

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Engine/Propulsion**
2. **Engine Mechanical - 6.2L (LT2)**
3. **Repair Instructions**
- 4.

Engine Replacement (Convertible)

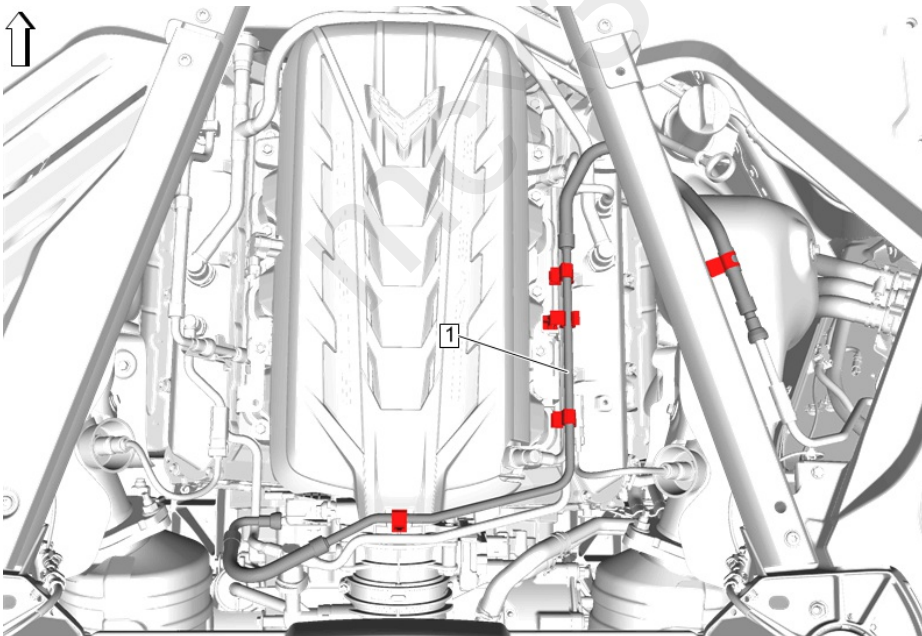
Special Tools

GE-52200 Ã,Ã Propulsion System Lift Table

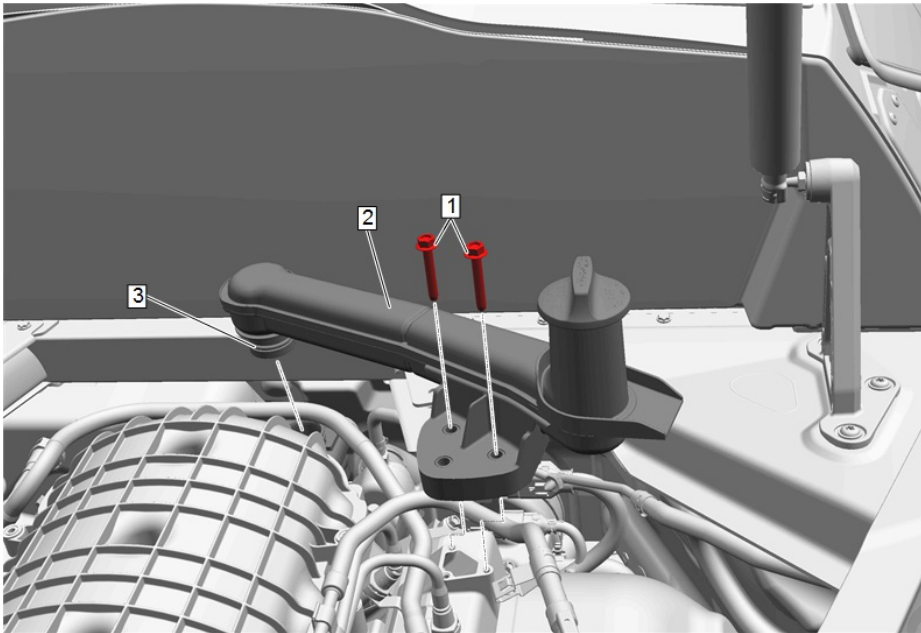
Equivalent regional tools: Special Tools

Removal Procedure

1. Relieve the fuel system pressure. Fuel Pressure Relief
2. Recover the refrigerant. Refrigerant Recovery and Recharging
3. Raise and support the vehicle. Lifting and Jacking the Vehicle
4. Drain the cooling system. Cooling System Draining and Filling
5. [Click here for full size](#)
6. Rear Window Panel (2>) >> Remove - Rear Window Panel Replacement



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

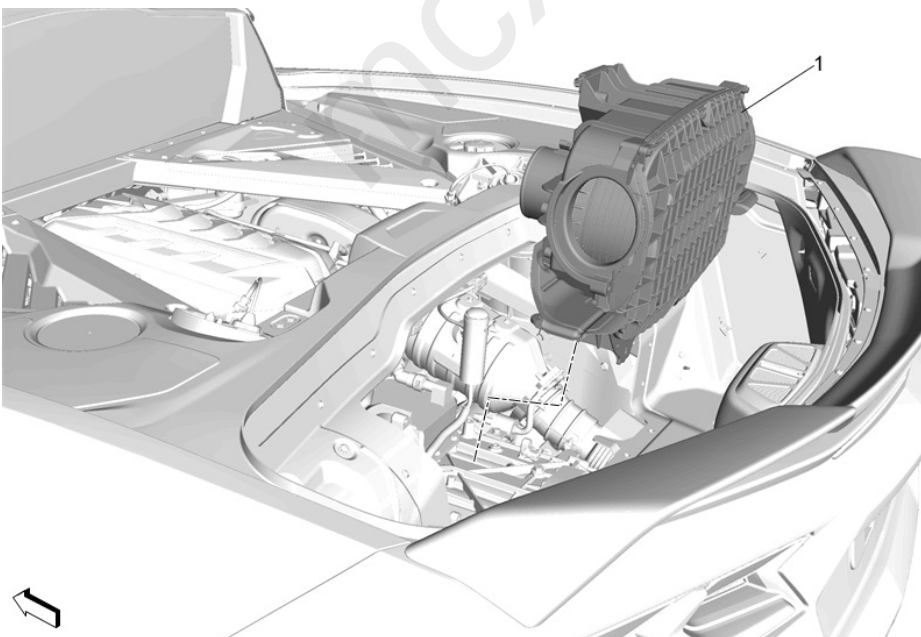


9.
[Click here for full size](#)

10. Oil Filler Tube (1) >> Remove - Oil Filler Tube Replacement

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

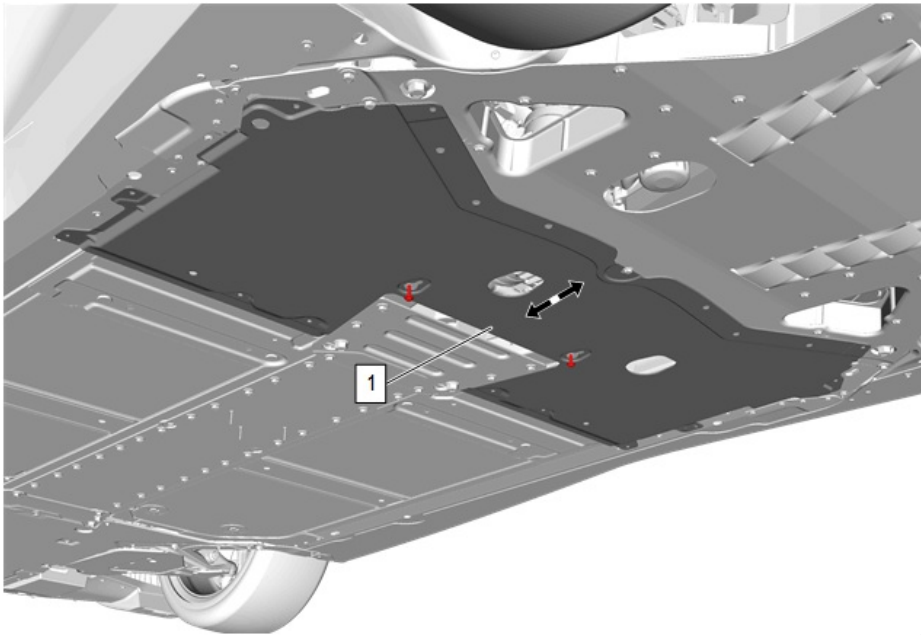
12. Radiator Surge Tank (1) >> Remove - Radiator Surge Tank Replacement



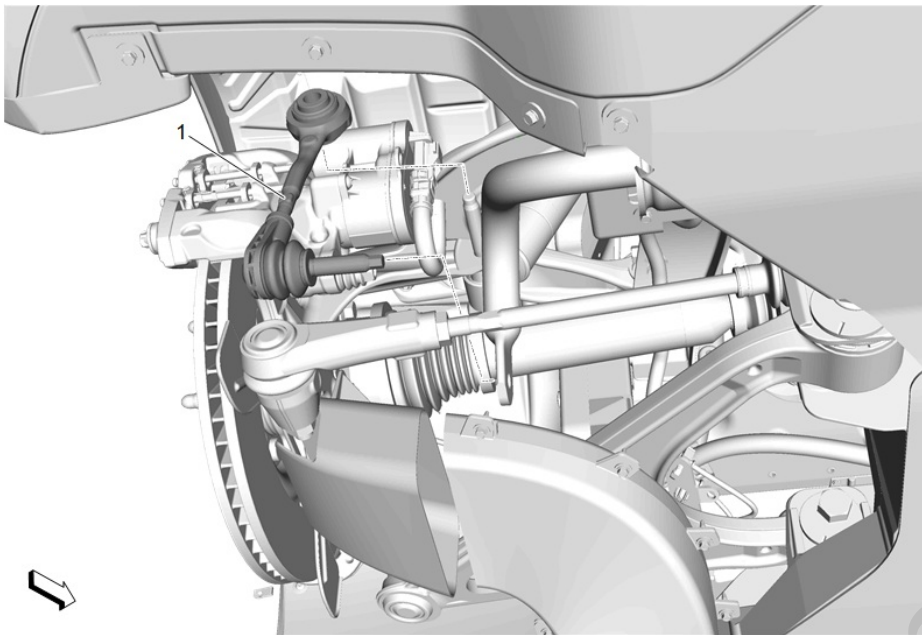
13.
[Click here for full size](#)

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

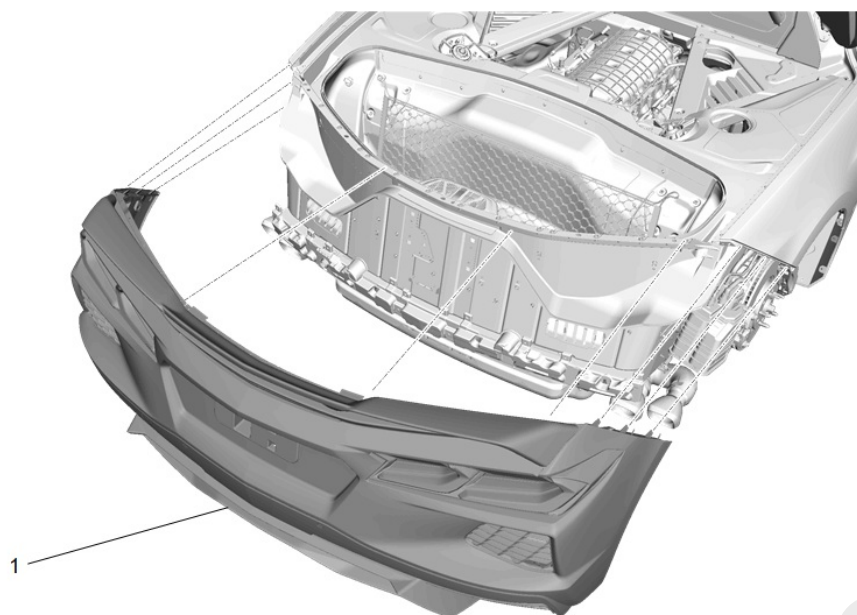
15. Disconnect the battery negative cable. Battery Negative Cable Disconnection and Connection



16. [Click here for full size](#)
17. Underbody Rear Air Deflector (1) >> Remove - Underbody Rear Air Deflector Replacement
18. [Click here for full size](#)
19. Note:
- Avoid strap contact with flexible brake lines routed in the area behind the knuckle.
20. 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.
21. [Click here for full size](#)
22. Ensure the vehicle body is secured to the vehicle hoist using a suitable strap (1).
23. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Remove - Rear Suspension Adjust Link Outer End Replacement
24. Rear Suspension Lower Control Arm @ Rear Suspension Knuckle >> Remove - Rear Suspension Lower Control Arm Replacement

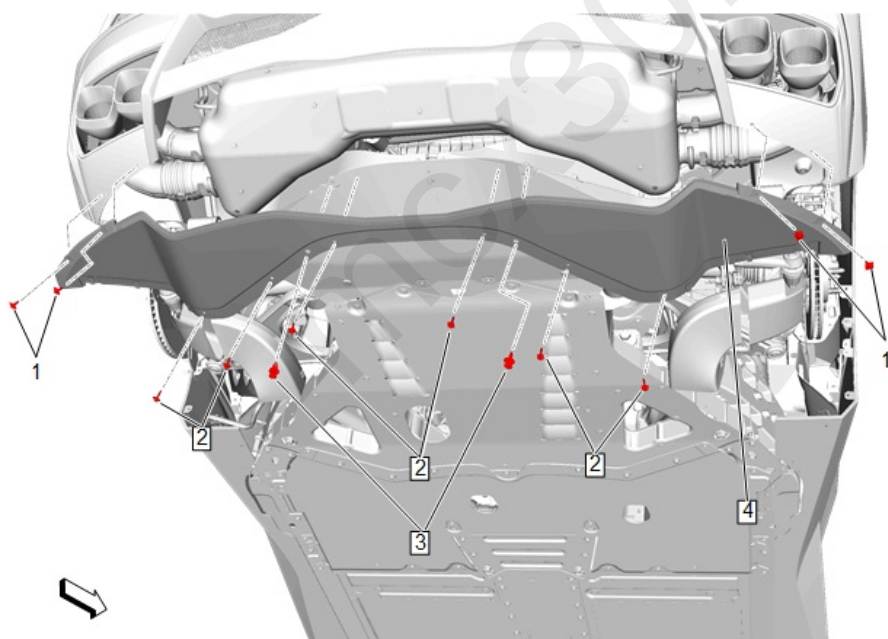


25. [Click here for full size](#)
26. Rear Stabilizer Shaft Link >> Remove [2x] - Rear Stabilizer Shaft Link Replacement
27. Rear Wheel Drive Shaft Shield - Left Side >> Remove - Rear Wheel Drive Shaft Shield Replacement - Left Side
28. Rear Wheel Drive Shaft Shield - Right Side >> Remove - Rear Wheel Drive Shaft Shield Replacement - Right Side
29. Rear Wheel Drive Shaft - Left Side @ Transmission >> Disconnect - Rear Wheel Drive Shaft Replacement - Left Side
30. Rear Wheel Drive Shaft - Right Side @ Transmission >> Disconnect - Rear Wheel Drive Shaft Replacement - Right Side



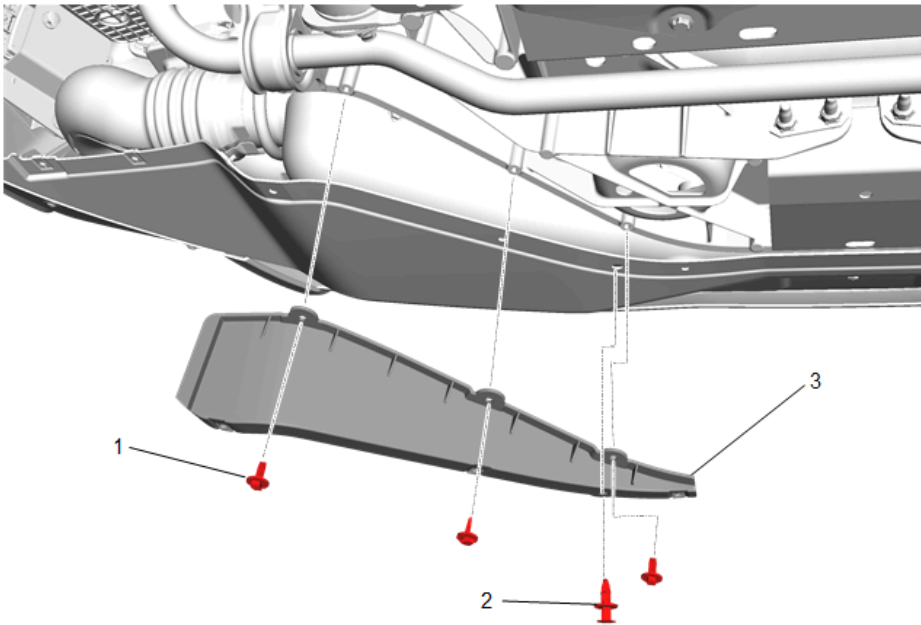
31.
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32. Rear Bumper Fascia (1) >> Remove - Rear Bumper Fascia Removal and Installation



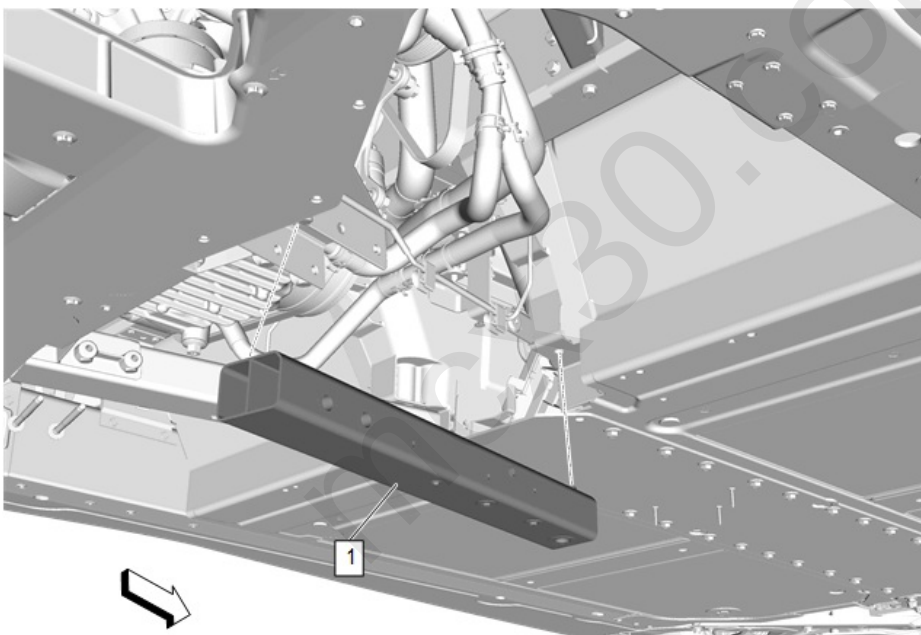
33.
[Click here for full size](#)

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



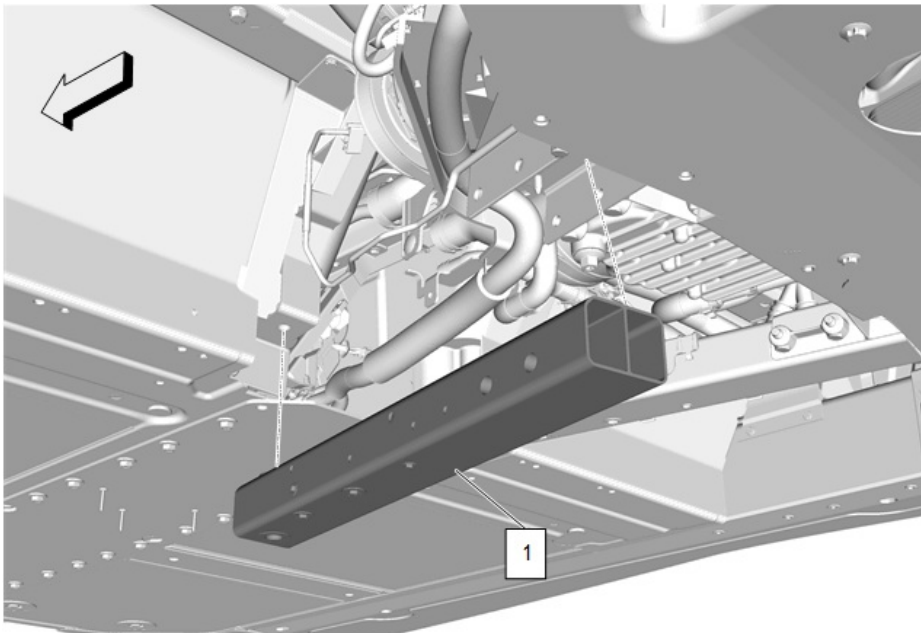
35.
[Click here for full size](#)

36. Rear Bumper Lower Fascia Bracket (3) >> Remove - Rear Bumper Lower Fascia Bracket Replacement



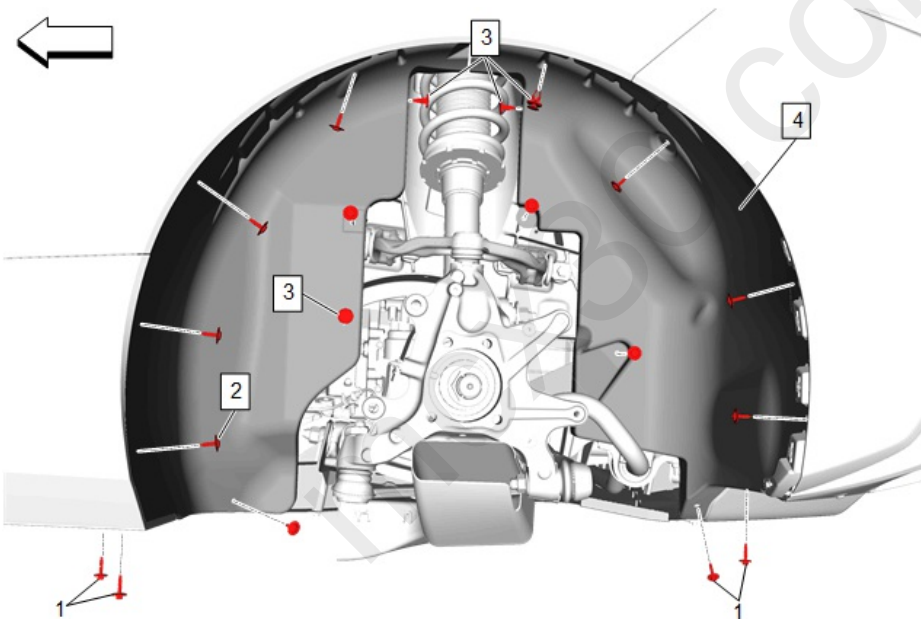
37.
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38. Rear Suspension Front Extension - Right Side (1) >> Remove - Rear Suspension Front Extension Replacement - Right Side



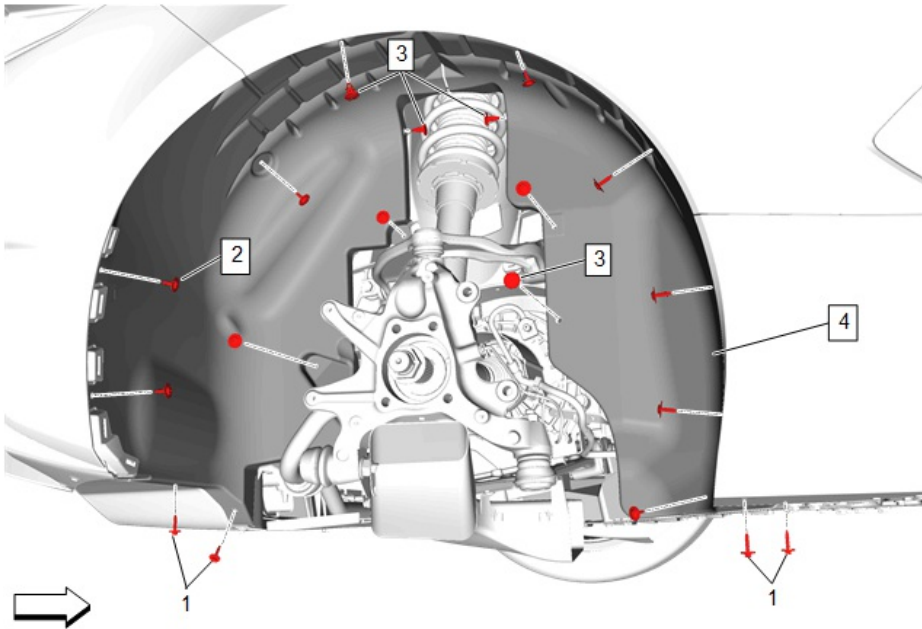
39.
[Click here for full size](#)

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



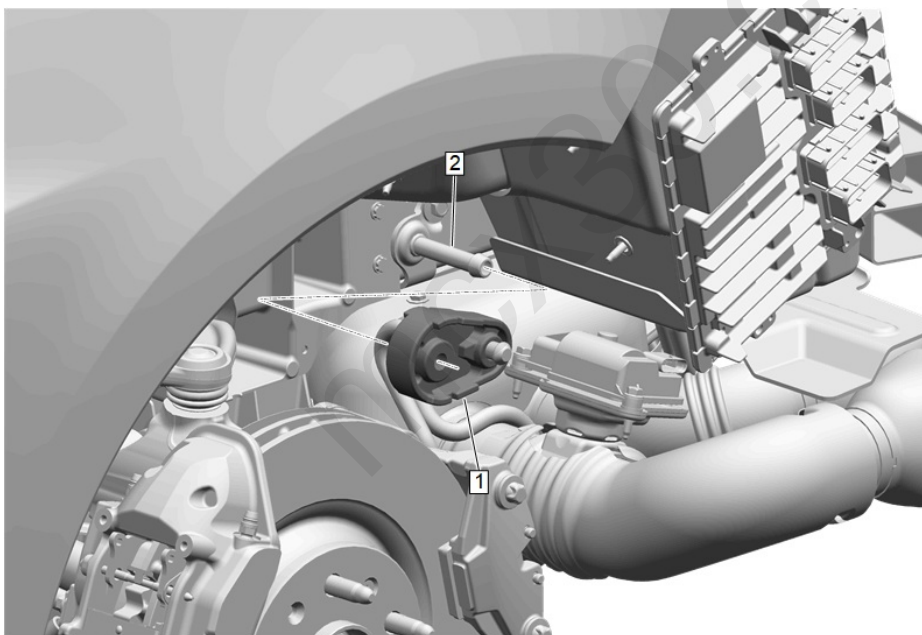
41.
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42. Rear Wheelhouse Liner - Left Side (4) >> Remove - Rear Wheelhouse Liner Replacement - Left Side



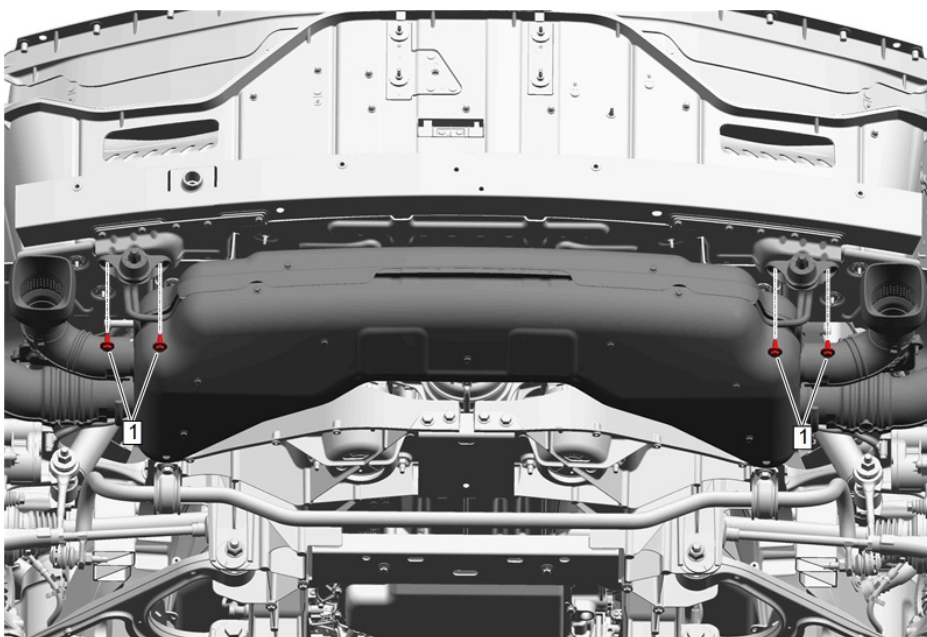
43.
[Click here for full size](#)

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



45.
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46. Separate the exhaust front insulators (1) from the right and left side exhaust front brackets.

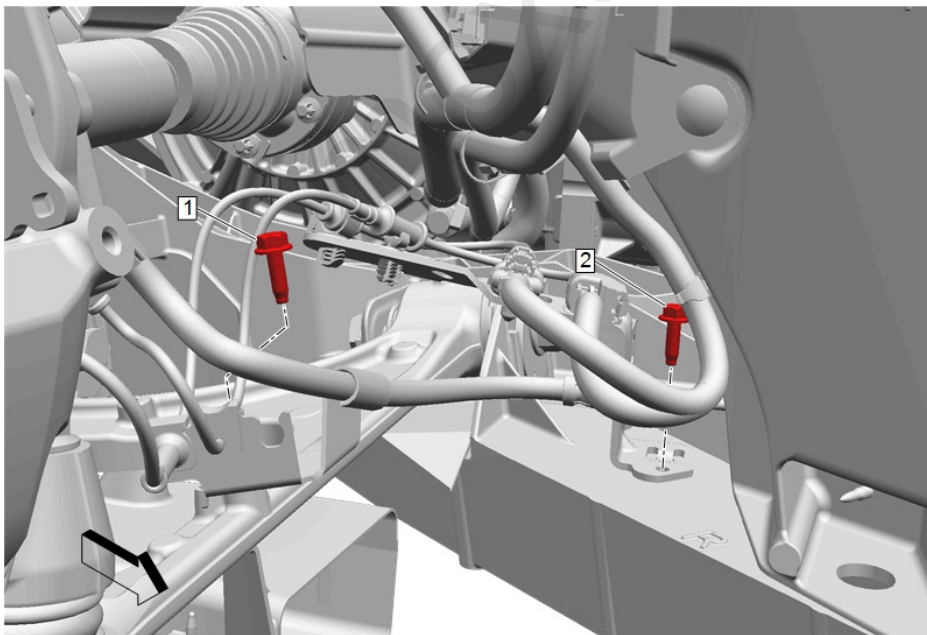


47.

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

49. Exhaust Control Valve Actuator Electrical Connector >> Remove [4x]



50.

[Click here for full size](#)

51. Note:

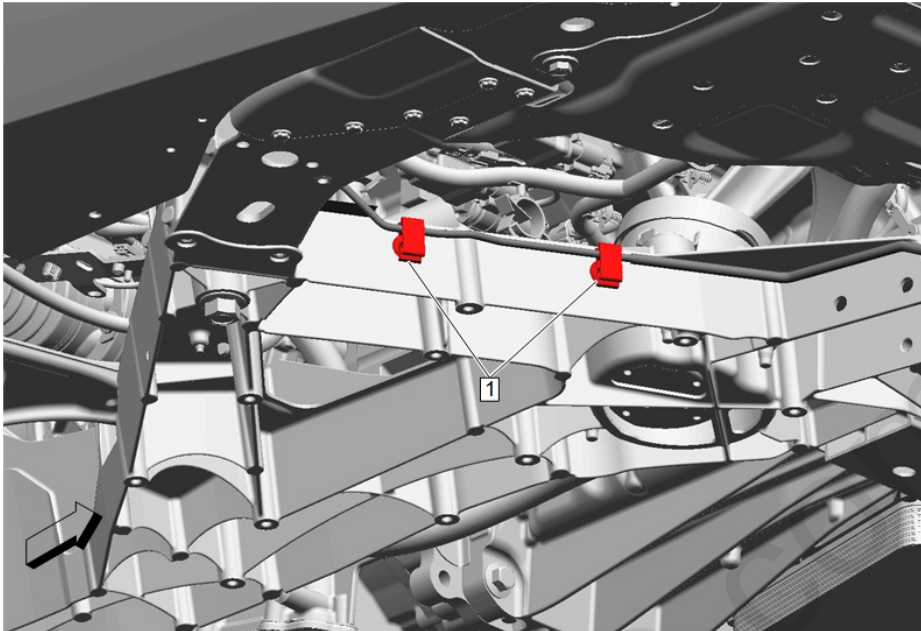
Right side shown, left side similar.

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

53. Note:

Right side shown, left side similar.

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



55.

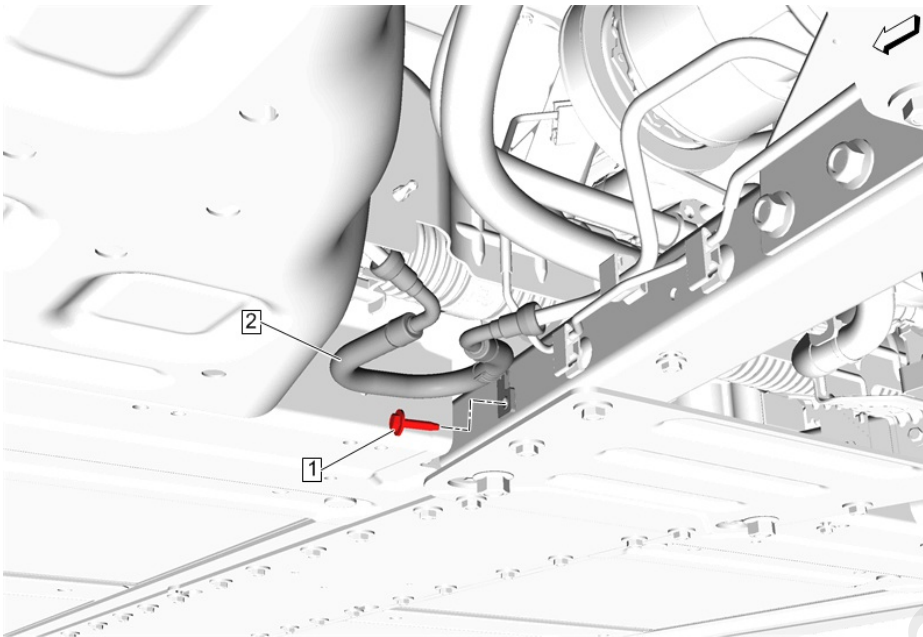
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56. Note:

Right side shown, left side similar.

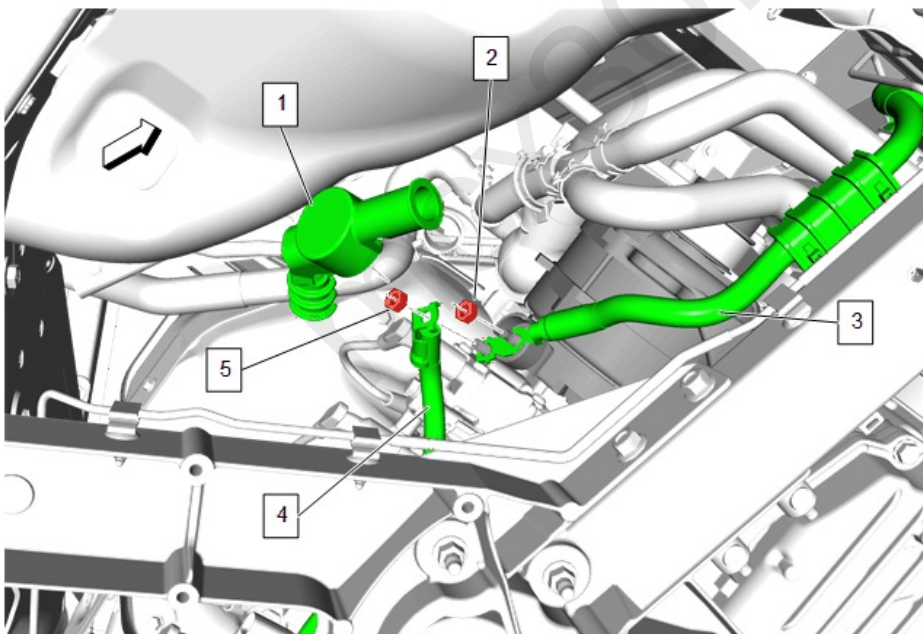
57. Rear Brake Pipe Clip (1) >> Disengage [2x]

58. Air Conditioning Compressor Hose @ Air Conditioning Condenser and Evaporator Hose >> Disconnect - Air Conditioning Compressor Hose Replacement



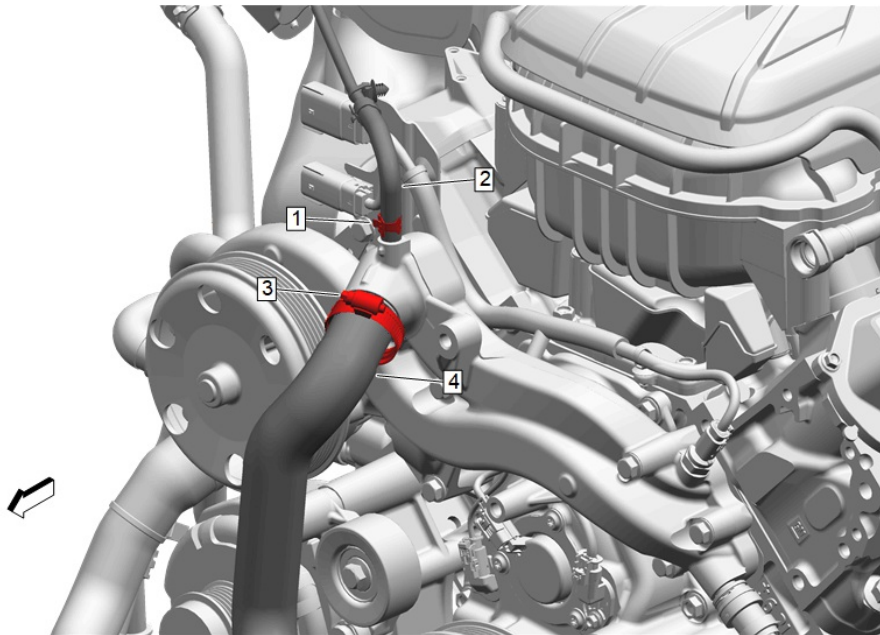
59.
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60. Fuel Feed Front Hose (2) >> Remove - Fuel Feed Front Hose Replacement

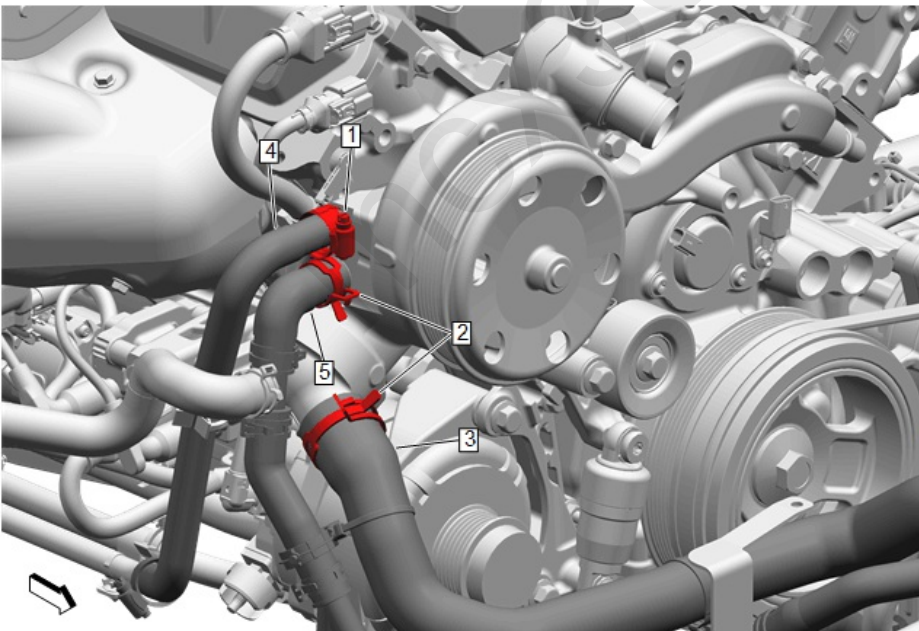


61.
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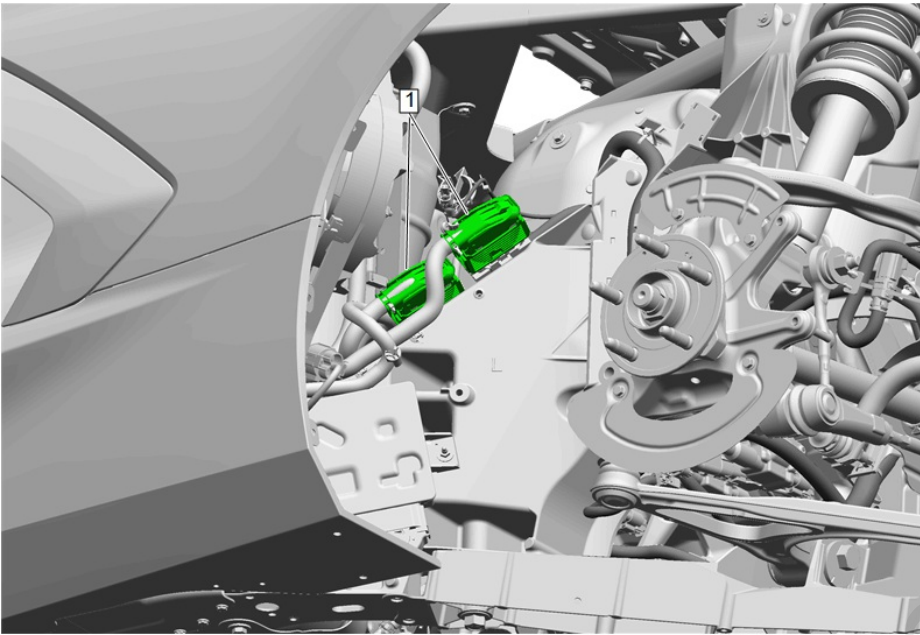
62. Battery Positive Cable (3) @ Generator >> Remove - Battery Positive Cable Replacement



63. [Click here for full size](#)
64. Radiator Surge Tank Inlet Hose (2) @ Engine Coolant Manifold >> Remove - Hose Clamp Replacement Guidelines - Spring Type
65. Radiator Inlet Hose (4) @ Engine Coolant Manifold >> Remove

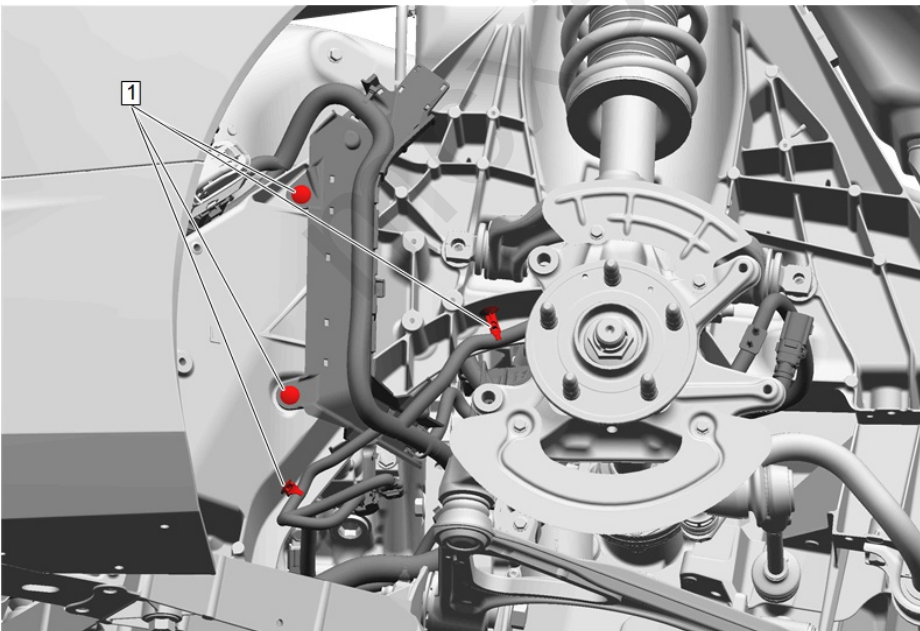


66. [Click here for full size](#)
67. Radiator Outlet Hose (3) @ Engine Coolant Manifold >> Remove - Hose Clamp Replacement Guidelines - Spring Type
68. Transmission Fluid Cooler Engine Coolant Hose (4) @ Engine Coolant Manifold >> Remove
69. Radiator Outlet Hose @ Air Conditioning Condenser >> Remove - Hose Clamp Replacement Guidelines - Spring Type
70. Transmission Control Module >> Remove - Transmission Control Module Replacement



71.
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72. Engine Wiring Harness Connector (1) @ Body Wiring Harness Connector >> Disconnect



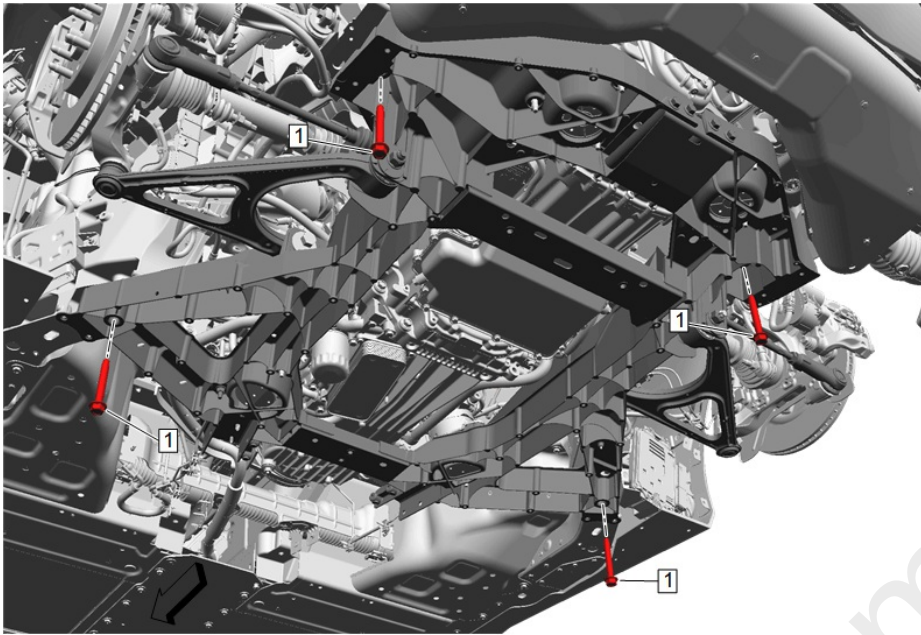
73.
[Click here for full size](#)

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

75. Engine Control Module >> Remove - Engine Control Module Replacement

76. Lower the powertrain and drivetrain and front suspension cradle onto the *GE-52200* $\tilde{\Delta}$ $\tilde{\Delta}$ Propulsion System Lift Table , or a suitable

support table.



77.

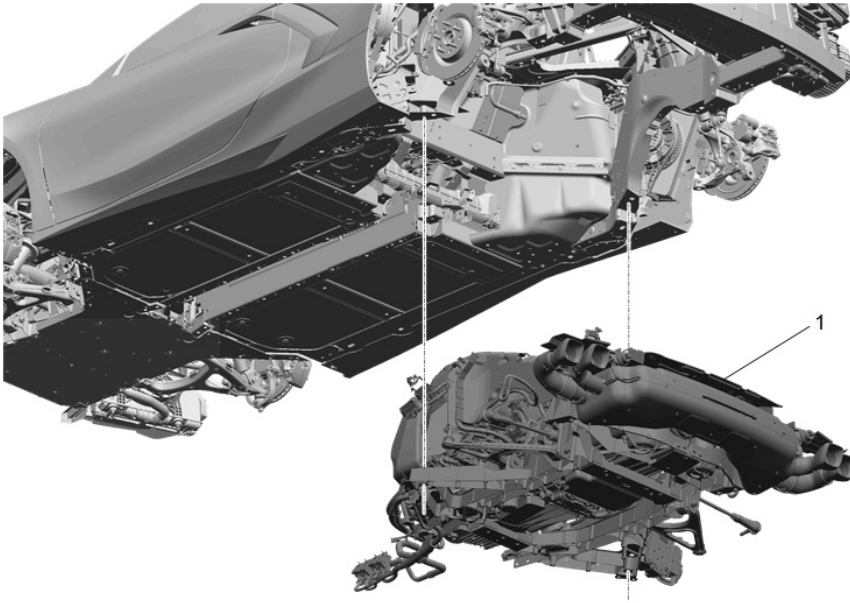
[Click here for full size](#)

78. Rear Suspension Cradle Rear Bolt (1) >> Remove [4x]

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

80.

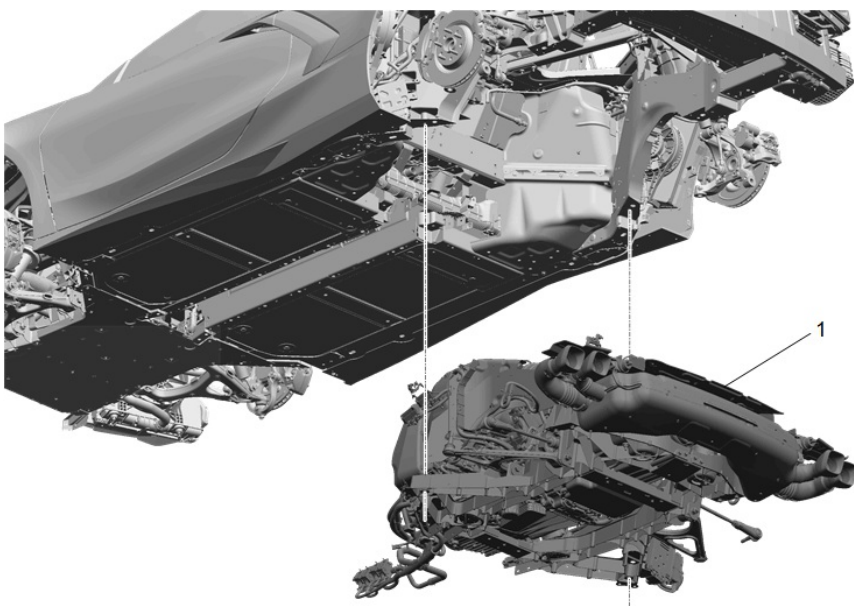
- Suspension knuckles
- Heating and cooling pipes and hoses
- Electrical wiring harnesses
- Brake pipes



81.
Click here for full size
82. With the aid of an assistant, carefully lower the powertrain and rear suspension cradle assembly (1) from the vehicle using the *GE-52200* Å,Å Propulsion System Lift Table
83. Separate the exhaust from the engine assembly.
84.
 - Exhaust Manifold Replacement - Left Side
 - Exhaust Manifold Replacement - Right Side
85. Separate the transmission from the engine assembly. Transmission Replacement
86. Transfer components as necessary.

Installation Procedure

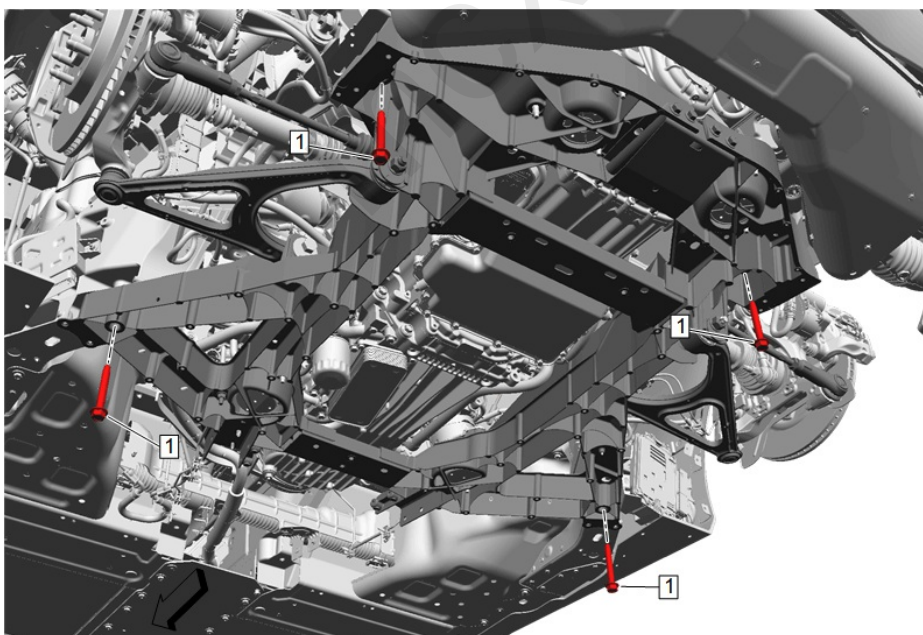
1. Install the transmission to the engine assembly. Transmission Replacement
2. Install the exhaust to the engine assembly.
3.
 - Exhaust Manifold Replacement - Left Side
 - Exhaust Manifold Replacement - Right Side
4. Ensure when raising the powertrain and rear suspension cradle toward the body, the 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* Propulsion System Lift Table .

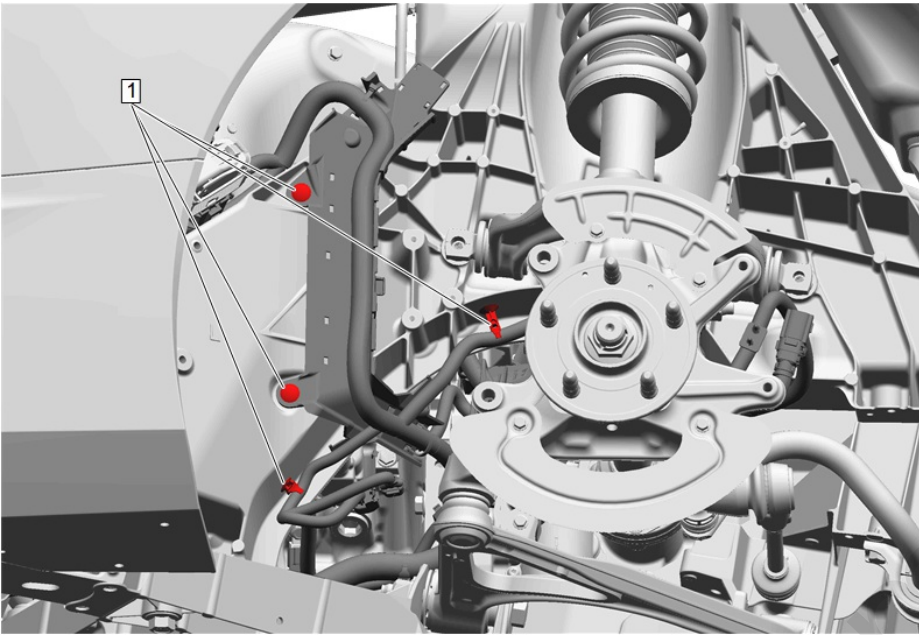
8. Using *GE-52200* Propulsion System Lift Table , install the powertrain and rear suspension cradle (1) onto the body.



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

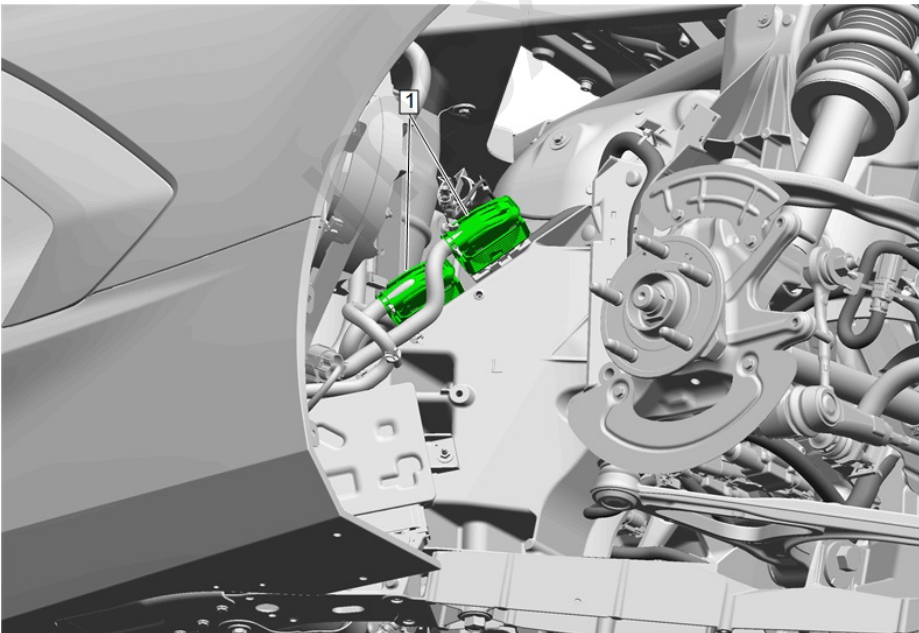
10. Rear Suspension Cradle Rear Bolt (1) >> Install [4x] - Rear Suspension Cradle Replacement

11. Engine Control Module >> Install - Engine Control Module Replacement



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

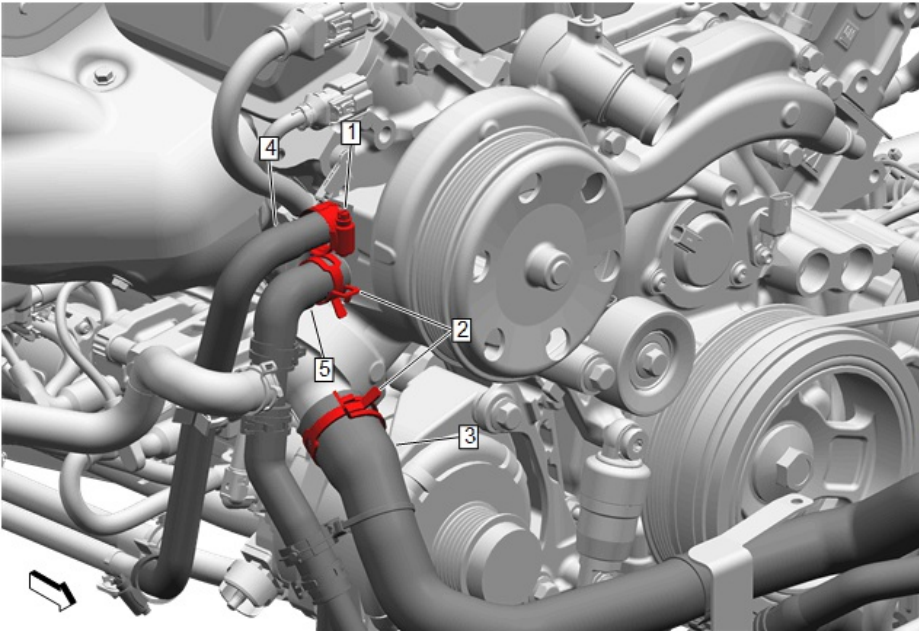
13. Install the retainers that hold the engine wiring harness to the subframe (1).



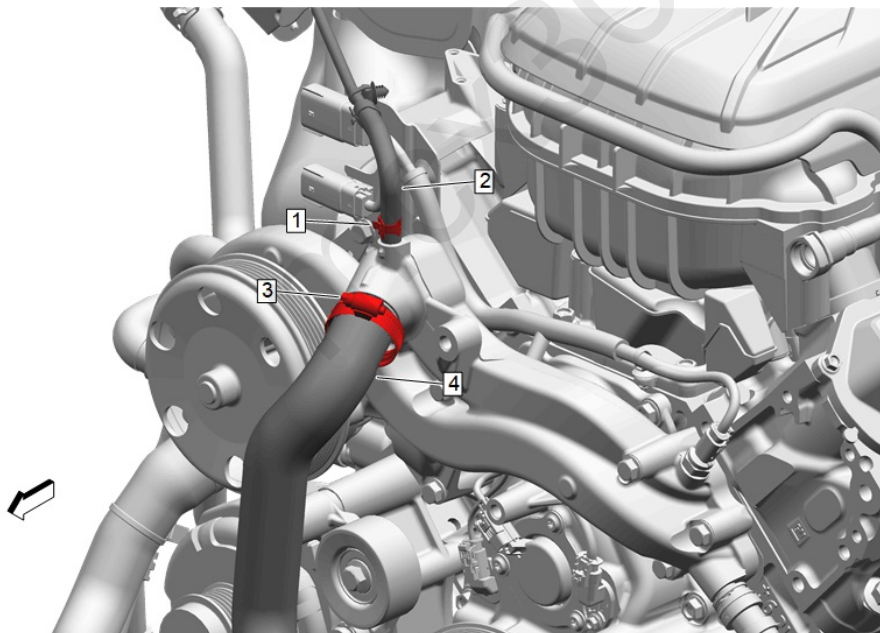
14.
[Click here for full size](#)

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

16. Transmission Control Module >> Install - Transmission Control Module Replacement

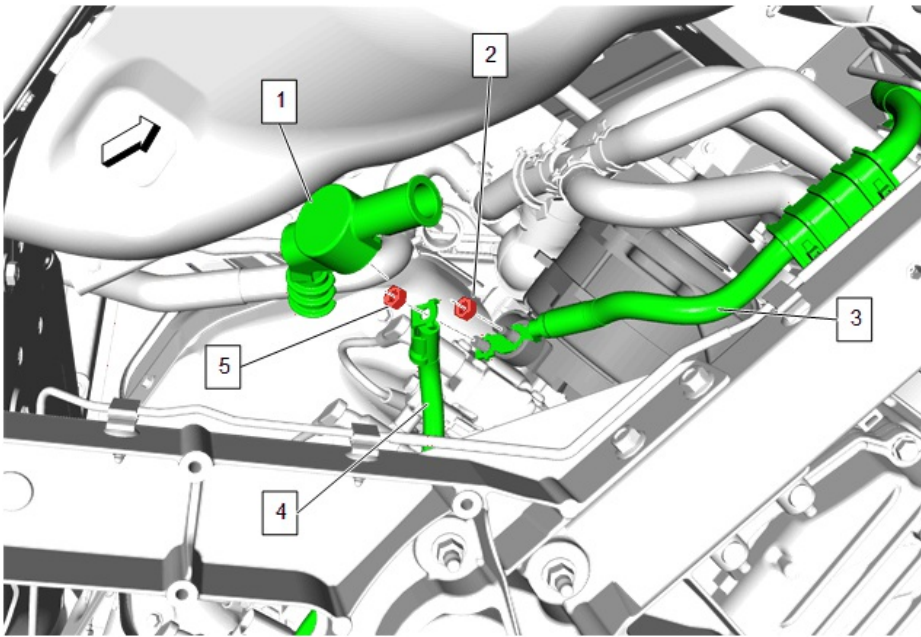


17. [Click here for full size](#)
18. Radiator Outlet Hose (3) @ Engine Coolant Manifold >> Install - Hose Clamp Replacement Guidelines - Spring Type
19. Transmission Fluid Cooler Engine Coolant Hose (4) @ Engine Coolant Manifold >> Install
20. Radiator Outlet Hose @ Air Conditioning Condenser >> Install - Hose Clamp Replacement Guidelines - Spring Type



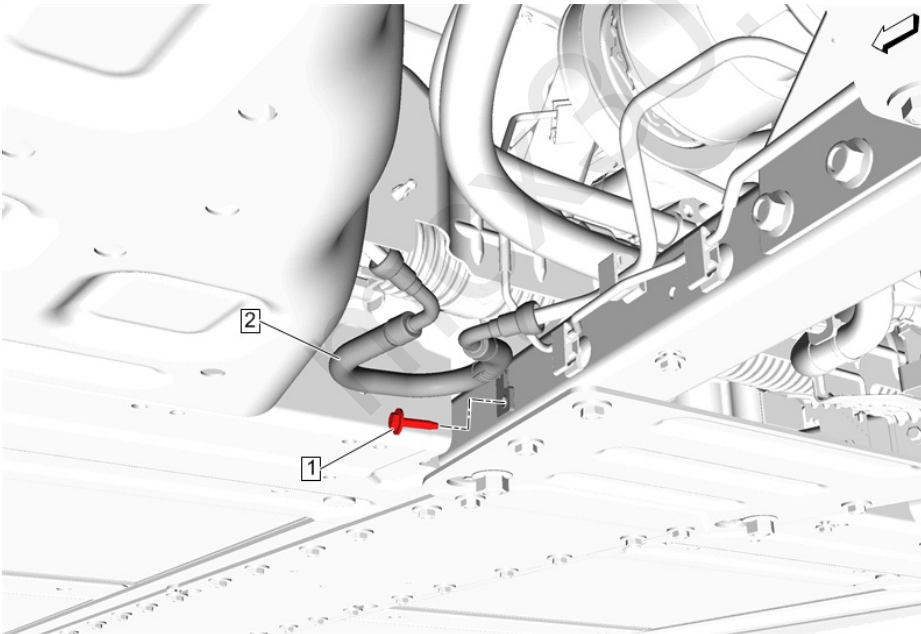
21. [Click here for full size](#)
22. Radiator Surge Tank Inlet Hose (2) @ Engine Coolant Manifold >> Install - Hose Clamp Replacement Guidelines - Spring Type
23. Radiator Inlet Hose (4) @ Engine Coolant Manifold >> Install
24. Caution:
Refer to Fastener Caution.

25. Hose Clamp (3) @ Radiator Inlet Hose (4) >> Install and tighten 5 N-m (44 lb in)



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

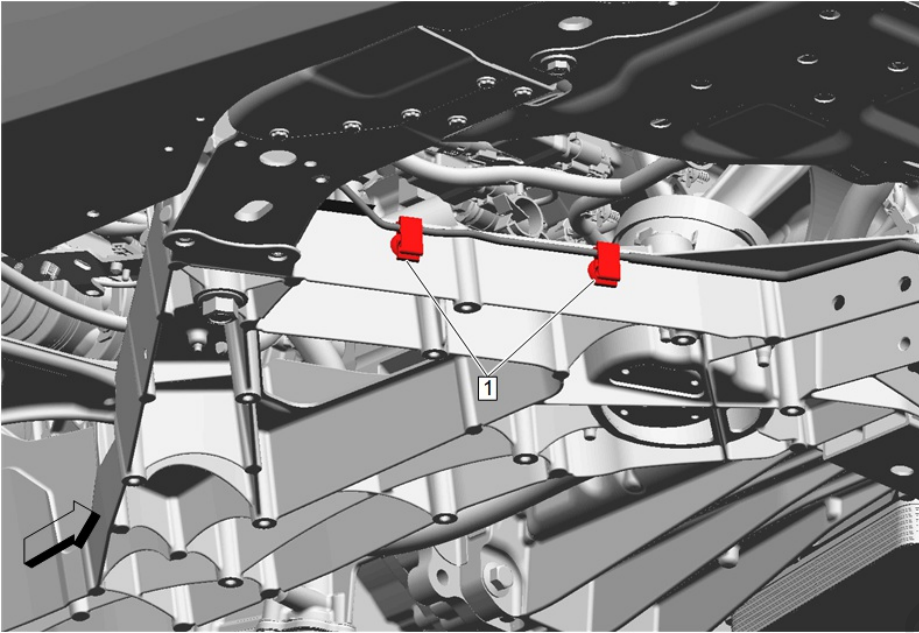
27. Battery Positive Cable (3) @ Generator >> Install - Battery Positive Cable Replacement



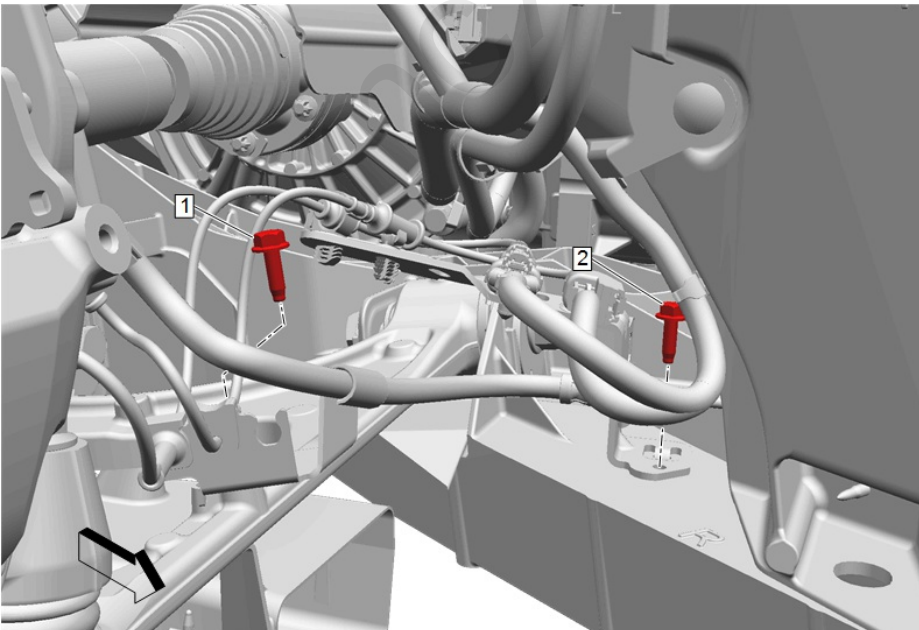
28.
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29. Fuel Feed Front Hose (2) >> Install - Fuel Feed Front Hose Replacement

30. Air Conditioning Compressor Hose @ Air Conditioning Condenser and Evaporator Hose >> Connect - Air Conditioning Compressor Hose Replacement



31. [Click here for full size](#)
32. Note:
- Right side shown, left side similar.
33. Rear Brake Pipe Clip (1) >> Engage [2x]



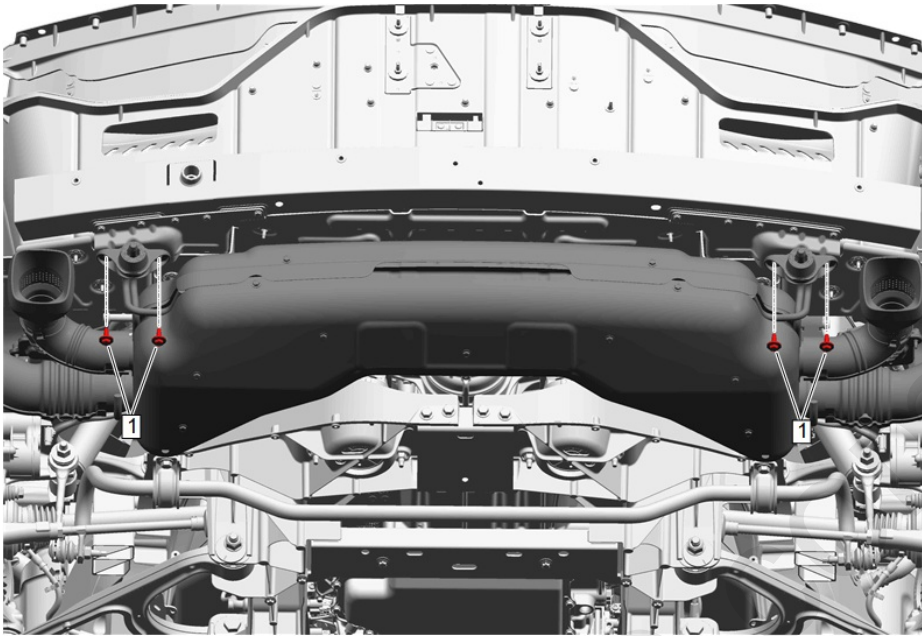
34. [Click here for full size](#)
35. Note:
- Right side shown, left side similar.

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

37. Note:

Right side shown, left side similar.

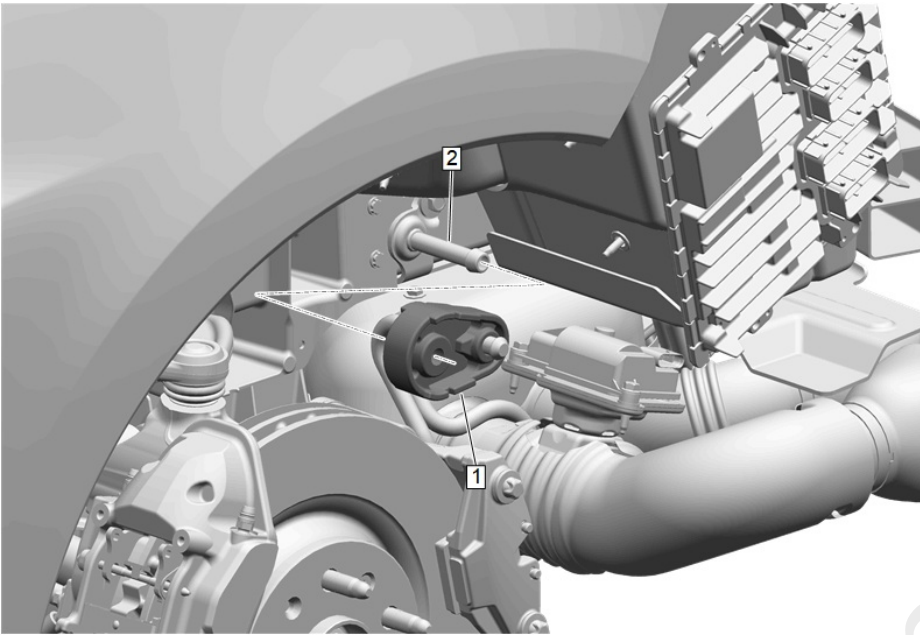
38. Rear Brake Hose Bracket Bolt (2) >> Install - Rear Brake Hose Replacement



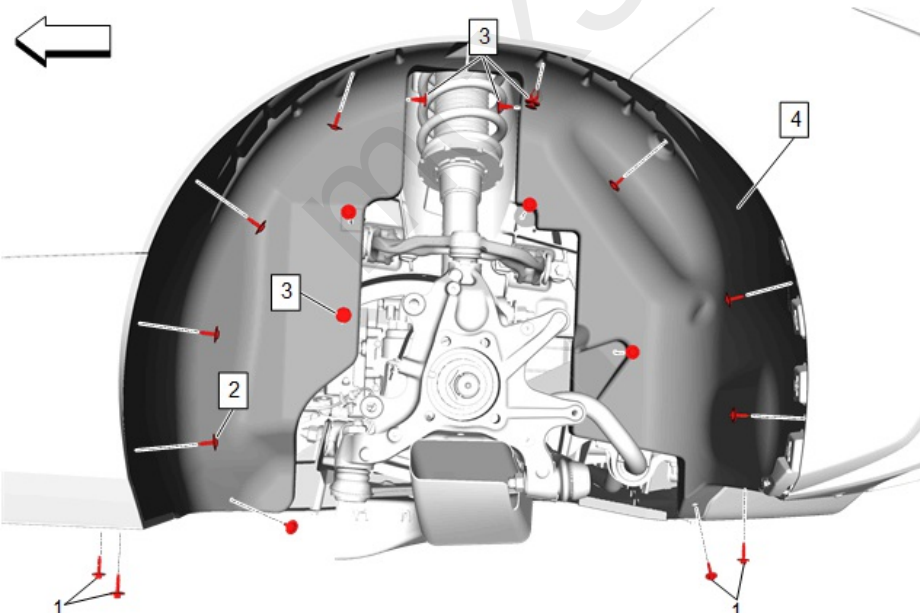
39.

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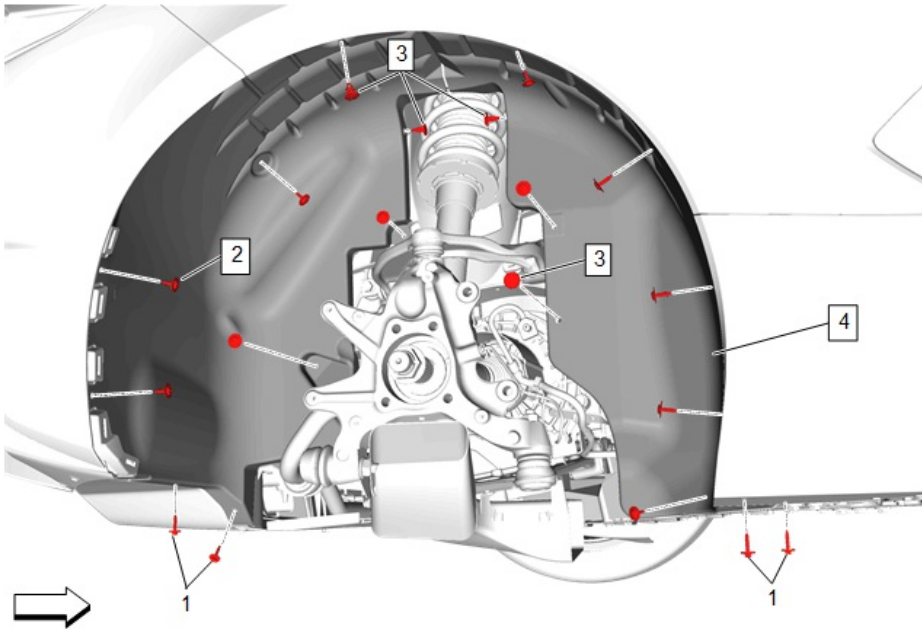
40. Exhaust Muffler Hanger Bracket Bolt (1) >> Install [4x] - Exhaust Muffler Replacement



41. [Click here for full size](#)
42. Install the exhaust front insulators (1) from the right and left side exhaust front brackets. Exhaust Muffler Replacement
43. [Click here for full size](#)
44. Remove the suitable strap from the front upper control arm (1) and the hoist lifting arm (3).

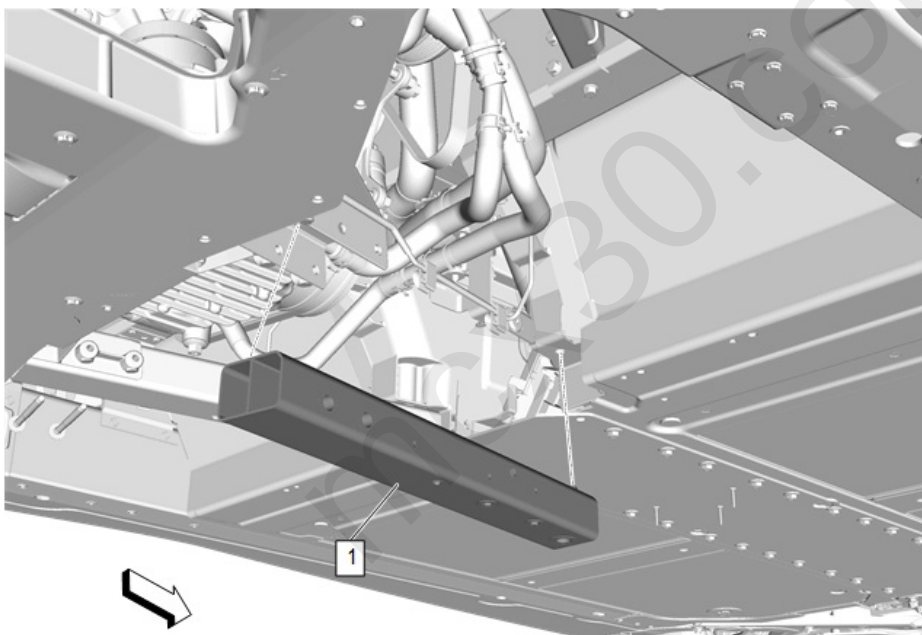


45. [Click here for full size](#)
46. Rear Wheelhouse Liner - Left Side (4) >> Install - Rear Wheelhouse Liner Replacement - Left Side



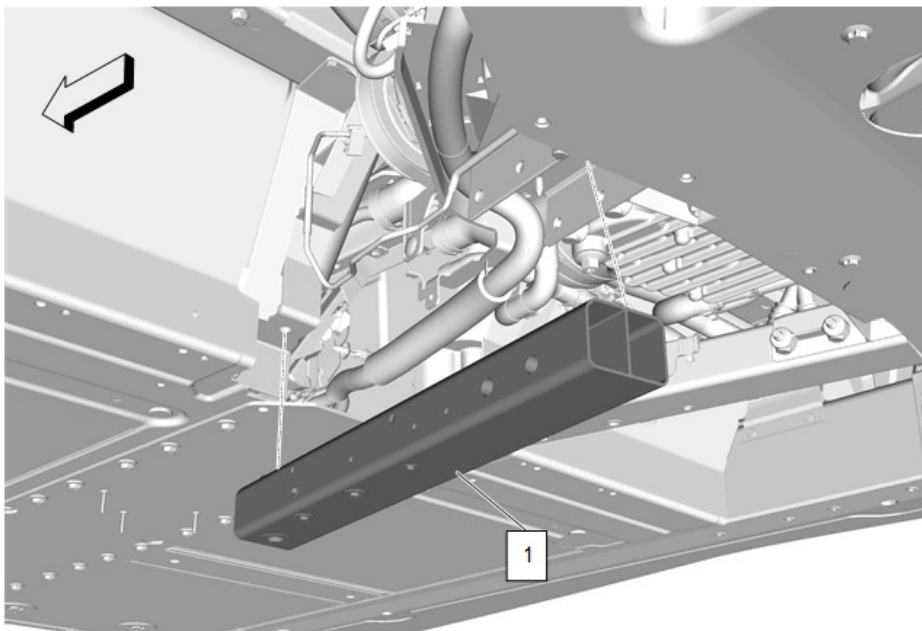
47.
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48. Rear Wheelhouse Liner - Right Side (4) >> Install - Rear Wheelhouse Liner Replacement - Right Side



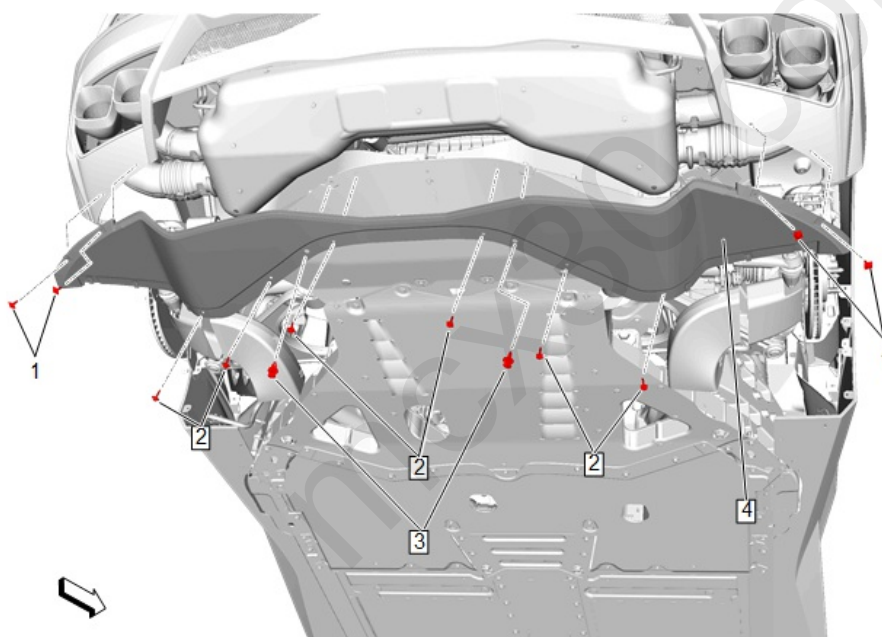
49.
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50. Rear Suspension Front Extension - Right Side (1) >> Install - Rear Suspension Front Extension Replacement - Right Side



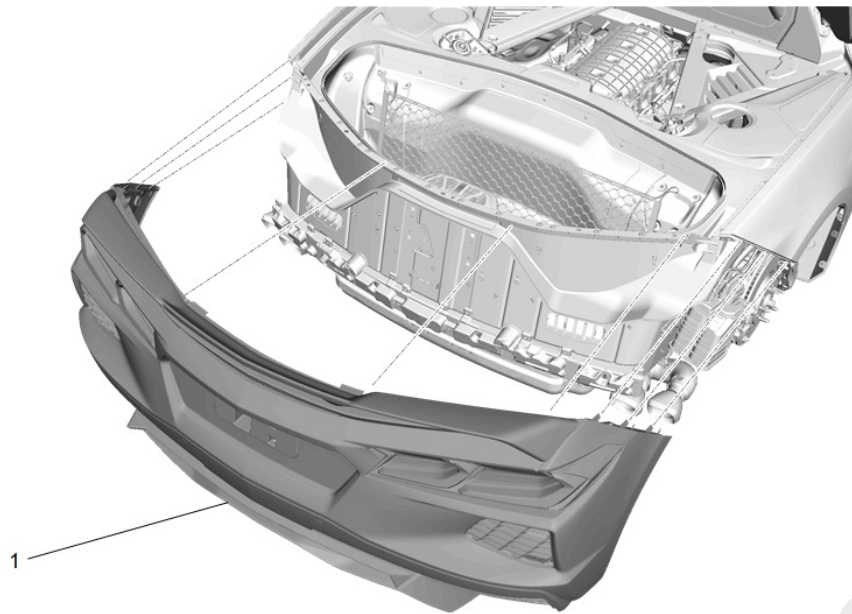
51.
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52. Rear Suspension Front Extension - Left Side (1) >> Install - Rear Suspension Front Extension Replacement - Left Side



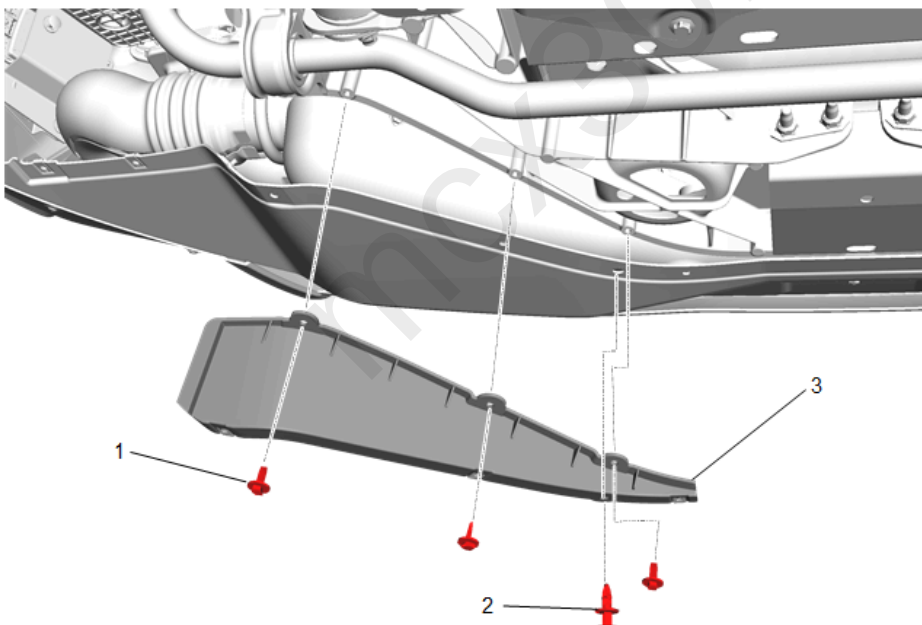
53.
[Click here for full size](#)

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



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

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



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

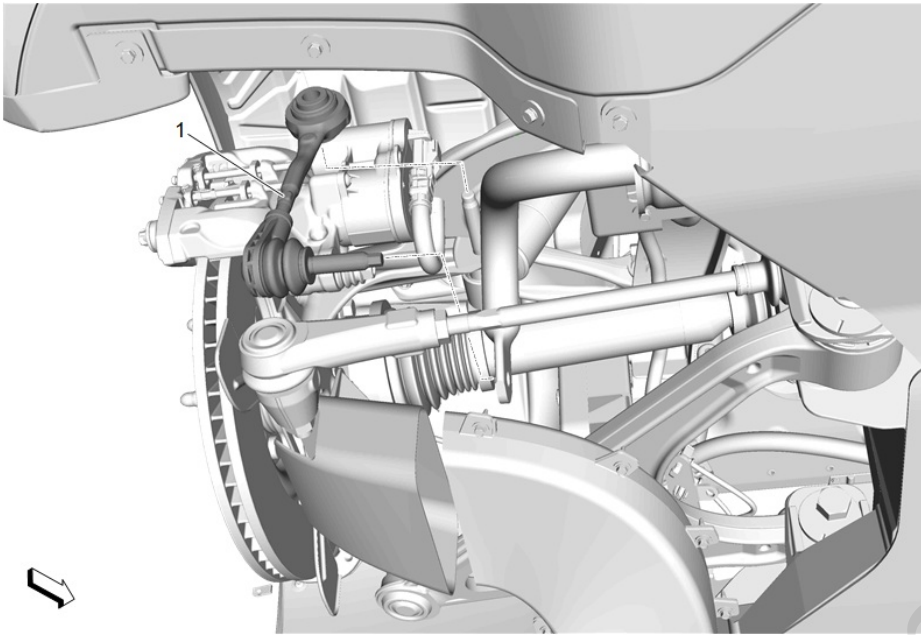
58. Rear Bumper Lower Fascia Bracket (3) >> Install - Rear Bumper Lower Fascia Bracket Replacement

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

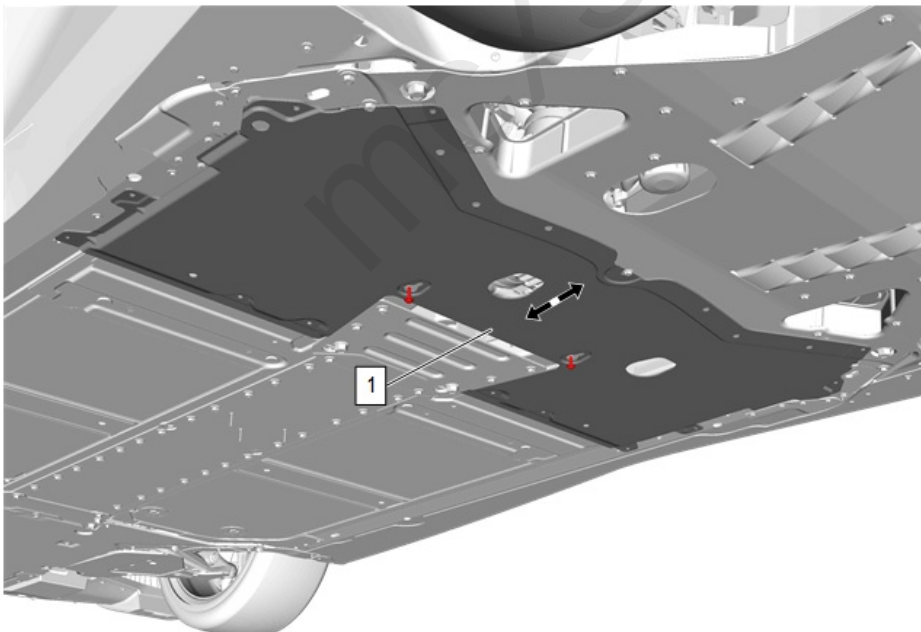
60. Rear Wheel Drive Shaft - Right Side >> Install - Rear Wheel Drive Shaft Replacement - Right Side

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

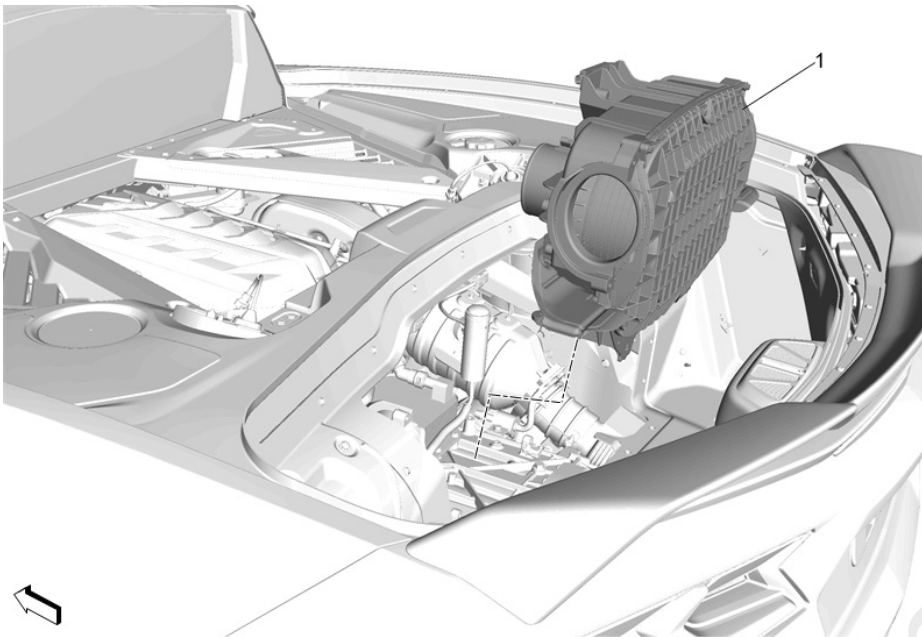
62. Rear Wheel Drive Shaft Shield - Right Side >> Install - Rear Wheel Drive Shaft Shield Replacement - Right Side



- 63. [Click here for full size](#)
- 64. Rear Stabilizer Shaft Link >> Install [2x] - Rear Stabilizer Shaft Link Replacement
- 65. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Install - Rear Suspension Adjust Link Outer End Replacement
- 66. Rear Suspension Lower Control Arm @ Rear Suspension Knuckle >> Install - Rear Suspension Lower Control Arm Replacement

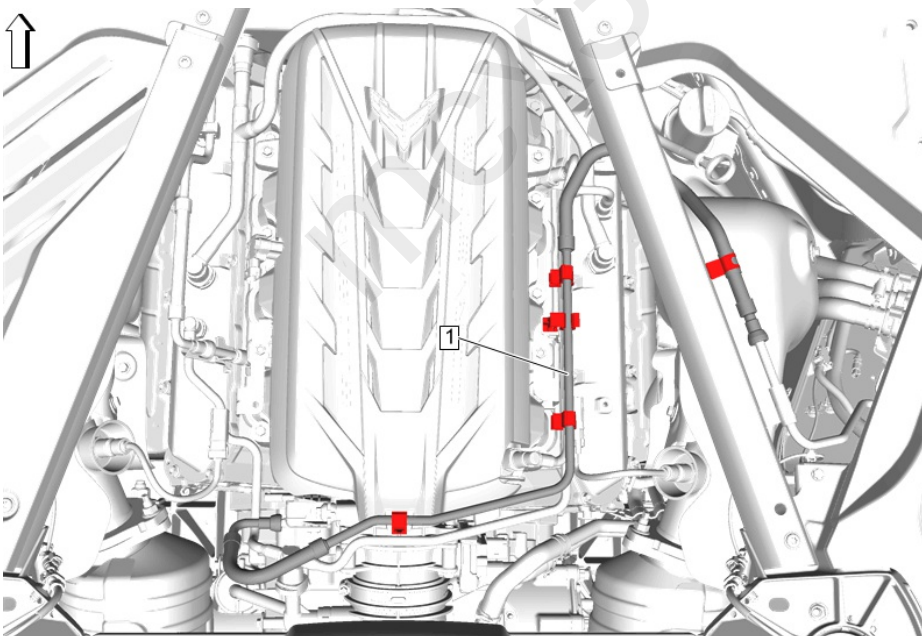


- 67. [Click here for full size](#)
- 68. Underbody Rear Air Deflector (1) >> Install - Underbody Rear Air Deflector Replacement



69.
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70. Air Cleaner Assembly (1) >> Install - Air Cleaner Assembly Replacement

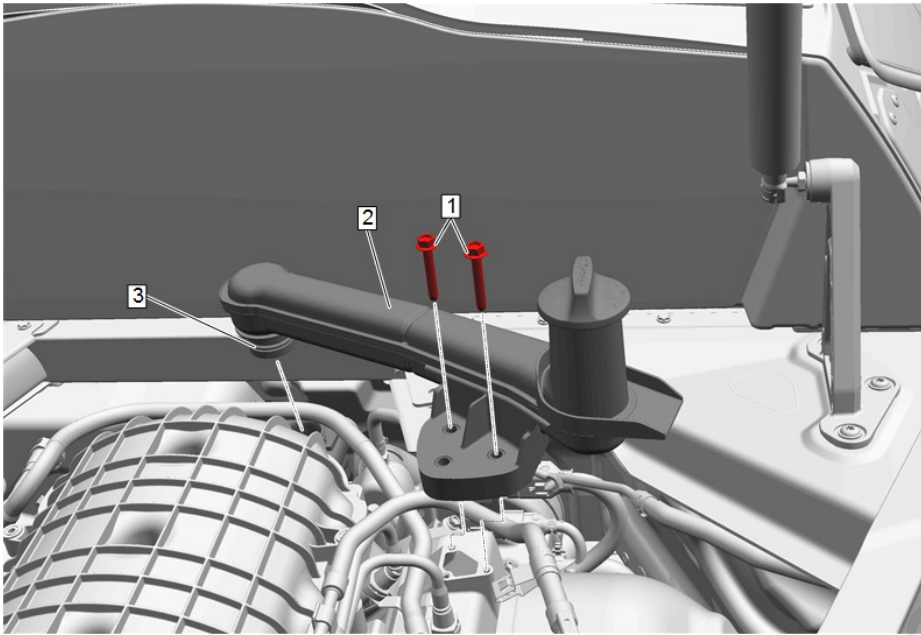


71.
[Click here for full size](#)

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

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

74. Radiator Surge Tank (1) >> Install - Radiator Surge Tank Replacement



- 75. [Click here for full size](#)
- 76. Oil Filler Tube (1) >> Install - Oil Filler Tube Replacement
- 77. [Click here for full size](#)
- 78. Rear Window Panel (2>) >> Install - Rear Window Panel 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