

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Tire Dismounting and Mounting

Warning:

Approved safety glasses and gloves should be worn when performing this procedure to reduce the chance of personal injury.

Caution:

Use a tire changing machine in order to dismount tires. Do not use hand tools or tire irons alone in order to remove the tire from the wheel. Damage to the tire beads or the wheel rim could result.

Caution:

Do not scratch or damage the clear coating on aluminum wheels with the tire changing equipment. Scratching the clear coating could cause the aluminum wheel to corrode and the clear coating to peel from the wheel.

Caution:

Damage to either the tire bead or the wheel mounting holes can result from the use of improper wheel attachment or tire mounting procedures. It takes up to 70 seconds for all of the air to completely exhaust from a large tire. Failure to follow the proper procedures could cause the tire changer to put enough force on the tire to bend the wheel at the mounting surface. Such damage may result in vibration and/or shimmy, and under severe usage lead to wheel cracking.

Removal Procedure

1. Raise and support the vehicle. Lifting and Jacking the Vehicle
2. Remove the tire and wheel assembly. Tire and Wheel Removal and Installation
3. Remove the valve core and release the air pressure.
4. Deflate the tire completely.
5. Note:
Rim-clamp touchless tire changers are recommended.
6. Use the tire changing machine to remove the tire from the wheel following the manufacturer specific directions for the tire changing machine being used.
7. Caution:
Failure to position valve stem in proper position while dismounting and mounting the tire may result in the TPM sensor to become damaged.
8. When separating the tire bead from the wheel, do not allow the bead breaker to contact the valve stem/TPM sensor as they will be damaged.
9. Position the tire machine removal head to the outer tire bead so as it will operate without contacting the valve stem/TPM sensor.
10. Using the tire changing machine, remove the outer tire bead from the wheel.
11. Position the tire machine removal head to the outer tire bead so as it will operate without contacting the valve stem/TPM sensor.
12. Using the tire changing machine, remove the inner tire bead from the wheel and remove the tire.
13. Note:
Refer to information on the tire sealant Material Safety Data Sheet and follow guidelines for handling and disposal.
14. If a tire sealant product was used/found within the tire, and the tire is repairable, use a mild dish soap, clean water and shop cloths to

remove the sealant residue.

15. If a confirmed GM approved tire sealant product has been used/found within the tire, use a mild dish soap, clean water and shop cloths to remove the sealant residue from the tire pressure indicator sensor.
16. If a tire sealant product was used/found within the tire, and it cannot be confirmed that a GM approved product was used, replace the tire pressure indicator sensor. Tire Pressure Indicator Sensor Replacement
17. Use medium coarseness steel wool to remove any rubber or corrosion from the wheel bead seats.
18. Inspect the tire and wheel for any damage, replace as necessary.

Installation Procedure

1. Caution:

When mounting the tires, use an approved tire mounting lubricant. DO NOT use silicon or corrosive base compounds to lubricate the tire bead and the wheel rim. A silicon base compound can cause the tire to slip on the rim. A corrosive type compound can cause tire or rim deterioration.

2. Apply mounting lubricant to the tire bead and the wheel. Adhesives, Fluids, Lubricants, and Sealers

3. Note:

Rim-clamp touchless tire changers are recommended.

4. Use the tire changing machine to install the tire to the wheel following the manufacturer specific directions for the tire changing machine being used.

5. Place the inner tire bead onto the wheel.

6. Caution:

Failure to position valve stem in proper position while dismounting and mounting the tire may result in the TPM sensor to become damaged.

7. Position the tire machine installation head to the inner tire bead so as it will operate without contacting the valve stem/TPM sensor.

8. Using the tire changing machine, install the inner tire bead to the wheel.

9. Position the tire machine installation head to the outer tire bead so as it will operate without contacting the valve stem/TPM sensor.

10. Using the tire changing machine, install the outer tire bead to the wheel.

11. Warning:

To avoid serious personal injury, do not stand over tire when inflating. The bead may break when the bead snaps over the safety hump. Do not exceed 275 kPa (40 psi) pressure when inflating any tire if beads are not seated. If 275 kPa (40 psi) pressure will not seat the beads, deflate, relubricate the beads and reinflate. Overinflation may cause the bead to break and cause serious personal injury.

12. Some run flat tires may require more than 275 kPa (40 psi) to seat the bead. In such a case, a tire safety cage must be used. Consult the tire manufacturer for its individual repair policy.

13. Inflate the tire until it passes the bead humps. Be sure that the valve core is not installed at this time.

14. Install the valve core to the valve core stem.

15. Inflate the tire to the specified pressure as stated on the tire placard.

16. Balance the tire and wheel assembly. Tire and Wheel Balancing

17. Install the tire and wheel assembly. Tire and Wheel Removal and Installation

18. Remove the support and lower the vehicle.