

2022 CHEVROLET CORVETTE SERVICE MANUAL

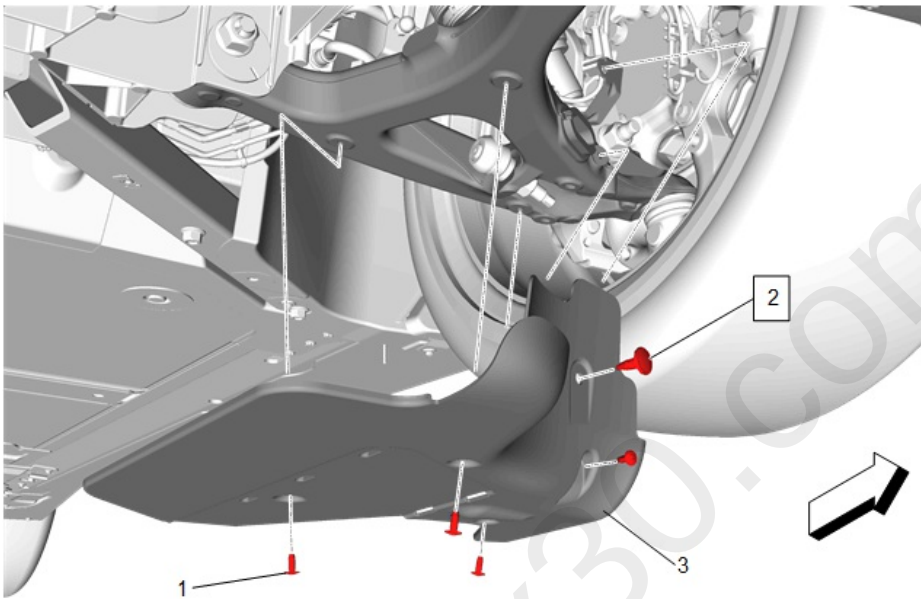
- **SEARCH**

1. Suspension
2. Front Suspension
3. Repair Instructions
- 4.

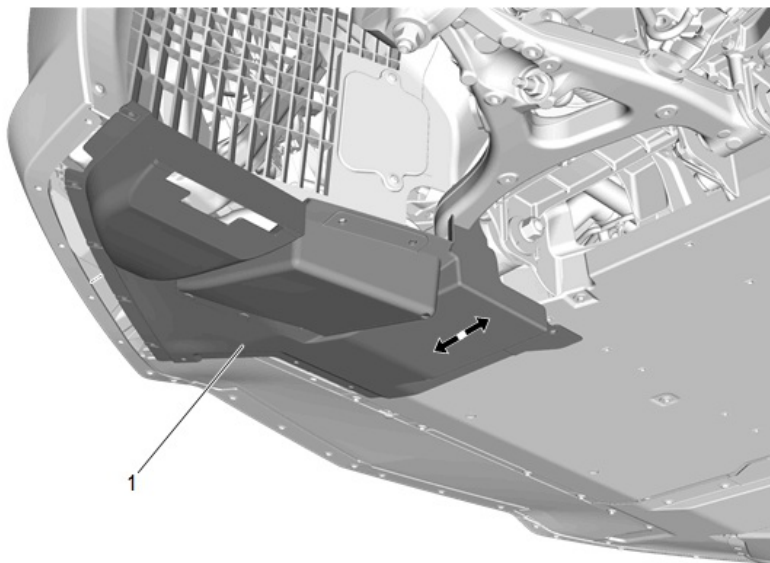
Front Lower Control Arm Replacement (with J55)

Removal Procedure

- ### 1. Raise and support the vehicle. Lifting and Jacking the Vehicle



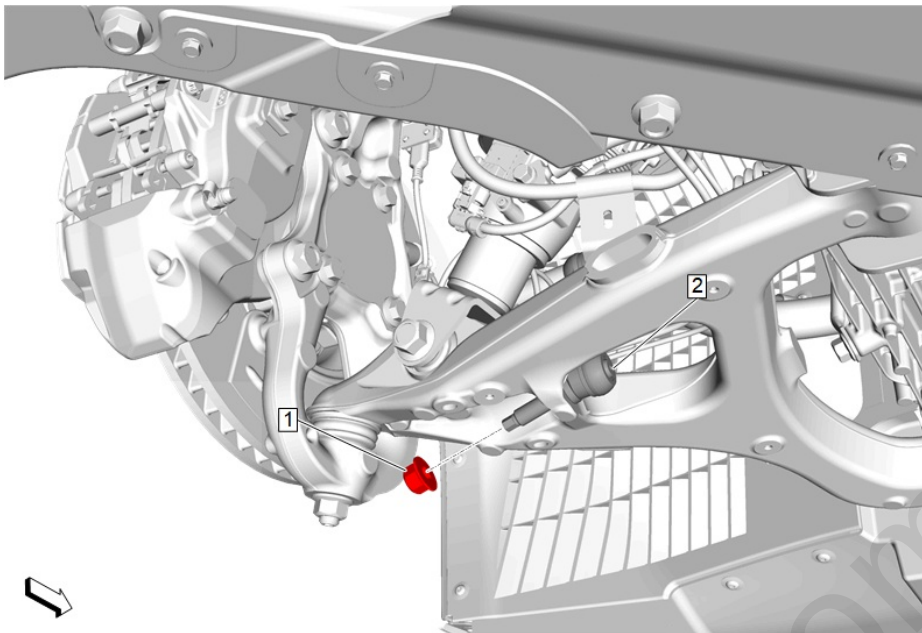
2. [Click here for full size](#)
3. [Front Brake Rotor Cooling Duct Deflector \(3\) >> Remove - Front Brake Rotor Cooling Duct Deflector Replacement](#)
4. [Remove the front tire and wheel assembly. Tire and Wheel Removal and Installation](#)



- 5.

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6. Front Tire Front Air Deflector (1) >> Remove - Front Tire Front Air Deflector Replacement



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

8. Front Stabilizer Shaft Link (2) @ Front Lower Control Arm >> Remove

9.

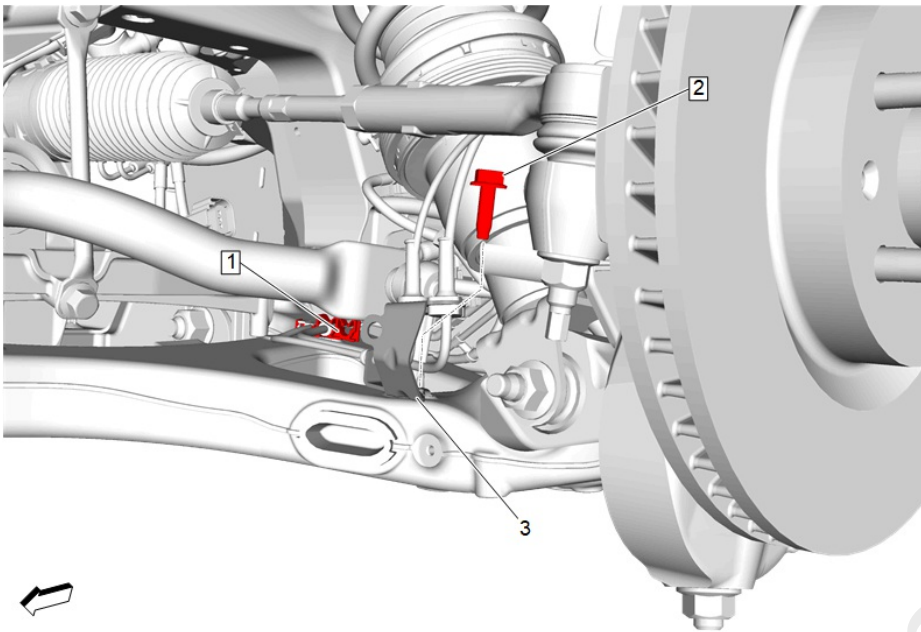
- For the left side, refer to Front Stabilizer Shaft Link Replacement - Left Side
- For the right side, refer to Front Stabilizer Shaft Link Replacement - Right Side

10. Front Brake Hose @ Front Lower Control Arm >> Remove - Front Brake Hose Replacement

11. Headlamp Leveling Front Suspension Height Sensor Bolt @ Front Lower Control Arm >> Remove

12.

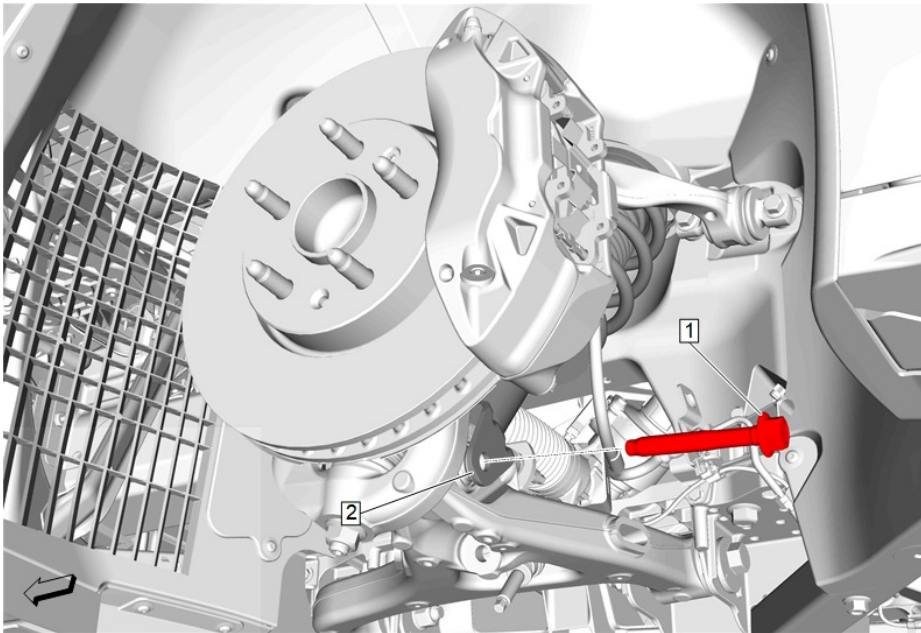
- For the right side, refer to Front Suspension 4 Corner Leveling System Position Sensor Replacement.
- For the left side, refer to Front Suspension Automatic Forward Lighting Position Sensor Replacement.



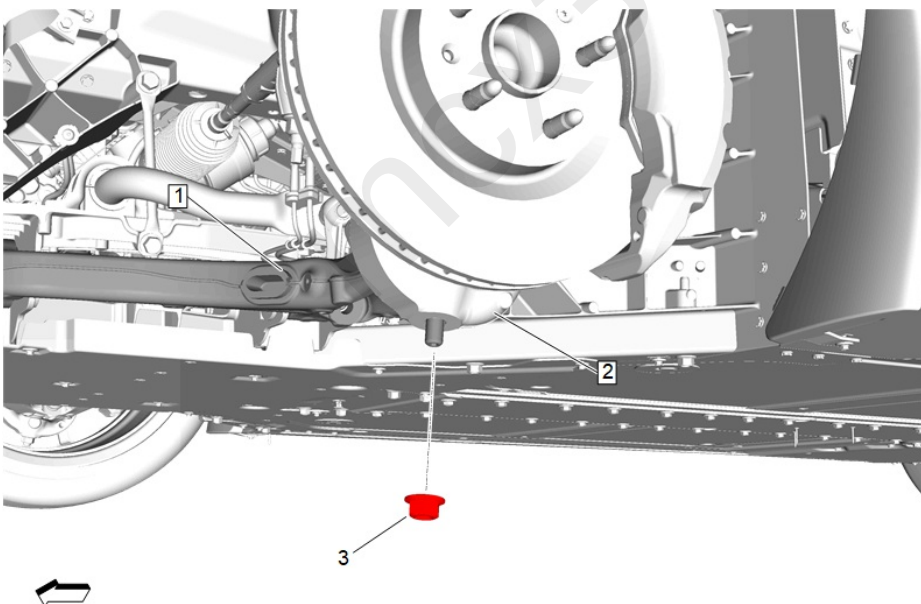
13. [Click here for full size](#)
14. Wiring Harness Retainer (1) >> Remove
15. Front Wheel Speed Sensor Bracket Bolt (2) @ Front Lower Control Arm >> Remove
16. Wheel Speed Sensor Bracket (3) >> Reposition
17. Caution:

When working around ball joints, visually inspect the ball joint boots before and after service work is performed to ensure no damage has occurred. If damage to the boot is observed, the ball joint must be replaced.
18. Note:

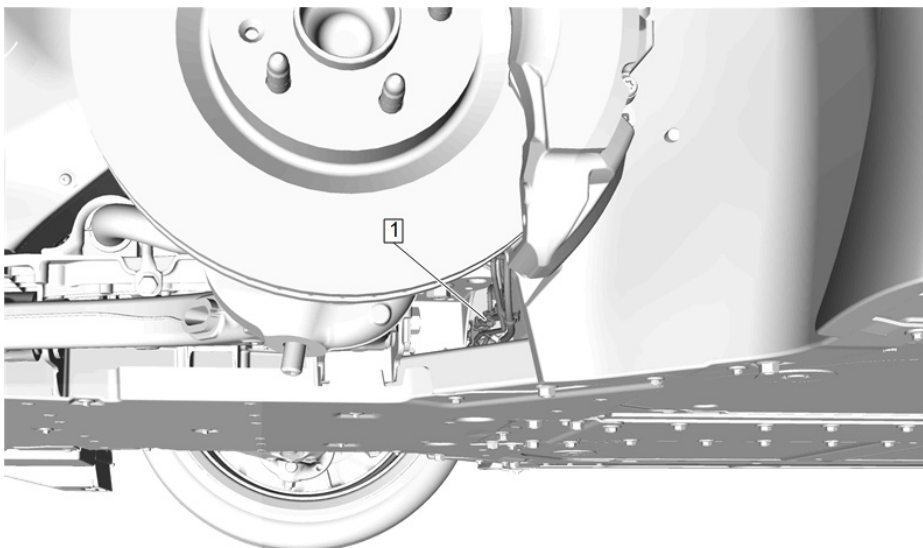
Support the front steering knuckle assembly to prevent over-articulation of the ball joints.
19. Support the front steering knuckle with a suitable jack stand or equivalent.



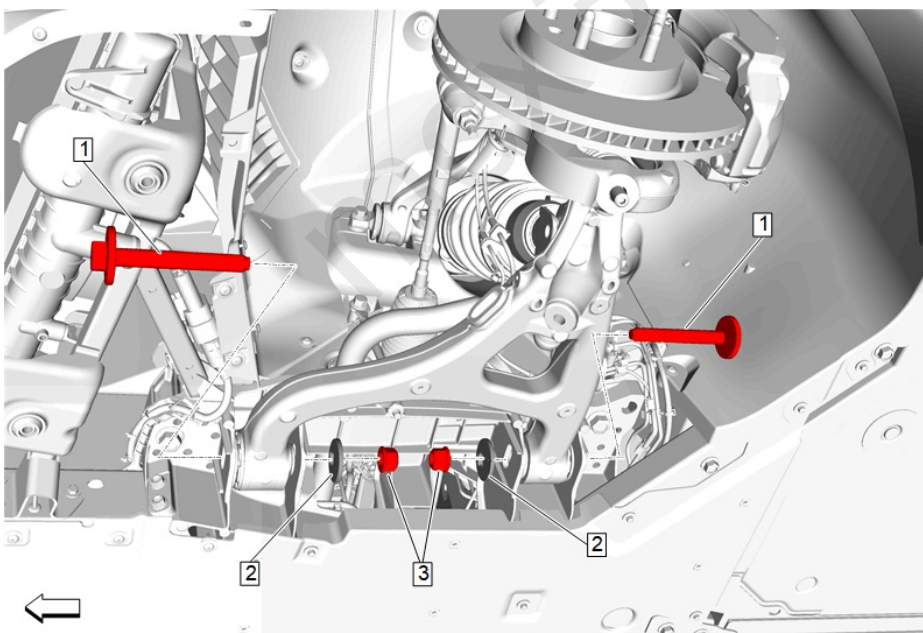
20.
[Click here for full size](#)
21. Front Shock Absorber (2) @ Front Lower Control Arm >> Remove - Front Shock Absorber and Spring Removal and Installation



22.
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23. Front Lower Control Arm Ball Stud Nut (3) >> Remove
24. Front Lower Control Arm (1) @ Steering Knuckle (2) >> Separate



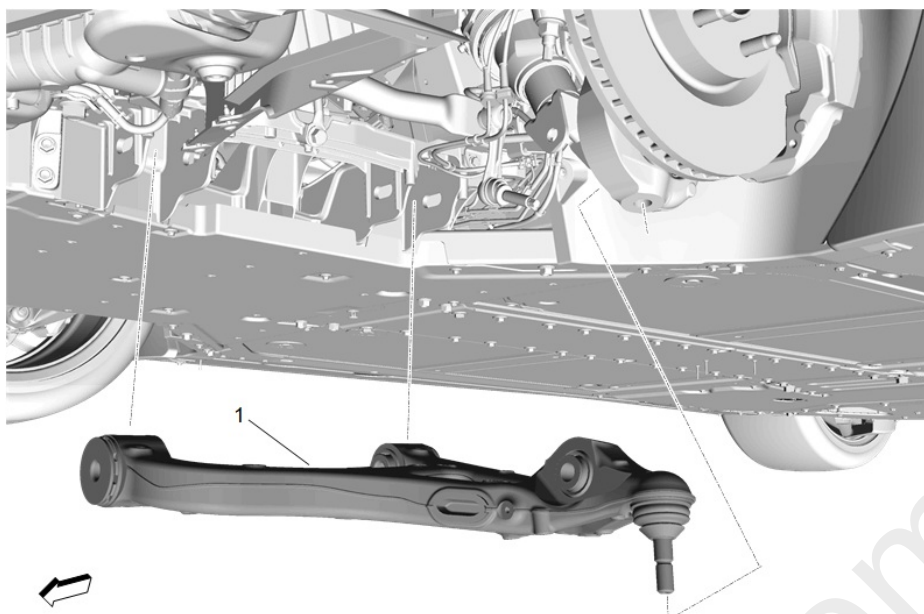
25. [Click here for full size](#)
26. Unclip and reposition the wiring harness and pipe bundle (1) to allow the removal of the front lower control arm adjust bolt.



27. [Click here for full size](#)
28. Mark the relationship of the 2 front lower control arm adjust cams (2) and the 2 front lower control arm adjust bolts (1) to the drivetrain and front suspension cradle for installation.
29. Front Lower Control Arm Nut (3) >> Remove [2x]

30. Front Lower Control Arm Adjust Cam (2) >> Remove [2x]

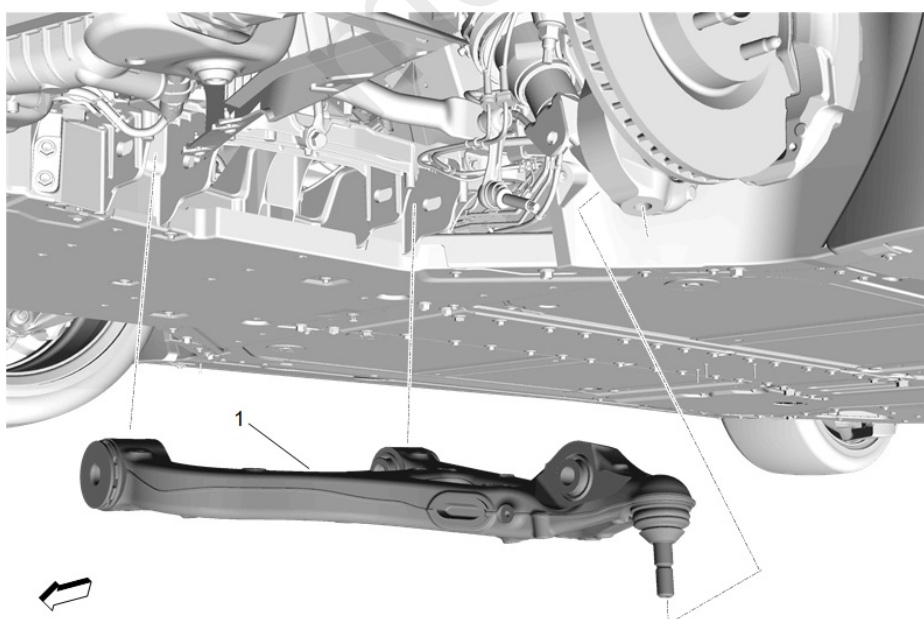
31. Front Lower Control Arm Adjust Bolt (1) >> Remove [2x]



32.
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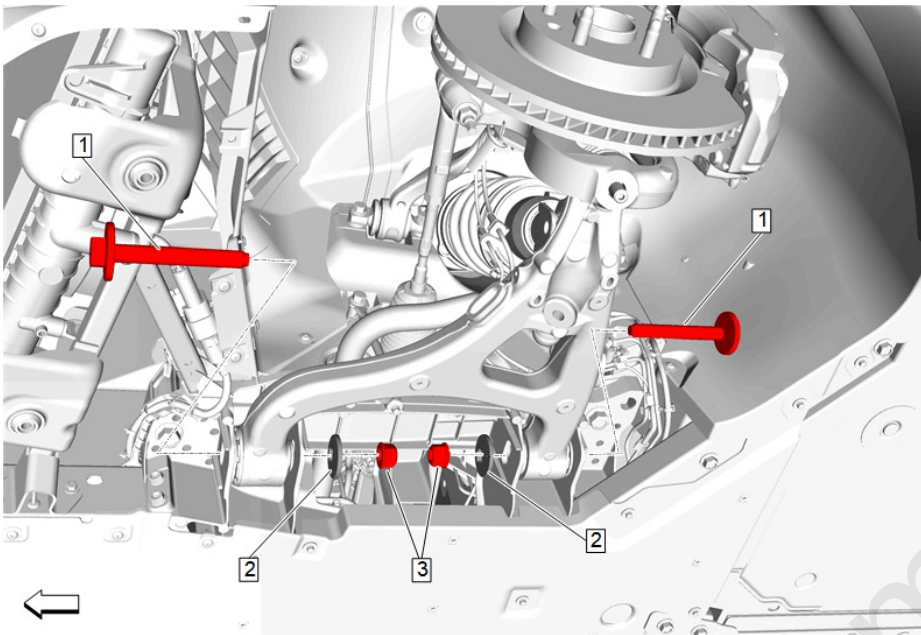
33. Front Lower Control Arm (1) >> Remove

Installation Procedure

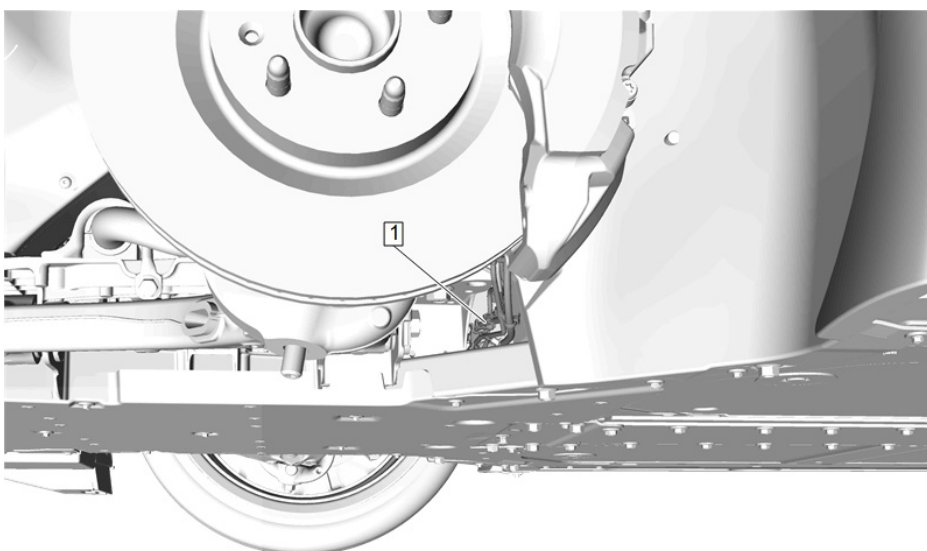


1.
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2. Front Lower Control Arm (1) >> Install

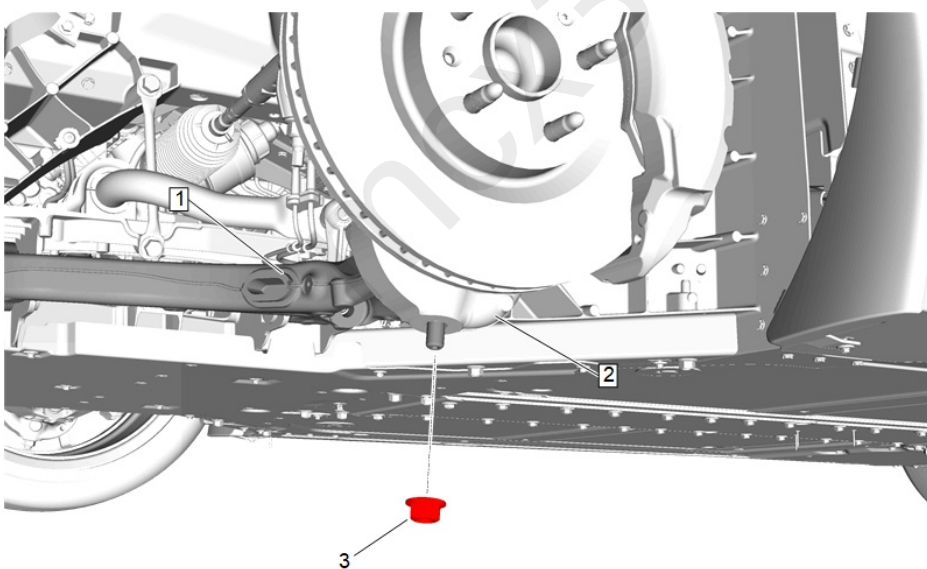


3. [Click here for full size](#)
4. Front Lower Control Arm Adjust Bolt (1) >> Install [2x]
5. Front Lower Control Arm Adjust Cam (2) >> Install [2x]
6. Align the 2 front lower control arm adjust cams (2) and the 2 front lower control arm adjust bolts (1) to the drivetrain and front suspension cradle marks that were made during removal.
7. Caution:
- Refer to Fastener Caution.
8. Front Lower Control Arm Nut (3) >> Install and tighten [2x]
- 9.
1. First Pass: 150 N-m (111 lb ft)
 2. Final Pass: 90 - 105 degrees



10.
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11. Install and clip the wiring harness and pipe bundle (1) in place as was removed.



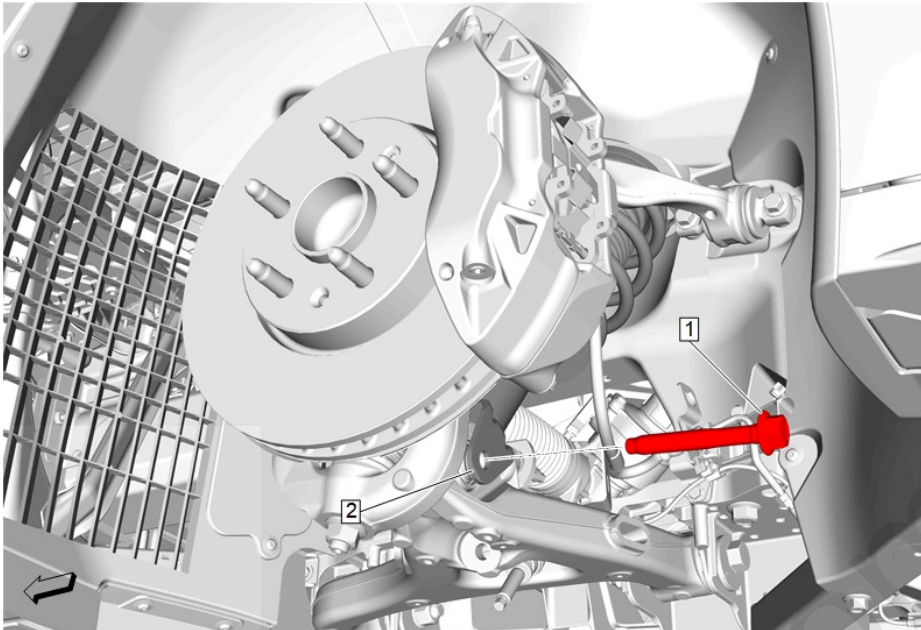
12.
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13. Front Lower Control Arm (1) @ Steering Knuckle (2) >> Install

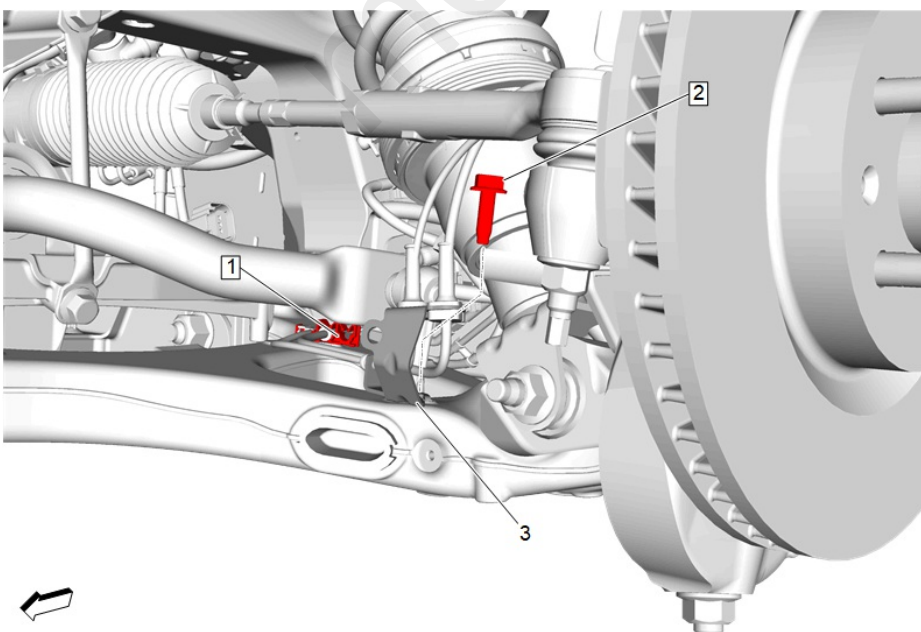
14. Front Lower Control Arm Ball Stud Nut (3) >> Install and tighten

15.

1. First Pass: 100 N-m (74 lb ft)
2. Final Pass: 37.5 - 45 degrees

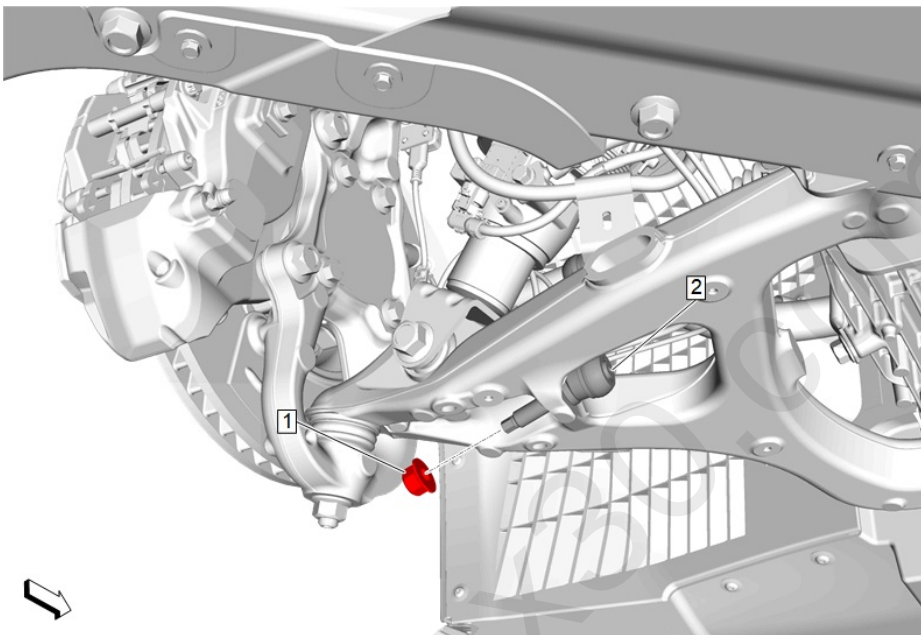


16. [Click here for full size](#)
17. Front Shock Absorber (2) @ Front Lower Control Arm>> Install - Front Shock Absorber and Spring Removal and Installation
18. Remove the support from the front steering knuckle.

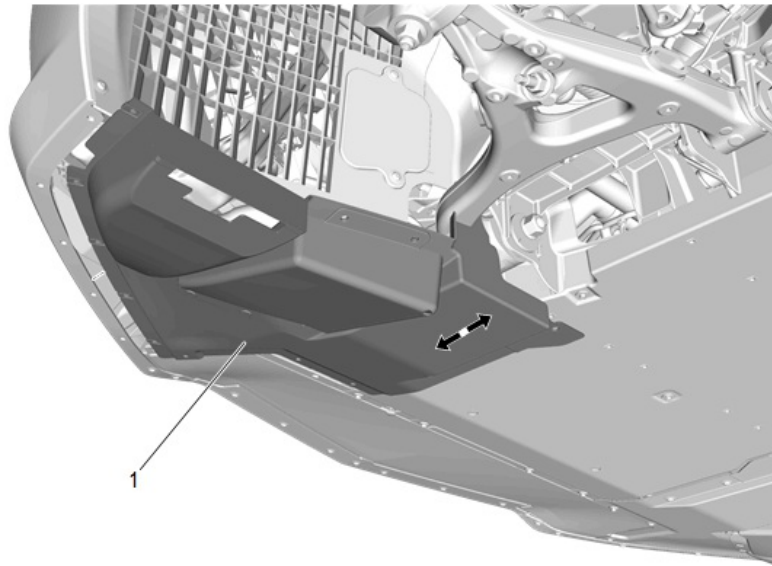


19. [Click here for full size](#)

20. Wheel Speed Sensor Bracket (3) >> Install
21. Front Wheel Speed Sensor Bracket Bolt (2) @ Front Lower Control Arm >> Install and tighten 9 N-m (80 lb in)
22. Wiring Harness Retainer (1) >> Install
23. Headlamp Leveling Front Suspension Height Sensor Bolt @ Front Lower Control Arm >> Install
24.
 - For the right side, refer to Front Suspension 4 Corner Leveling System Position Sensor Replacement.
 - For the left side, refer to Front Suspension Automatic Forward Lighting Position Sensor Replacement.
25. Front Brake Hose @ Front Lower Control Arm >> Install - Front Brake Hose Replacement

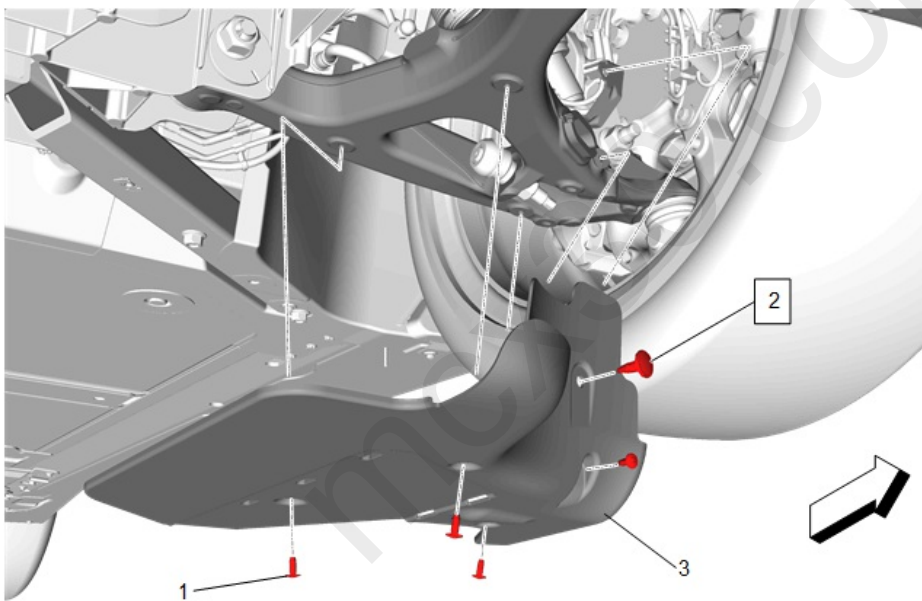


26.
[Click here for full size](#)
27. Front Stabilizer Shaft Link (2) @ Front Lower Control Arm >> Install
28.
 - For the left side, refer to Front Stabilizer Shaft Link Replacement - Left Side
 - For the right side, refer to Front Stabilizer Shaft Link Replacement - Right Side
29. Install the front tire and wheel assembly. Tire and Wheel Removal and Installation
30. Measure and adjust the wheel alignment. Wheel Alignment Measurement



31.
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32. Front Tire Front Air Deflector (1) >> Install - Front Tire Front Air Deflector Replacement



33.
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34. Front Brake Rotor Cooling Duct Deflector (3) >> Install - Front Brake Rotor Cooling Duct Deflector Replacement

35. Remove the support and lower the vehicle.