

# Wheel and Tire Installation Instructions

## 1. Identify your type of tires:

### 1.1 Directional Tires

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

### 1.2 Asymmetric Tires

All tires should show sidewall indicating side facing outward.

## 2. Install your wheels and tires

**2.1** 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 you test fit the wheels prior to mounting the tires. Mounted wheels cannot be returned for credit.**

**2.2** Remove existing wheels and tires. When removing lug nuts or bolts, it is recommended that you do not use powered impact wrenches of any type. Remove lugs with a four-way wrench, a socket on a breaker bar, or a Customwheel approved extended lug wrench. An impact wrench may damage the lugs.

**NOTE:** 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. Most automotive stores sell taps and thread repair kits. Wheels must fit flat against the vehicle's hubs. Remove any rust and dirt from the hubs of brake rotors and drums. 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. They may interfere with the flush fitment of your wheels against the brake hubs. The exception to this rule: large bolts holding Hyundai rotors to their hubs should not be removed. 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.

**2.3** Check the fit of the wheel onto the hub of the vehicle. (Some wheel applications may come with centering rings to assist in centering the wheels on the vehicles 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 1-888-266-5177.

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

**2.5** For the next inspections it will be necessary to temporarily install the wheel and hand tighten the lug nuts or bolts in order to verify 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 the customer service department at 1-888-266-5177. 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.

	Size of Bolt or Stud	Number of Turns
<b>NOTE: Since the thickness of an alloy wheel can differ from Original Equipment wheels, also verify that the lug nuts or bolts will engage the threads. Refer to the chart (on right) to determine the number of turns or the depth of engagement typical for your stud or bolt size.</b>	14x1.5mm	7.5
	12x1.5mm	6.5
	12x1.25mm	8
	1/2"	8
	7/16"	8

**2.6** 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.

**2.7 Torque the Lug Nuts**

Proper installation requires that the wheel lugs be torqued 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. Tighten the lugs down with an accurate torque wrench. Tighten the lugs in a star pattern 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.

**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" and they may compress slightly allowing their lugs to lose some of their torque. Simply repeat the same torque procedure listed above.**

**IF YOU HAVE ANY QUESTIONS REGARDING THESE PROCEDURES OR ANY QUESTIONS REGARDING THE INSTALLION OF YOUR WHEELS AND/OR TIRES, PLEASE CALL CUSTOMER SERVICE AT 1-888-266-5177**