

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Rear Suspension Cradle Replacement

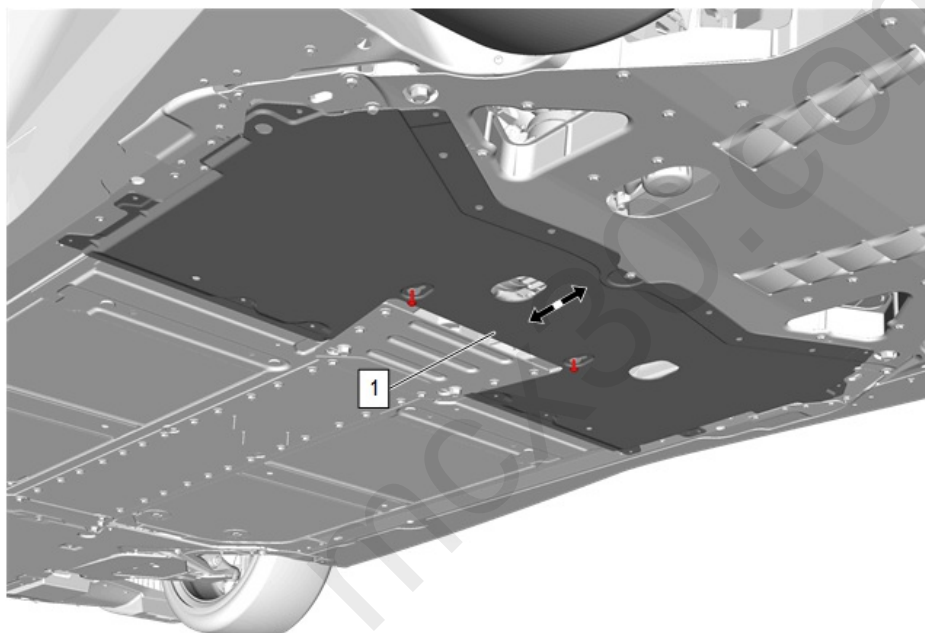
Special Tools

- CH-51034 Ã,Ã Cradle Alignment Pins

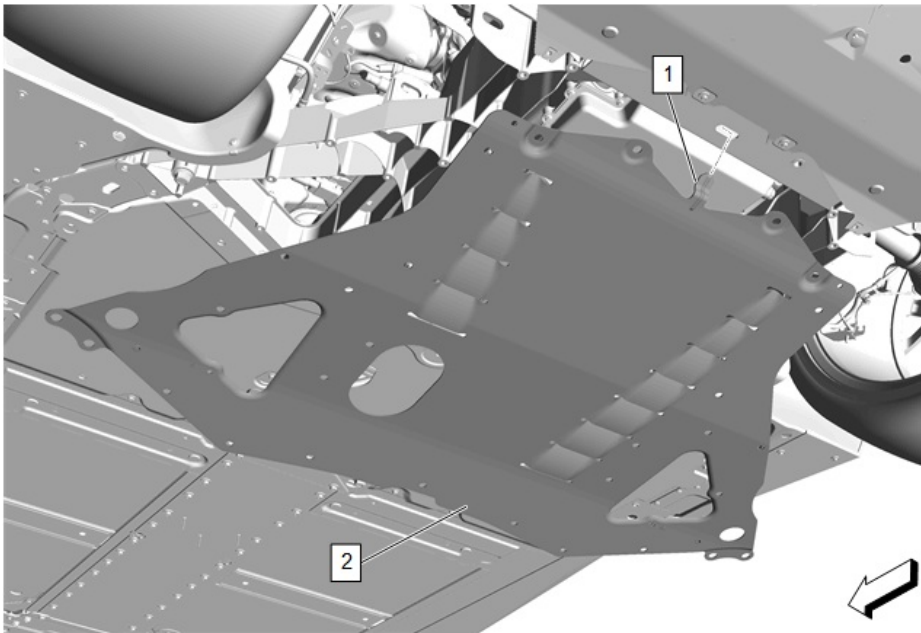
Equivalent regional tools: Special Tools

Removal Procedure

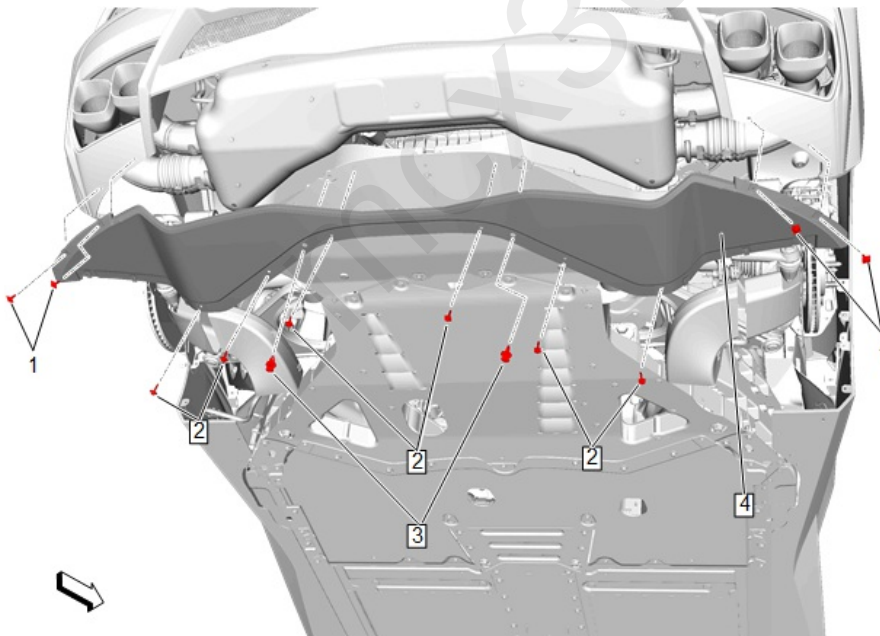
1. Install the engine support fixture. Engine Support Fixture
2. Rear Stabilizer Shaft >> Remove - Rear Stabilizer Shaft Replacement



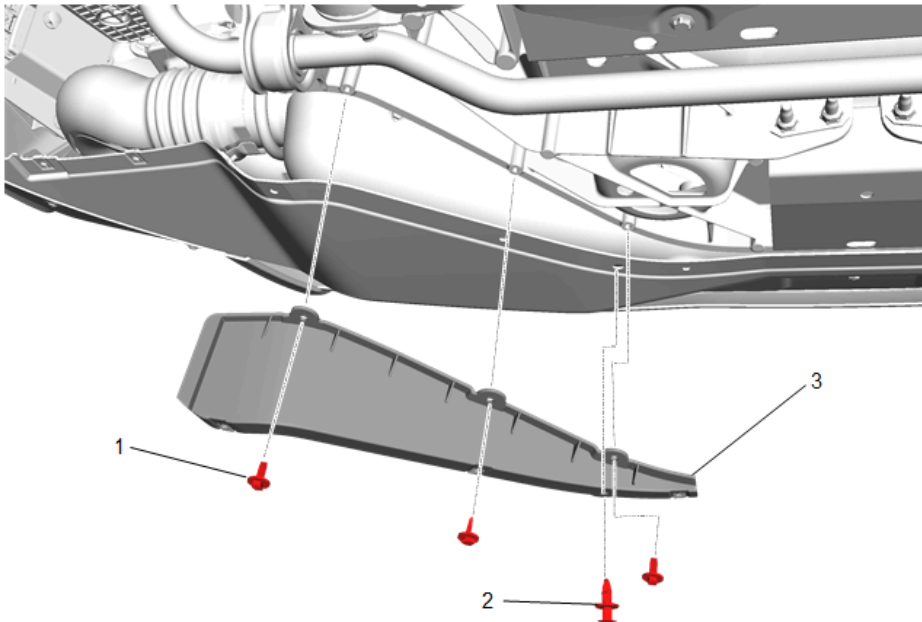
3.
[Click here for full size](#)
4. Underbody Rear Air Deflector (1) >> Remove - Underbody Rear Air Deflector Replacement



5. [Click here for full size](#)
6. Rear Cradle Shear Plate (2) >> Remove - Rear Cradle Shear Plate Replacement
7. Rear Wheelhouse Liner - Left Side >> Remove - Rear Wheelhouse Liner Replacement - Left Side
8. Rear Wheelhouse Liner - Right Side >> Remove - Rear Wheelhouse Liner Replacement - Right Side
9. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Remove - Rear Suspension Adjust Link Outer End Replacement
10. Rear Suspension Lower Control Arm @ Rear Suspension Knuckle >> Remove - Rear Suspension Lower Control Arm Replacement

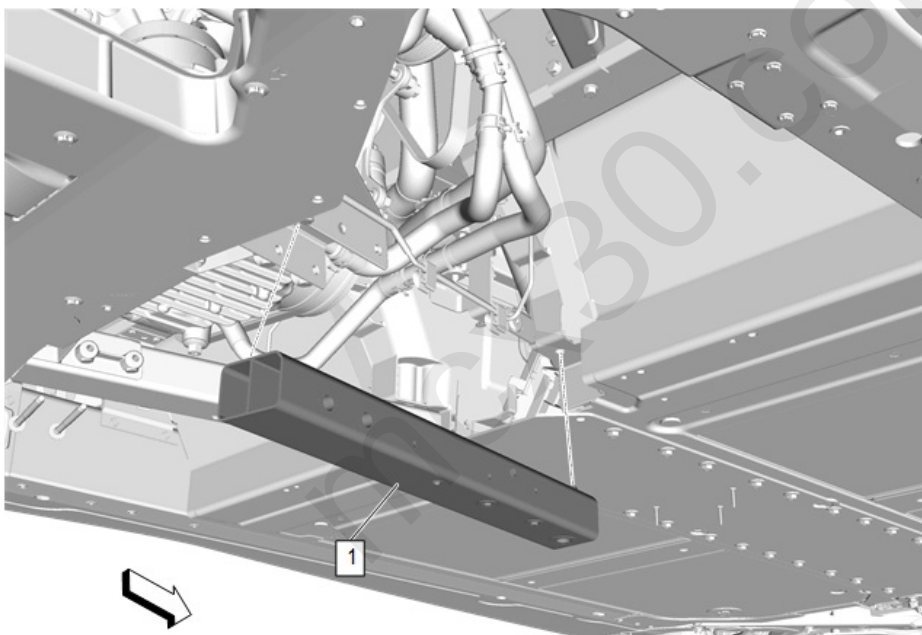


11. [Click here for full size](#)
12. Rear Bumper Fascia Diffuser (4) >> Remove - Rear Bumper Fascia Diffuser Replacement



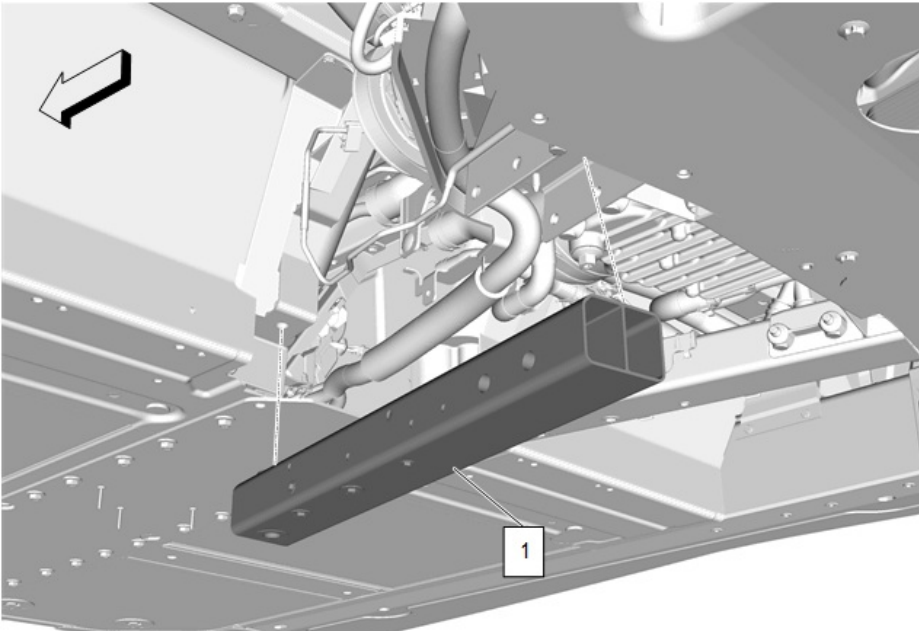
13.
[Click here for full size](#)

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

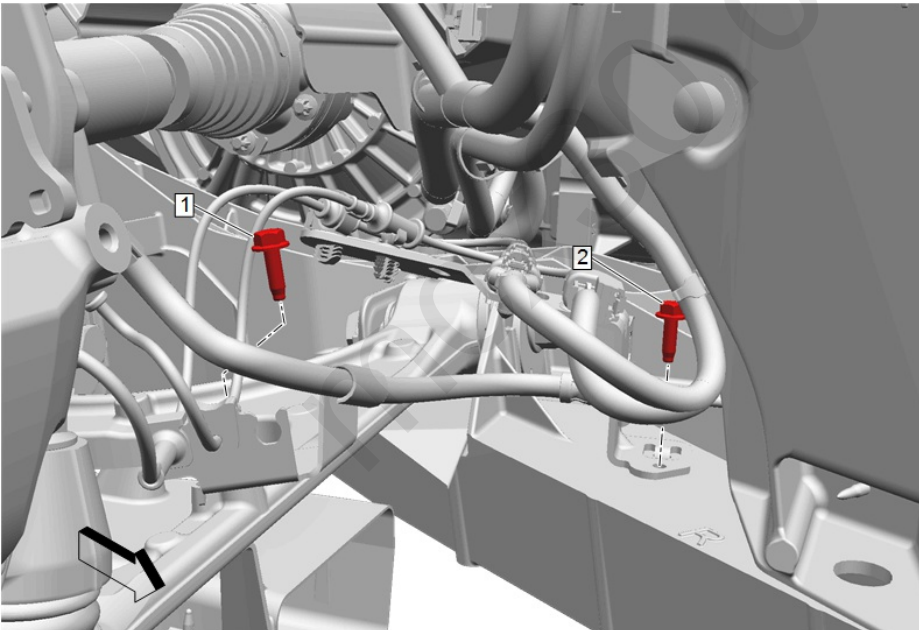


15.
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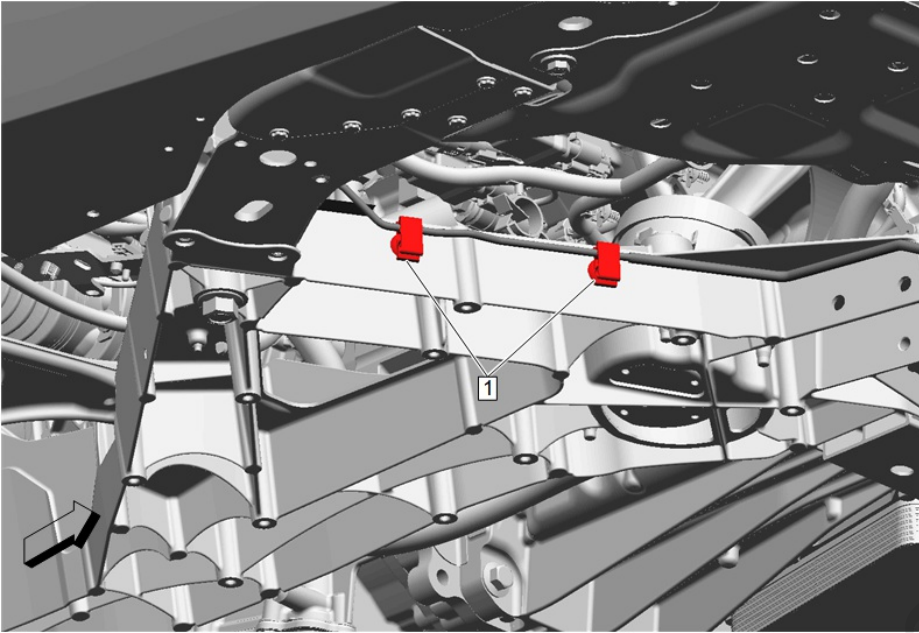
16. Rear Suspension Front Extension - Right Side (1) >> Remove - Rear Suspension Front Extension Replacement - Right Side



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



19. [Click here for full size](#)
20. Note:
Right side shown, left side similar.
21. Rear Brake Hose Bracket Bolt (1) >> Remove
22. Note:
Right side shown, left side similar.
23. Rear Brake Hose Bracket Bolt (2) >> Remove

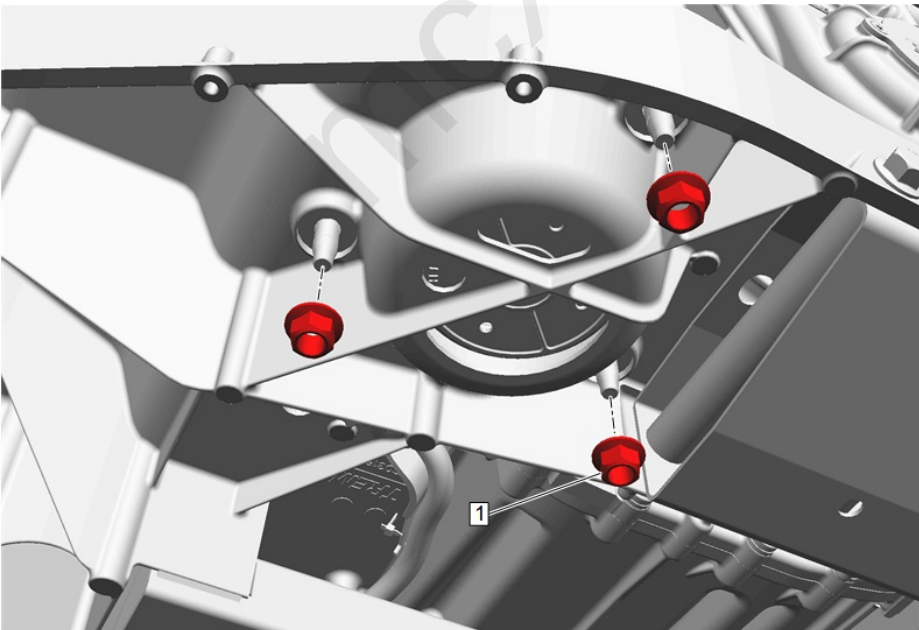


24. [Click here for full size](#)

25. Note:

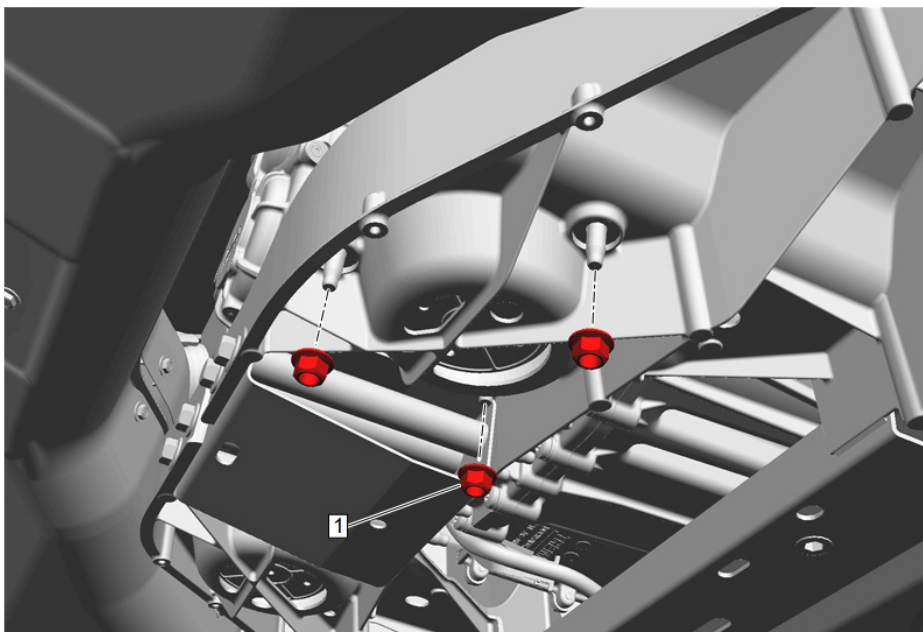
Right side shown, left side similar.

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



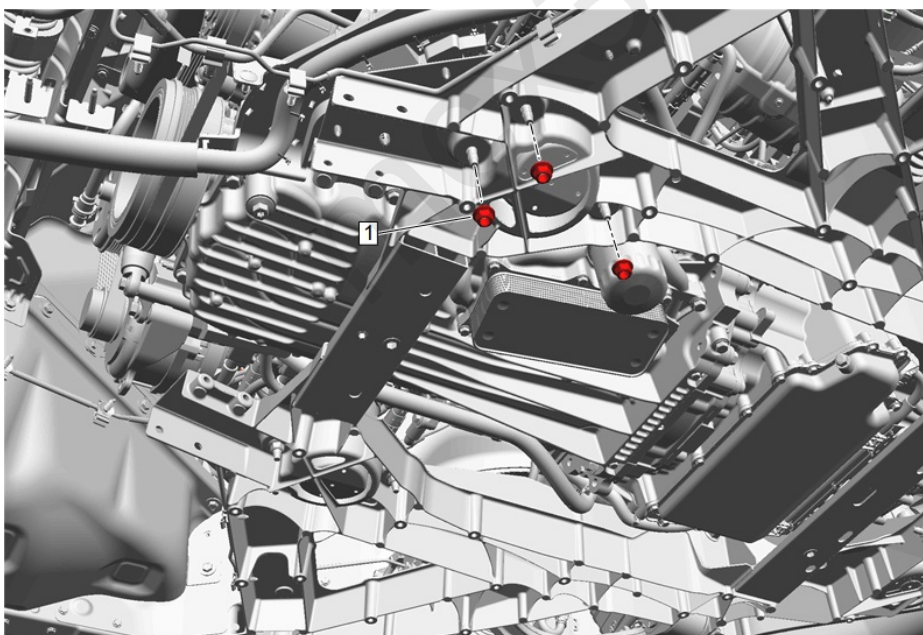
27. [Click here for full size](#)

28. Transmission Mount Frame Side Nut - Left Side (1) >>> Remove [3x]



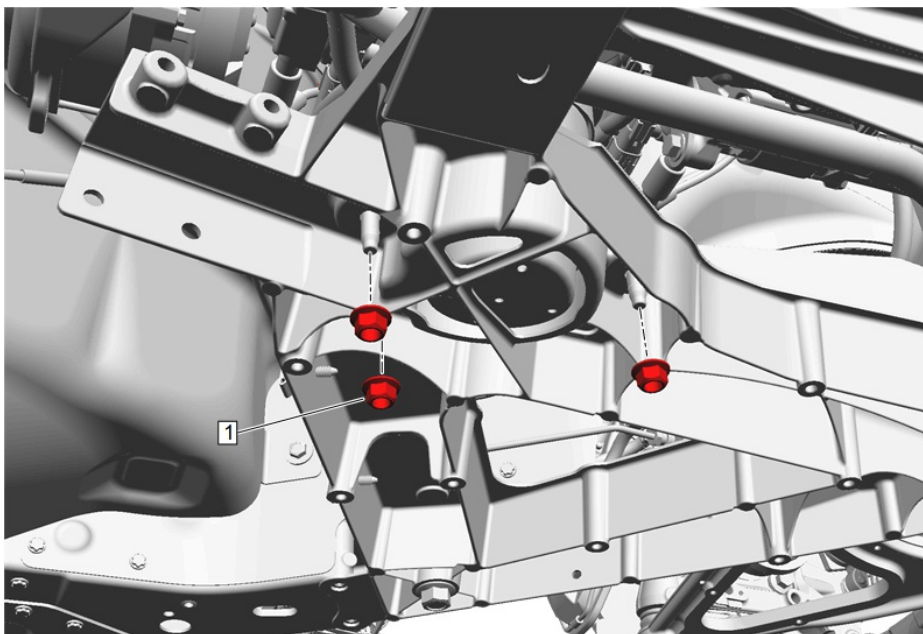
29.
[Click here for full size](#)

30. Transmission Mount Frame Side Nut - Right Side (1) >> Remove [3x]

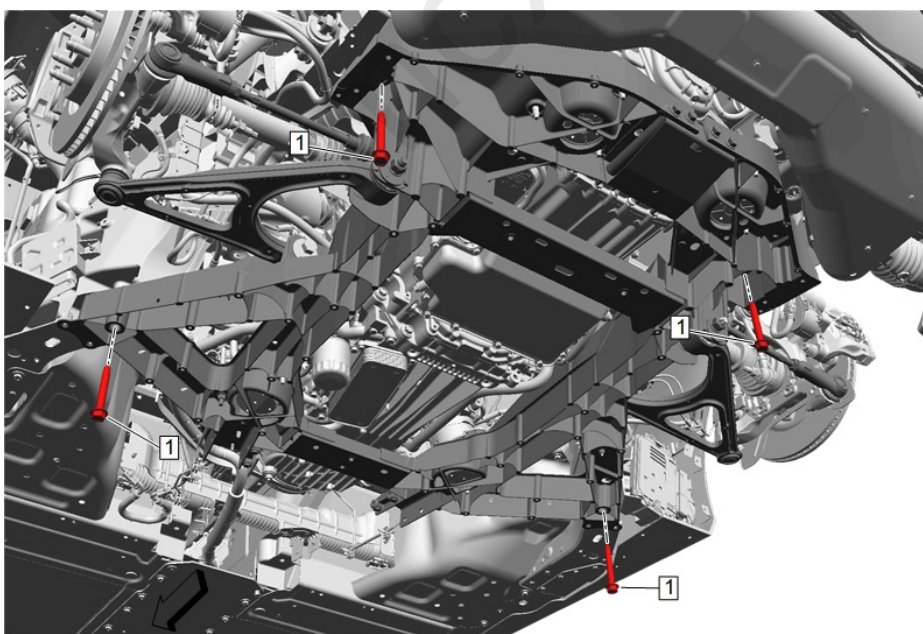


31.
[Click here for full size](#)

32. Engine Mount Frame Side Nut - Left Side (1) >> Remove [3x]



33. [Click here for full size](#)
34. Engine Mount Frame Side Nut - Right Side (1) >> Remove [3x]
35. Prior to removing the rear suspension cradle, disconnect any wiring harness retainers securing the wiring harness to the cradle as necessary.
36. Using a suitable jack/support stand, support the rear suspension cradle.



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

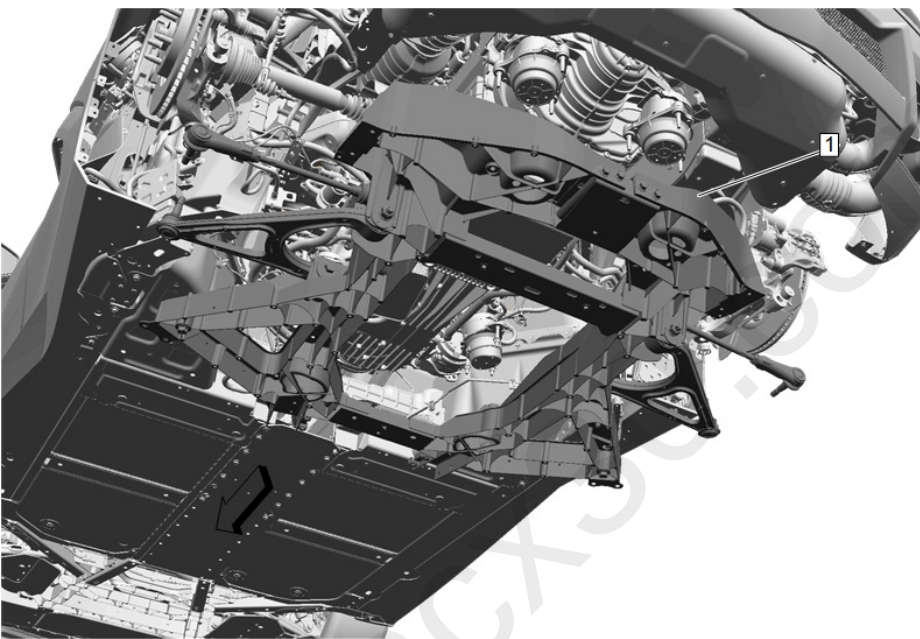
Remove the cradle with the components attached as shown.

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

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

41.

- Steering/Suspension knuckles
- Heating and cooling pipes and hoses
- Electrical wiring harnesses
- Vacuum lines
- Brake pipes



42.

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43. Rear Suspension Cradle (1) >> Remove

Installation Procedure

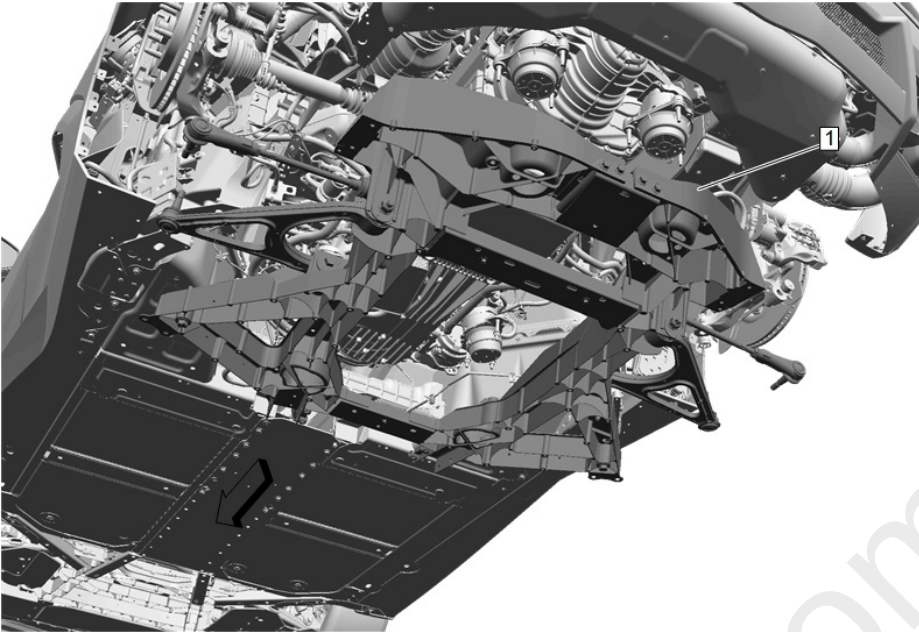
1. [Click here for full size](#)
2. Note:

When servicing the rear suspension cradle, the 4 rear crossmember bolts (1) and the 2 crossmember nut plates (2) are not serviceable and should not be disturbed.

3. Do NOT attempt to loosen, tighten, or remove the 4 rear crossmember bolts (1) and the 2 crossmember nut plates (2).
4. Ensure when raising the rear suspension cradle toward the body, the following items are clear:
- 5.

- Steering/Suspension knuckles
- Heating and cooling pipes and hoses
- Electrical wiring harnesses

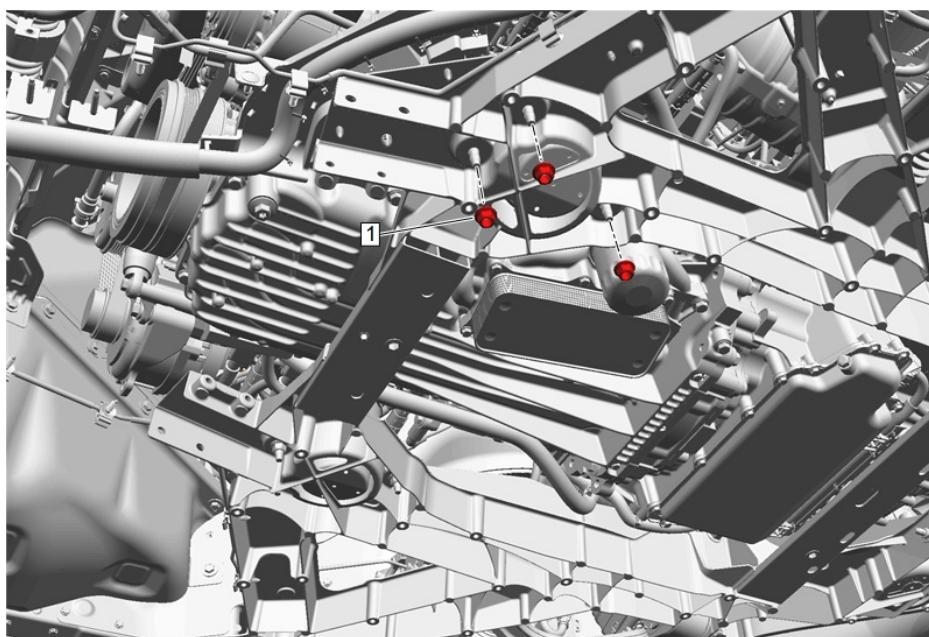
- Vacuum lines
- Brake pipes



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

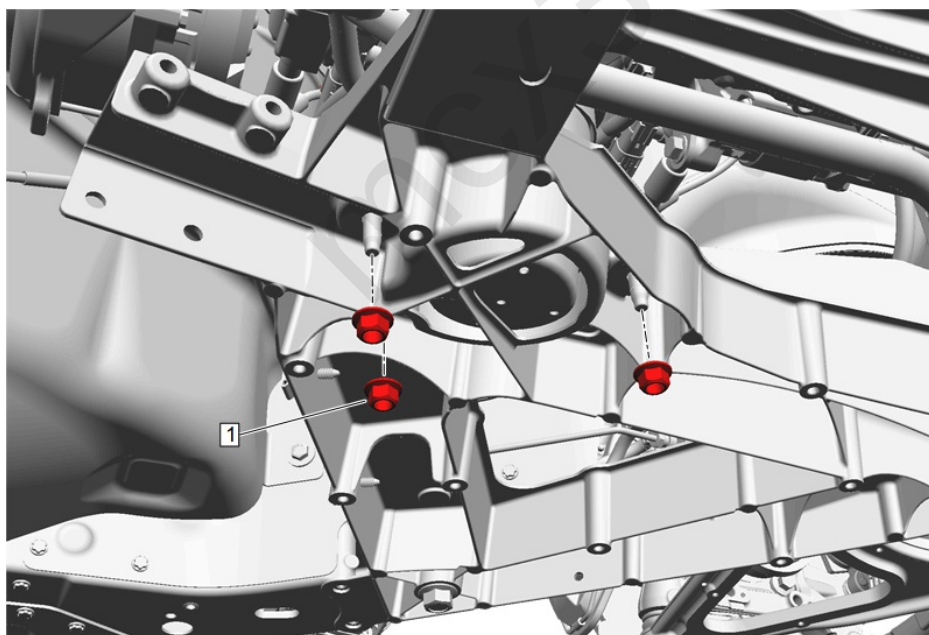
Ensure that the rear suspension cradle is securely attached to the jack/support stand
8. Using a suitable jack/support stand, install the rear suspension cradle (1) onto the body.
9. [Click here for full size](#)
10. Rear Suspension Cradle Rear Bolt (1) >> Loosely install [4x]
11. Install the two *CH-51034* Cradle Alignment Pins (2) to properly align the rear suspension cradle to the body.
12. Caution:

Refer to Fastener Caution.
13. Rear Suspension Cradle Rear Bolt (1) >> Tighten [4x] 160 N-m (118 lb ft)
14. Connect wiring harness retainers securing the wiring harness to the cradle as necessary.



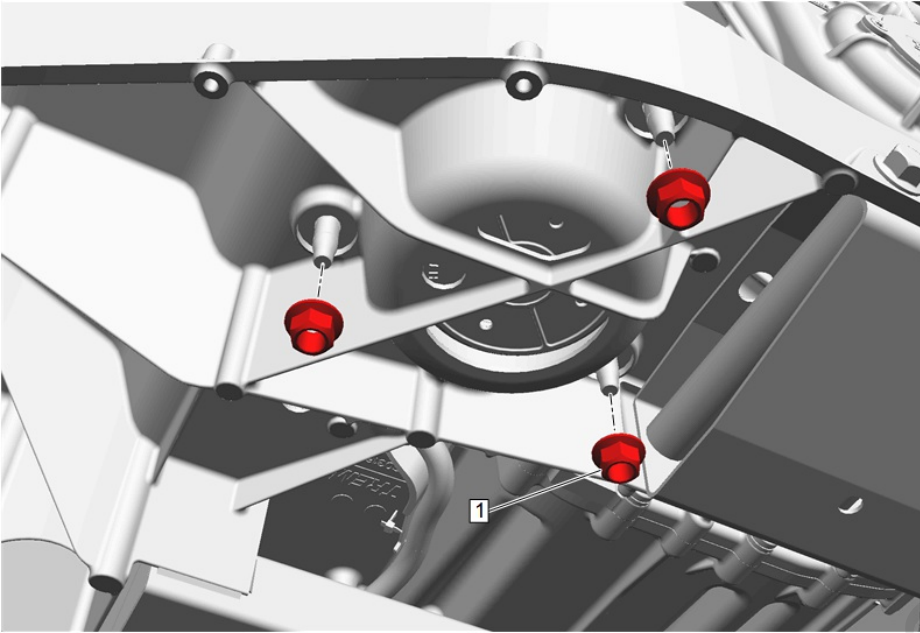
15.
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16. Engine Mount Frame Side Nut - Left Side (1) >> Install and tighten [3x]58 N-m (43 lb ft)



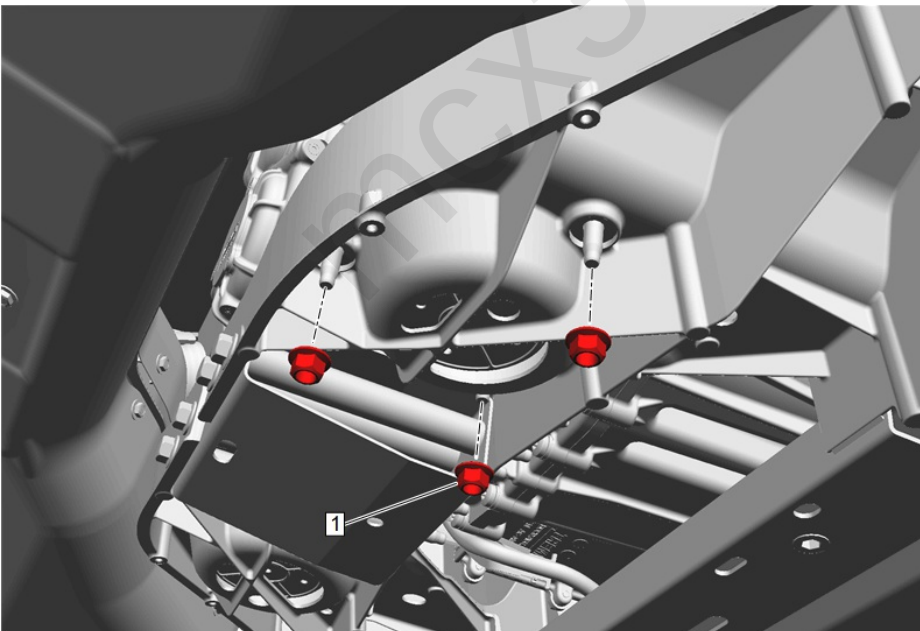
17.
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18. Engine Mount Frame Side Nut - Right Side (1) >> Install and tighten [3x]58 N-m (43 lb ft)



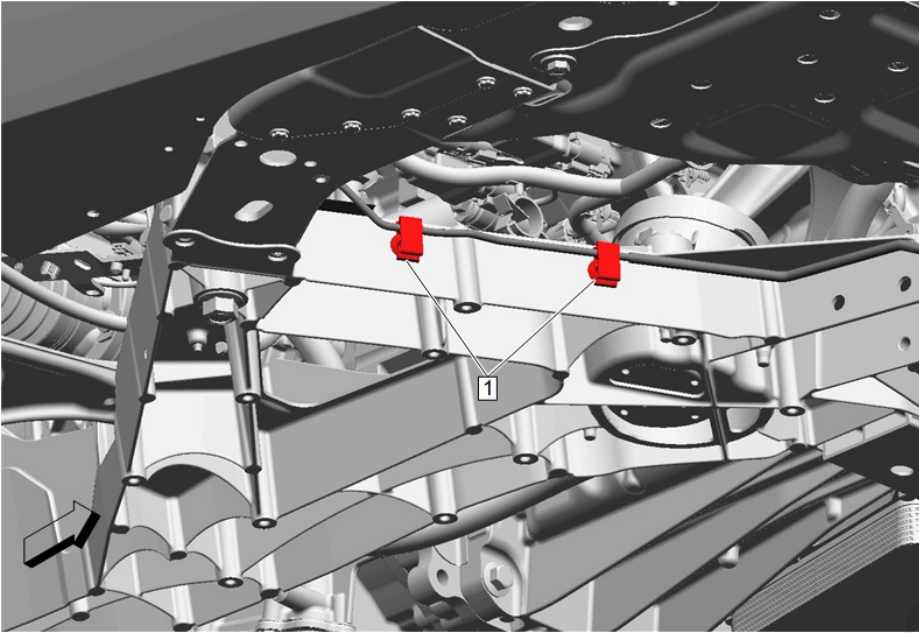
19.
[Click here for full size](#)

20. Transmission Mount Frame Side Nut - Left Side (1) >> Install and tighten [3x]58 N-m (43 lb ft)



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

22. Transmission Mount Frame Side Nut - Right Side (1) >> Install and tighten [3x]58 N-m (43 lb ft)

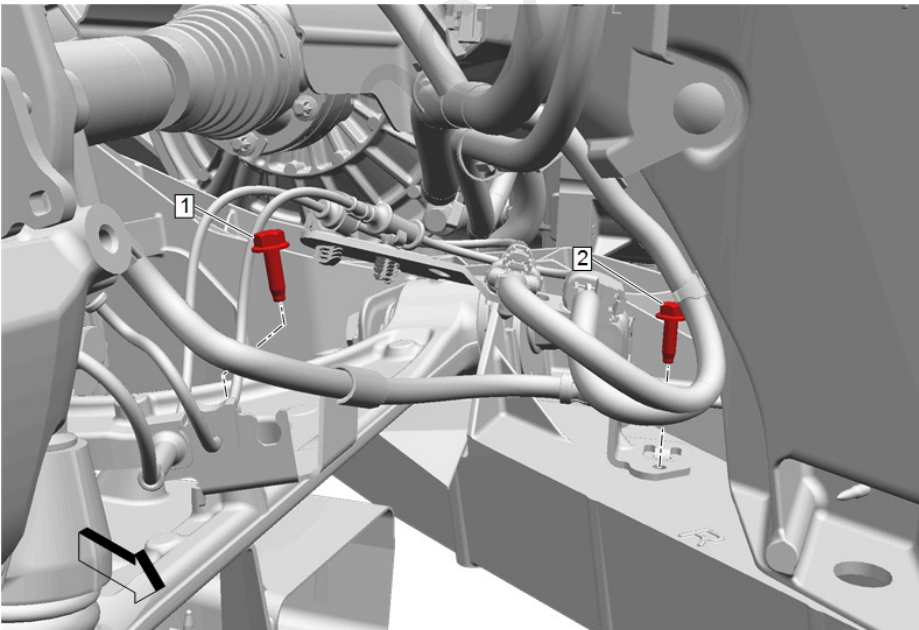


23. [Click here for full size](#)

24. Note:

Right side shown, left side similar.

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



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

27. Note:

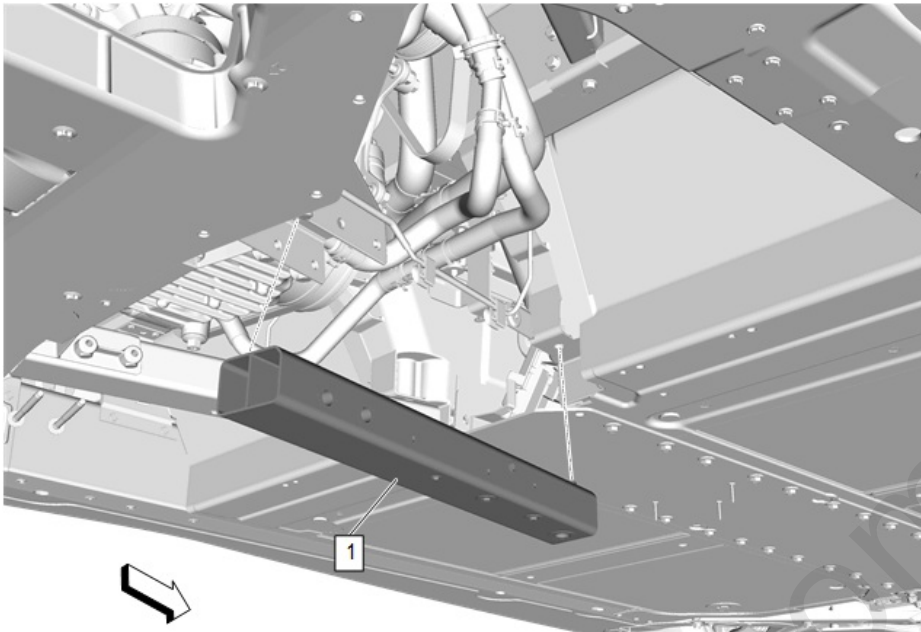
Right side shown, left side similar.

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

29. Note:

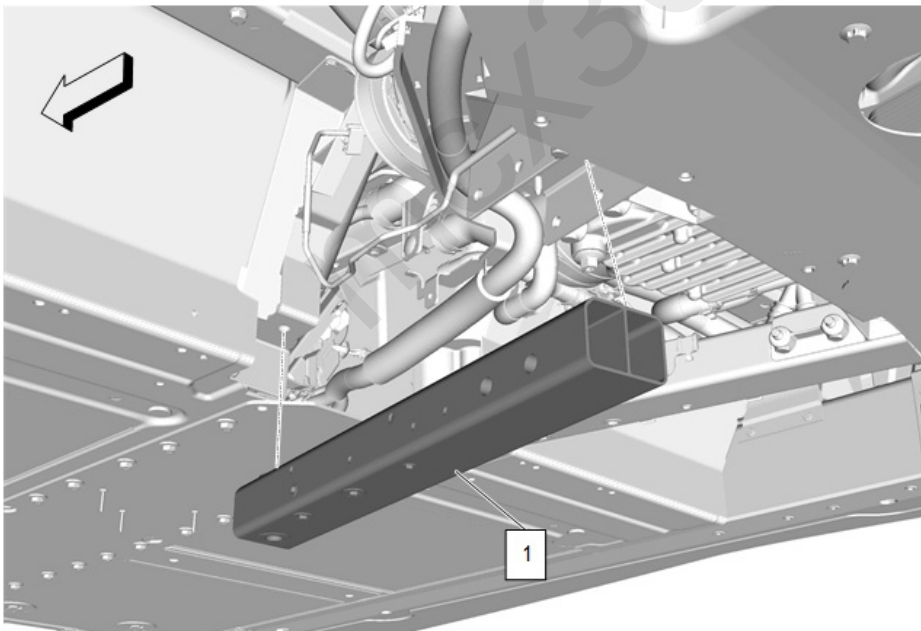
Right side shown, left side similar.

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



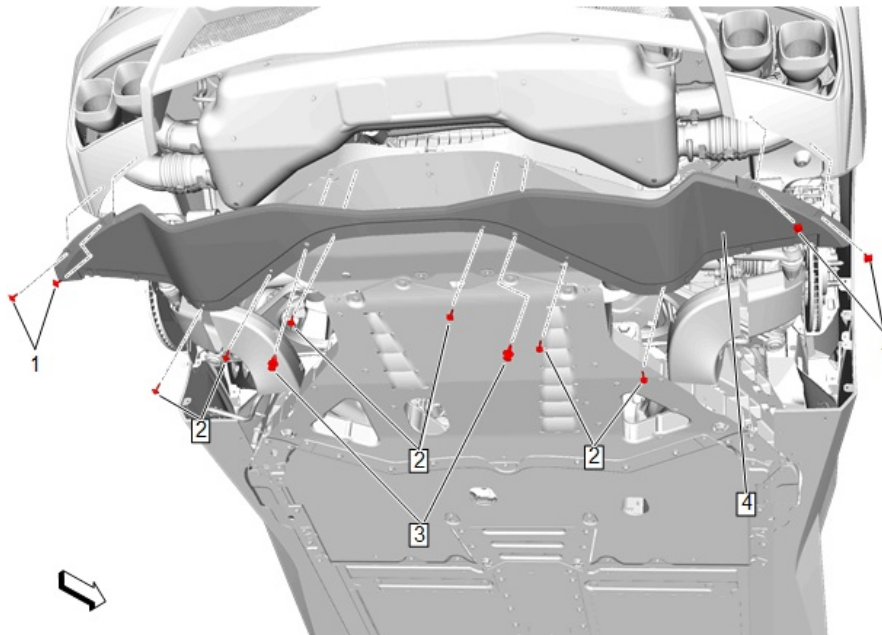
31.
[Click here for full size](#)

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



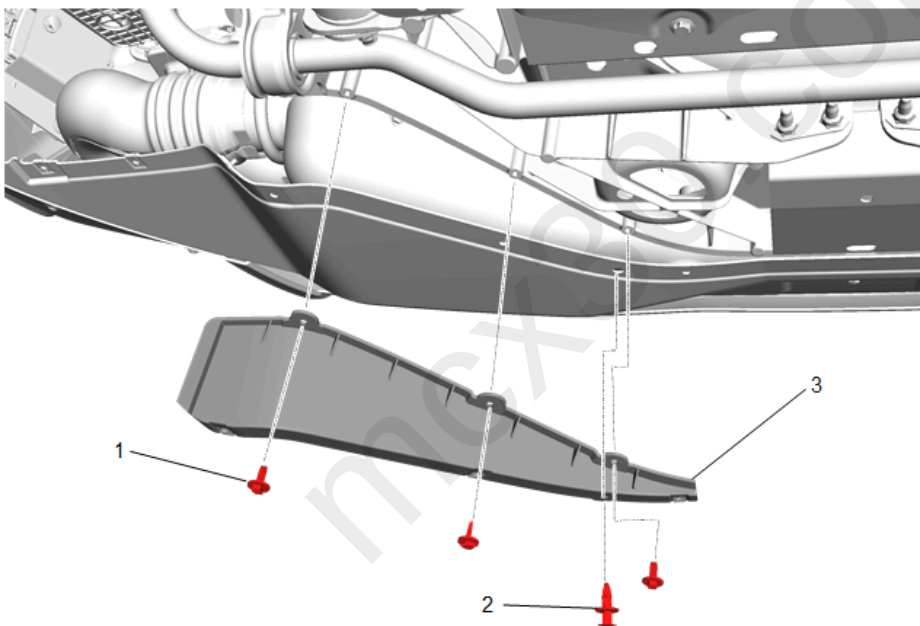
33.
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34. Rear Suspension Front Extension - Left Side (1) >> Install - Rear Suspension Front Extension Replacement - Left Side



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

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



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

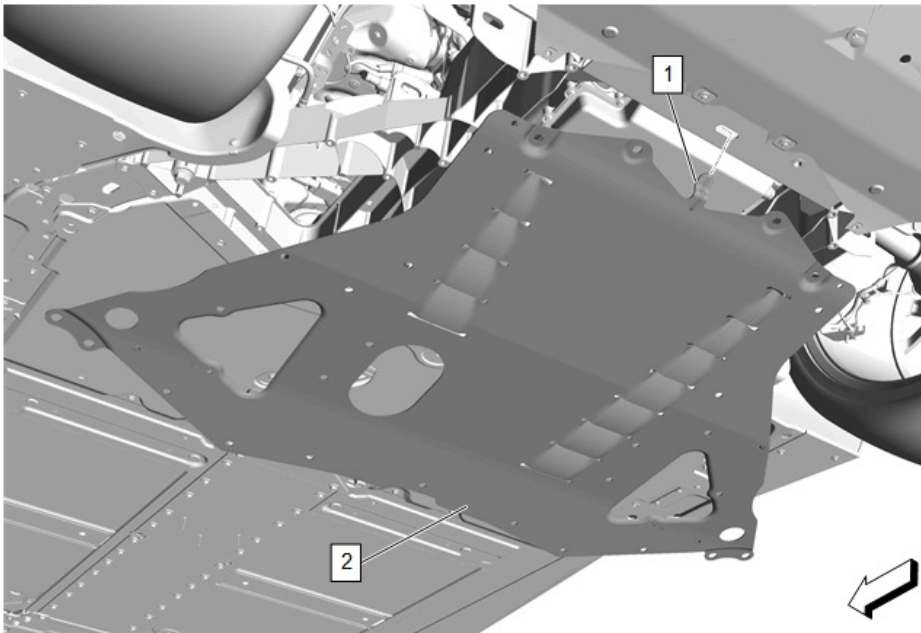
38. Rear Bumper Lower Fascia Bracket (3) >> Install - Rear Bumper Lower Fascia Bracket Replacement

39. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Install - Rear Suspension Adjust Link Outer End Replacement

40. Rear Suspension Lower Control Arm @ Rear Suspension Knuckle >> Install - Rear Suspension Lower Control Arm Replacement

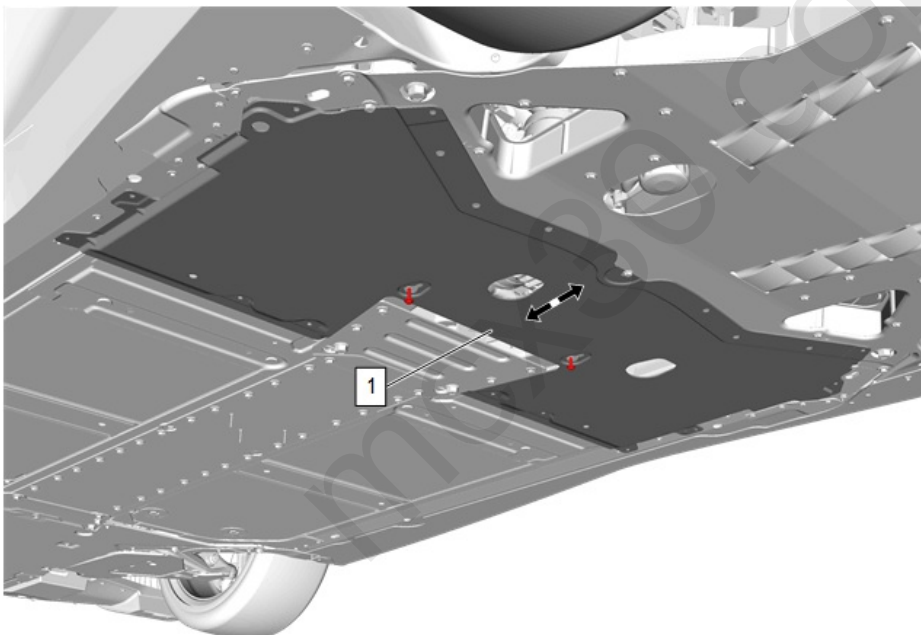
41. Rear Wheelhouse Liner - Left Side >> Install - Rear Wheelhouse Liner Replacement - Left Side

42. Rear Wheelhouse Liner - Right Side >> Install - Rear Wheelhouse Liner Replacement - Right Side



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

44. Rear Cradle Shear Plate (2) >> - Install Rear Cradle Shear Plate Replacement



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

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

47. Rear Stabilizer Shaft >> Install - Rear Stabilizer Shaft Replacement

48. Remove the engine support fixture. Engine Support Fixture