

2022 CHEVROLET CORVETTE SERVICE MANUAL

- SEARCH

1. [Engine/Propulsion](#)
2. [Engine Mechanical - 6.2L \(LT2\)](#)
3. [Repair Instructions](#)
- 4.

Engine Replacement (Coupe)

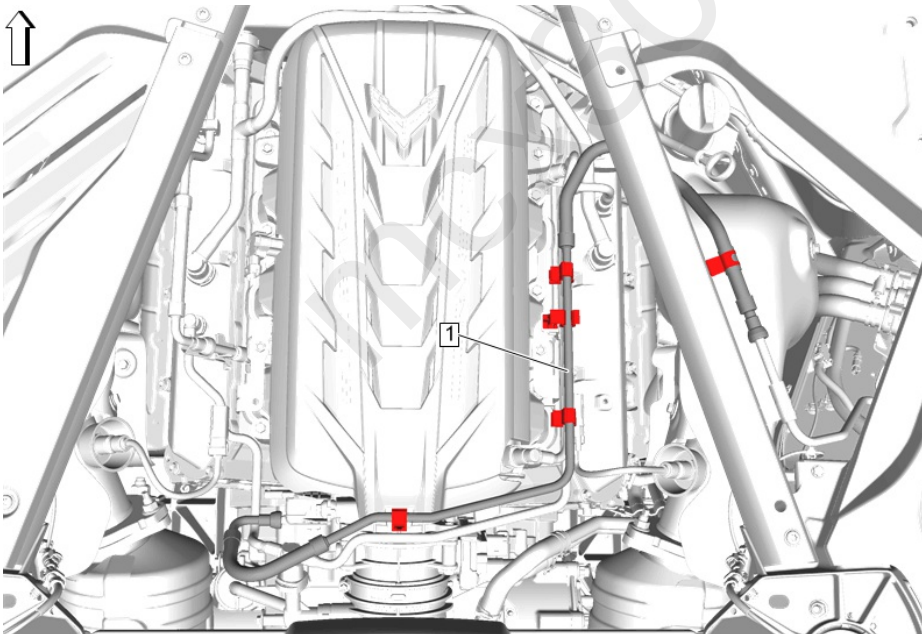
Special Tools

GE-52200 Ã,Â Propulsion System Lift Table

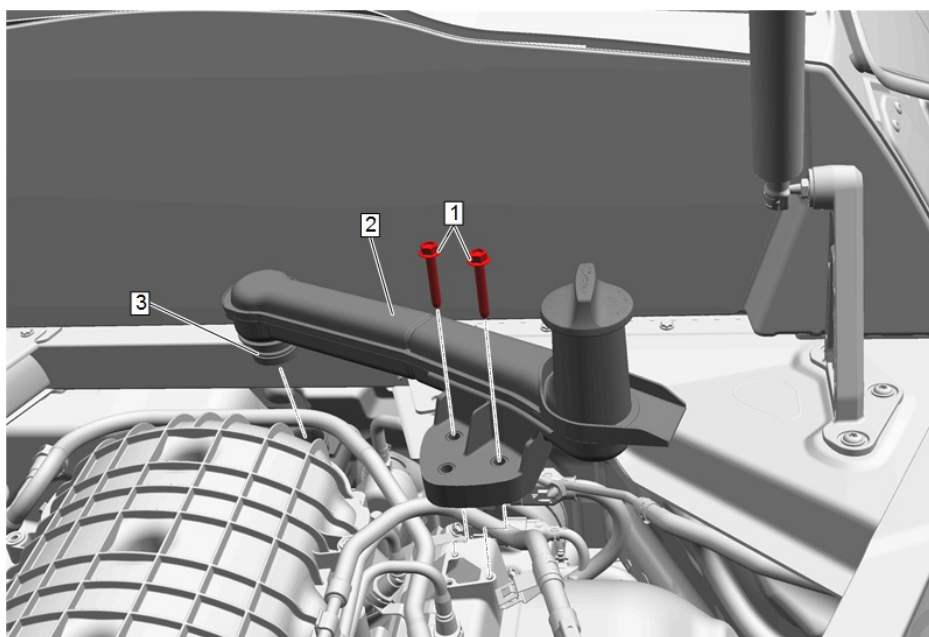
Equivalent regional tools: Special Tools

Removal Procedure

1. Relieve the fuel system pressure. Fuel Pressure Relief
2. Recover the refrigerant. Refrigerant Recovery and Recharging
3. Disconnect the battery negative cable. Battery Negative Cable Disconnection and Connection
4. Raise and support the vehicle. Lifting and Jacking the Vehicle
5. Drain the cooling system. Cooling System Draining and Filling

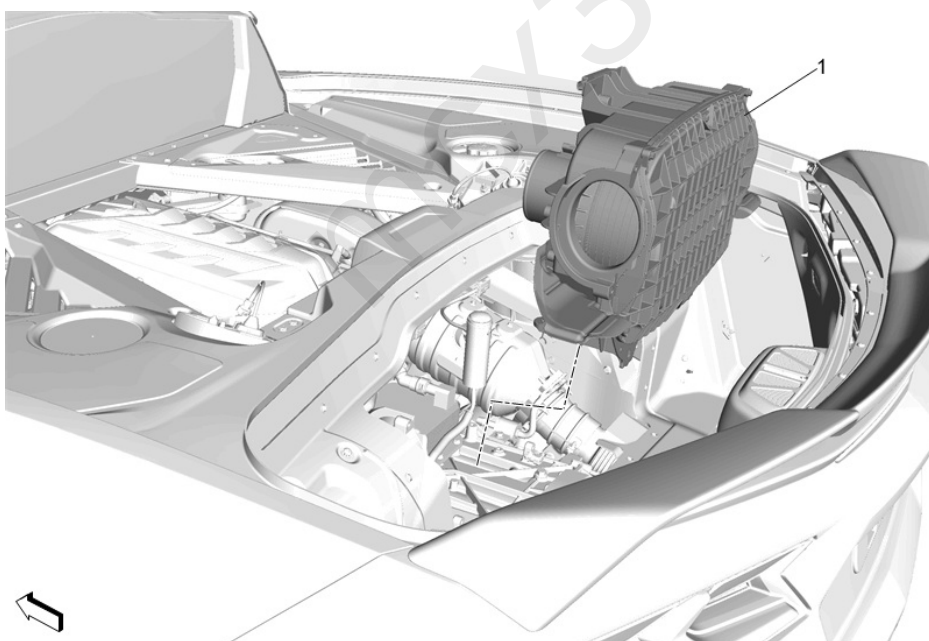


6. [Click here for full size](#)
7. Evaporative Emission Canister Purge Front Pipe (1) >> Remove - Evaporative Emission Canister Purge Front Pipe Replacement



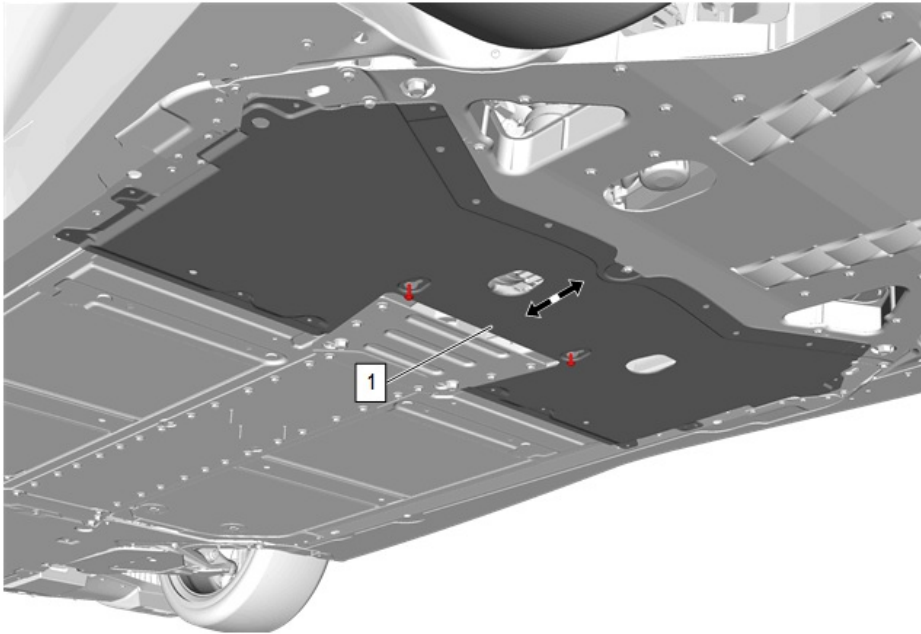
8.
[Click here for full size](#)

9. Oil Filler Tube (2>) >> Remove - Oil Filler Tube Replacement



10.
[Click here for full size](#)

11. Air Cleaner Assembly (1) >> Remove - Air Cleaner Assembly Replacement



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

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

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

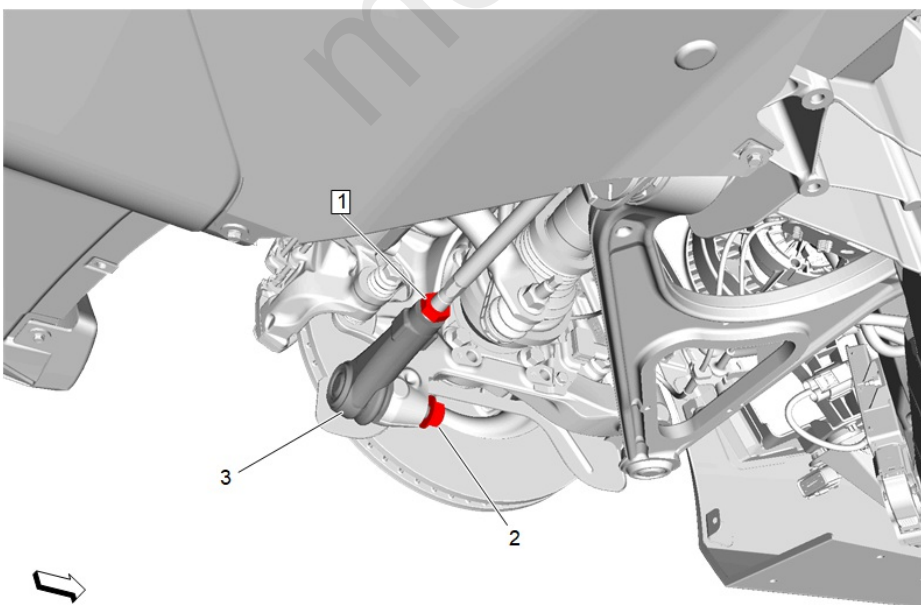
15. Note:

Avoid strap contact with flexible brake lines routed in the area behind the knuckle.

16. Attach a suitable strap at the front upper control arm (1), under the lower edge of wheelhouse (2) and to the hoist lifting arm (3) just below the lift pad.

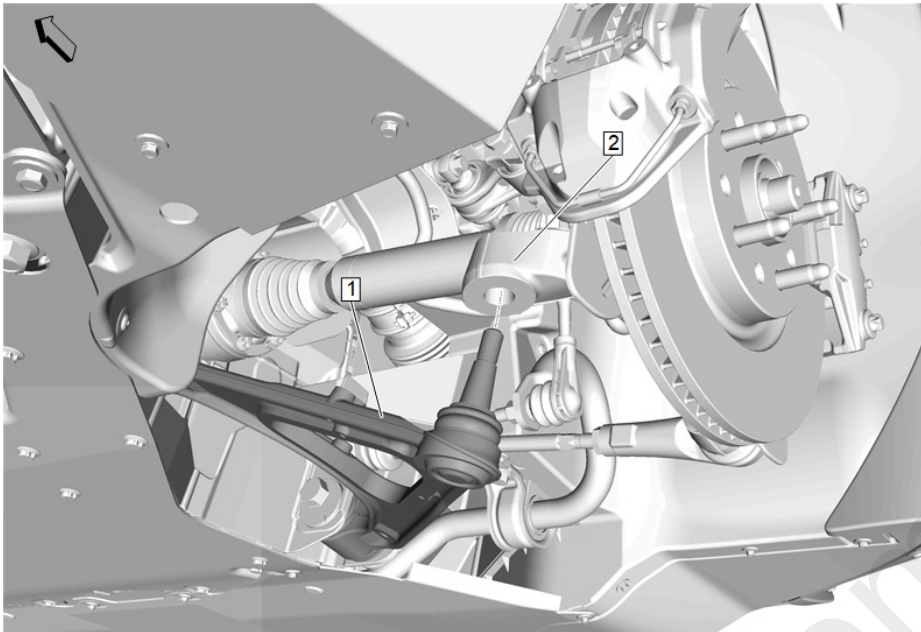
17. [Click here for full size](#)

18. Ensure the vehicle body is secured to the vehicle hoist using a suitable strap (1).



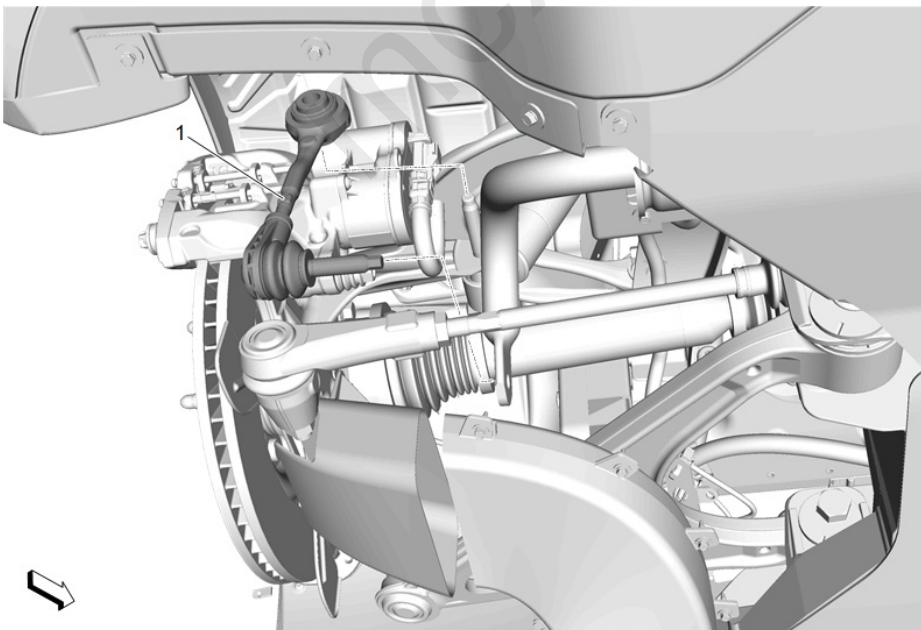
19. [Click here for full size](#)

20. Rear Suspension Adjust Link Outer End (3>) @ Rear Suspension Knuckle >> Remove - Rear Suspension Adjust Link Outer End Replacement



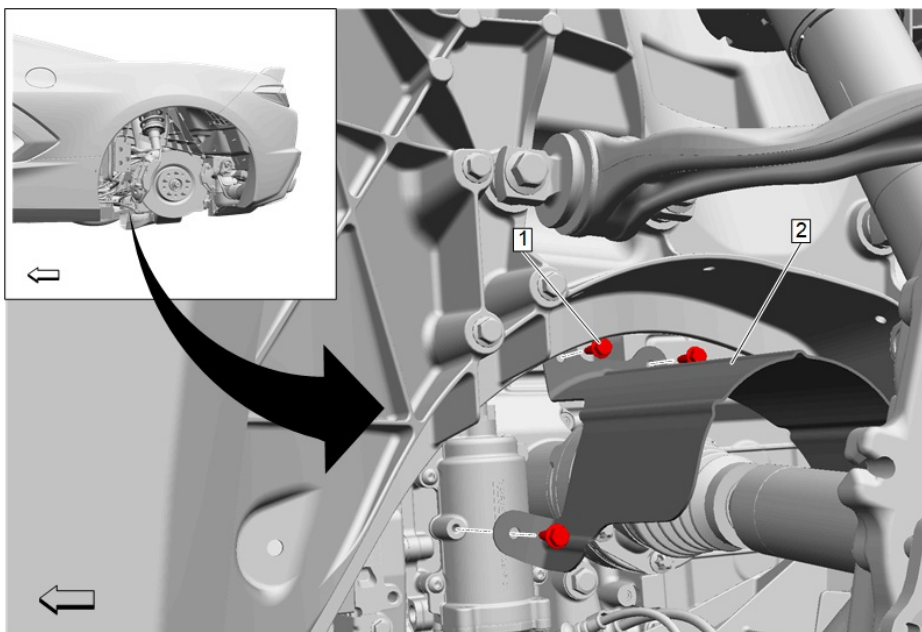
21.
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22. Rear Suspension Lower Control Arm (1>) @ Rear Suspension Knuckle (2>) >> Remove - Rear Suspension Lower Control Arm Replacement



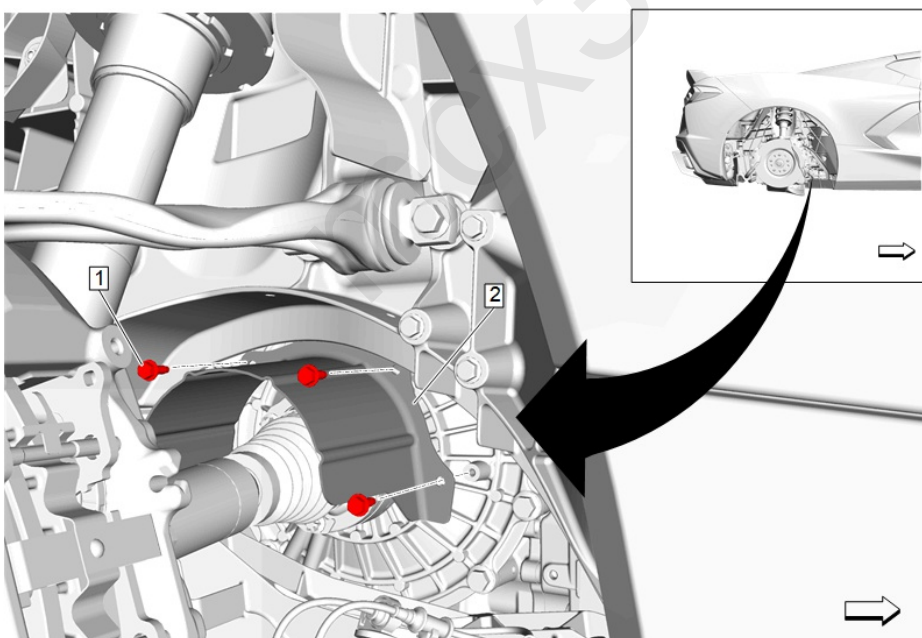
23.
[Click here for full size](#)

24. Rear Stabilizer Shaft Link (1>) >> Remove [2>x] - Rear Stabilizer Shaft Link Replacement



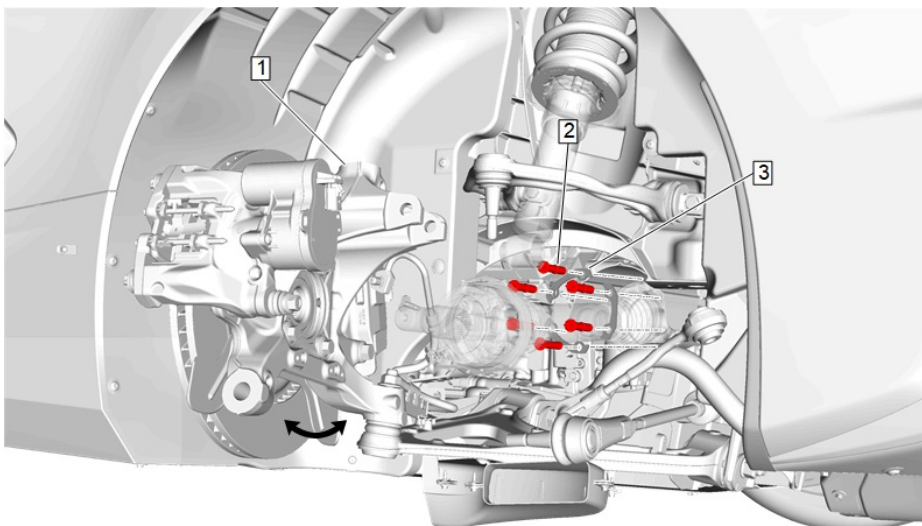
25.
[Click here for full size](#)

26. Rear Wheel Drive Shaft Shield - Left Side >>> Remove - Rear Wheel Drive Shaft Shield Replacement - Left Side



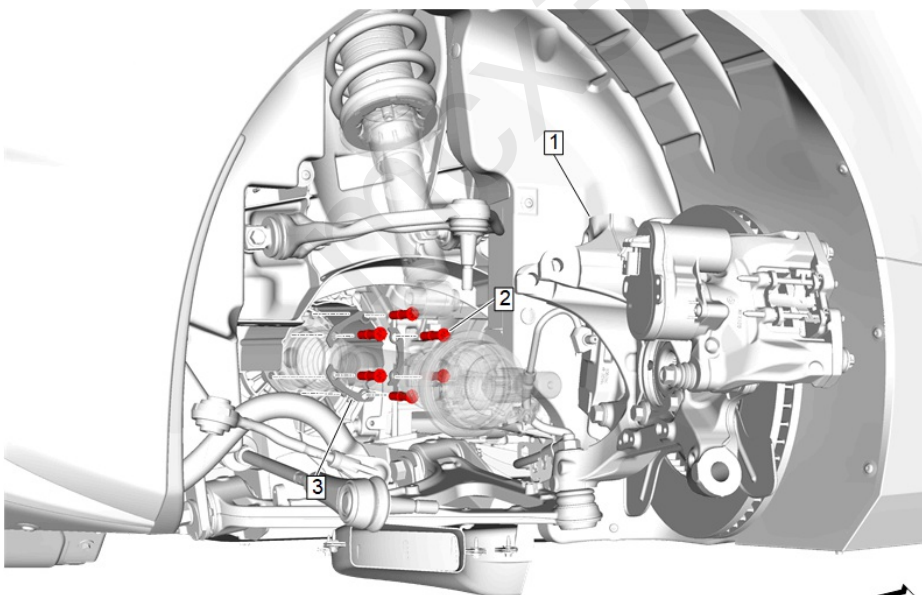
27.
[Click here for full size](#)

28. Rear Wheel Drive Shaft Shield - Right Side (2>) >>> Remove - Rear Wheel Drive Shaft Shield Replacement - Right Side



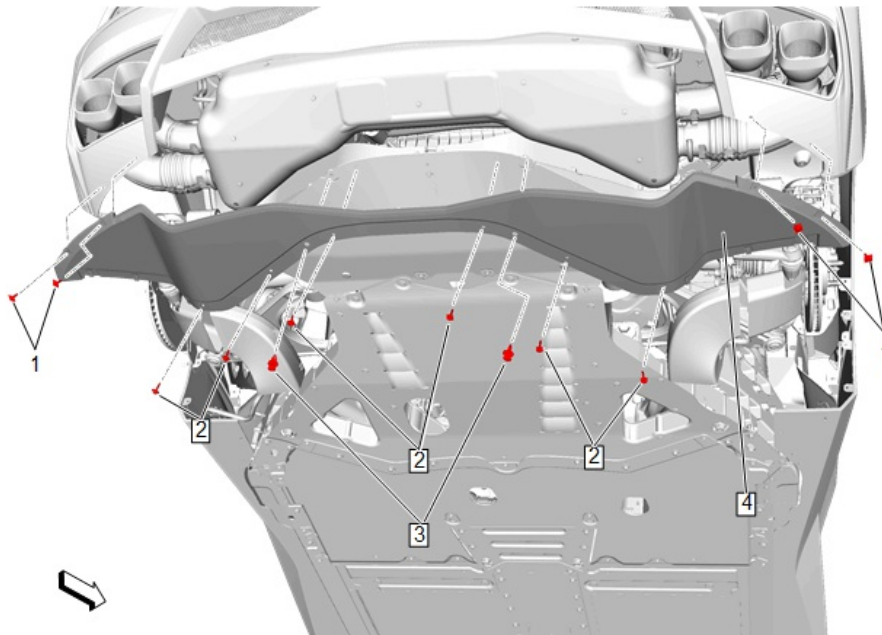
29.
[Click here for full size](#)

30. Rear Wheel Drive Shaft - Left Side (2>) @ Transmission >> Disconnect - Rear Wheel Drive Shaft Replacement - Left Side



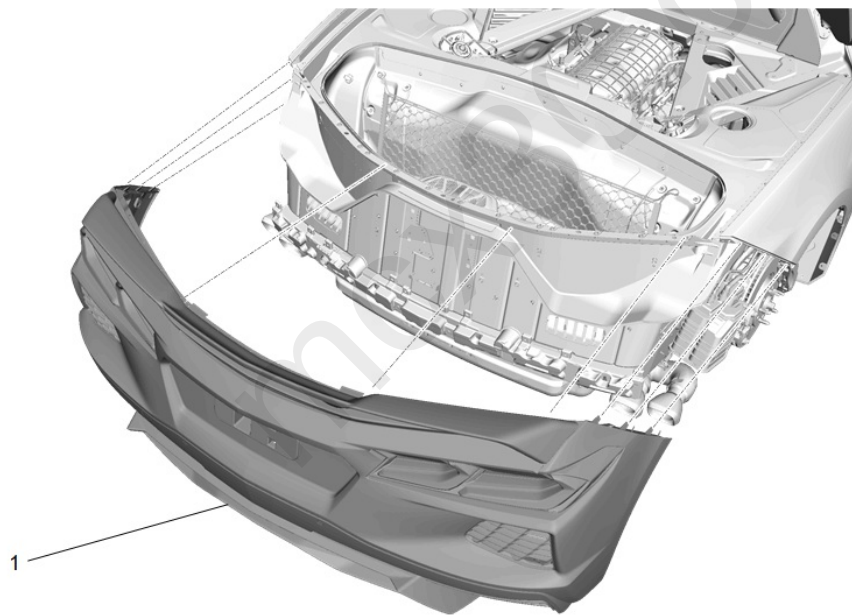
31.
[Click here for full size](#)

32. Rear Wheel Drive Shaft - Right Side @ Transmission >> Disconnect - Rear Wheel Drive Shaft Replacement - Right Side



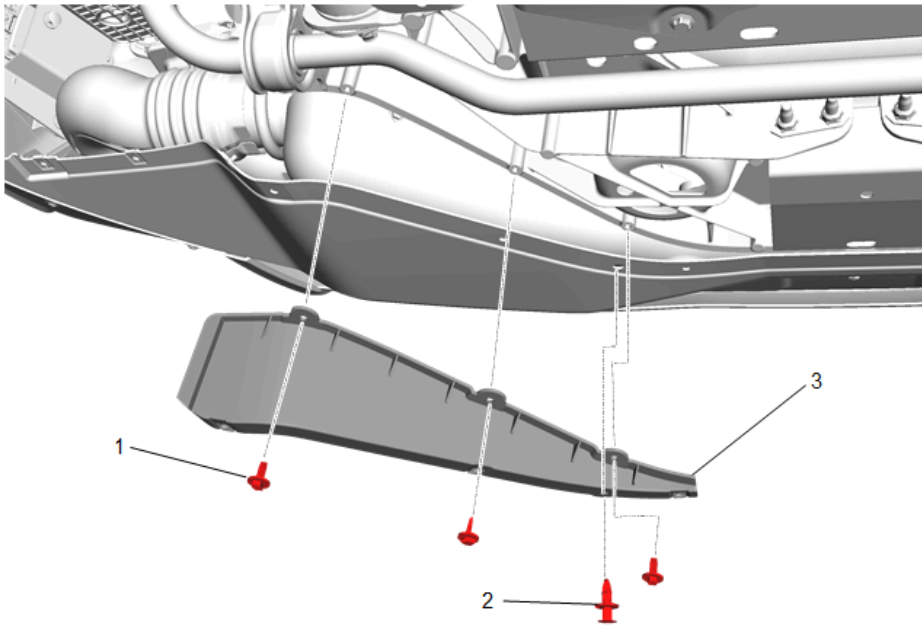
33.
[Click here for full size](#)

34. Rear Bumper Fascia Diffuser (4) >> Remove - Rear Bumper Fascia Diffuser Replacement



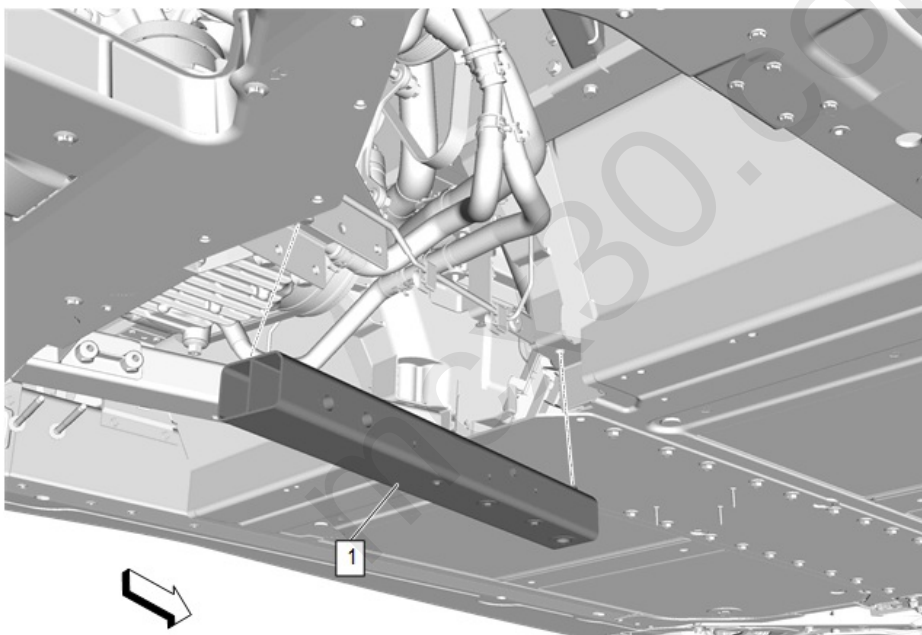
35.
[Click here for full size](#)

36. Rear Bumper Fascia (1>) >> Remove - Rear Bumper Fascia Removal and Installation



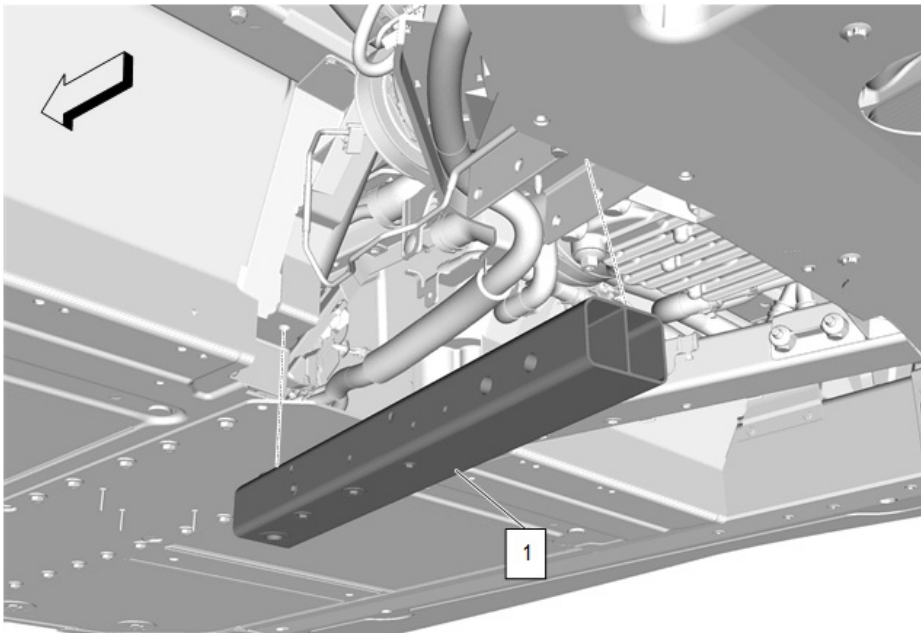
37.
[Click here for full size](#)

38. Rear Bumper Lower Fascia Bracket (3) >> Remove [2>x] - Rear Bumper Lower Fascia Bracket Replacement

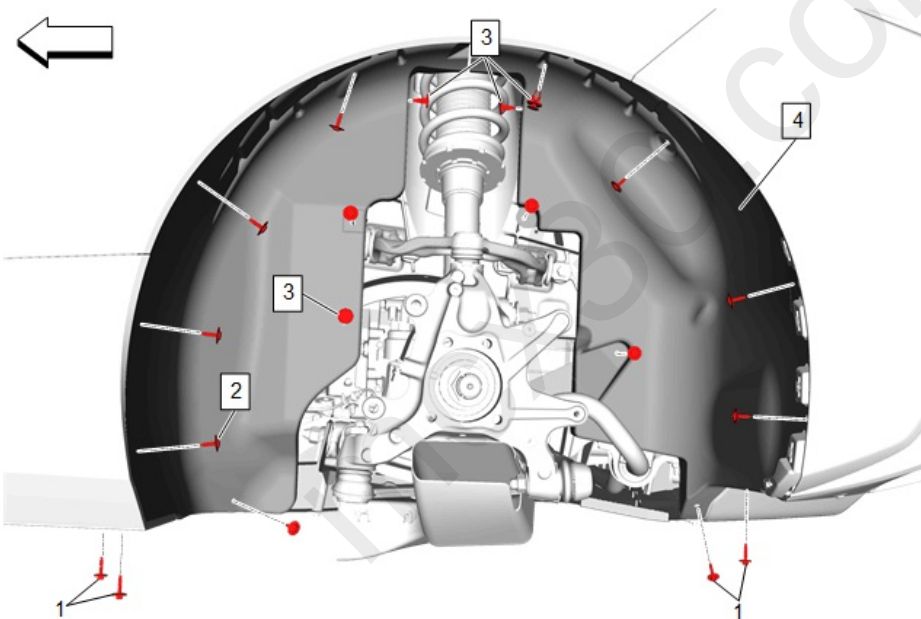


39.
[Click here for full size](#)

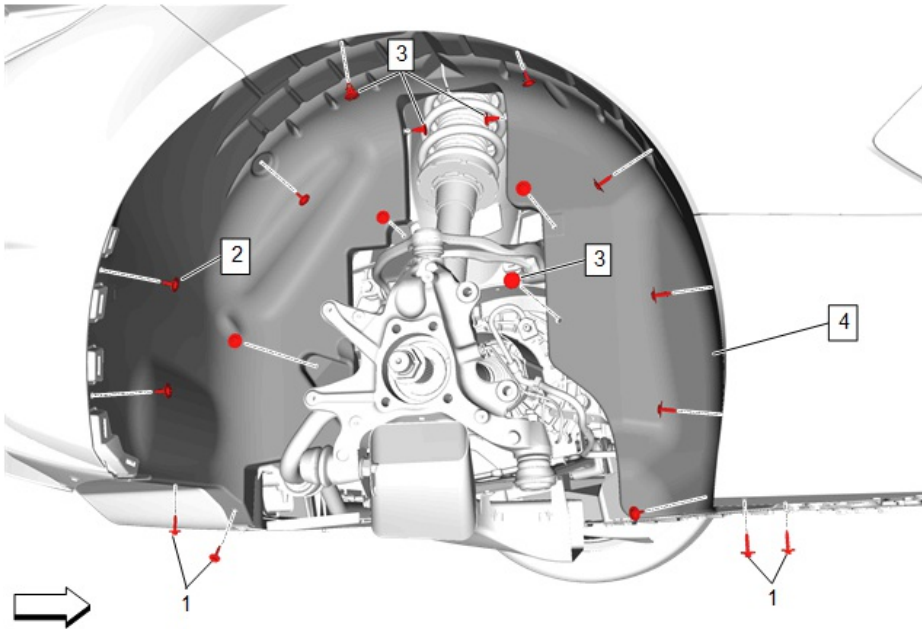
40. Rear Suspension Front Extension - Right Side (1) >> Remove - Rear Suspension Front Extension Replacement - Right Side



41. [Click here for full size](#)
42. Rear Suspension Front Extension - Left Side (1) >> Remove - Rear Suspension Front Extension Replacement - Left Side



43. [Click here for full size](#)
44. Rear Wheelhouse Liner - Left Side (4) >> Remove - Rear Wheelhouse Liner Replacement - Left Side



45.

[Click here for full size](#)

46. Rear Wheelhouse Liner - Right Side (4) >> Remove - Rear Wheelhouse Liner Replacement - Right Side

47. Separate the exhaust front insulators from the right and left side exhaust front brackets.

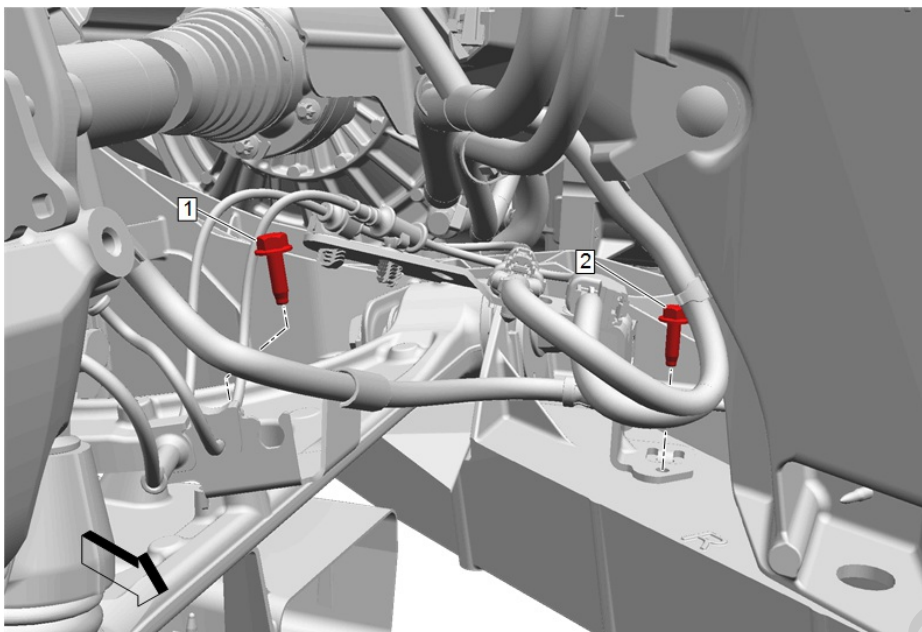


48.

[Click here for full size](#)

49. Exhaust Muffler Hanger Bracket Bolt (1) >> Remove [4x] - Exhaust Muffler Replacement

50. Disconnect the 4 electrical connectors at the exhaust control valve actuator.



51.
[Click here for full size](#)

52. Note:

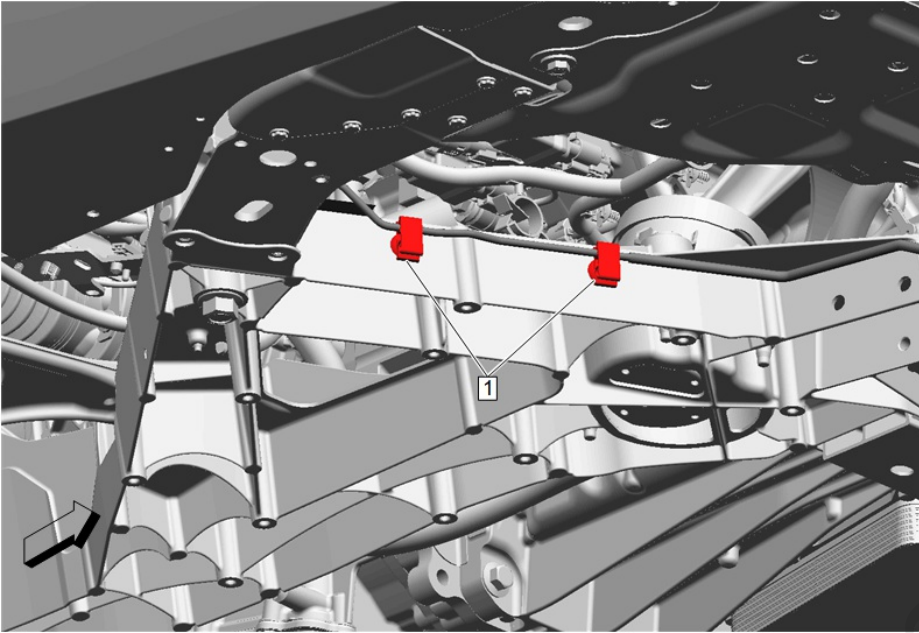
Right side shown, left side similar.

53. Rear Brake Hose Bracket Bolt (1) >> Remove

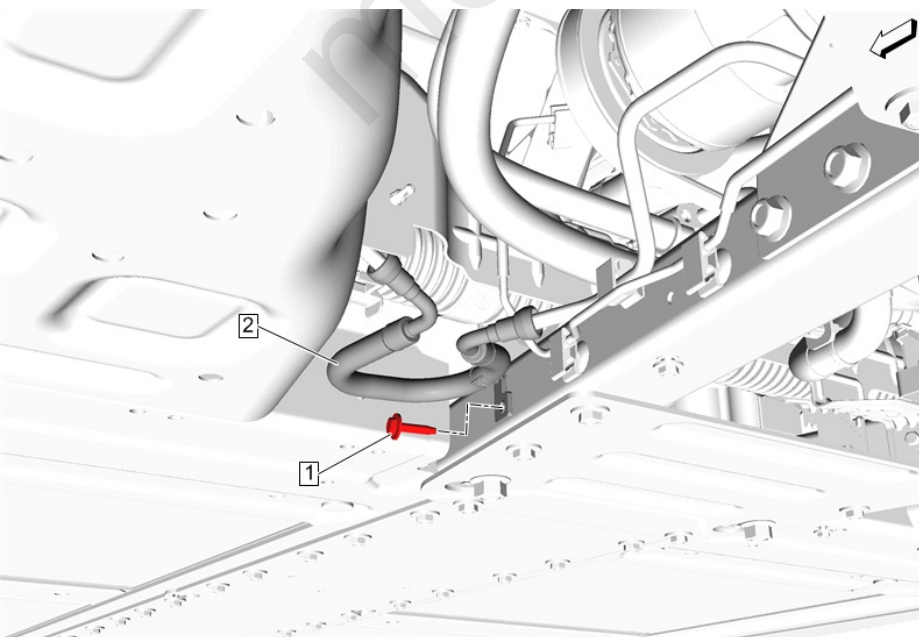
54. Note:

Right side shown, left side similar.

55. Rear Brake Hose Bracket Bolt (2) >> Remove

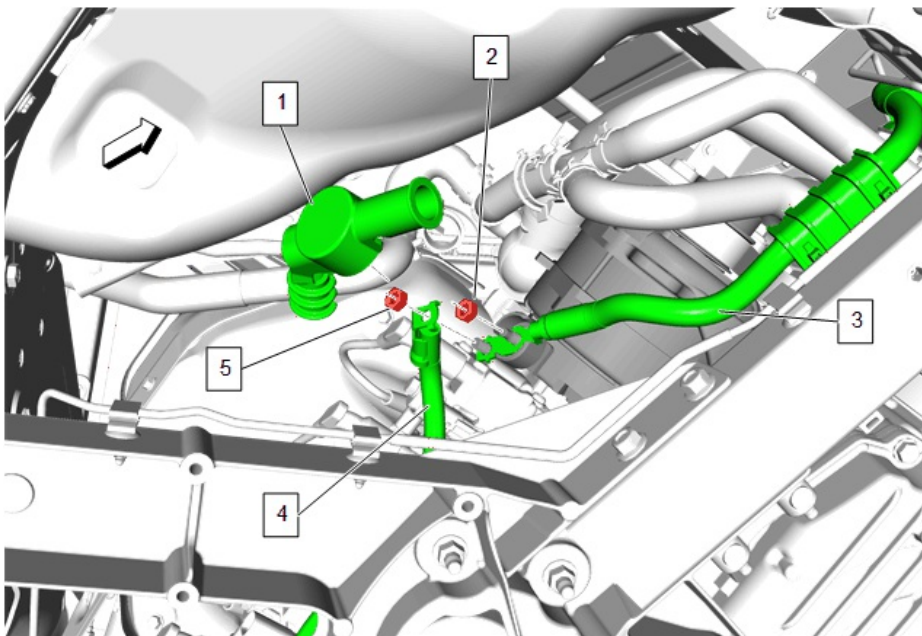


56. [Click here for full size](#)
57. Note:
- Right side shown, left side similar.
58. Rear Brake Pipe Clip (1) >> Disengage [2x]
59. Air Conditioning Compressor Hose @ Air Conditioning Condenser and Evaporator Hose >> Disconnect - Air Conditioning Compressor Hose Replacement



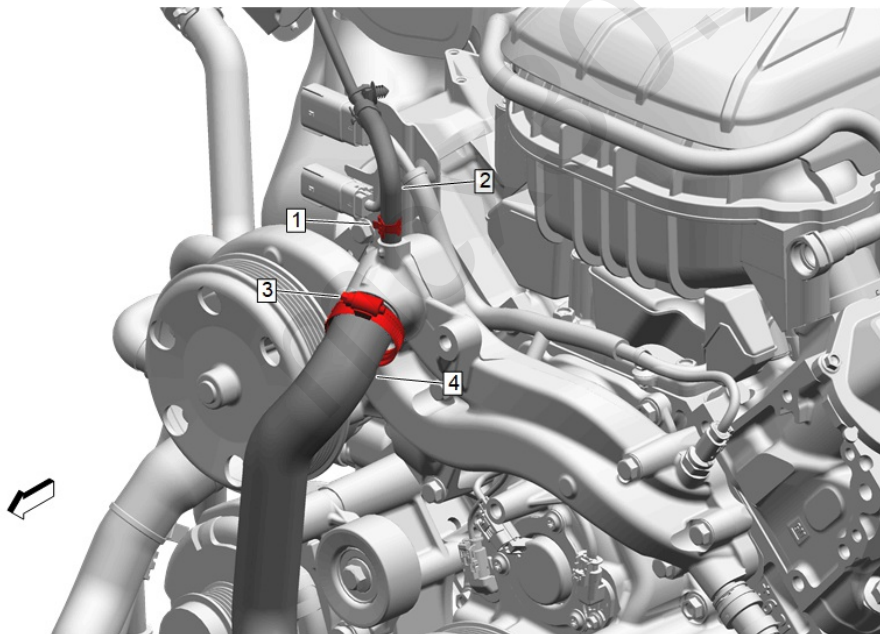
60. [Click here for full size](#)

61. Fuel Feed Front Hose (2) >> Remove - Fuel Feed Front Hose Replacement



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

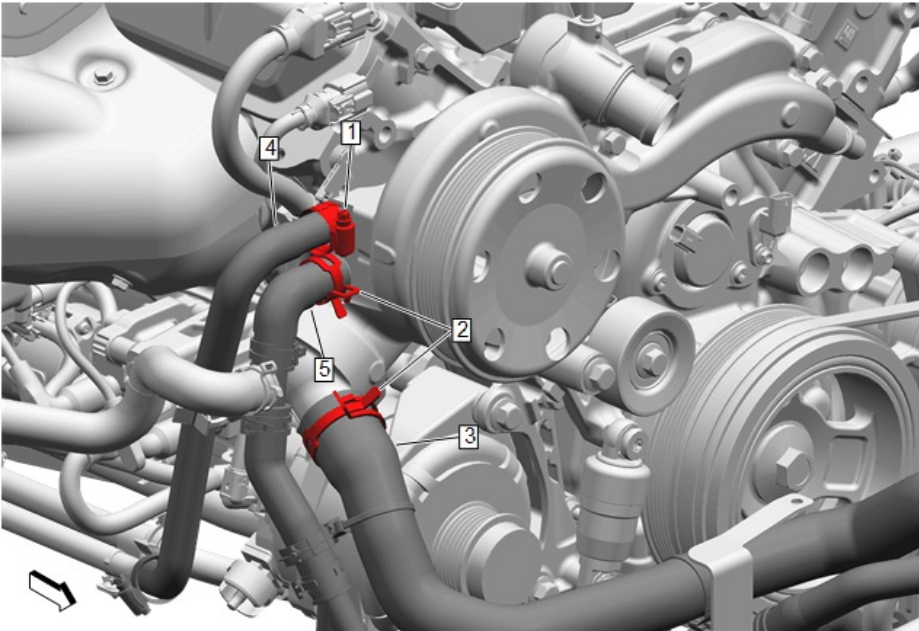
63. Battery Positive Cable (3) @ Generator >> Remove - Battery Positive Cable Replacement



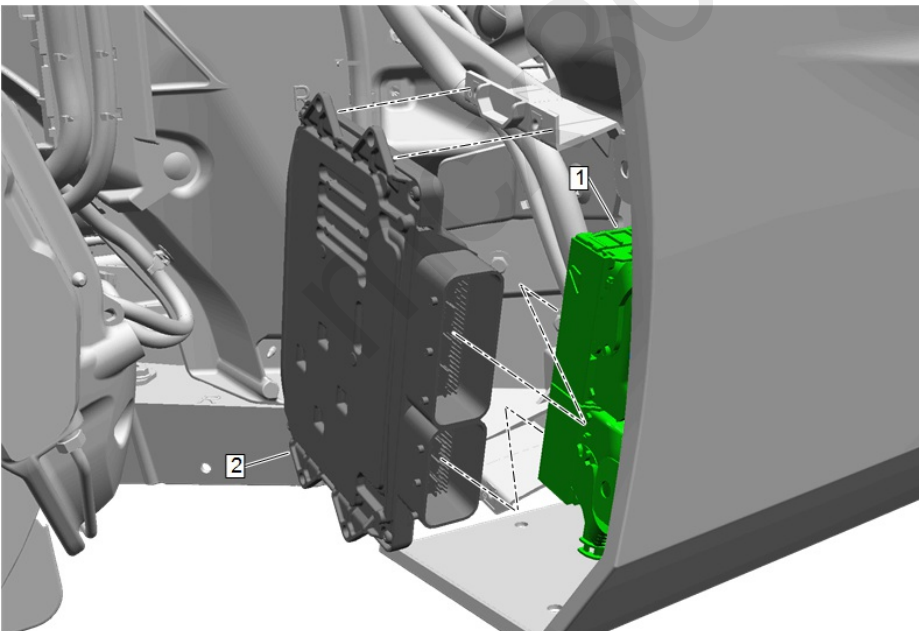
64.
[Click here for full size](#)

65. Radiator Surge Tank Inlet Hose (2) @ Engine Coolant Manifold >> Remove - Hose Clamp Replacement Guidelines - Spring Type

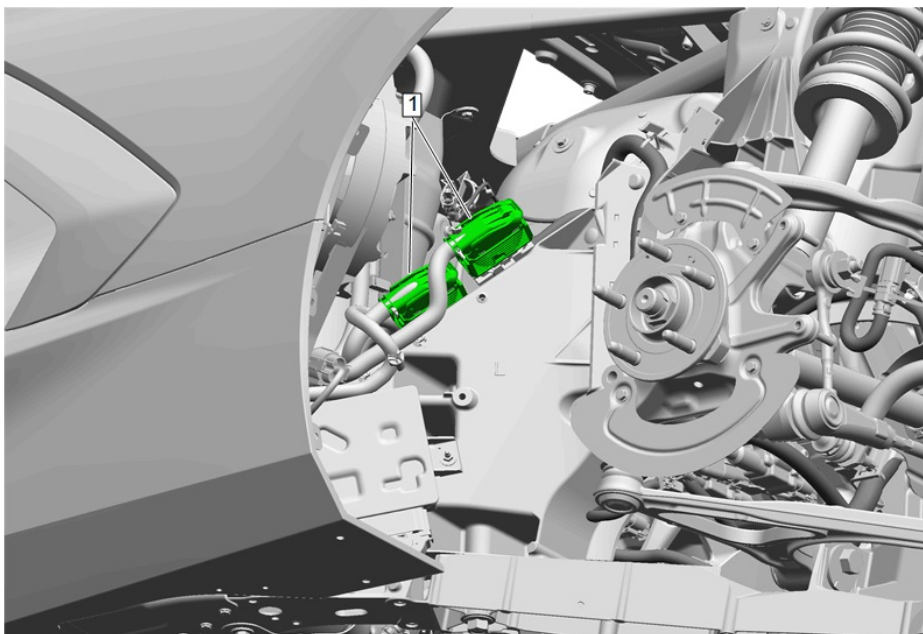
66. Radiator Inlet Hose (4) @ Engine Coolant Manifold >> Remove



67. [Click here for full size](#)
68. Radiator Outlet Hose (3) @ Engine Coolant Manifold >> Remove - Hose Clamp Replacement Guidelines - Spring Type
69. Transmission Fluid Cooler Engine Coolant Hose @ Engine Coolant Manifold >> Remove
70. Radiator Outlet Hose @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Disconnect

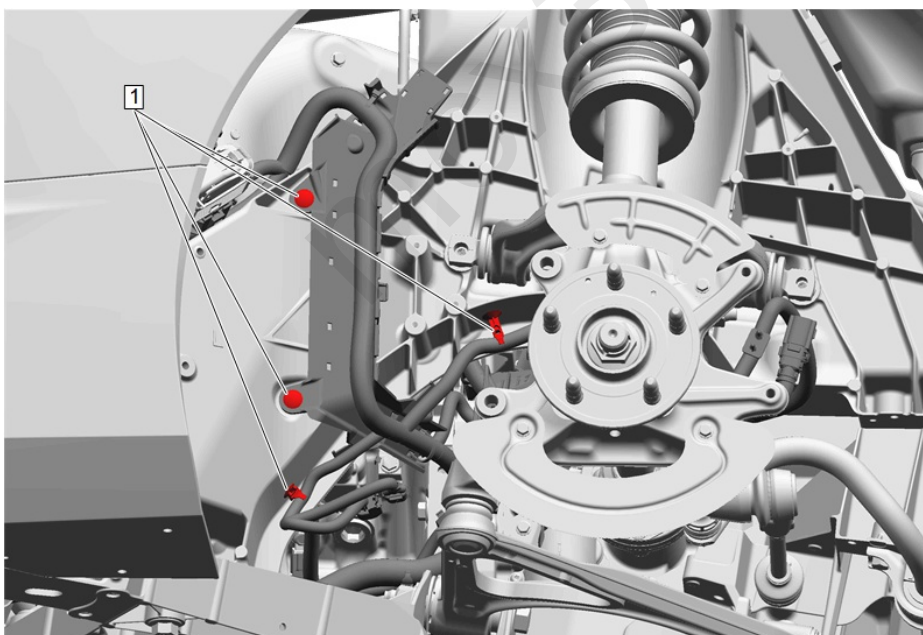


71. [Click here for full size](#)
72. Transmission Control Module (2>) >> Remove - Transmission Control Module Replacement
73. Remove the retainers that hold the engine wiring harness to the subframe and position aside.



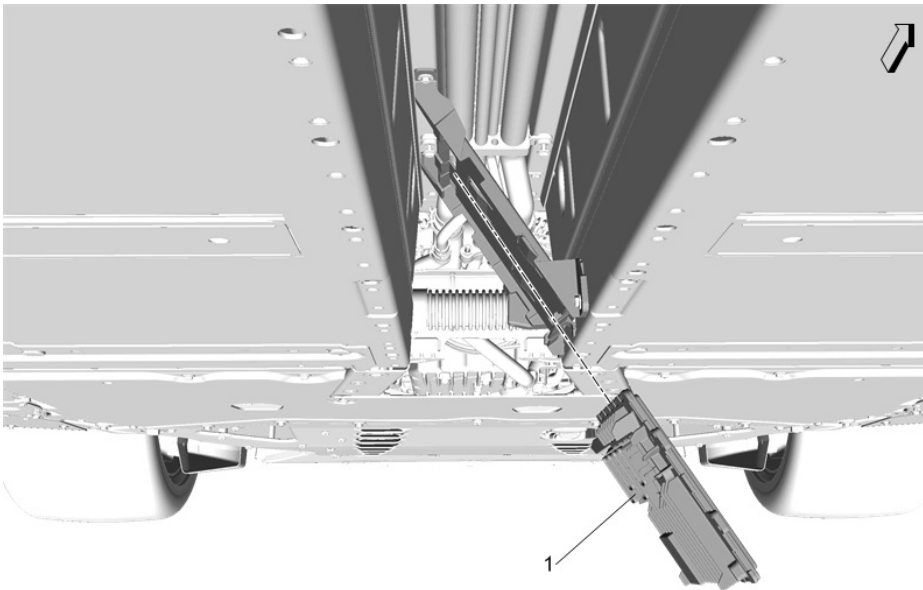
74.
[Click here for full size](#)

75. Engine Wiring Harness Connector (1) @ Body Wiring Harness Connector >> Disconnect

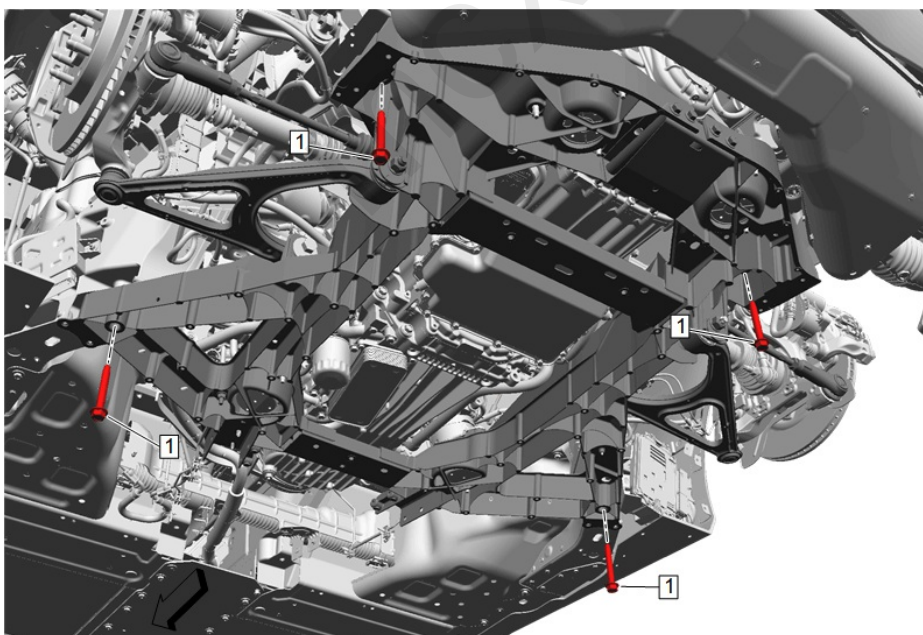


76.
[Click here for full size](#)

77. Remove the retainers (1) that hold the engine wiring harness to the subframe.



78. [Click here for full size](#)
79. Engine Control Module (1>) >> Remove - Engine Control Module Replacement
80. Lower the powertrain and drivetrain and front suspension cradle onto the *GE-52200* Æ, Æ Propulsion System Lift Table , or a suitable support table.

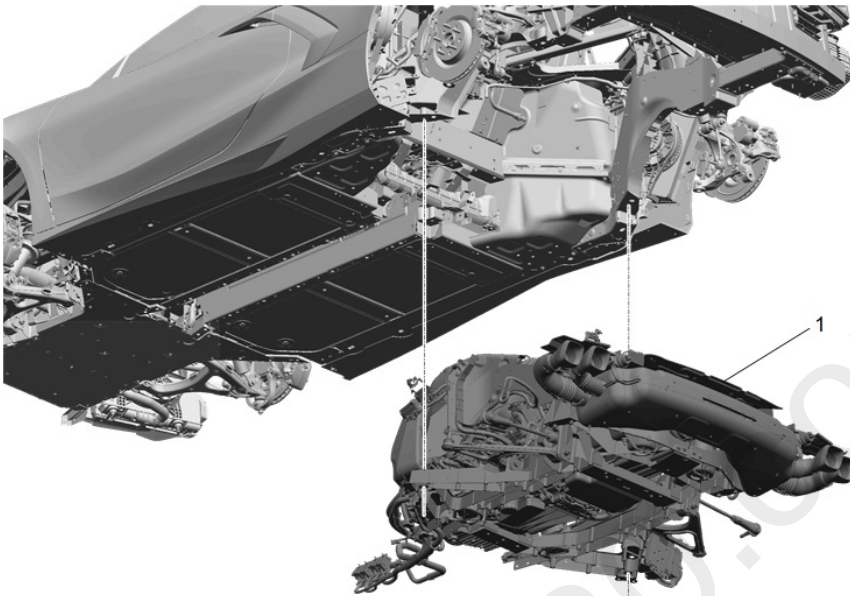


81. [Click here for full size](#)
82. Rear Suspension Cradle Rear Bolt (1) >> Remove [4x]

83. Ensure when separating the powertrain and rear suspension cradle from the body, the following items are clear:

84.

- Suspension knuckles
- Heating and cooling pipes and hoses
- Electrical wiring harnesses
- Brake pipes



85.

[Click here for full size](#)

86. With the aid of an assistant, carefully lower the powertrain and rear suspension cradle assembly (1) from the vehicle using the *GE-52200* Propulsion System Lift Table .

87. Separate the exhaust from the engine assembly.

88.

- Exhaust Manifold Replacement - Left Side
- Exhaust Manifold Replacement - Right Side

89. Separate the transmission from the engine assembly. Transmission Replacement

90. Transfer components as necessary.

Installation Procedure

1. Install the transmission to the engine assembly. Transmission Replacement

2. Install the exhaust to the engine assembly.

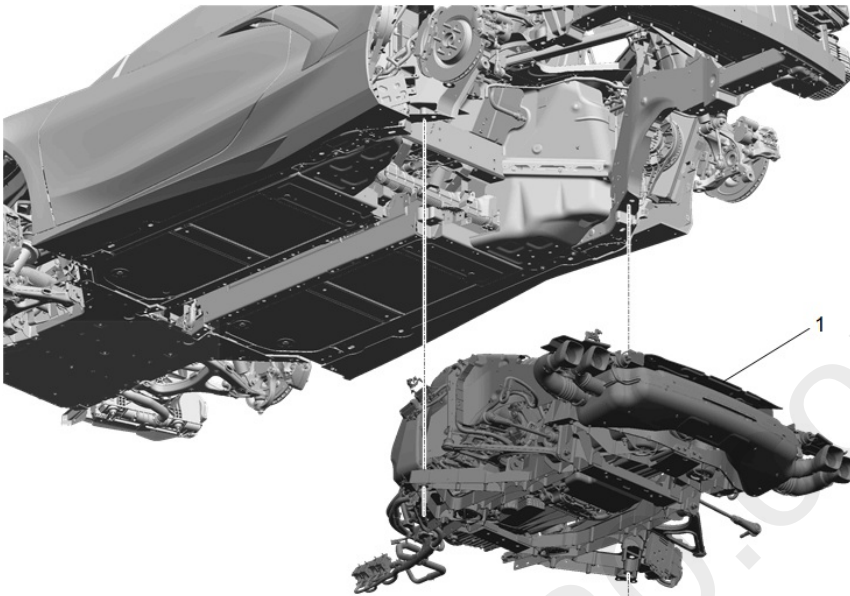
3.

- Exhaust Manifold Replacement - Left Side
- Exhaust Manifold Replacement - Right Side

4. Ensure when raising the powertrain and rear suspension cradle toward the body, the following items are clear:

5.

- Suspension knuckles
- Heating and cooling pipes and hoses
- Electrical wiring harnesses
- Brake pipes



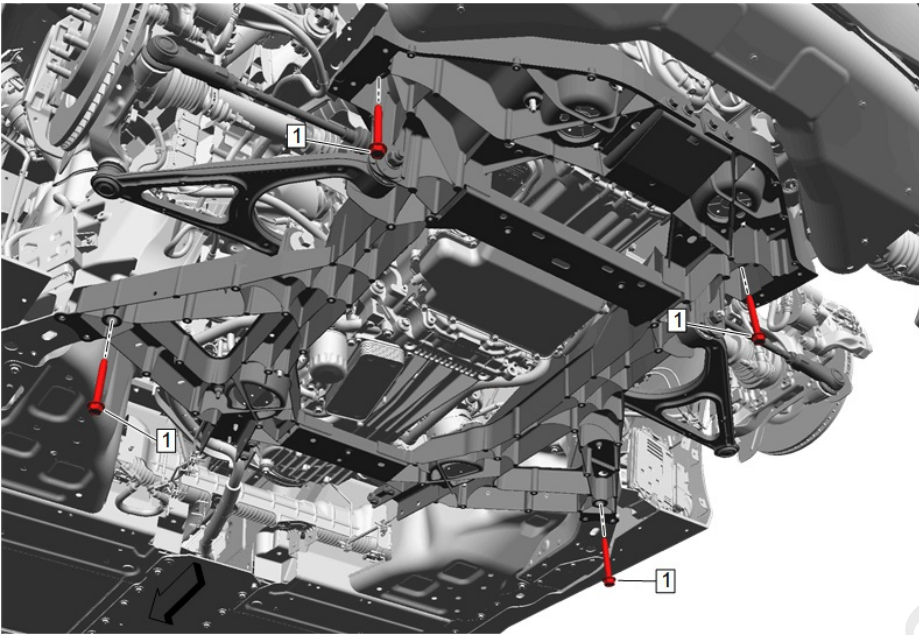
6.

[Click here for full size](#)

7. Note:

Ensure that the powertrain and rear suspension cradle is securely attached to the *GE-52200* Æ, Æ Propulsion System Lift Table .

8. With the aid of an assistant, carefully raise and install the powertrain and rear suspension cradle assembly (1) to the vehicle using the *GE-52200* Æ, Æ Propulsion System Lift Table .

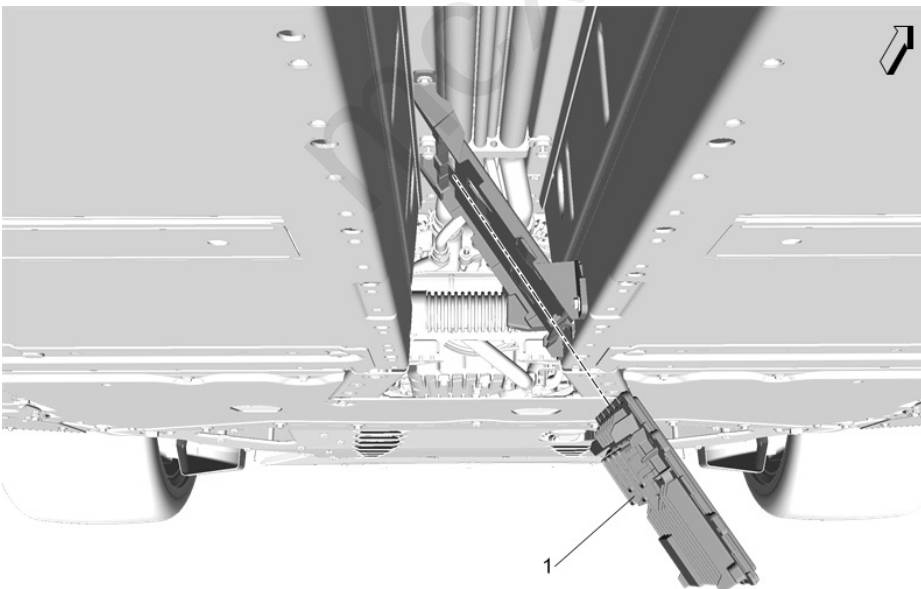


9.
[Click here for full size](#)

10. Caution:

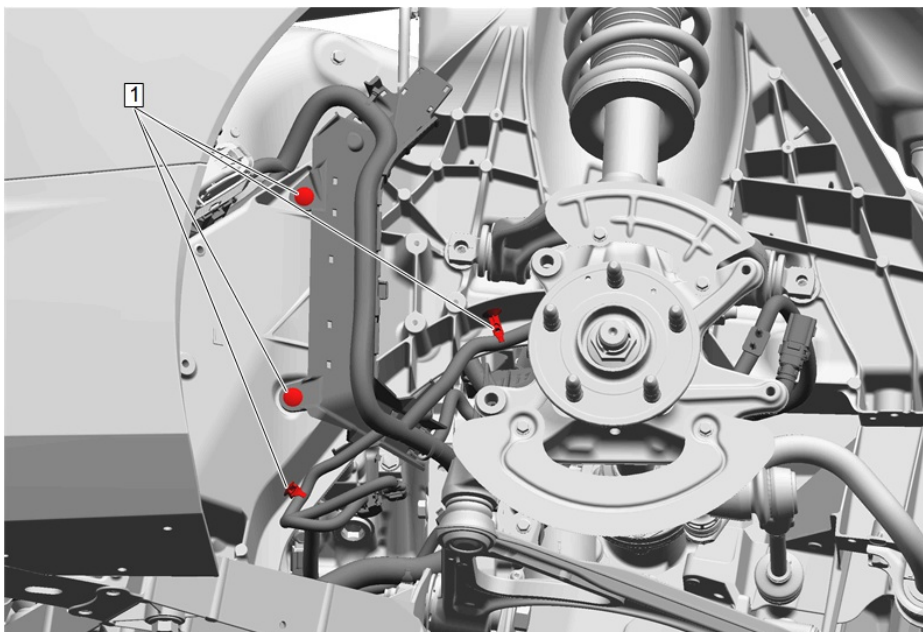
Refer to Fastener Caution.

11. Rear Suspension Cradle Rear Bolt (1>) >> Install [4>x] - Rear Suspension Cradle Replacement



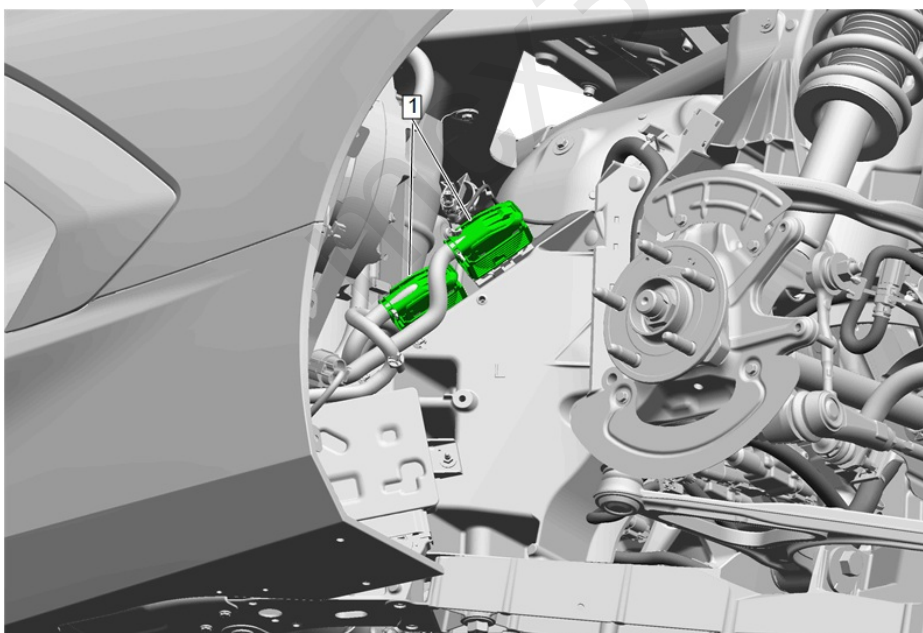
12.
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13. Engine Control Module (1>) >> Install - Engine Control Module Replacement



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

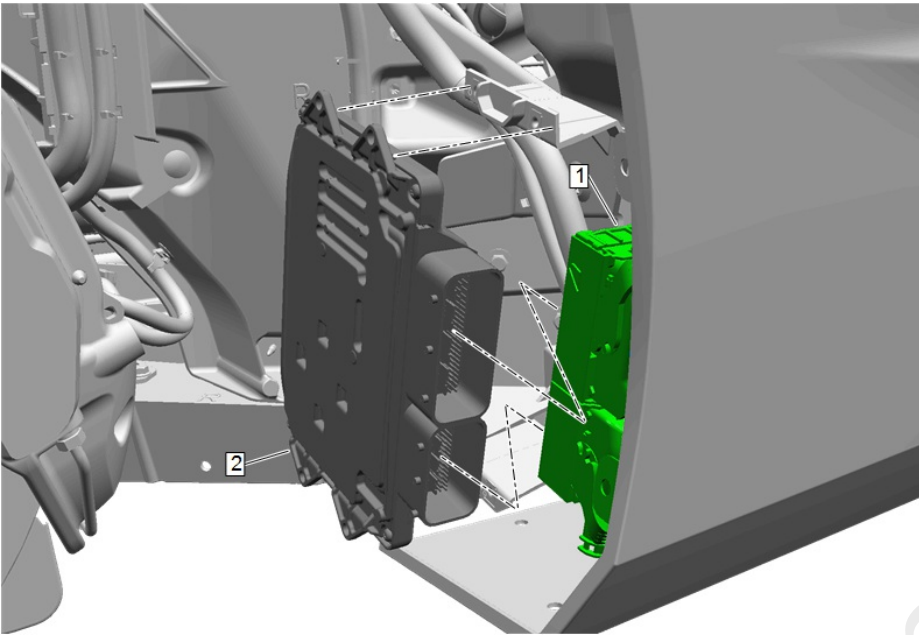
15. Install the retainers that hold the engine wiring harness to the subframe (1).



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

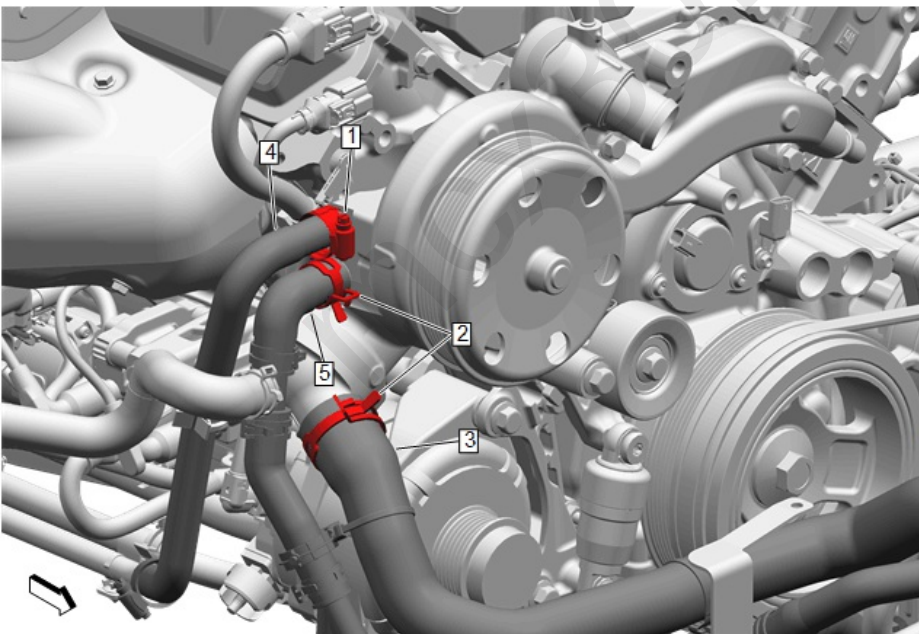
17. Engine Wiring Harness Connector (1) @ Body Wiring Harness Connector >> Connect

18. Install wiring harness and secure to sub-frame.



19.
[Click here for full size](#)

20. [Transmission Control Module \(2>\) >> Install - Transmission Control Module Replacement](#)

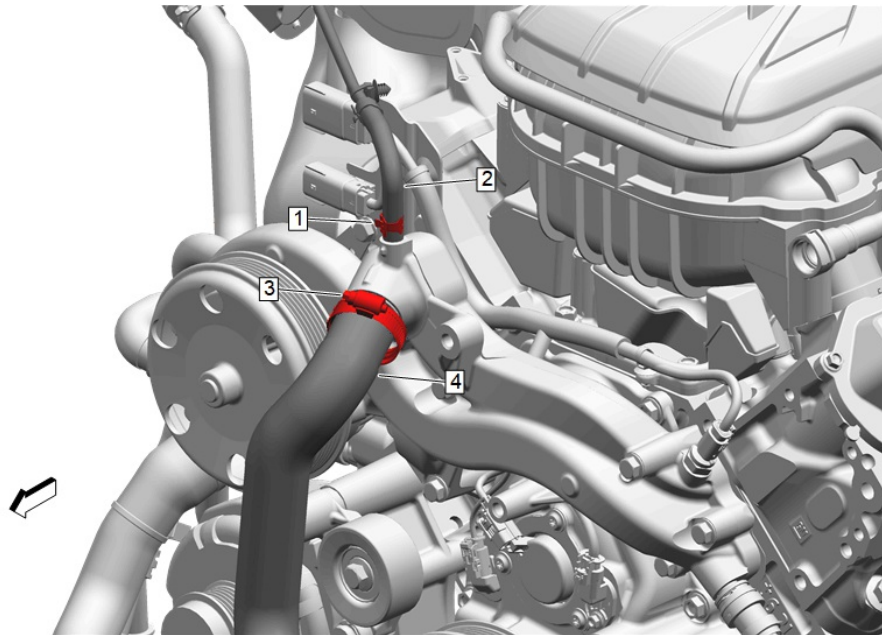


21.
[Click here for full size](#)

22. [Radiator Outlet Hose \(3\) @ Engine Coolant Manifold >> Install - Hose Clamp Replacement Guidelines - Spring Type](#)

23. [Radiator Outlet Hose @ Air Conditioning Condenser and Air Conditioning Evaporator Tube >> Install](#)

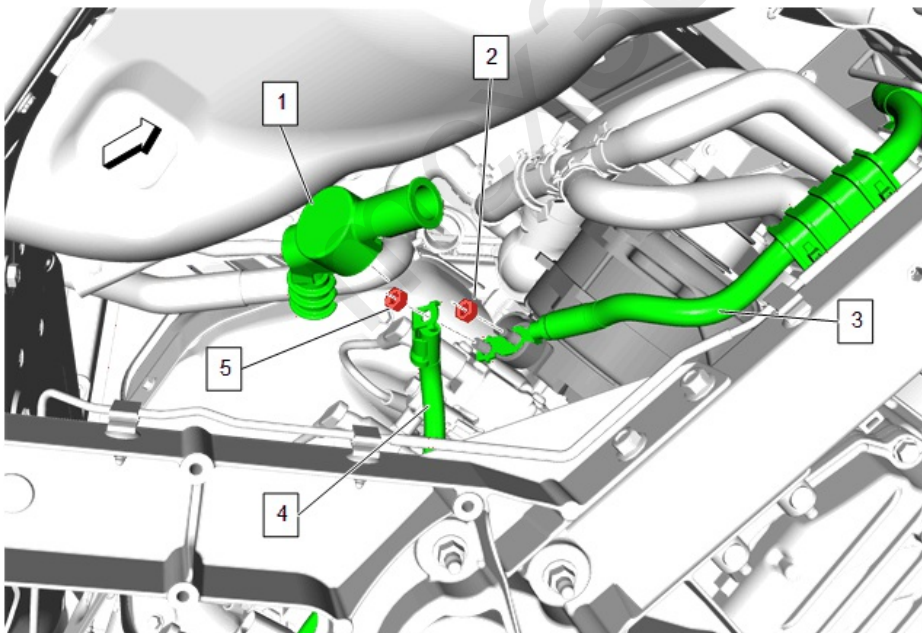
24. [Transmission Fluid Cooler Engine Coolant Hose @ Engine Coolant Manifold >> Install](#)



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

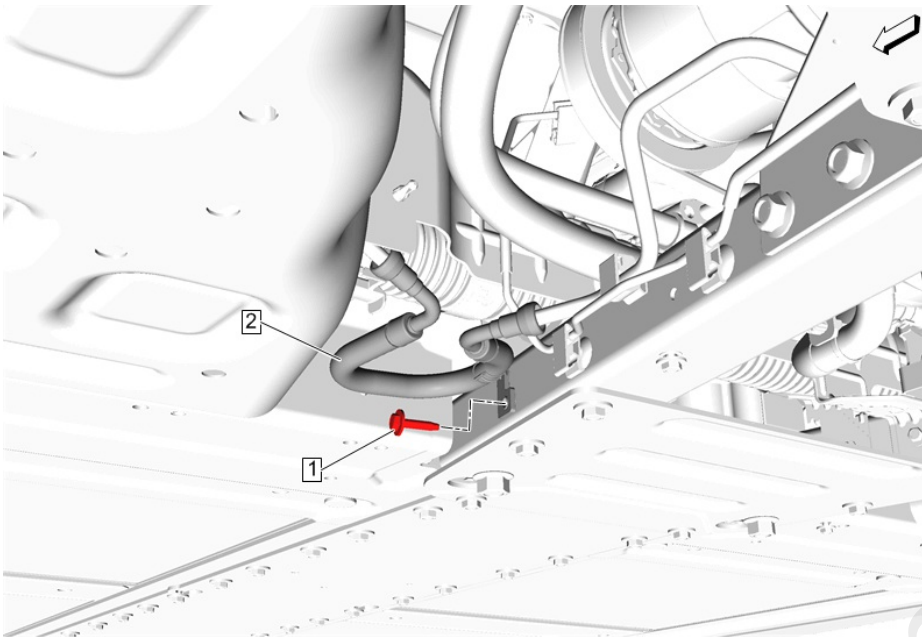
26. Radiator Surge Tank Inlet Hose (2) @ Engine Coolant Manifold >> Install - Hose Clamp Replacement Guidelines - Spring Type

27. Radiator Inlet Hose (4) @ Engine Coolant Manifold >> Install

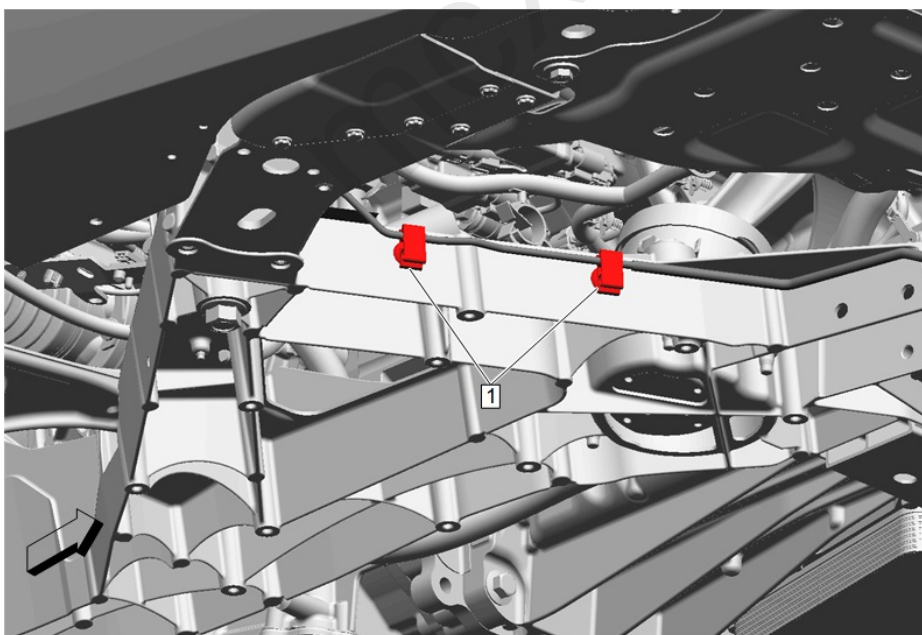


28.
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29. Battery Positive Cable (3) @ Generator >> Install - Battery Positive Cable Replacement

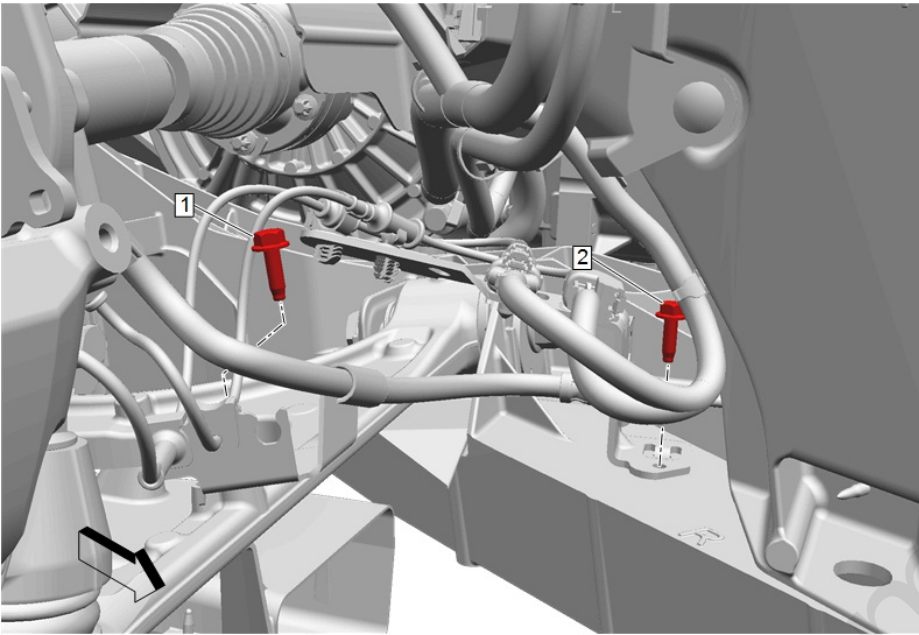


30. [Click here for full size](#)
31. Fuel Feed Front Hose (2) >> Install - Fuel Feed Front Hose Replacement
32. Air Conditioning Compressor Hose @ Air Conditioning Condenser and Evaporator Hose >> Connect - Air Conditioning Compressor Hose Replacement



33. [Click here for full size](#)
34. Note:
- Right side shown, left side similar.

35. Rear Brake Pipe Clip (1) >> Engage [2x]



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

37. Note:

Right side shown, left side similar.

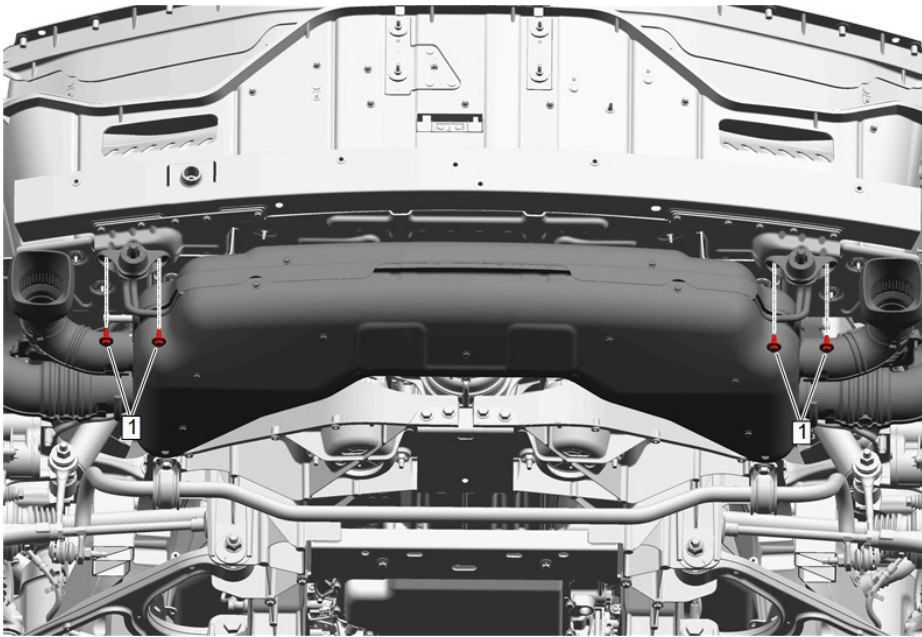
38. Rear Brake Hose Bracket Bolt (1) >> Install - Rear Brake Hose Replacement

39. Note:

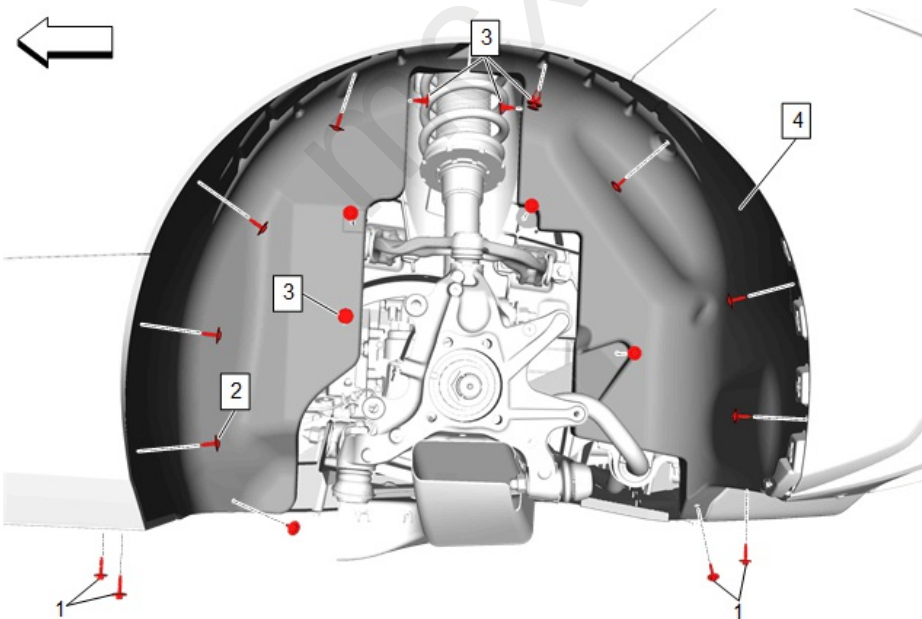
Right side shown, left side similar.

40. Rear Brake Hose Bracket Bolt (2) >> Install - Rear Brake Hose Replacement

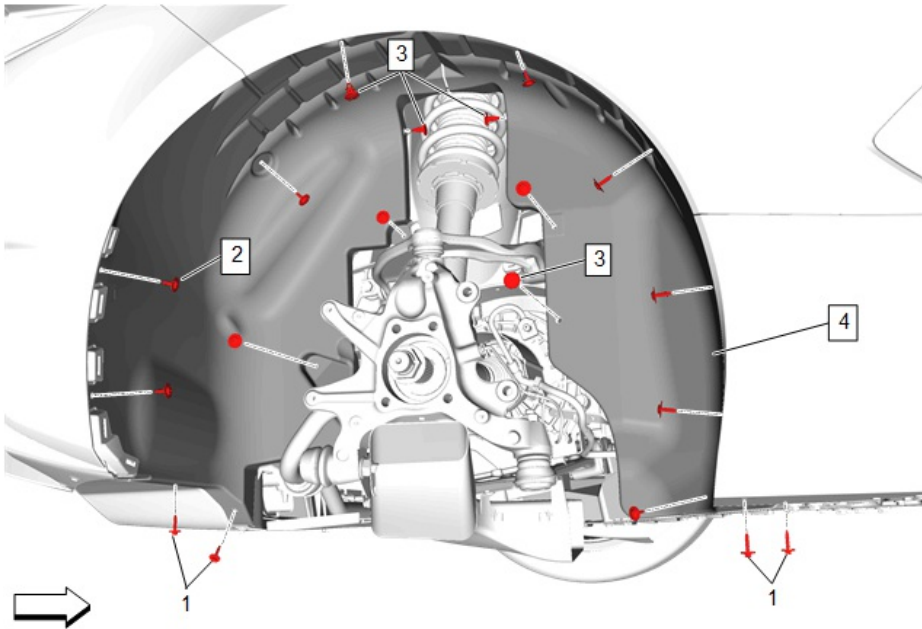
41. Connect the 4 electrical connectors at the exhaust control valve actuator.



42. [Click here for full size](#)
43. Exhaust Muffler Hanger Bracket Bolt (1) >> Install [4x] - Exhaust Muffler Replacement
44. Install the exhaust front insulators (1) from the right and left side exhaust front brackets. Exhaust Muffler Replacement
45. [Click here for full size](#)
46. Remove the suitable strap from the front upper control arm (1) and the hoist lifting arm (3).

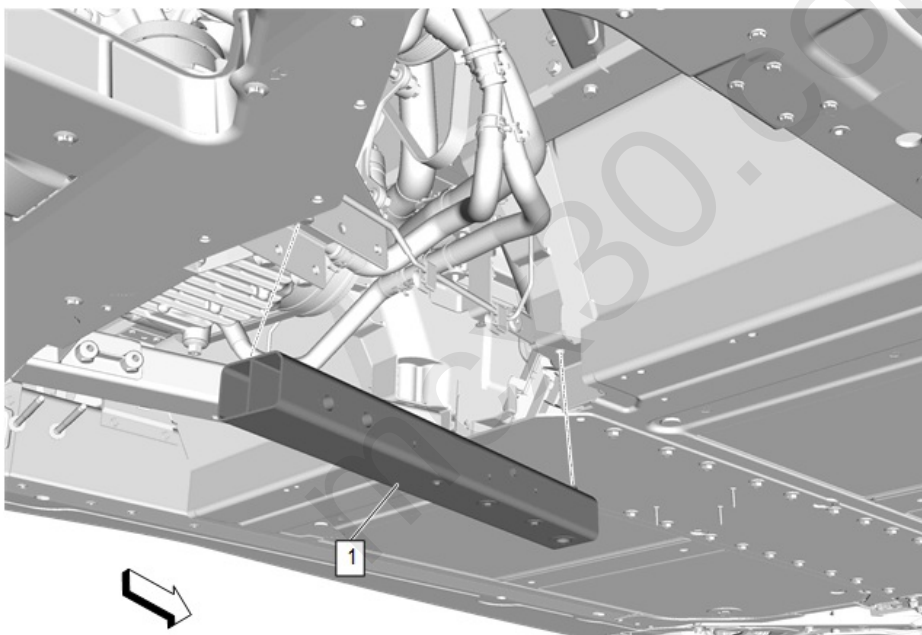


47. [Click here for full size](#)
48. Rear Wheelhouse Liner - Left Side (4) >> Install - Rear Wheelhouse Liner Replacement - Left Side



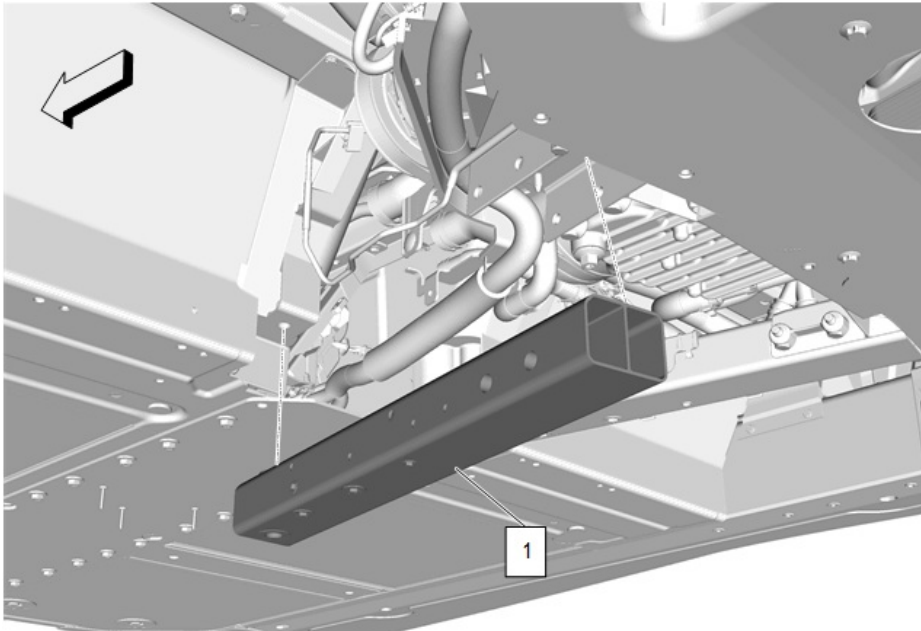
49.
[Click here for full size](#)

50. Rear Wheelhouse Liner - Right Side (4) >> Install - Rear Wheelhouse Liner Replacement - Right Side



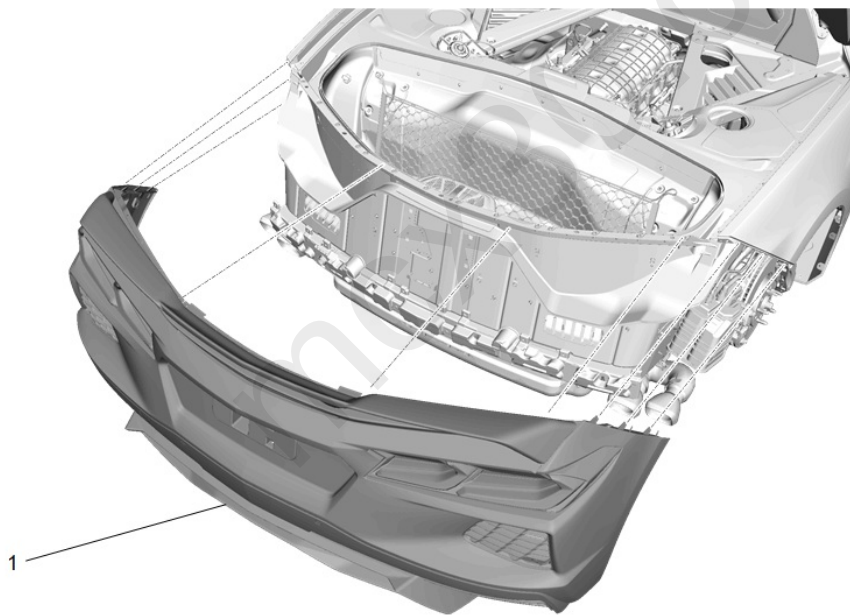
51.
[Click here for full size](#)

52. Rear Suspension Front Extension - Right Side (1) >> Install - Rear Suspension Front Extension Replacement - Right Side



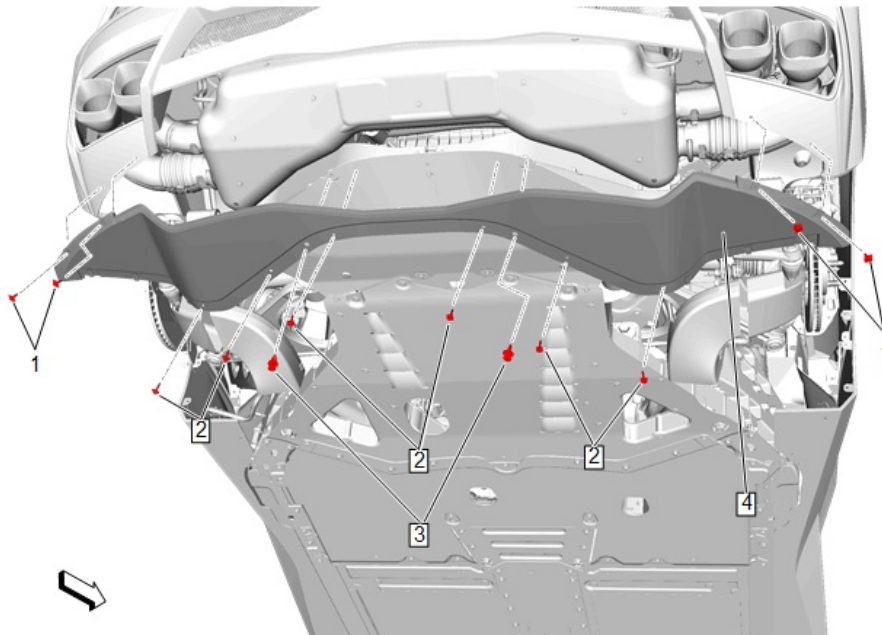
53.
[Click here for full size](#)

54. Rear Suspension Front Extension - Left Side (1) >> Install - Rear Suspension Front Extension Replacement - Left Side



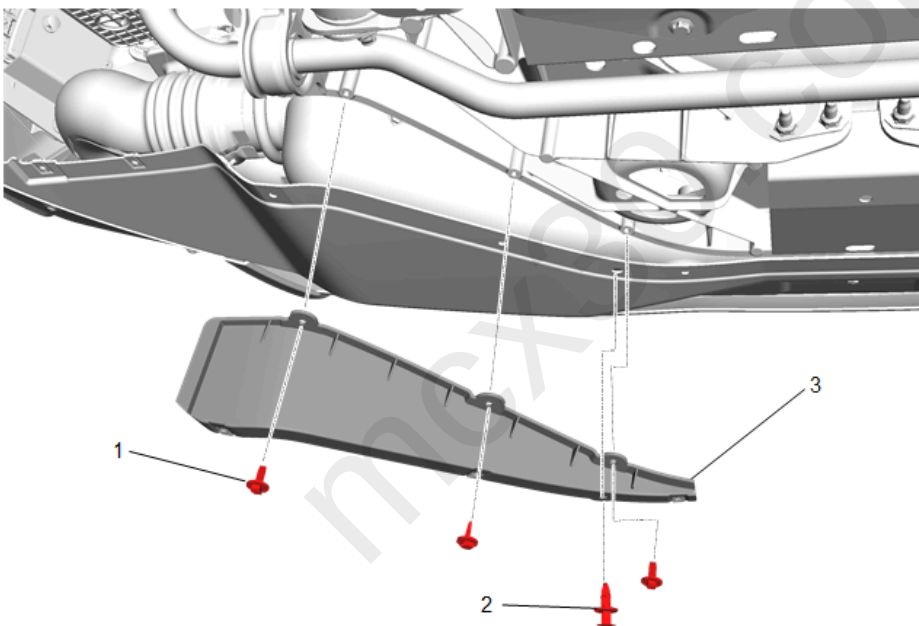
55.
[Click here for full size](#)

56. Rear Bumper Fascia (1>) >> Install - Rear Bumper Fascia Removal and Installation



57.
[Click here for full size](#)

58. Rear Bumper Fascia Diffuser (4) >> Install - Rear Bumper Fascia Diffuser Replacement

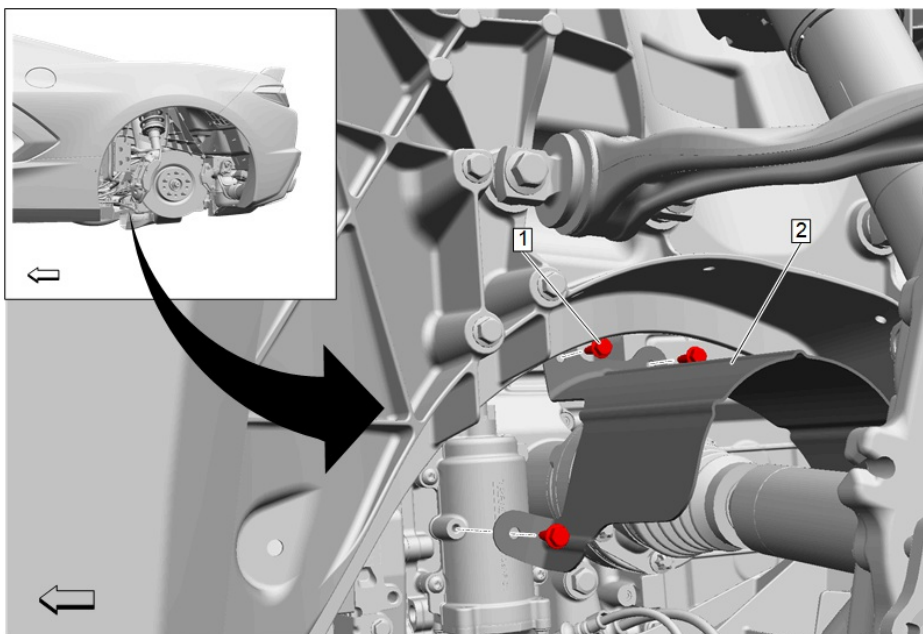


59.
[Click here for full size](#)

60. Rear Bumper Lower Fascia Bracket (3) >> Install [2>x] - Rear Bumper Lower Fascia Bracket Replacement

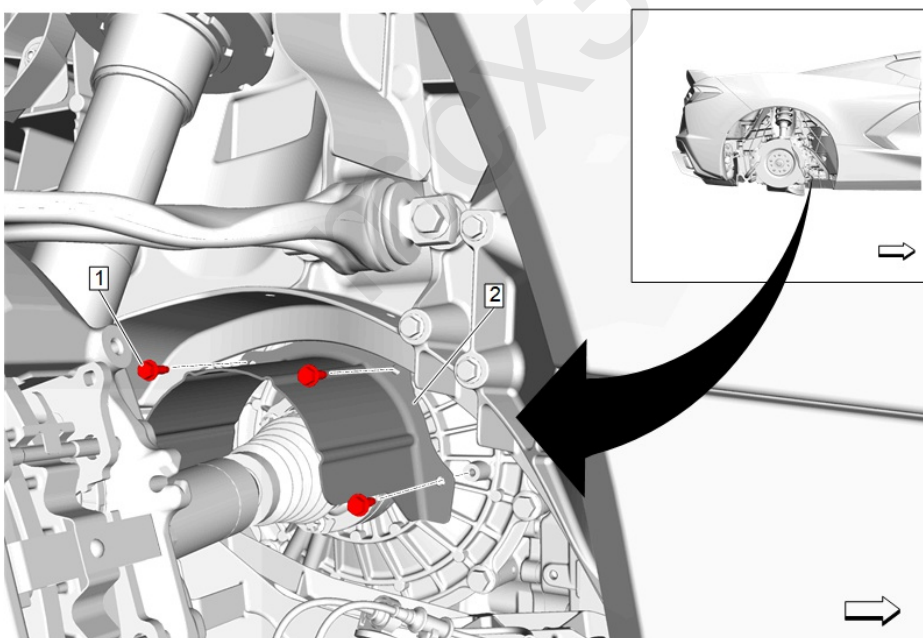
61. Rear Wheel Drive Shaft - Left Side >> Install - Rear Wheel Drive Shaft Replacement - Left Side

62. Rear Wheel Drive Shaft - Right Side >> Install - Rear Wheel Drive Shaft Replacement - Right Side



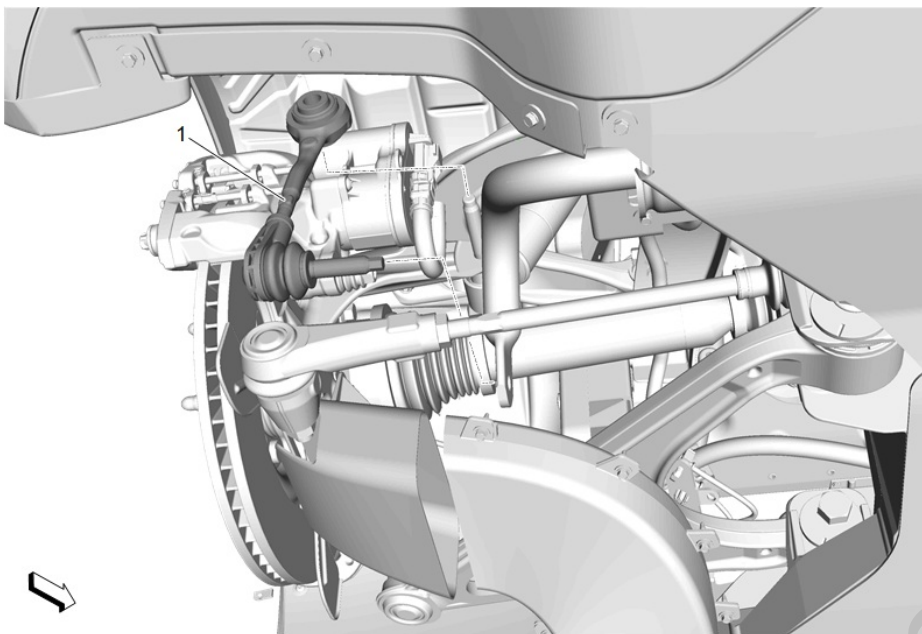
63.
[Click here for full size](#)

64. Rear Wheel Drive Shaft Shield - Left Side >>> Install - Rear Wheel Drive Shaft Shield Replacement - Left Side

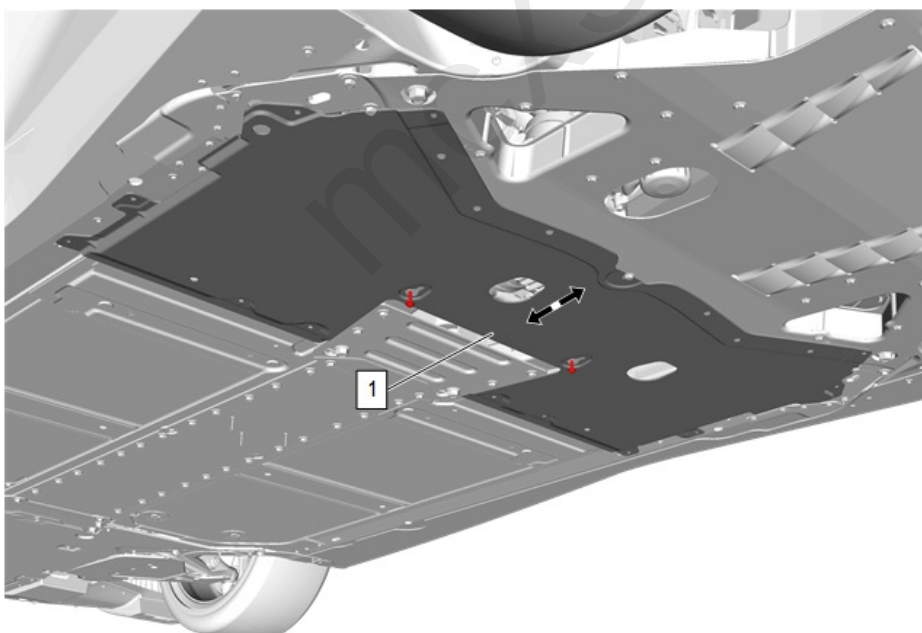


65.
[Click here for full size](#)

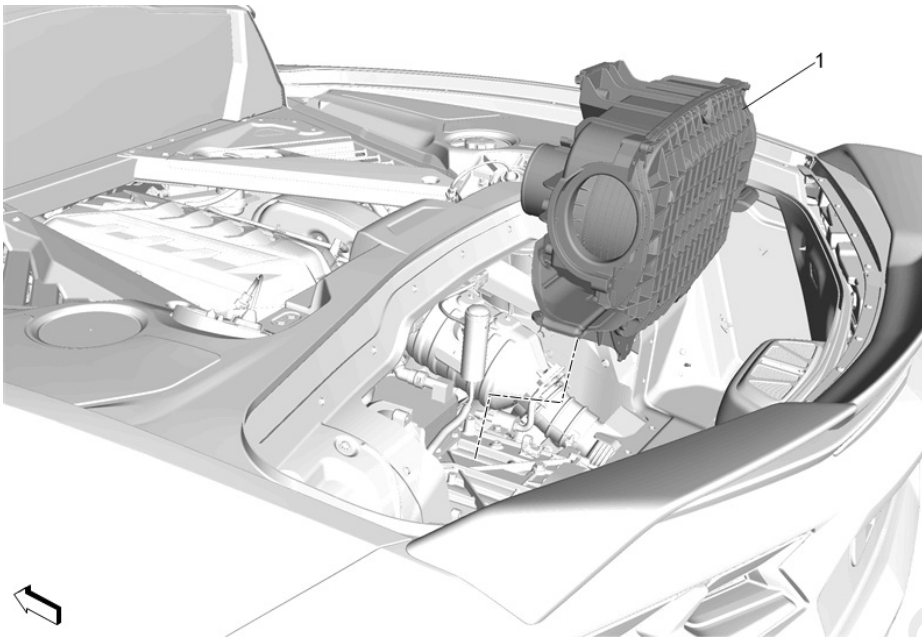
66. Rear Wheel Drive Shaft Shield - Right Side (2>) >>> Install - Rear Wheel Drive Shaft Shield Replacement - Right Side



67. [Click here for full size](#)
68. Rear Stabilizer Shaft Link (1>) >> Install [2>x] - Rear Stabilizer Shaft Link Replacement
69. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Install - Rear Suspension Adjust Link Outer End Replacement
70. Rear Suspension Lower Control Arm @ Rear Suspension Knuckle >> Install - Rear Suspension Lower Control Arm Replacement

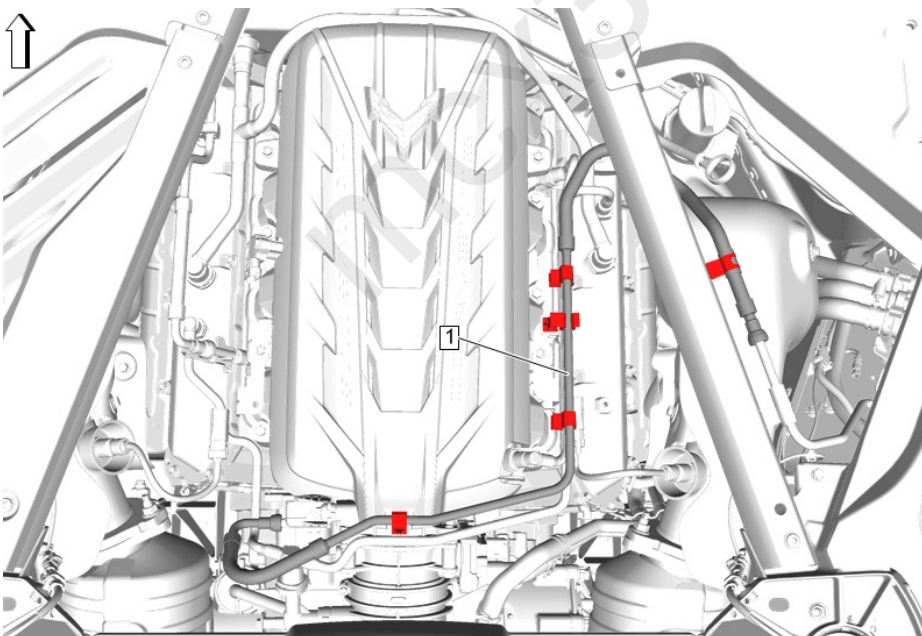


71. [Click here for full size](#)
72. Underbody Rear Air Deflector (1) >> Install - Underbody Rear Air Deflector Replacement



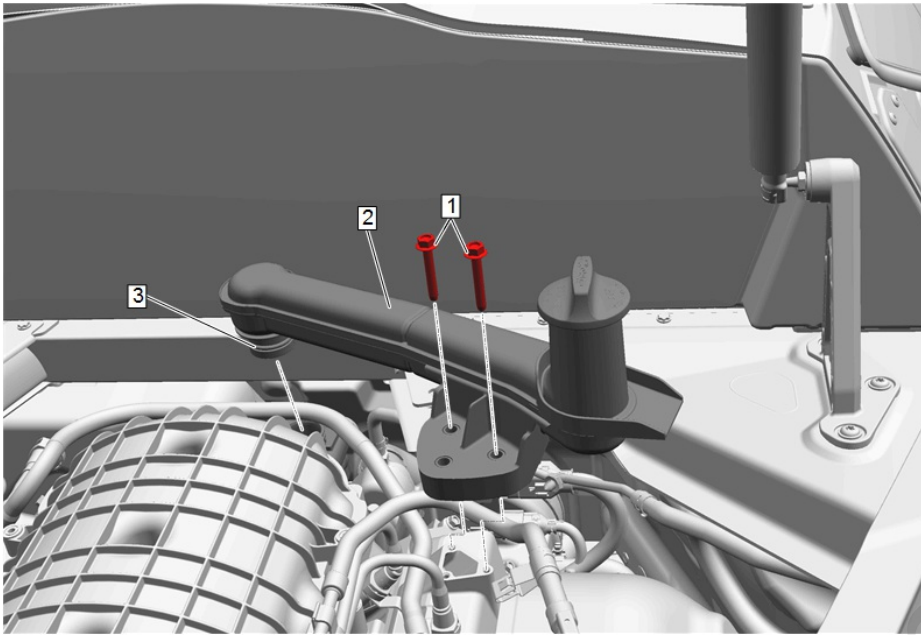
73.
[Click here for full size](#)

74. Air Cleaner Assembly (1) >> Install - Air Cleaner Assembly Replacement



75.
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76. Evaporative Emission Canister Purge Front Pipe (1) >> Install - Evaporative Emission Canister Purge Front Pipe Replacement



77. [Click here for full size](#)
78. Oil Filler Tube (2>) >> Install - Oil Filler Tube Replacement
79. Connect the battery negative cable. Battery Negative Cable Disconnection and Connection
80. Fill the engine oil to the proper level with NEW engine oil. Engine Oil and Oil Filter Replacement
81. If the engine is replaced with a new engine or has been overhauled, perform the Engine Prelubing Procedure. Engine Prelubing
82. Fill the cooling system. Cooling System Draining and Filling
83. Charge the A/C System. Refrigerant Recovery and Recharging
84. Perform the crankshaft position variation learn procedure. Crankshaft Position Variation Learn
85. Perform the throttle body idle air flow compensation reset procedure. Throttle Body Idle Air Flow Compensation Reset