

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

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Tire and Wheel Removal and Installation

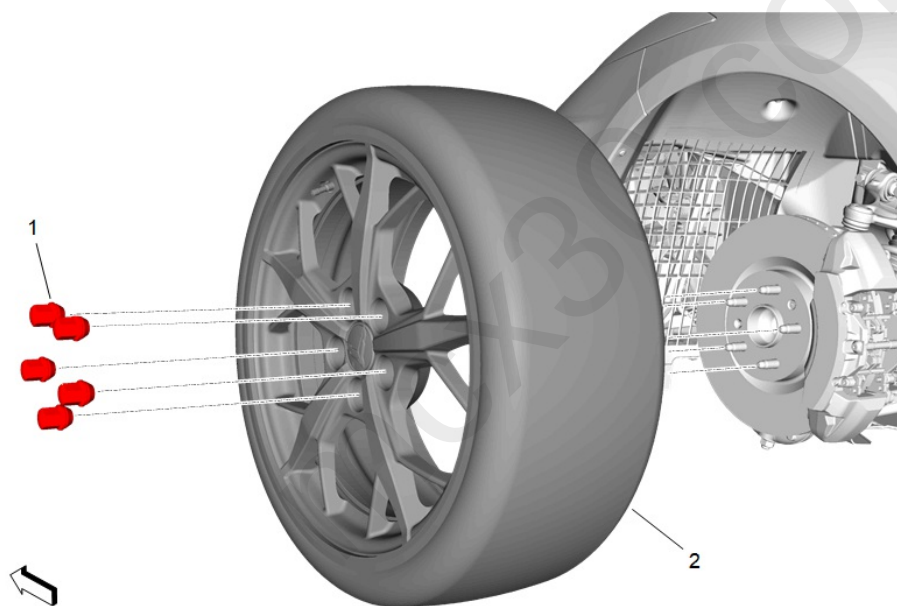
Special Tools

- CH-41013, Rotor Resurfacing Kit
- CH-42450-A, Wheel Hub Resurfacing Kit

Equivalent regional tools: Special Tools

Removal Procedure

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



2. [Click here for full size](#)
3. Wheel Nut (1) >> Remove [5x]
4. Tire and Wheel Assembly (2) >> Remove
5. Warning:

If penetrating oil gets on the vertical surfaces between the wheel and the rotor or drum it could cause the wheel to work loose as the vehicle is driven, resulting in loss of control and an injury accident.

6. Caution:

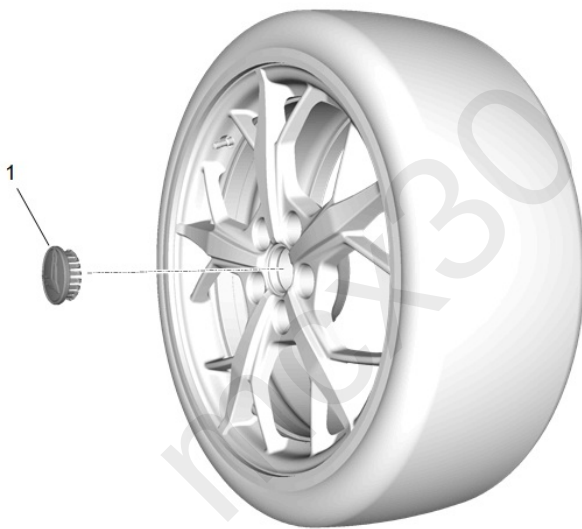
Removing the wheel may be difficult because of foreign materials or a tight fit between the wheel and the hub/rotor. Slightly tap the tire side wall with a rubber mallet in order to remove the wheel. Failure to follow these instructions may result in damage to the wheel.

7. **Caution:**

Never use heat to loosen a tight wheel bolt or nut. This can shorten the life of wheel and damage wheel bearings.

8. If the tire and wheel assembly is difficult to remove or cannot be removed, perform the following steps:

9.
 1. All four tire and wheel assemblies must be on the vehicle and properly torqued prior to performing the following steps to the affected tire and wheel assembly only.
 2. Loosen the wheel nuts of the affected wheel 2 complete turns.
 3. Lower the vehicle.
 4. Rock the vehicle from side to side.
 5. Repeat the procedure if necessary.
 6. When the tire and wheel assembly loosens, raise and support the vehicle. **Lifting and Jacking the Vehicle**
 7. Remove the wheel nuts.
 8. Remove the tire and wheel assembly.



10.
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11. Wheel Trim Cap (1) >> Remove

Installation Procedure

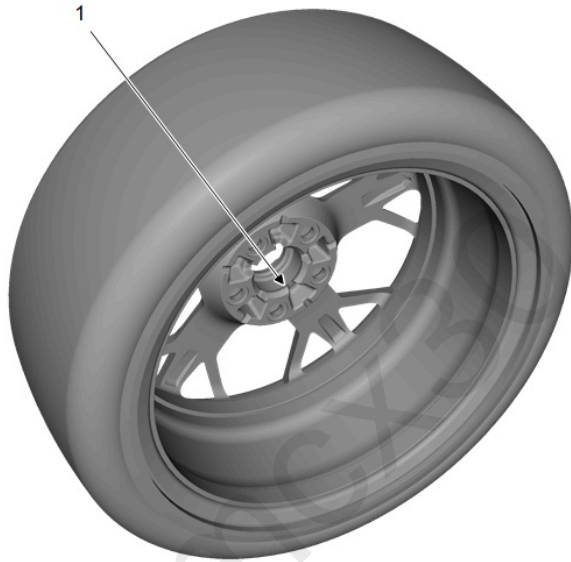
1. **Warning:**

Before installing the wheels, remove any buildup of corrosion on the wheel mounting surface and brake drum or disc mounting surface. Installing wheels with poor metal-to-metal contact at the mounting surfaces can cause wheel nuts to loosen. This can cause a wheel to come off when the vehicle is moving, causing loss of control and possibly personal injury.

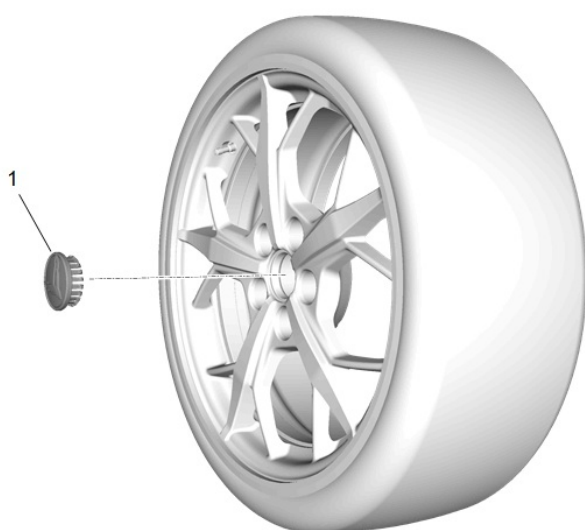
2. **Note:**

Do not use power grinding tools to clean the brake rotor to wheel mating surfaces.

3. Using a wire brush or wire wheel, clean the wheel to brake rotor mating surface.
4. Using the *CH-41013* Rotor Resurfacing Kit, clean the rotor to wheel contact area.
5. Using the *CH-42450-A* Wheel Hub Resurfacing Kit, clean the surfaces around the front and rear wheel hub bolts.
6. Clean the threads of the front and rear wheel hub bolts.
7. If the threads of the front and rear wheel hub bolts are damaged, replace the front and rear wheel hub bolts as necessary.
8.
 - For the front wheel hub, refer to Front and Rear Wheel Hub Bolt Replacement.
 - For the rear wheel hub, refer to Front and Rear Wheel Hub Bolt Replacement.
9. After cleaning all of the wheel and brake rotor contact areas, use brake cleaner or denatured alcohol to remove any dirt and debris from the wheel nuts and the brake rotor.
10. Inspect and clean the contact areas of the wheel. Wheel Mounting Surface Check

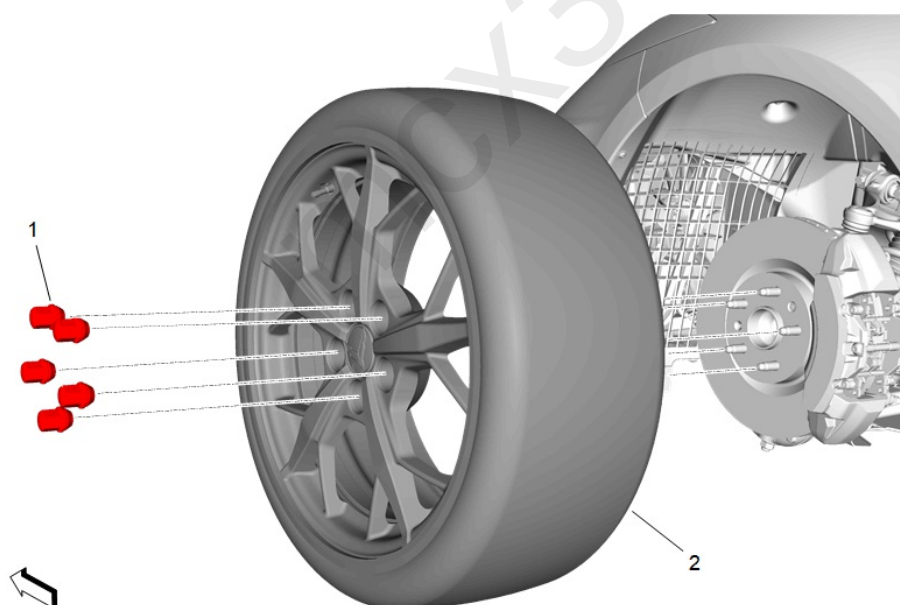


11.
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12. Apply a small amount of lubricant to the inner diameter of the wheel hub pilot hole (1) where it contacts the wheel hub flange. Adhesives, Fluids, Lubricants, and Sealers



13.
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14. Wheel Trim Cap (1) >> Install



15.
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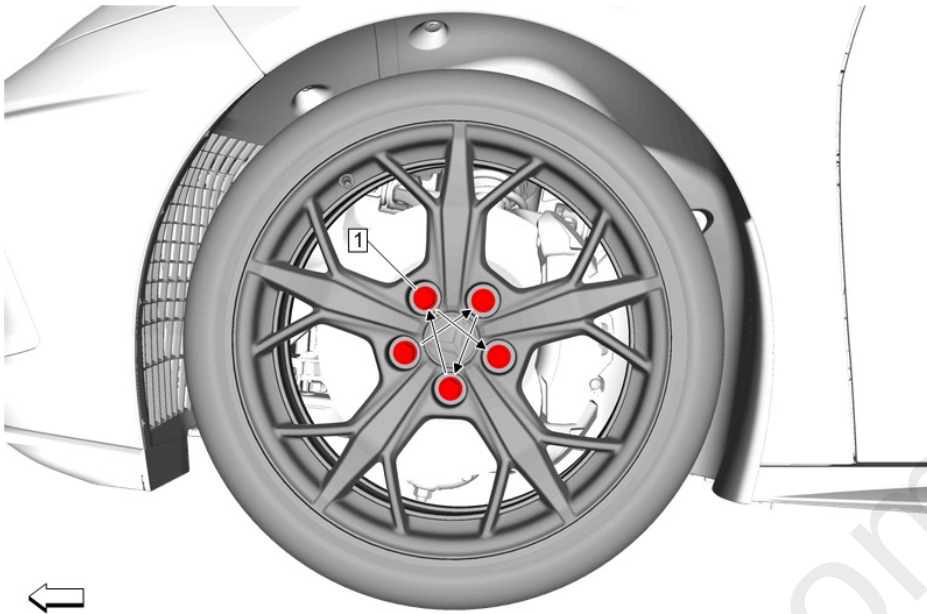
16. Tire and Wheel Assembly (2) >> Install

17. Warning:

Never grease or lubricate wheel nuts, studs and mounting surfaces. Wheel nuts, studs, and mounting surfaces must be clean and dry.

Tightening the lubricated parts can cause damage to the wheel studs. This can cause a wheel to come off when the vehicle is moving, causing loss of control and possibly personal injury.

18. Wheel Nut (1) >> Install and hand tighten [5x]



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

20. Caution:

Improperly tightened wheel bolts or nuts can lead to brake pulsation and rotor damage. In order to avoid expensive brake repairs, evenly tighten the wheel bolts or nuts to the proper torque specification.

21. Caution:

Refer to Fastener Caution.

22. Using a torque wrench and the appropriate socket, evenly tighten the 5 wheel nuts (1) in a crisscross pattern to 190 N-m (140 lb ft).
23. Remove the support and lower the vehicle.