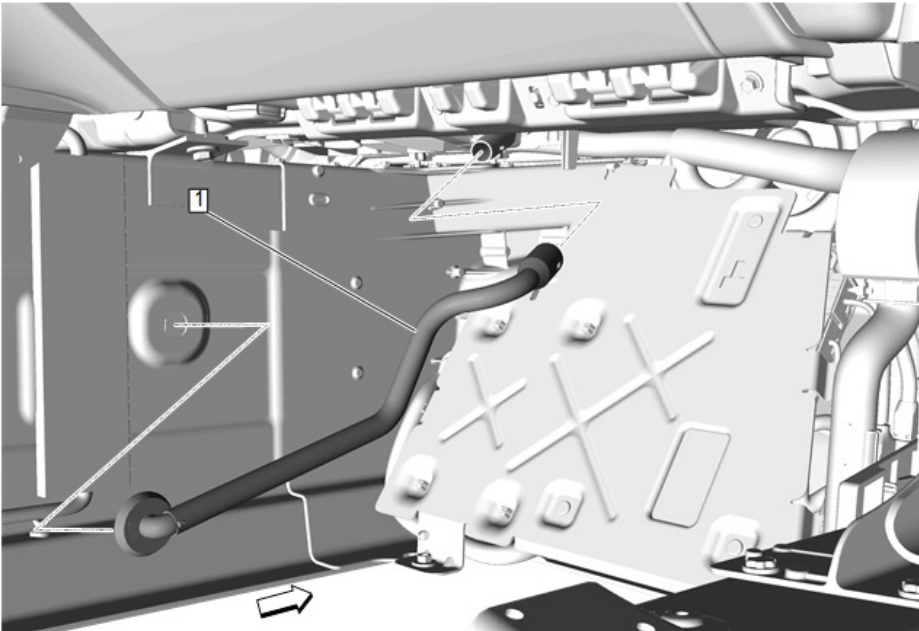


45. [Click here for full size](#)

46. Note:

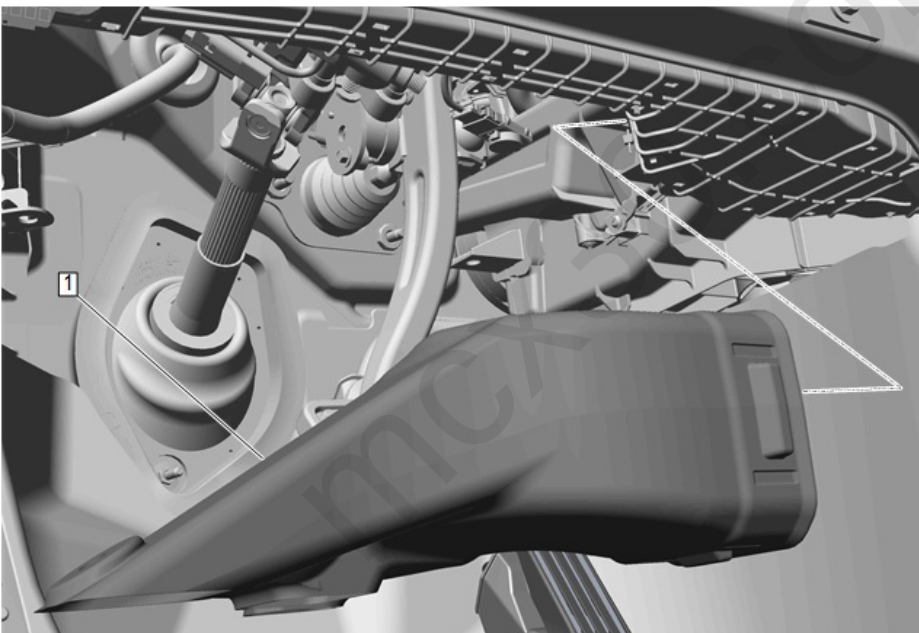
Refer to the procedure link for torque specification.

47. Brake and Accelerator and Clutch Pedal Bracket Bolt (1) >> Install and tighten [3x] - Instrument Panel Tie Bar Replacement



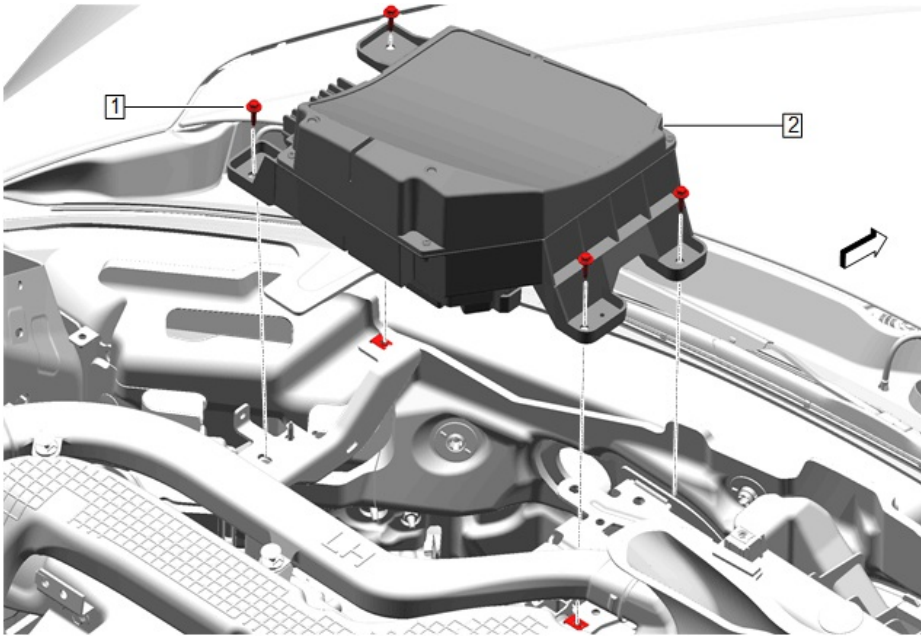
48.
[Click here for full size](#)

49. Air Conditioning Evaporator Case Drain Tube (1) @ Heater and Air Conditioning Evaporator and Blower Module >> Install



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

51. Floor Front Air Outlet Duct - Left Side (1) >> Install - Floor Front Air Outlet Duct Replacement - Left Side



52.

[Click here for full size](#)

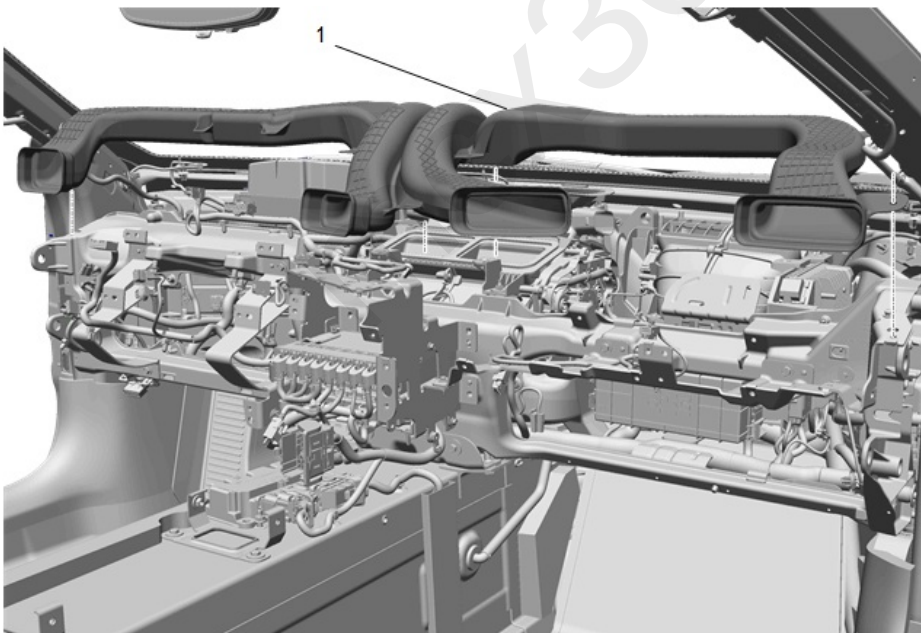
53. Connect the electrical connectors.

54. Head-Up Display (2) >> Install

55. Note:

Refer to the procedure link for torque specification.

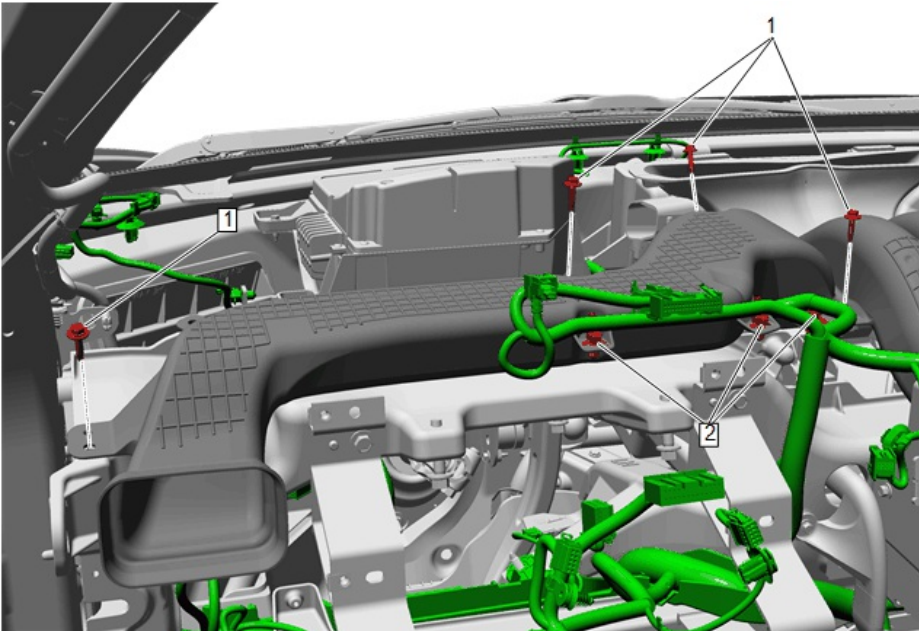
56. Head-Up Display Bolt (1) >> Install and tighten [4x] - Head-Up Display Replacement



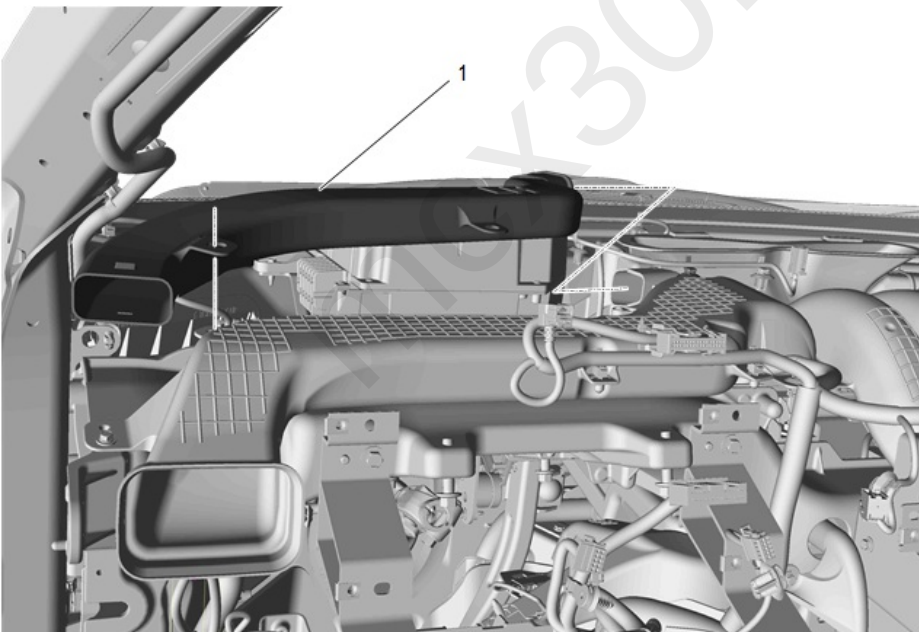
57.

[Click here for full size](#)

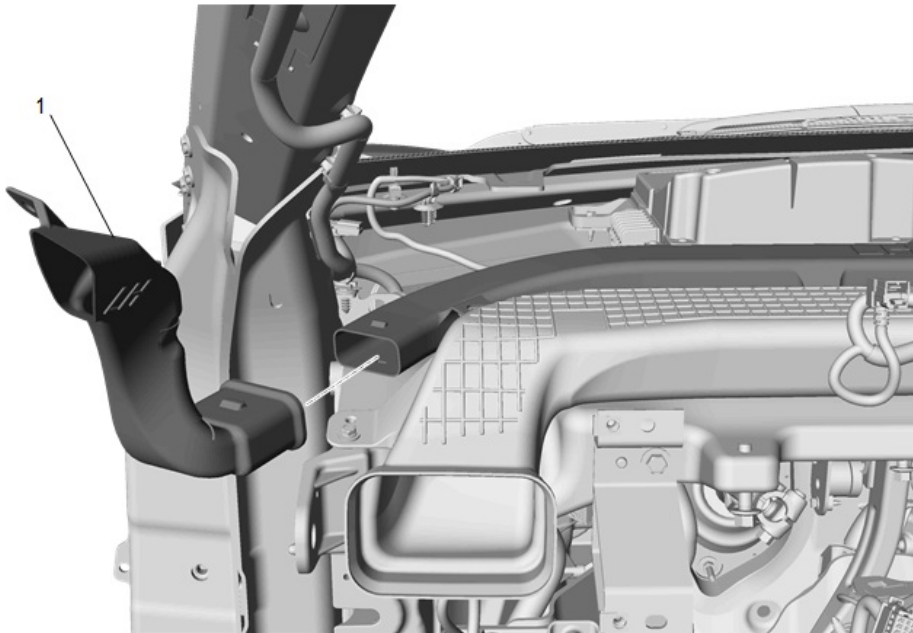
58. Instrument Panel Outer Air Outlet Duct (1) >> Install



59. [Click here for full size](#)
60. Wiring Harness Retainer (2) @ Instrument Panel Outer Air Outlet Duct >> Install [3x]
61. Note:
Refer to the procedure link for torque specification.
62. Instrument Panel Outer Air Outlet Duct Bolt (1) >> Install and tighten [4x] - Instrument Panel Outer Air Outlet Duct Replacement

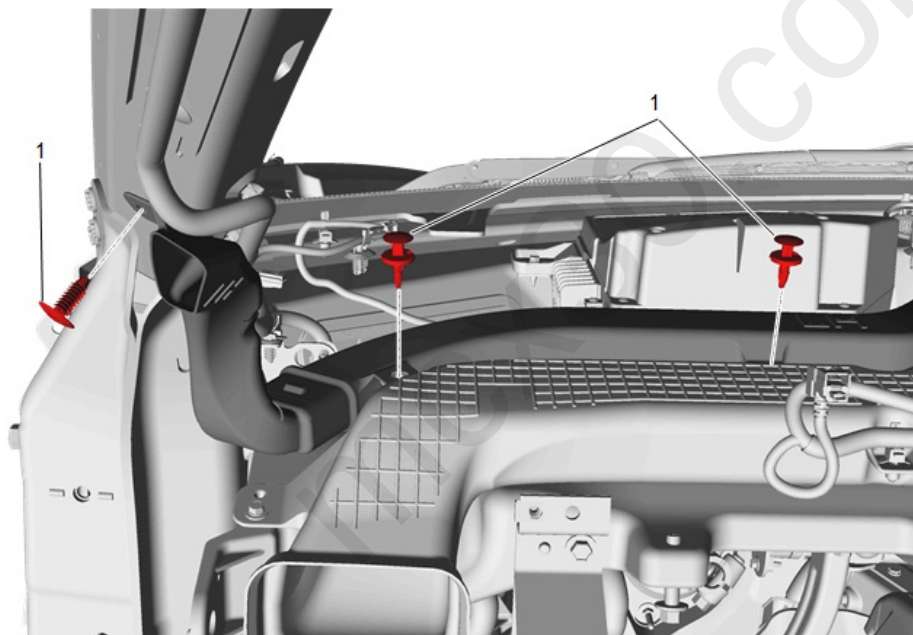


63. [Click here for full size](#)
64. Side Window Defogger Outlet Duct - Left Side (1) >> Install



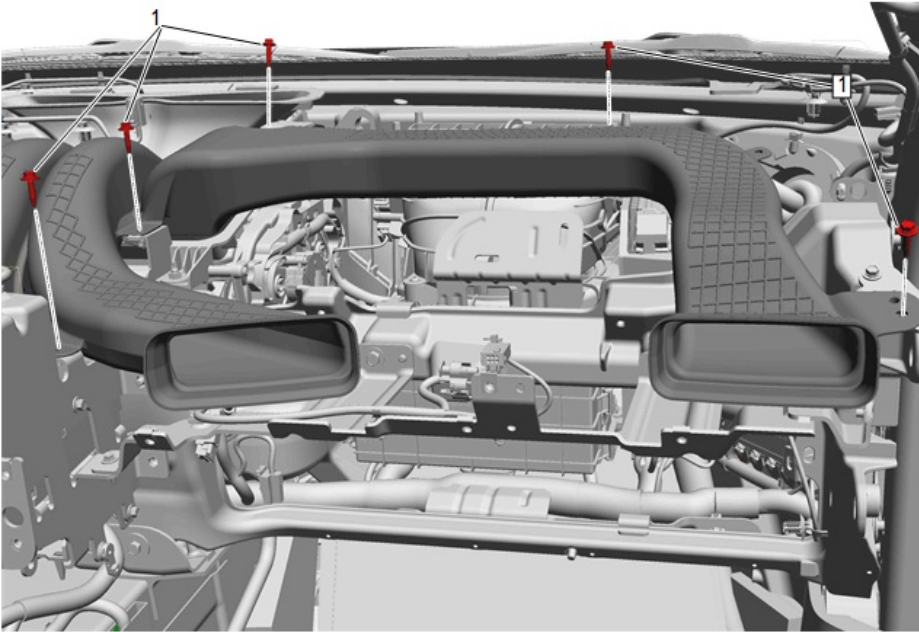
65.
[Click here for full size](#)

66. Side Window Defogger Outlet Duct - Left Side (1) >> Install



67.
[Click here for full size](#)

68. Side Window Defogger Outlet Duct Retainer (1) >> Install [3x]



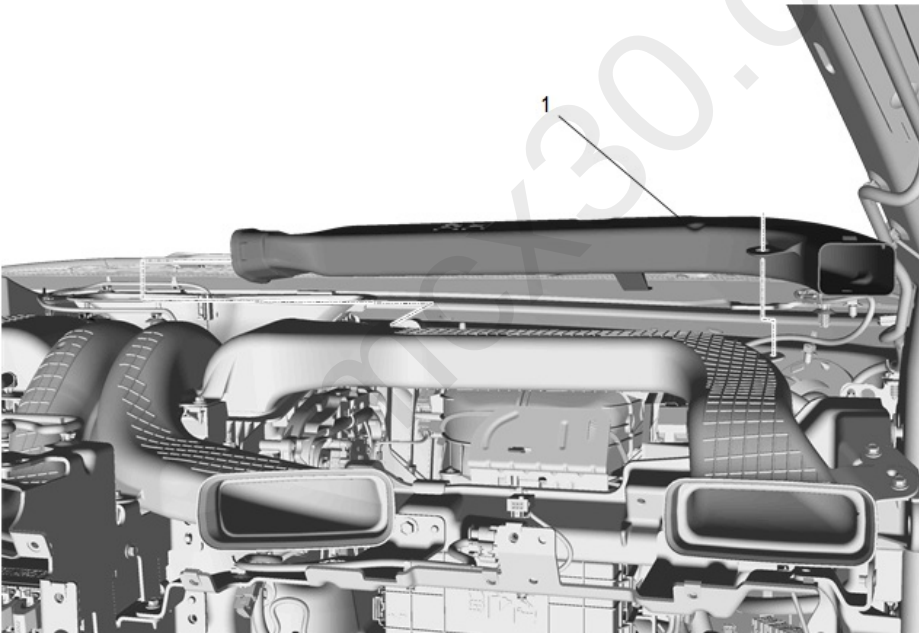
69.

[Click here for full size](#)

70. Note:

Refer to the procedure link for torque specification.

71. Instrument Panel Outer Air Outlet Duct Bolt (1) >> Install and tighten [5x] - Instrument Panel Outer Air Outlet Duct Replacement



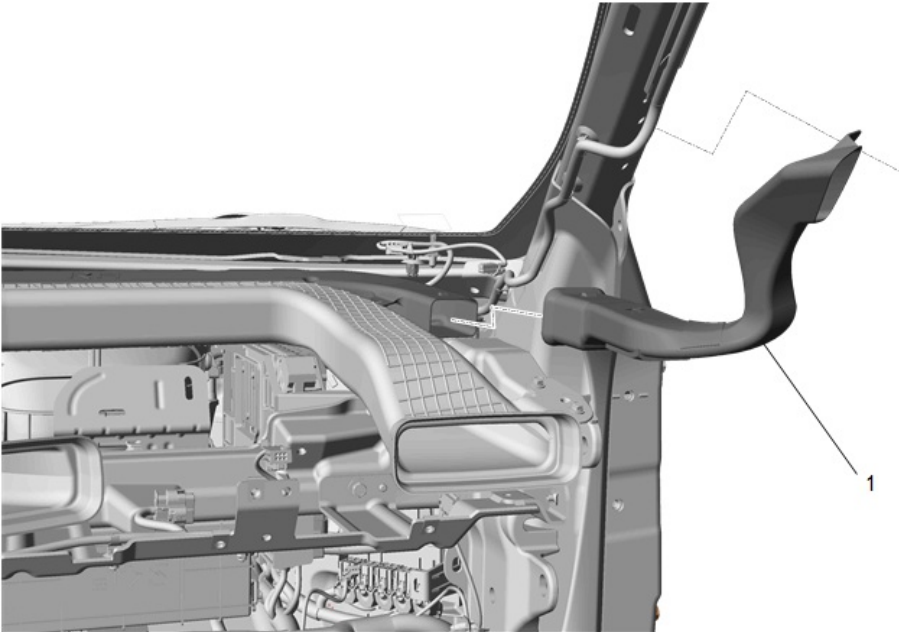
72.

[Click here for full size](#)

73. Side Window Defogger Outlet Outer Duct - Right Side (1) >> Install

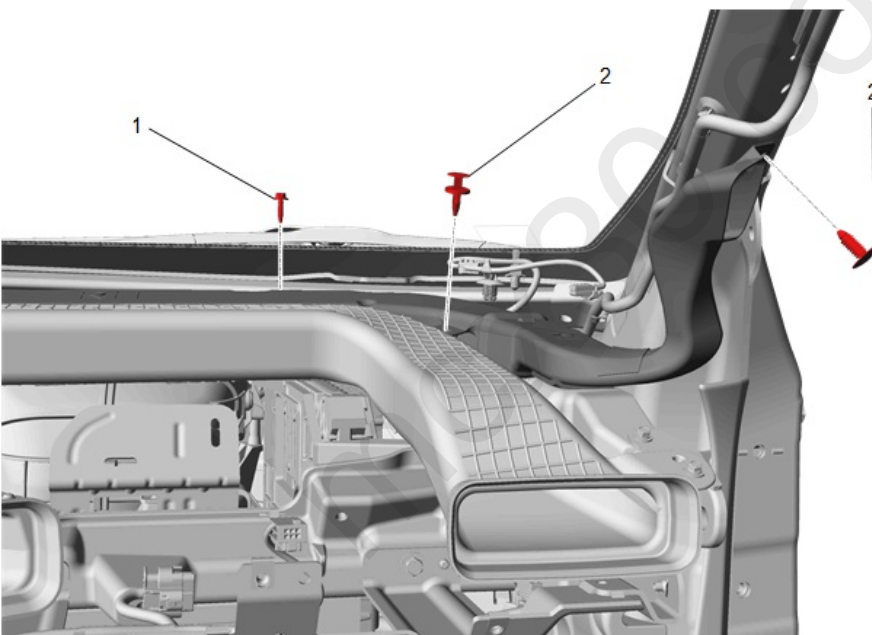
74. [Click here for full size](#)

75. Instrument Panel Wiring Harness Retainer (1) @ Side Window Defogger Outlet Outer Duct - Right Side >> Install



76.
[Click here for full size](#)

77. Side Window Defogger Outlet Outer Duct - Right Side (1) >> Install



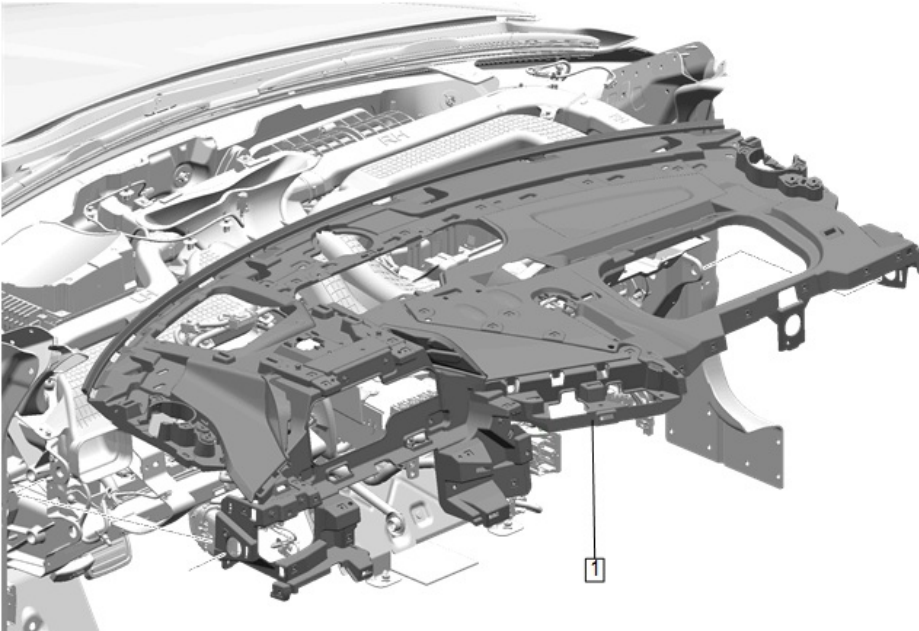
78.
[Click here for full size](#)

79. Side Window Defogger Outlet Duct Retainer (2) >> Install [2x]

80. Note:

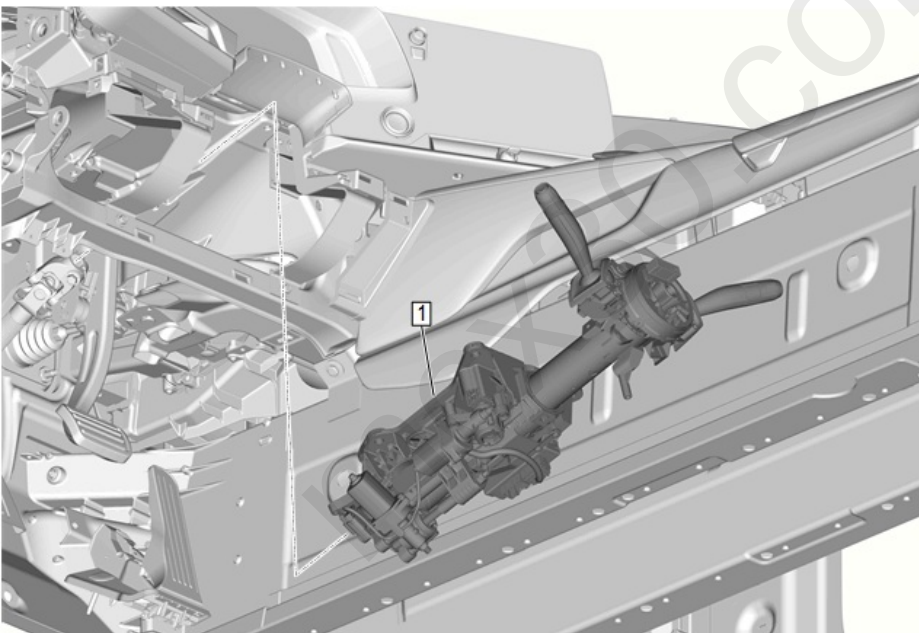
Refer to the procedure link for torque specification.

81. Side Window Defogger Outlet Duct Bolt (1) >> Install and tighten - Side Window Defogger Outlet Duct Replacement - Right Side



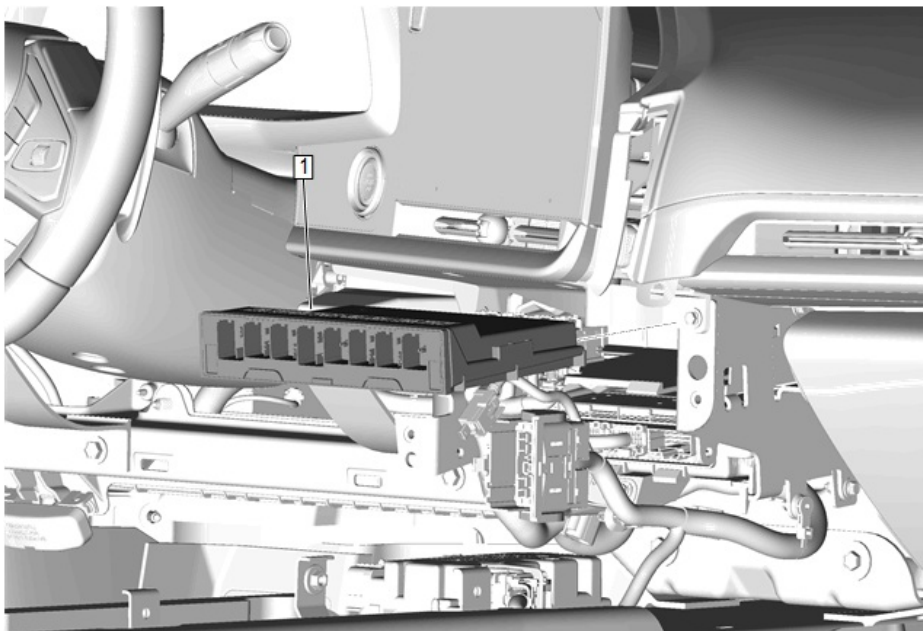
82.
[Click here for full size](#)

83. Instrument Panel Carrier (1) >> Install - Instrument Panel Carrier Replacement



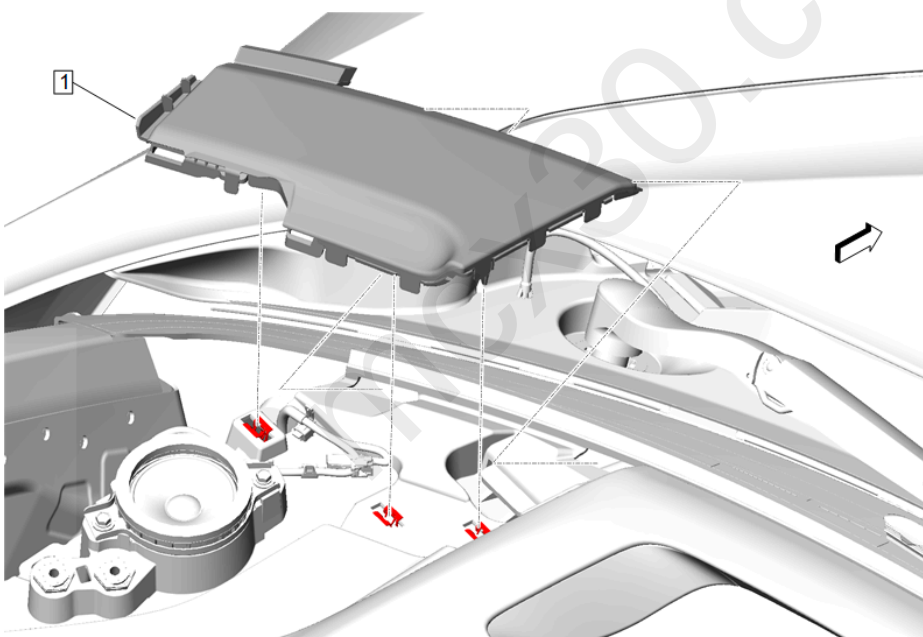
84.
[Click here for full size](#)

85. Steering Column (1) >> Install - Steering Column Replacement



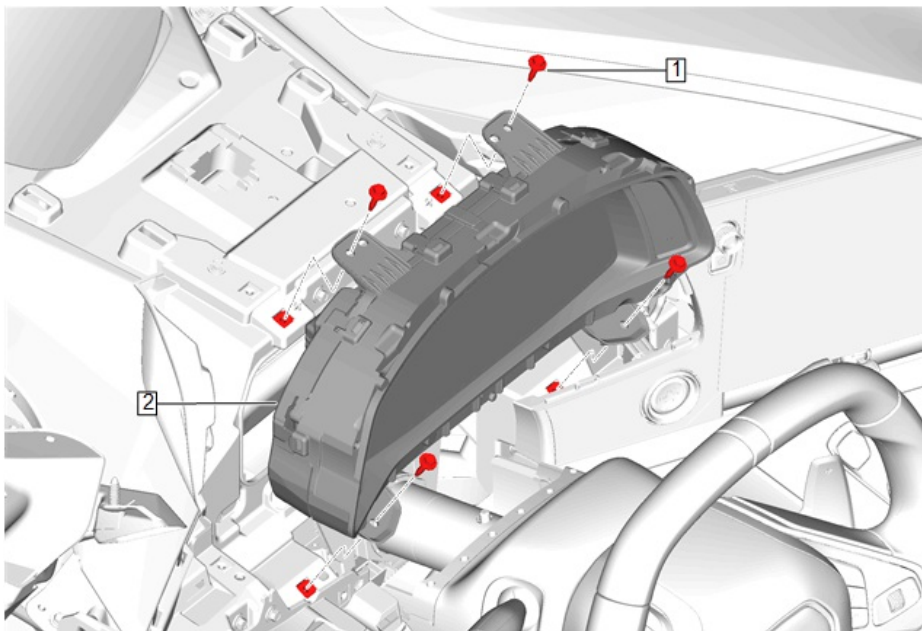
86.
[Click here for full size](#)

87. Body Control Module (1) >> Install - Body Control Module Replacement



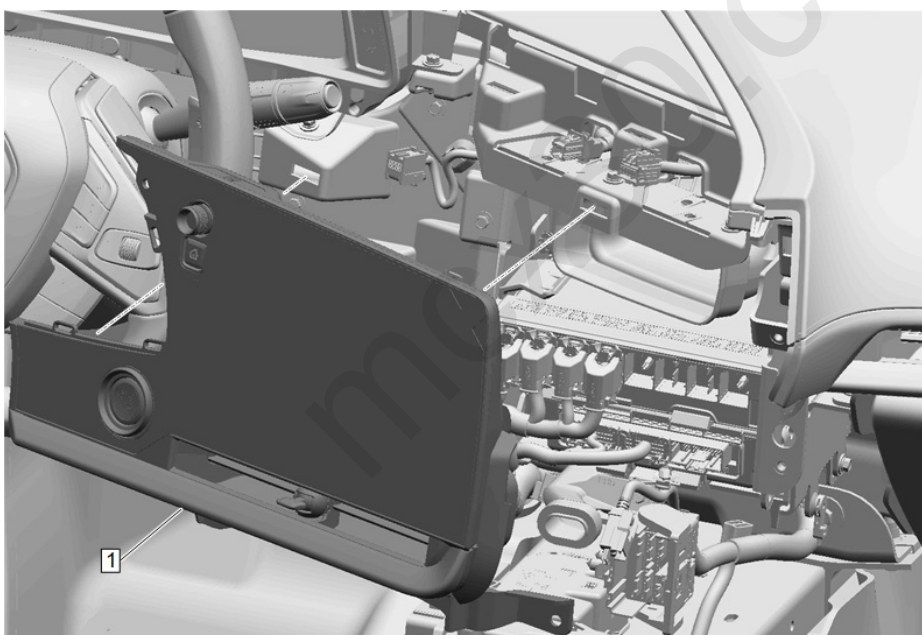
88.
[Click here for full size](#)

89. Instrument Panel Upper Trim Panel Cover (1) >> Install - Instrument Panel Upper Trim Panel Cover Replacement



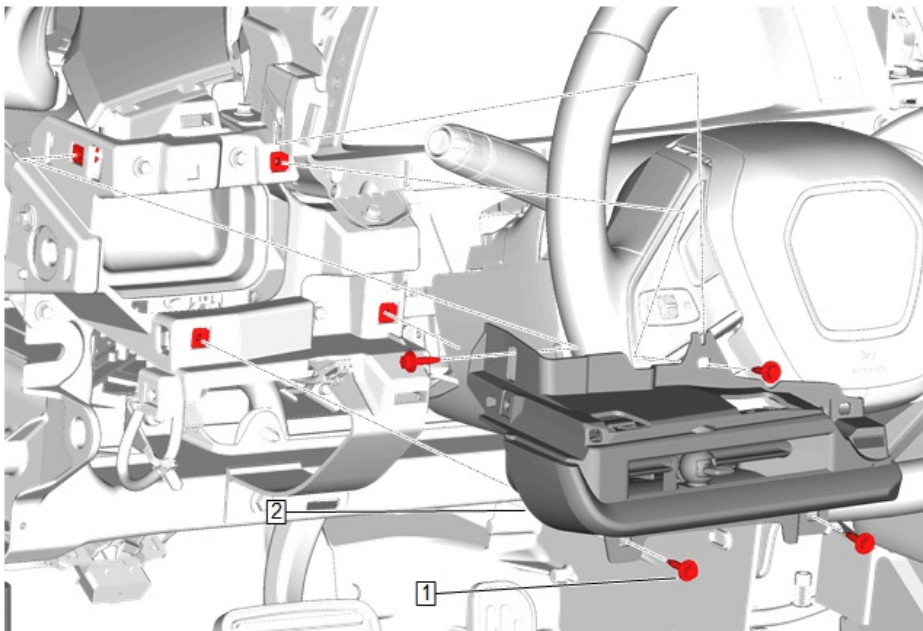
90.
[Click here for full size](#)

91. Instrument Cluster (2) >> Install - Instrument Cluster Replacement



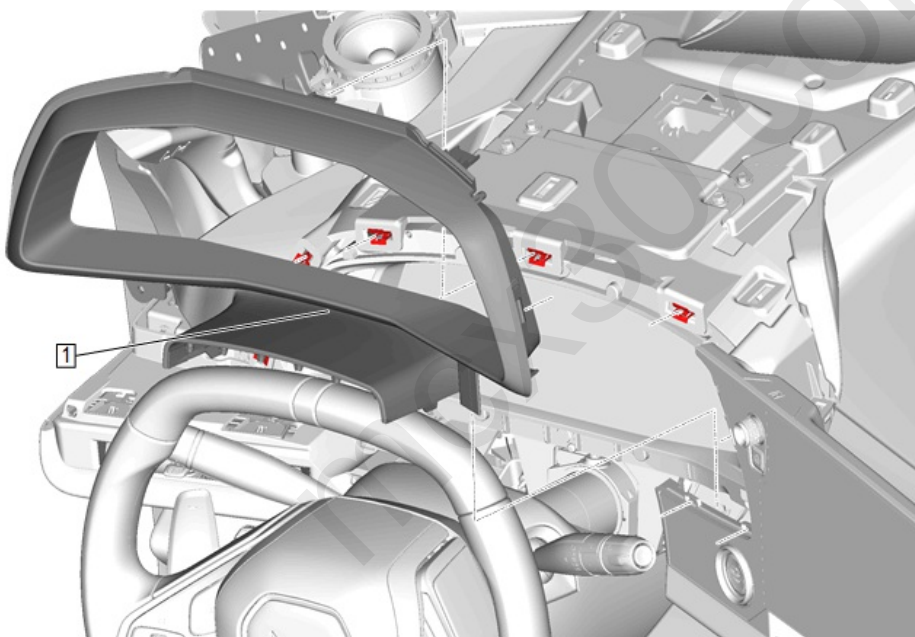
92.
[Click here for full size](#)

93. Radio Control (1) >> Install - Radio Control Replacement



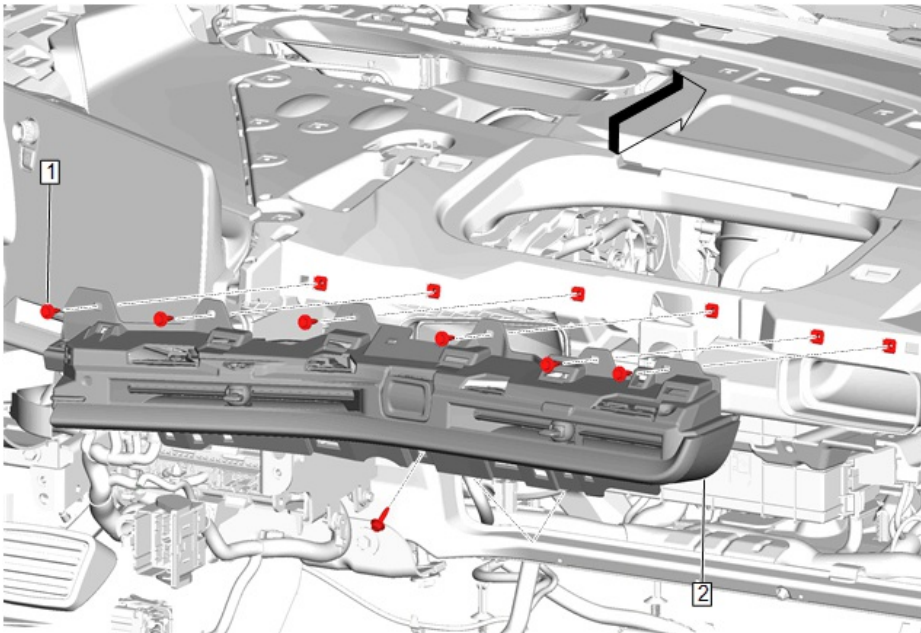
94.
[Click here for full size](#)

95. Instrument Panel Air Outlet Bezel - Left Side (2) >> Install - Instrument Panel Air Outlet Bezel Replacement - Left Side



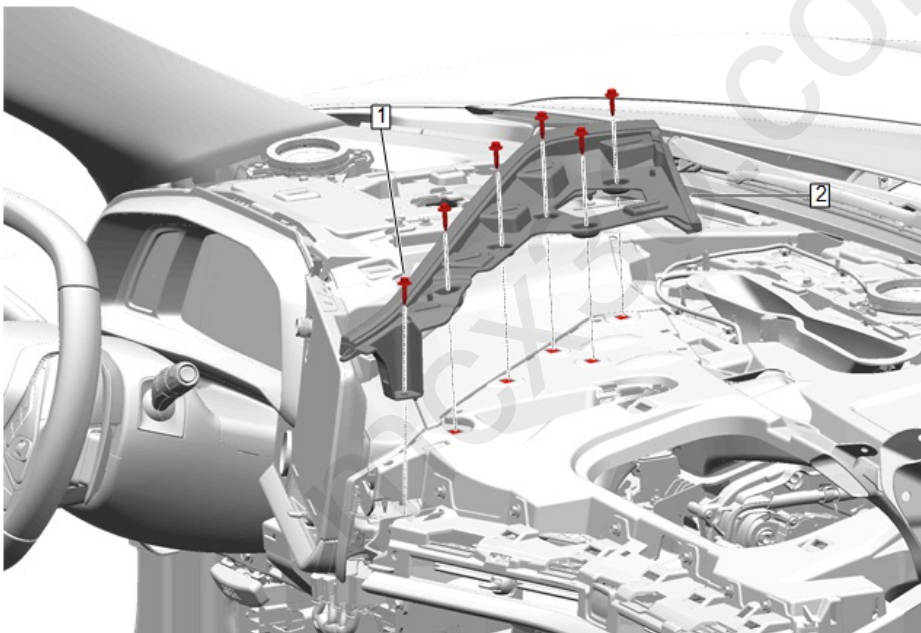
96.
[Click here for full size](#)

97. Instrument Panel Cluster Trim Plate (1) >> Install - Instrument Panel Cluster Trim Plate Replacement



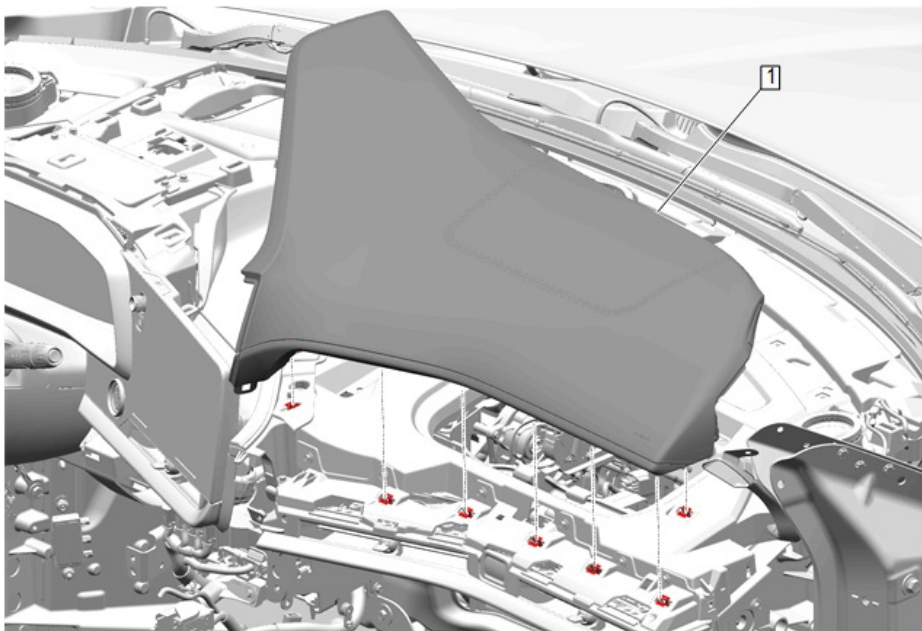
98.
[Click here for full size](#)

99. Instrument Panel Air Outlet Bezel - Right Side (2) >> Install - Instrument Panel Air Outlet Bezel Replacement - Right Side



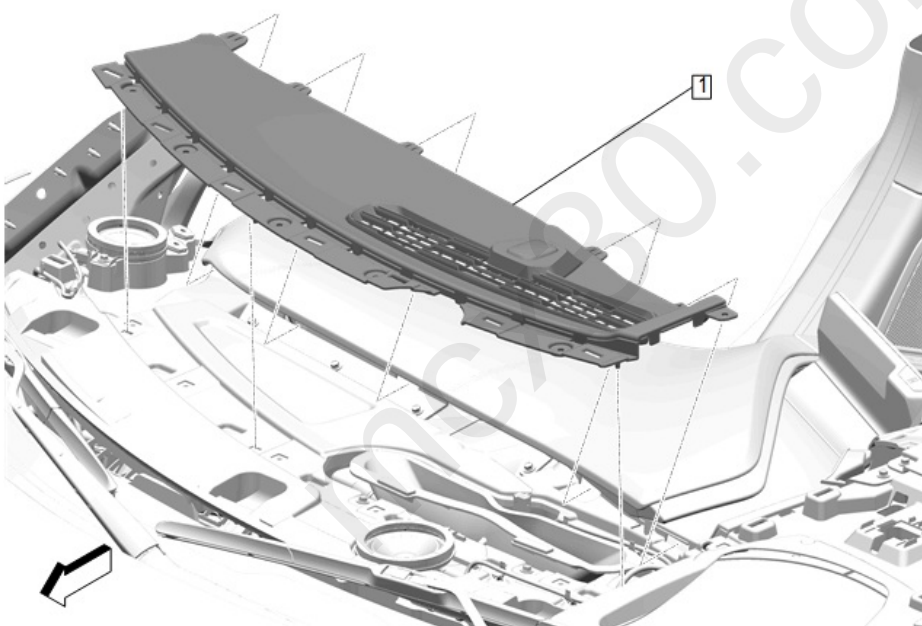
100.
[Click here for full size](#)

101. Instrument Panel Trim Pad (2) >> Install - Instrument Panel Trim Pad Replacement



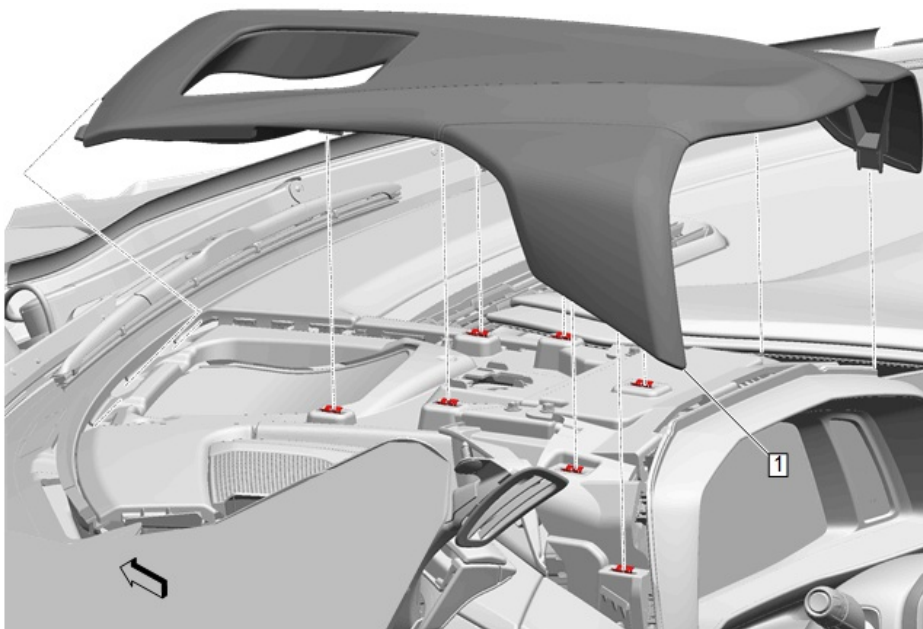
102.
[Click here for full size](#)

103. Instrument Panel Upper Trim Panel (1) >>> Install - Instrument Panel Upper Trim Panel Replacement



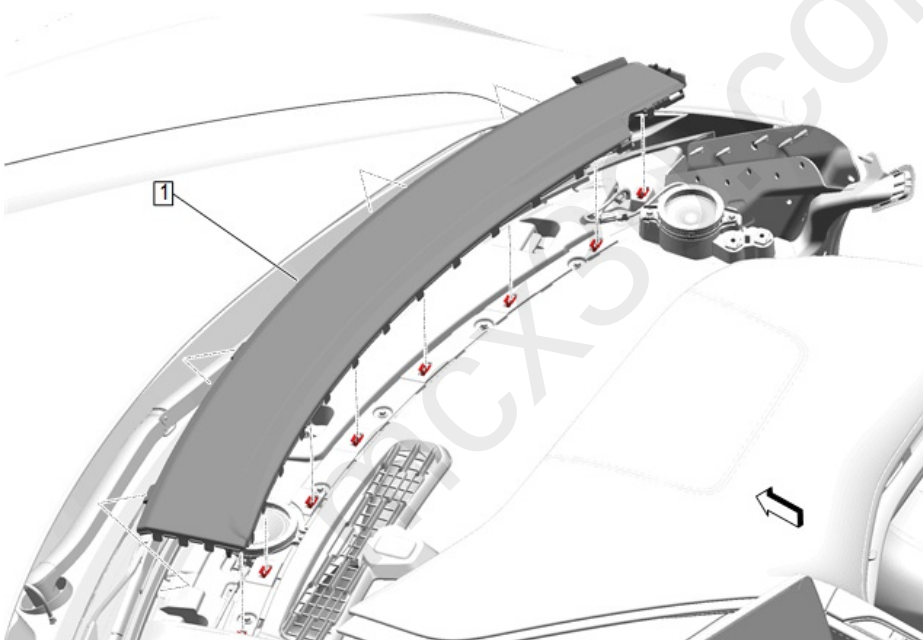
104.
[Click here for full size](#)

105. Instrument Panel Extension (1) >>> Install - Instrument Panel Extension Replacement



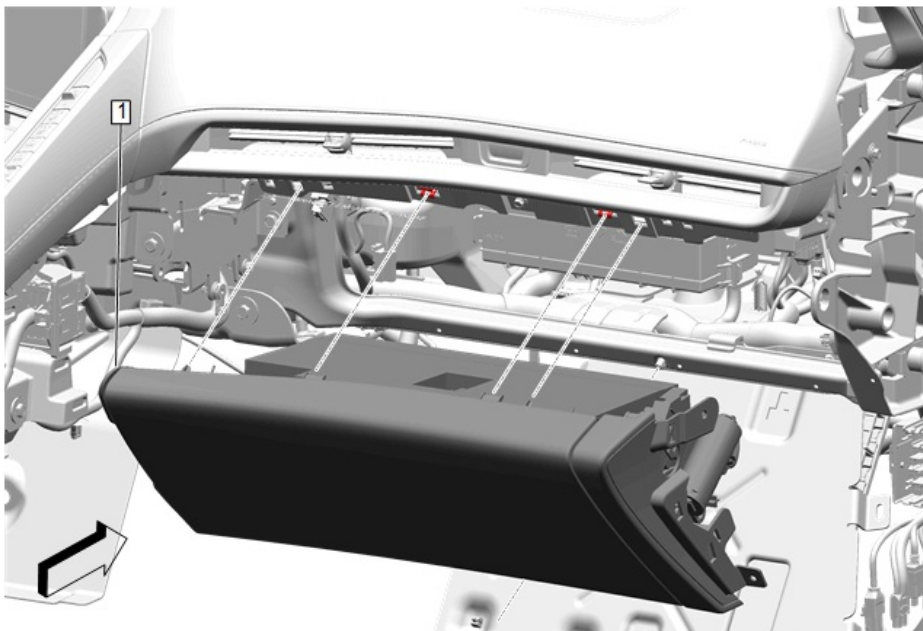
106.
[Click here for full size](#)

107. Instrument Panel Instrument Cluster Hood (1) >> Install - Instrument Panel Instrument Cluster Hood Replacement



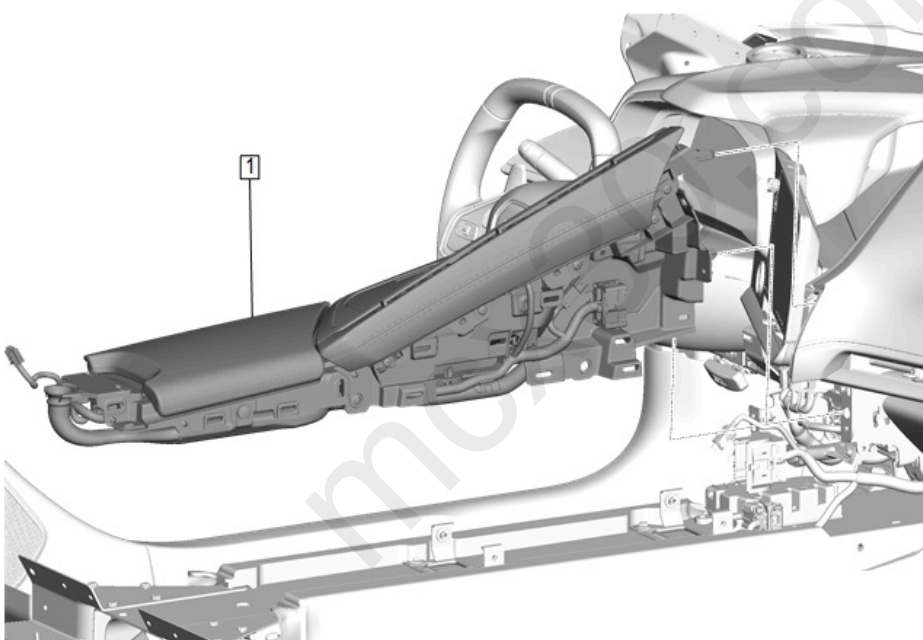
108.
[Click here for full size](#)

109. Radio Front Center Speaker Grille (1) >> Install - Radio Front Center Speaker Grille Replacement



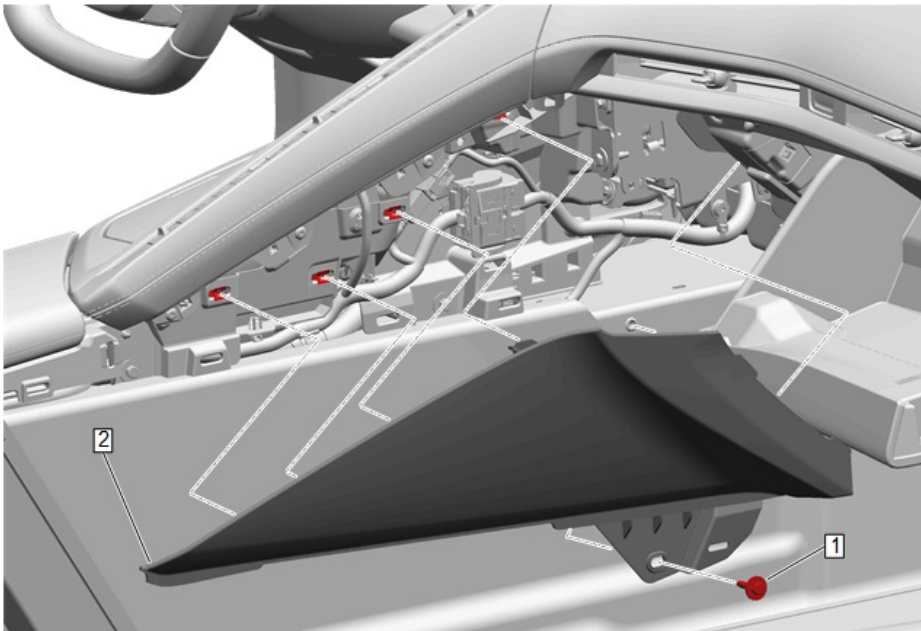
110.
[Click here for full size](#)

111. Instrument Panel Compartment (1) >> Install - Instrument Panel Compartment Replacement



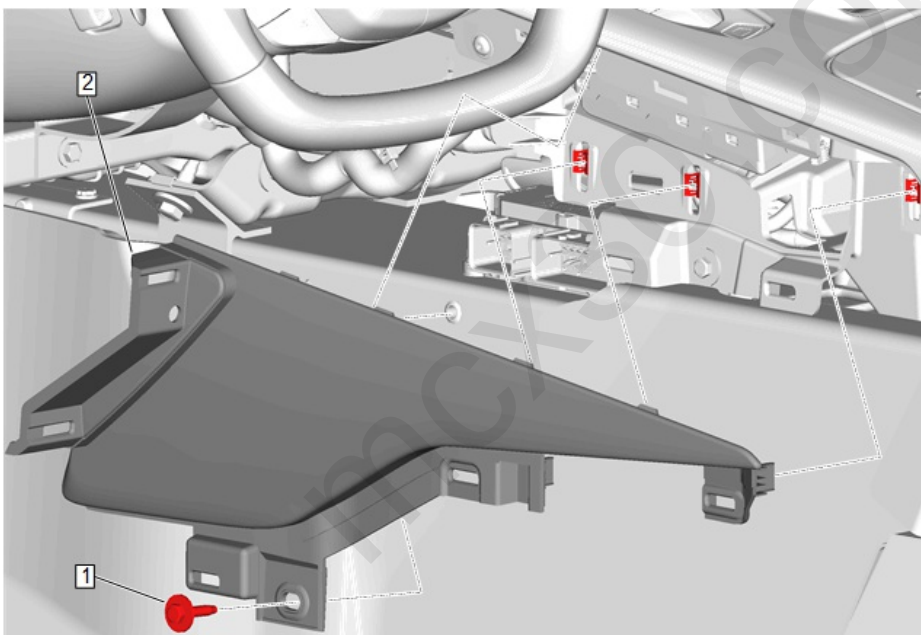
112.
[Click here for full size](#)

113. Front Floor Console Compartment (1) >> Install - Front Floor Console Compartment Replacement



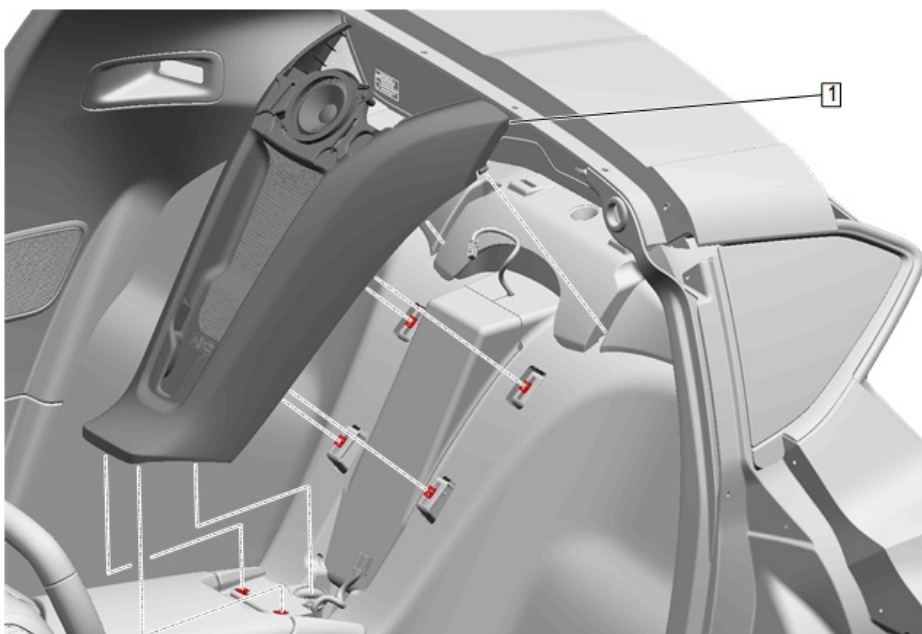
114.
[Click here for full size](#)

115. Front Floor Console Extension Panel (2) >>> Install - Front Floor Console Extension Panel Replacement



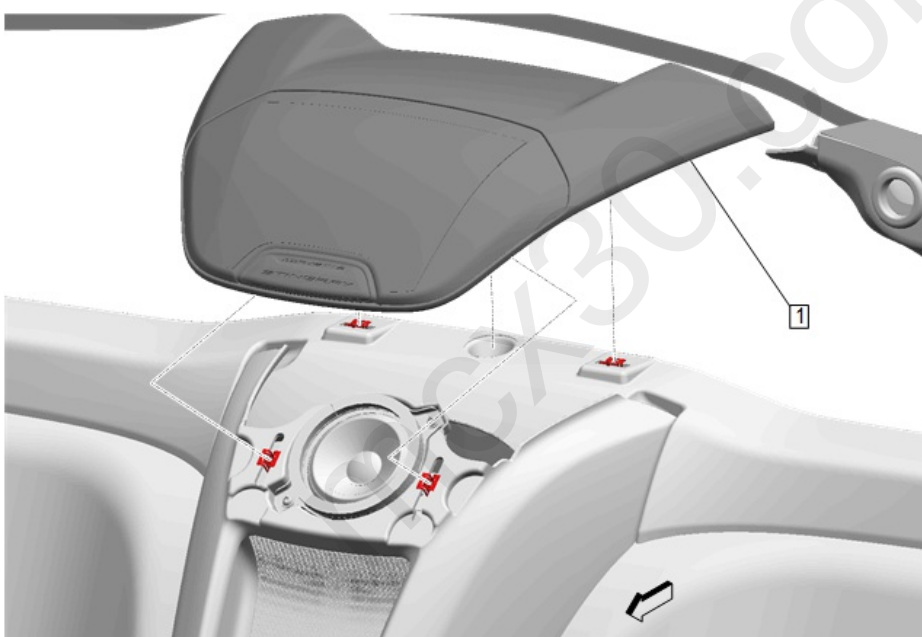
116.
[Click here for full size](#)

117. Front Floor Console Applique - Left Side (2) >>> Install - Front Floor Console Applique Replacement - Left Side



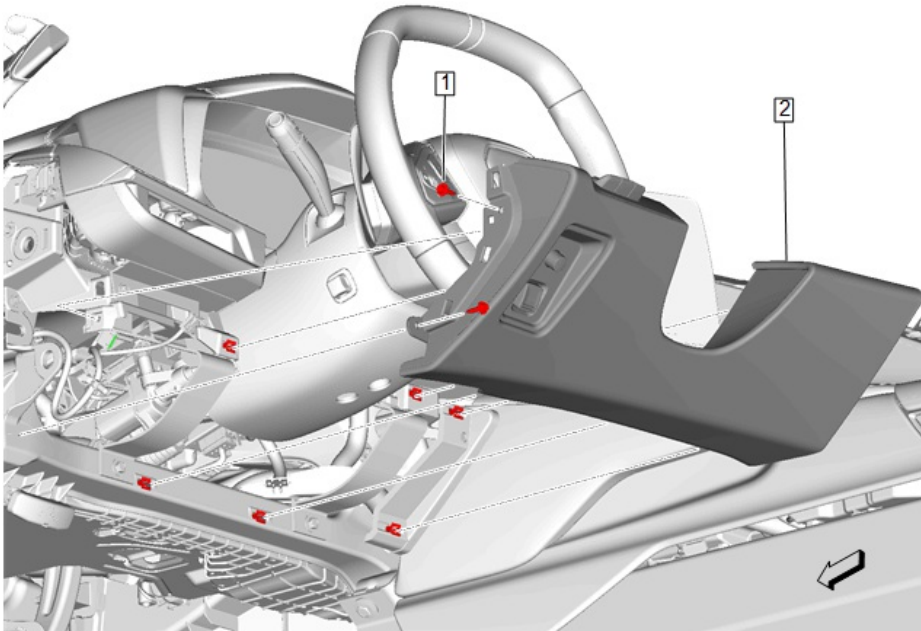
118.
[Click here for full size](#)

119. Rear Compartment Closeout Panel (1) >> Install - Rear Compartment Closeout Panel Replacement



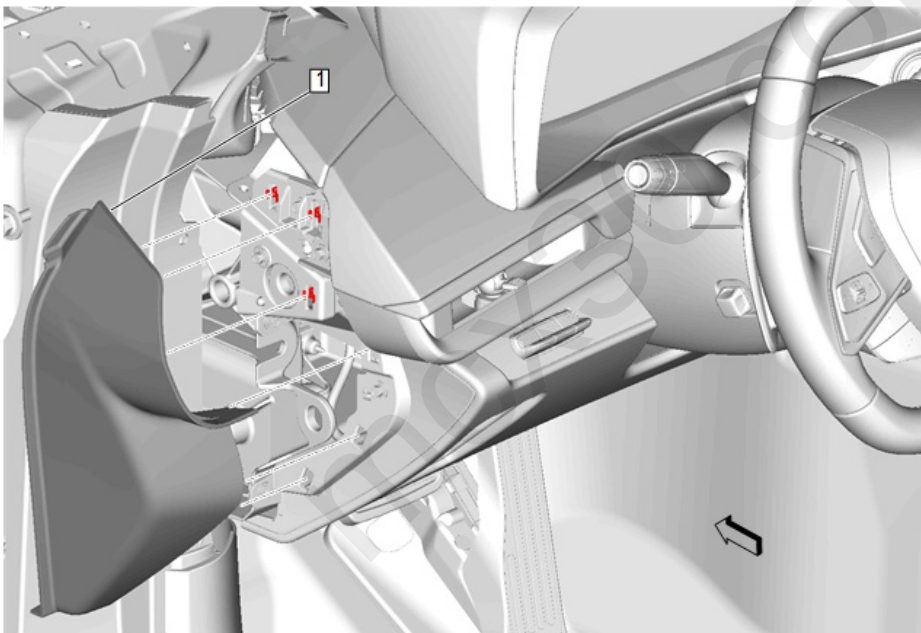
120.
[Click here for full size](#)

121. Radio Rear Quarter Trim Panel Speaker Grille (1) >> Install - Radio Rear Quarter Trim Panel Speaker Grille Replacement



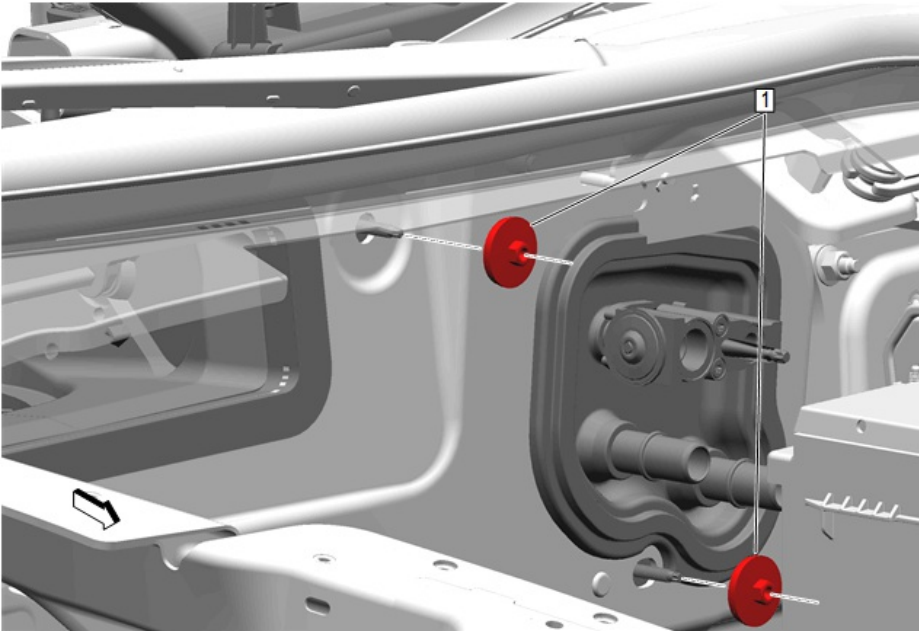
122.
[Click here for full size](#)

123. Instrument Panel Knee Bolster (2) >> Install - Instrument Panel Knee Bolster Replacement

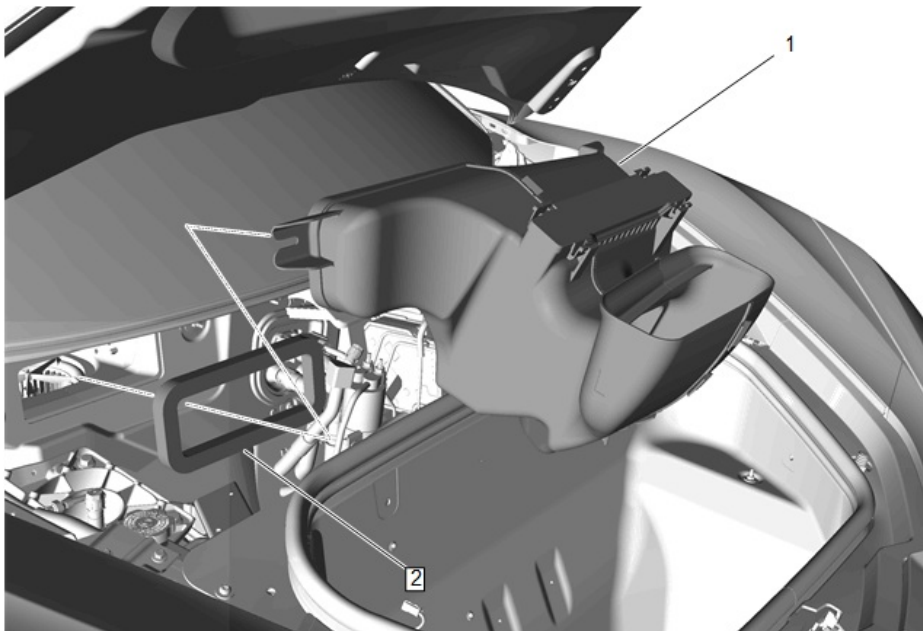


124.
[Click here for full size](#)

125. Install the left and right instrument panel outer trim cover (1). Instrument Panel Outer Trim Cover Replacement

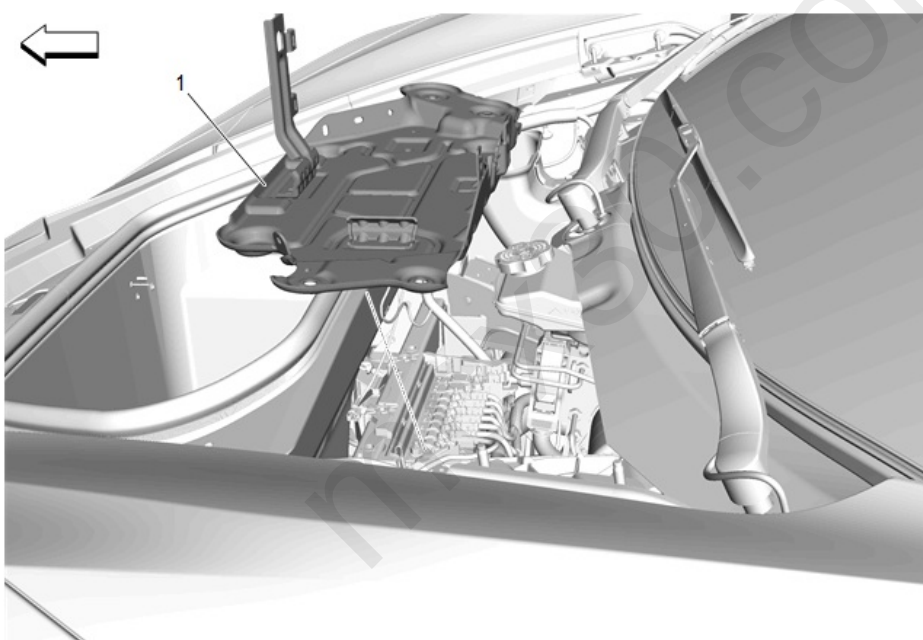


126. [Click here for full size](#)
127. Note:
- Refer to the procedure link for torque specification.
128. Heater and Blower Module Nut (1) >> Install and tighten [2x] - Instrument Panel Tie Bar Replacement
129. Heater Outlet Hose @ Heater Core Outlet Tube >> Install - Heater Outlet Hose Replacement
130. Radiator Inlet Hose @ Heater Core Inlet Tube >> Install - Radiator Inlet Hose Replacement - Radiator Inlet Pipe to A/C Tube
131. [Click here for full size](#)
132. Install the air conditioning condenser and air conditioning evaporator tube onto air conditioning evaporator thermal expansion valve.
133. Air Conditioning Evaporator Thermal Expansion Valve Stud (2) >> Install and tighten 9 N-m (80 lb in)
134. Note:
- Refer to the procedure link for torque specification.
135. Air Conditioning Condenser and Evaporator Hose Fitting Nut (1) >> Install and tighten - Air Conditioning Condenser and Air Conditioning Evaporator Tube Replacement



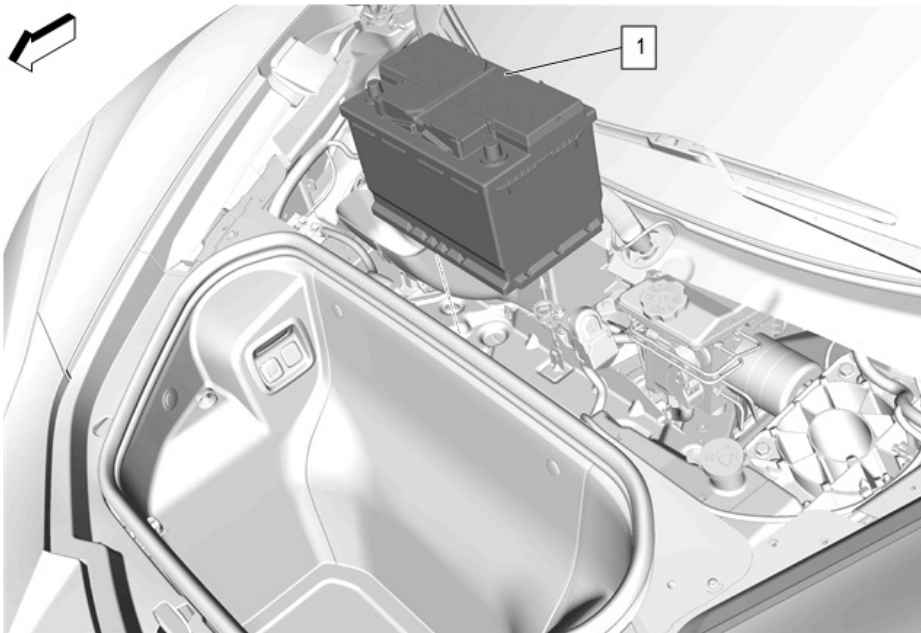
136.
[Click here for full size](#)

137. Air Inlet Housing Front Panel (1) >> Install - Air Inlet Housing Front Panel Replacement



138.
[Click here for full size](#)

139. Battery Tray (1) >> Install - Battery Tray Replacement



140.
[Click here for full size](#)

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

142. Connect the negative battery cable. Battery Negative Cable Disconnection and Connection

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

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

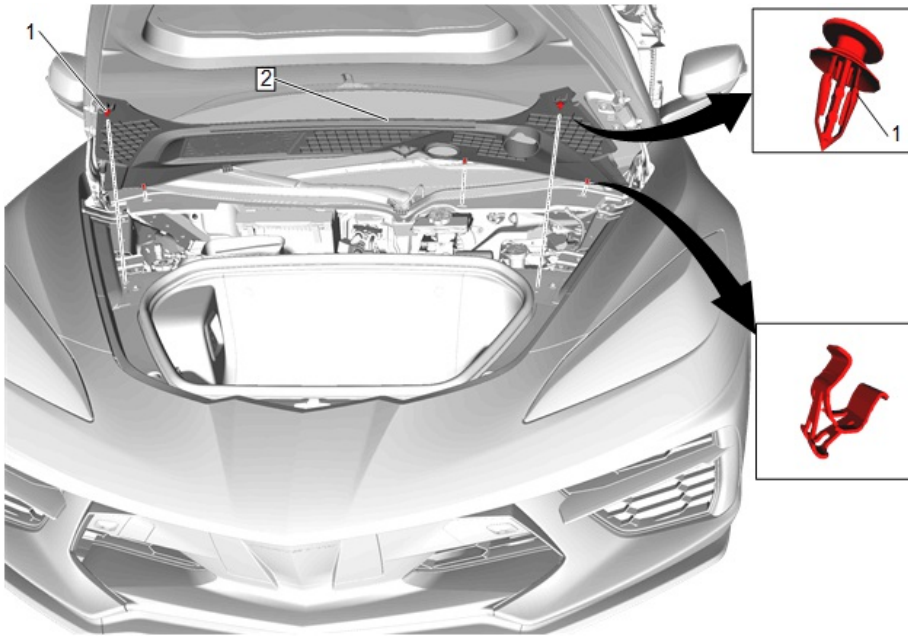
145. Inspect for coolant leaks.

146. Inspect for refrigerant leaks.



147.
[Click here for full size](#)

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



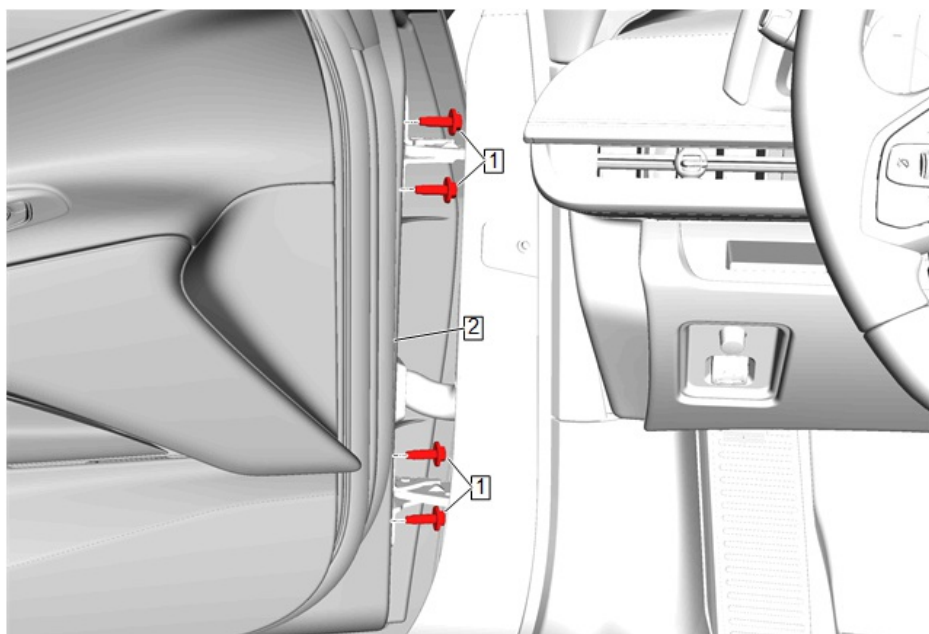
149.
[Click here for full size](#)

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



151.
[Click here for full size](#)

152. Install the left and right front seats (2). Front Seat Removal and Installation



153.
[Click here for full size](#)

154. Install the left door (2). Front Side Door Replacement

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