

2022 CHEVROLET CORVETTE SERVICE MANUAL

- SEARCH

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Rear Wheel Drive Shaft Replacement - Left Side

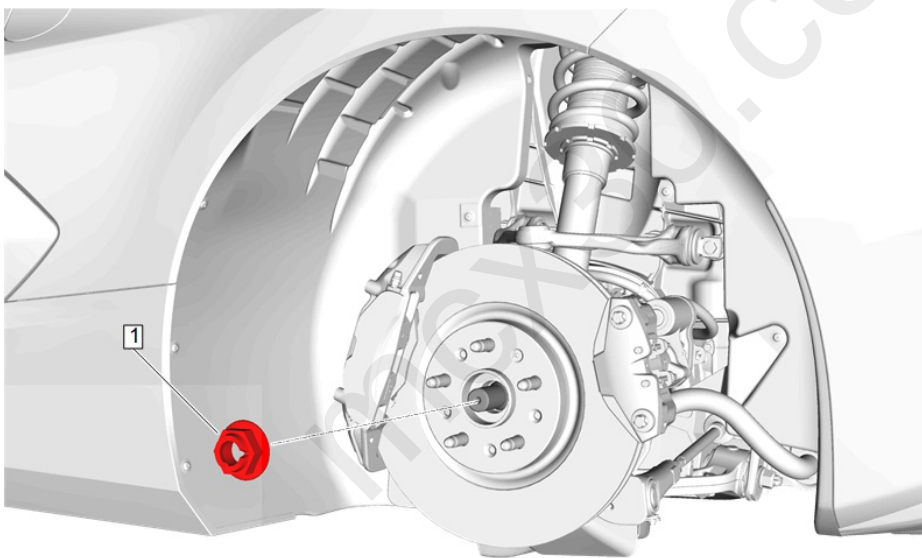
Special Tools

DT-45859, Axle Remover

Equivalent regional tools: Special Tools

Removal Procedure

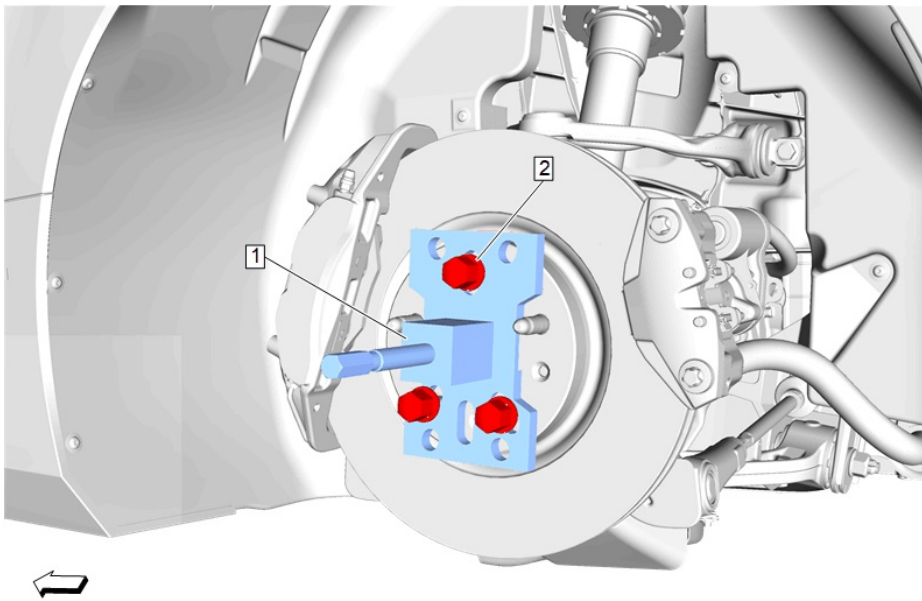
1. Raise and support the vehicle. Lifting and Jacking the Vehicle
2. Remove the left rear tire and wheel assembly. Tire and Wheel Removal and Installation
3. Have an assistant apply the brakes.



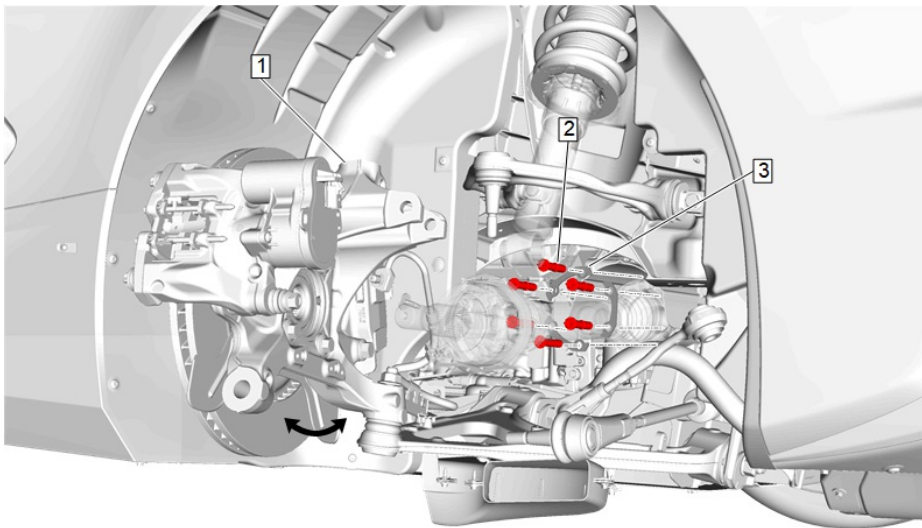
4. [Click here for full size](#)
5. Caution:

DO NOT use air tools to remove the wheel drive shaft nut. Damage to the wheel drive shaft threads could occur. Use hand tools only.

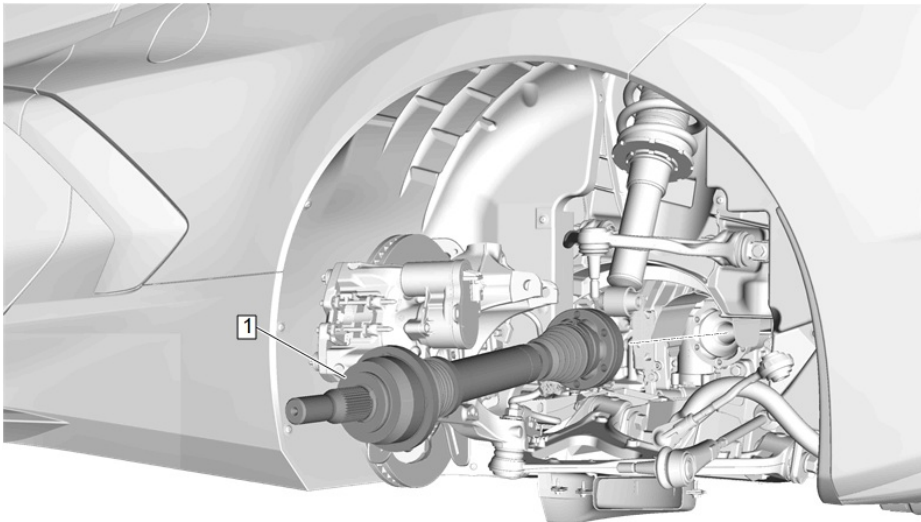
6. Rear Wheel Drive Shaft Nut (1) >> Remove and DISCARD



7.
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8. Install the *DT-45859* Axle Remover (1) to the rear wheel hub and secure with 3 wheel nuts (2) hand tightened.
9. Using the *DT-45859* Axle Remover (1), release the rear wheel drive shaft from the rear wheel hub.
10. Remove the 3 wheel nuts (2) and the *DT-45859* Axle Remover (1) from the rear wheel hub.
11. Rear Shock Absorber @ Rear Suspension Knuckle >> Remove - Rear Shock Absorber and Spring Removal and Installation
12. Electrical Connector @ Parking Brake Actuator >> Disconnect
13. Wiring Harness Retainer @ Parking Brake Actuator >> Disconnect and reposition harness as necessary.
14. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Remove - Rear Suspension Adjust Link Outer End Replacement
15. Rear Suspension Upper Control Arm @ Rear Suspension Knuckle >> Remove - Rear Suspension Upper Control Arm Replacement



16. [Click here for full size](#)
17. Reposition the rear suspension knuckle (1) and support it appropriately.
18. Note:
The rear wheel drive shaft flange bolts (2) and washers (3) are serviced as a rear wheel drive shaft universal joint retainer kit consisting of 2 bolts and 1 washer.
19. Rear Wheel Drive Shaft Bolt (2) >> Remove and DISCARD [6x]
20. Rear Wheel Drive Shaft Washer - Inner (3) >> Remove and DISCARD [3x]



21. [Click here for full size](#)
22. Rear Wheel Drive Shaft (1) >> Remove

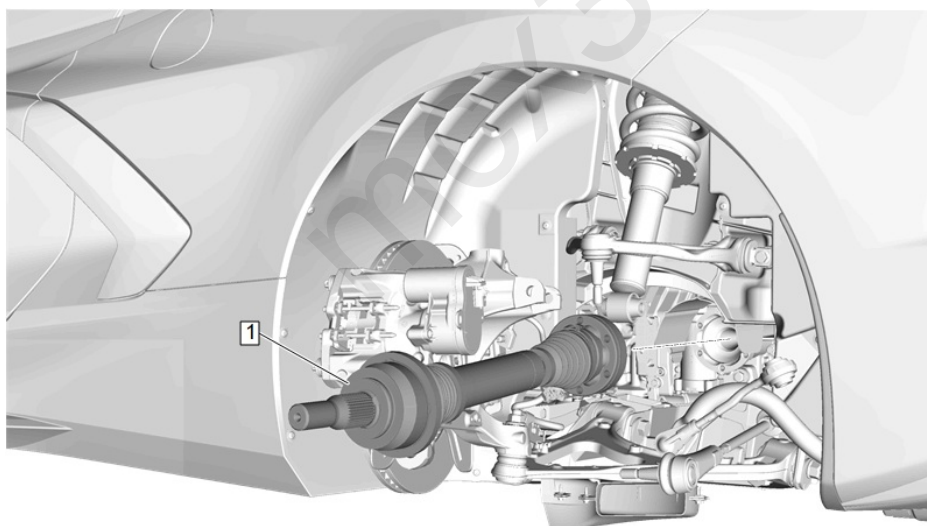


23. [Click here for full size](#)
24. Rear Wheel Drive Shaft Washer - Outer (1) >> Remove and DISCARD

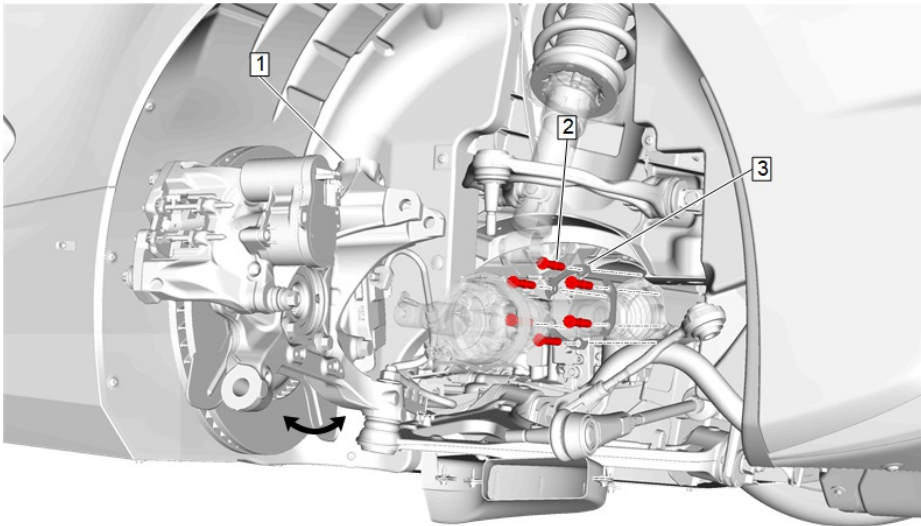
Installation Procedure



1. [Click here for full size](#)
2. Rear Wheel Drive Shaft Washer - Outer (1) >> Install NEW



3. [Click here for full size](#)
4. Rear Wheel Drive Shaft (1) >> Install



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

6. Note:

The rear wheel drive shaft flange bolts (2) and washers (3) are serviced as a rear wheel drive shaft universal joint retainer kit consisting of 2 bolts and 1 washer.

7. Due to the unknown shelf life, prepare the 6 NEW rear wheel drive shaft bolts (2) for installation as follows:

8.

1. Remove any loose cured adhesive from the external threads of the components using a lint free cloth.
2. Thread the cleaned components into the internal mating threads and remove to loosen trapped cured adhesive.
3. Apply thread locking adhesive to the external threads of the components. Adhesives, Fluids, Lubricants, and Sealers
4. Ensure there are no gaps in the thread locking adhesive once applied to the component.

9. Rear Wheel Drive Shaft Washer - Inner (3) >> Install NEW [3x]

10. Caution:

This vehicle is equipped with torque-to-yield or single use fasteners. Install a NEW torque-to-yield or single use fastener when installing this component. Failure to replace the torque-to-yield or single use fastener could cause damage to the vehicle or component.

11. Caution:

Refer to Fastener Caution.

12. Install and tighten the 6 NEW rear wheel drive shaft bolts in a crisscross pattern.

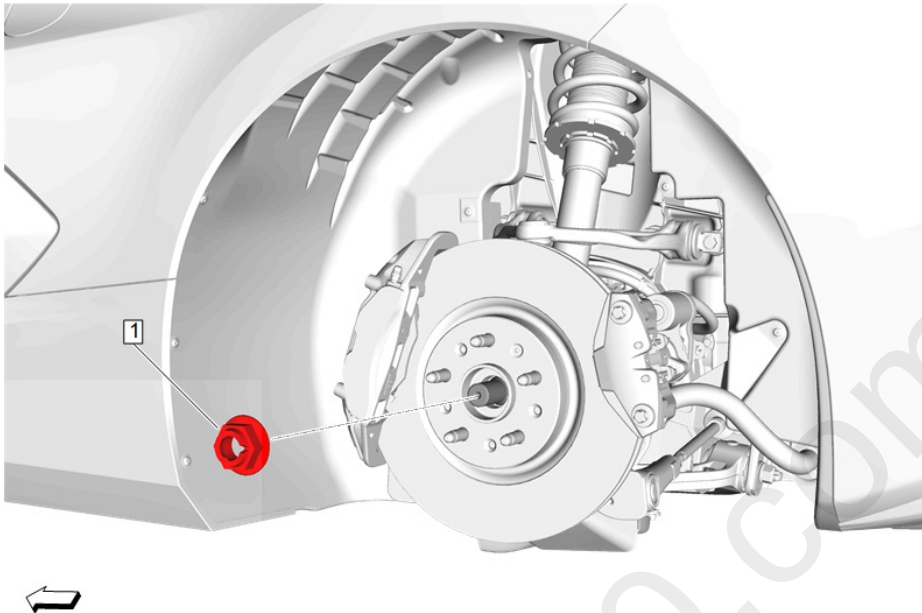
13.

1. First Pass: 50 N-m (37 lb ft)
2. Final Pass: 40 - 50 degrees

14. Reposition the rear suspension knuckle (1) and engage the rear wheel drive shaft to the rear wheel hub.

15. Rear Suspension Upper Control Arm @ Rear Suspension Knuckle >> Install - Rear Suspension Upper Control Arm Replacement

16. Rear Suspension Adjust Link Outer End @ Rear Suspension Knuckle >> Install - Rear Suspension Adjust Link Outer End Replacement
17. Wiring Harness Retainer @ Parking Brake Actuator >> Connect
18. Electrical Connector @ Parking Brake Actuator >> Connect
19. Rear Shock Absorber @ Rear Suspension Knuckle >> Install - Rear Shock Absorber and Spring Removal and Installation
20. Have an assistant apply the brakes.



21.
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22. Rear Wheel Drive Shaft Nut (1) >> Install NEW and tighten
23.
 1. First Pass: 330 N-m (244 lb ft)
 2. Second Pass: loosen 45 degrees
 3. Final Pass: 270 N-m (199 lb ft)
24. Install the left rear tire and wheel assembly. Tire and Wheel Removal and Installation
25. Remove the support and lower the vehicle.