WHEEL SPACER/ADAPTER – INSTALLATION INSTRUCTIONS

1. Following your vehicle owner's manual, properly raise the vehicle and support it using adequately load-rated jack stands. Never work on a raised vehicle that is support with a factory emergency, floor or bottle jack.
2. Remove wheels and inspect rotors/drums for any damage or cracks. If any damage is identified do not continue with this installation.
3. Carefully test fit the adapter to the vehicle and wheel to insure the bolt pattern is correct for each side prior to continuing with the installation. DO NOT INSTALL LUG NUTS WHEN TEST FITTING!
4. Remove any visible rust from the mating flange on the vehicle's rotor/drum. Inspect the rotor and wheel mounting flanges for burrs, rivet heads or other obstruction that would prevent a flush seating of the vehicle rotor/drum mounting to both the inner and outer side of the adapter. Remove any retaining clips that may be on the vehicle wheel studs. Improperly seated adapters are hazardous and may cause adapter failure, possibly resulting in a wheel disengaging from the vehicle.
5. If proper seating can be achieved mount the wheel adapter on to the vehicle's studs until it sits flush with the rotor/drum flange. Install the proper open-end lug nuts and torque to specification for the thread size using a star pattern tightening sequence. Thread lock can be used but is not required. DO NOT USE AN IMPACT WRENCH!
6. Place wheel on to the wheel adapter studs until the wheel mounting flange sits flush against the adapter's outer flange. Verify the vehicle's wheel studs or attaching lug nuts do not make any contact to the wheel, if they do remove the wheel and modify the studs by replacing with shorter versions or cutting/grinding/trimming. Seek professional help if you do not feel comfortable making modifications. If the wheel sits flush with no obstructions continue to install the proper lug nuts that match the adapter stud thread size and are the correct type for the wheel and torque to specification for the thread size using a star pattern tightening sequence. DO NOT USE AN IMPACT WRENCH!
7. Check for proper tire clearance in the wheel well, making certain there is sufficient wheel and tire clearance for full steering (lock to lock).
8. If there is no interference the vehicle may be lowered. Once the vehicle is on the ground under full load recheck for adequate tire and wheel clearance and unobstructed lock to lock steering.

Retorque all lug nuts after 50-100 miles of driving. Check torque again every 2-3,000 miles.

LUG NUT INFORMATION

Lug nuts for bolting spacers/adapters to the vehicle:
The lug nuts included are generally meant to be used to bolt the spacer/adapter to the vehicle if the thread size matches the vehicle, if they do not match the vehicle other lug nuts will need to be purchased.

Lug nuts for bolting the wheel to the spacer/adapter:

The lug nuts must have the correct thread size that matches the studs on the spacer/adapter and are the correct style for the wheel.
Seek professional help if you are unable to install properly or are uncomfortable doing so.

IMPORTANT SAFETY INFORMATION

NEVER MODIFY a wheel adapter.
NEVER REMOVE the factory installed studs on a wheel adapter.
NEVER USE an impact wrench for adapter installation.
DO NOT EVER stack multiple adapters on a single wheel.

To avoid excessive loads on a vehicle's suspension components it is recommended that the vehicle manufacturer's original offset be maintained. Excessive positive or negative offset can be dangerous and can cause suspension component failure.

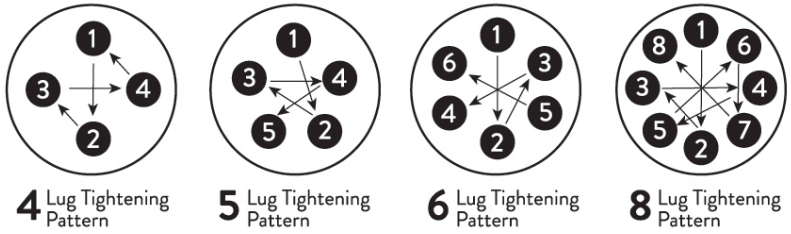
Modified vehicles may not meet local or state requirements for use on public streets/roads/highways/freeways. Always research and adhere to federal, state and local laws regarding the use of wheel spacers/adapters.

The vehicle and spacer/adapter manufacturer/distributor's assume no responsibility or liability for damages, repair costs or incidental charges incurred as a result of changes made to the vehicle, improper installation or use.

Adapters/Spacers that have been mounted to a vehicle and/or wheels are not eligible for return.

See back page for lug nut torque and bolt pattern measuring

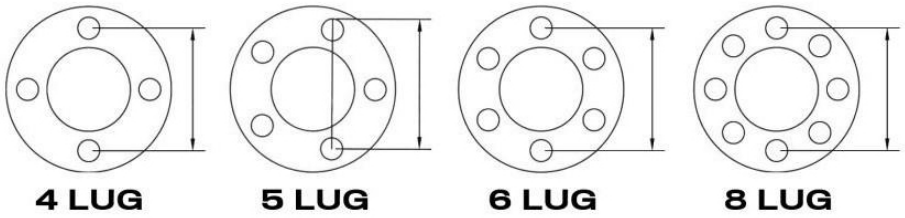
Lug Nut Torque Sequence



Lug Nut Torque Guide

Hardware Bolt or Stud Size	Typical Torque Range in Ft/Lbs	Minimum Number of Turns of Hardware Engagement
12 x 1.5 mm	70 - 80	6.5
12 x 1.25 mm	70 - 80	8
14 x 1.5 mm	85 - 90	7.5
14 x 1.25 mm	85 - 90	9
7/16 in.	70 - 80	9
1/2 in.	75 - 85	8
9/16 in.	135 - 145	8

Bolt Pattern Measurement Guide



Four, six and eight lug bolt patterns are measured from bolt center to bolt center while five lug bolt patterns are measured from the center of the first stud to the outside edge of the third stud. Measuring center to center on a five lug bolt pattern will result in the wrong size.

Wheel Spacer & Adapter Installation