



It usually takes only minutes to install tires and wheels on your vehicle; but remember, they'll probably be on for 3,000 miles or more, and will roll over a million times before it's time to rotate them. To make those miles as pleasant as possible, you need to install your new Tire and Wheel Package correctly.

NOTE: If your vehicle uses two different tire sizes, be sure to alert your installer.

1. DIRECTIONAL TIRES ONLY

Refer to the "rotation arrow" branding on the tire's sidewall. The arrow indicates the direction in which the tire should turn.

2. ASYMMETRIC TIRES ONLY

All tires should show sidewall branding indicating side facing outward.

3. DIRECTIONAL AND ASYMMETRIC TIRES

Look for "Side Facing Outwards" branding and "rotation arrow" to determine side of vehicle.



BEGIN INSTALLATION

Step 1: Test fit each wheel in its final position. Check for proper fit as described below.

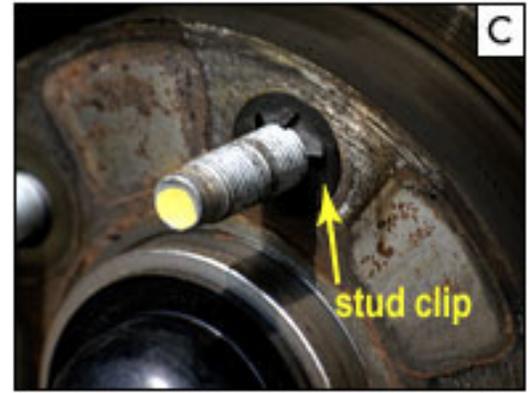
NOTE: If you only purchased wheels, it is imperative that test fitting is done prior to mounting the tires.

The best place to find the correct procedure for tire and wheel removal is in the owner's manual for your vehicle (we use hand tools exclusively; see Photo A). If you don't have a hoist, it may be easier to install new wheel and tire combinations by raising your vehicle slightly (see Photo B), supporting it with jack stands (if available). Be sure to rest the stands or hoist on a flat surface. Then bolt the tires and wheels on the raised car axle.

Step 2: When removing lug nuts or bolts, never use powered impact wrenches of any type. It's best to carefully remove lugs with a four-way wrench or a socket on a breaker bar. An impact wrench may damage the lugs.



ATTENTION: Check the condition of the vehicle's lug studs or wheel bolts as you loosen them. If you feel any resistance or see any roughness after removing the wheels, correct it before reinstalling the wheels. Remove any temporary retaining devices, like stud clips, used to hold brake rotors and drums in place before the wheels were installed at the factory (see Photo C). They may interfere with the flush fitment of your wheels against the brake hubs. If aftermarket wheels have previously been used on the vehicle, verify that the previous wheel's hub centering rings have been removed from the hubs. If your vehicle is equipped with drum brakes and if the drum's outer flange or balance weights protrude further out than the center of the drum, verify that the wheel seats on the hub are not against the drum's outer flange or balance weights. If you have any questions, contact your sales representative.



Step 3: Check the fit of the wheel onto the hub of the vehicle. (Some wheel applications may require the use of a centering ring to create the proper fit onto the hub.) The bolt circle of the wheel must match that of your vehicle and the wheel must make full contact to the mating surface of the hub. If the wheel does not match up to the bolt circle of the vehicle, or the wheel does not have full contact to the mounting surface, please contact your sales representative or our customer service department at 866-507-3786

Step 4: In order to verify that you have matching lug or bolt thread sizes, first install the lug nuts or bolts without the wheel.

Step 5: For the next inspections it will be necessary to temporarily install the wheel by snugging down the lug nuts or bolts in order to verify disc brake caliper clearance. Start threading the lugs with your fingers and tighten them until they are "finger tight." If you feel resistance while doing this, inspect the lug stud and nut (or hub and bolt) to see if the threads are clean or obstructed. If the lug nut or bolt appears obstructed or does not match the thread pitch of your hubs, try another one. If another lug doesn't thread any better, give us a call. We will verify that you have the correct hardware for your application.

NOTE: Do not force your lug nuts or bolts on with a wrench. They should be able to be turned by hand.

If they can't, something is wrong! Please call our customer service department at 866-507-3786. Only after the lugs have been installed by hand until "finger tight" should you snug them down with your four-way wrench or a socket on a breaker bar.

Step 6: Put your vehicle's transmission into neutral and turn each wheel by hand while making certain that the outer edge of the disc brake caliper doesn't touch the inside of the rim or that the side of the caliper doesn't come into contact with the backside of the wheel or the wheel balancing weights.

Once you have completed your test fit, we suggest removing the wheel and applying a thin coating of "antiseize" around the axle hubs to help prevent rust and permit easier removal when it's time to rotate your tires. Do not apply "antiseize" to the lug hardware or studs.

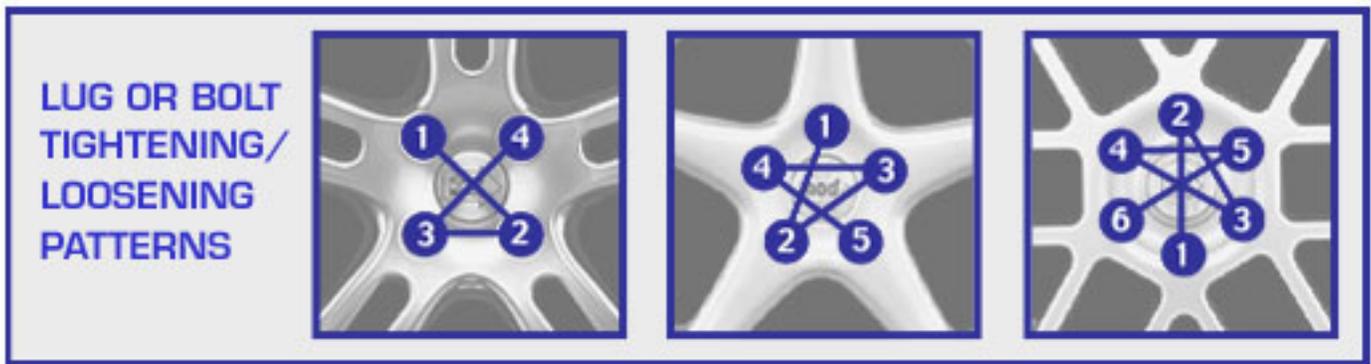
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Step 7: Wheel Lug Nut Torquing

Proper installation requires that the wheel lug torque be set to the recommended specification for your vehicle. These torque specifications can be found in your vehicle's shop manual or obtained from your vehicle dealer. Finish tightening the lugs down with an accurate torque wrench. Use a crisscross sequence until they have reached their proper torque value. Be careful because if you over torque a wheel, you can strip a lug nut, stretch or break a wheel stud, and cause the wheel, brake rotor and/or brake drum to distort.

Hardware Size	Torque in ft/lbs
10mm	45-55
12mm	70-80
14mm	85-90
7/16"	70-80
1/2"	75-85
9/16"	135-145

Size of Bolt or Stud	Number of Turns
14x1.5mm	7.5
12x1.5mm	6.5
12x1.25mm	8
1/2"	8
7/16"	8



NOTE: When installing new wheels you should re-torque them after traveling the first 50 to 100 miles. This is necessary because as the wheels are "breaking in" they may compress slightly allowing their lugs to lose some of their torque. Simply repeat the same torque procedure listed above.

NOTE: Since the thickness of an alloy wheel can differ from Original Equipment wheels, also verify that the threads will be engaged by the lug nuts or bolts. Refer to the chart (above) to determine the number of turns or the depth of engagement typical for your stud or bolt size.

If you have any concerns...CALL US! We will be happy to use our experience to help solve your problem. 866-507-3786

Manufacturer's Warranties

- Merchandise covered by a manufacturer's warranty is sold with the warranty by the manufacturer extended to the purchaser. We will be happy to assist in obtaining fulfillment of a manufacturer's warranty. Other than applicable manufacturers' warranties, there are no warranties, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.