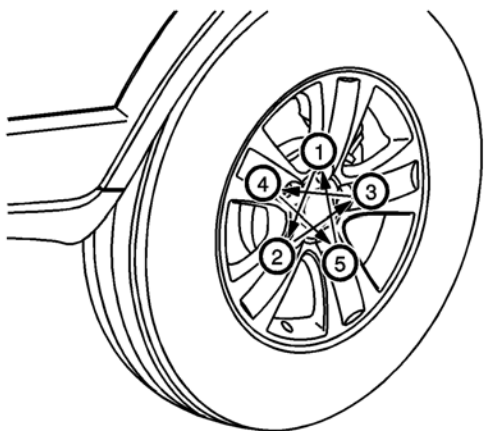




Tire and Wheel Removal and Installation

Removal Procedure



1. Remove the wheel cover, if equipped.
2. Use paint or a felt tipped pen in order to mark the relationship of the wheel to the hub.
3. Loosen the wheel nuts.
4. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
5. Remove the wheel nuts.

Caution: 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.

Notice: 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.

6. If the tire and wheel assembly is difficult to remove, perform the following steps:
 - 6.1. Install the wheel nuts.
 - 6.2. Loosen each wheel nut 2 revolutions.
 - 6.3. Lower the vehicle.
 - 6.4. Rock the vehicle from side to side.
 - 6.5. Start the engine.
 - 6.6. Drive the vehicle forward slightly.
 - 6.7. Apply the brakes quickly and firmly.
 - 6.8. Drive the vehicle backward slightly.
 - 6.9. Apply the brakes quickly and firmly.
 - 6.10. Remove the wheel nuts.
 - 6.11. Repeat this procedure if necessary.
7. Remove the tire and wheel assembly from the vehicle.

Installation Procedure

Caution: Before installing the wheels, remove any buildup of corrosion on the wheel mounting surface and brake drum or disc mounting surface by scraping and wire brushing. 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.

1. Remove any corrosion or foreign material from the wheel and the hub. Clean the following surfaces:
 - The hub mounting surface.
 - The brake rotor mounting surface.
 - The wheel mounting surface.
 - The threads on the studs.
 - The threads on the wheel nuts.
2. Verify the nuts turn freely on the stud.
3. Replace any nut that does not turn freely on the stud.
4. If a NEW nut does not turn freely on the stud, replace the 5 studs on the hub. Refer to [Wheel Stud Replacement](#) in order to replace the front wheel studs. Refer to [Wheel Stud Replacement](#) in order to replace the rear wheel studs.

