

# Orion Motor Tech

## Wheel Spacers & Adapters Installation Guide

Note: please check the “user guide” and “application guide” before you place this order!



### How To Install Auto Wheel Spacers

**Degree of Difficulty:** 4 out of 10

**Time Required:** 20-30 minutes per wheel

**Disclaimer.** Wheels, tires, and wheel spacers/adapters are Safety Critical Parts of your vehicle. DO NOT ATTEMPT installation, service, or replacement of your wheels, tires, or wheel spacers/adapters unless you are a Qualified Mechanic. These instructions are provided as a general guide, and are not specifically written for your vehicle. Always follow vehicle manufacturers installation instructions. INSPECT and VERIFY proper alignment and function

of your wheels and tires before driving. TEST the performance of your wheels, tires, and wheel spacers/adapters in a controlled environment before driving. DO NOT OPERATE vehicle if wheels, tires, or wheel spacers/adapters are damaged or worn.

### **Things You'll Need to do this Task**

Gloves (optional)

Automotive Jack

Jack Stand (optional)

Tire iron or breaker bar with sockets

Torque wrench

Wire brush

Degreaser

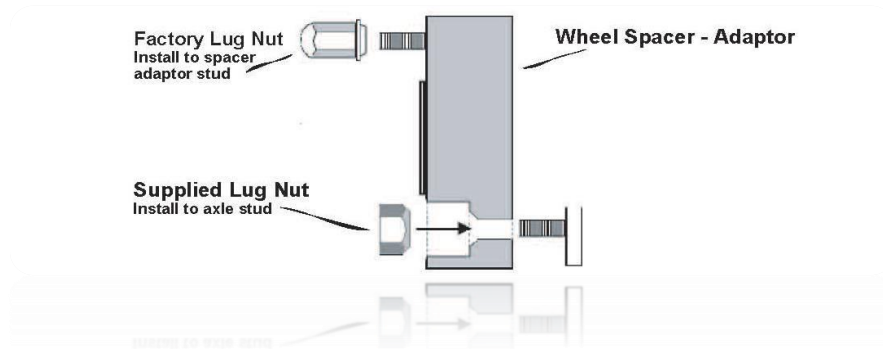
Shop Rag

### **How to Install Auto Wheel Spacers - 8 Steps**

- 1.** Always make sure you are installing wheel spacers/adapters that are designed for your vehicle. Never use wheel spacers/adapters which do not fit properly. Download the Sixity Auto Wheel Spacer Selection Guide.
- 2.** Park your vehicle on a hard, level surface. Break loose, but DO NOT REMOVE, the lug nuts that fasten the wheel to the hub with the tire iron or breaker bar BEFORE raising up your vehicle.
- 3.** Slide an automotive jack under the vehicle at an appropriate lift point and raise the vehicle high enough to lift a single tire completely off the ground. Place a jack stand under your vehicle, and lower your vehicle on to the jack stand. Never work on or under a vehicle which is lifted only with an automotive jack, because it can easily fall or tip, **causing injury or death.**
- 4.** Finish removing the lug nuts on the raised tire. Slide the wheel off the hub and set it aside. Spray degreaser on the lug studs and wipe them down with a rag. If the hub is dirty, rusted, or pitted use a wire brush to clean up the surface. Wipe down the entire hub surface, making

sure it is clean and smooth.

**5.** If you are using Loctite to secure your spacer/adaptor, place a drop of loctite on each wheel stud. Place your wheel spacer/adaptor on to the hub, with the holes in the spacer lined up with the wheel studs, making sure the wheel spacer sit firmly against the hub. Attach the wheel spacer to your hub using the included bolts. Tighten the nuts that hold the spacer in place to the appropriate torque specification using a torque wrench. Do not overtighten or under-tighten the nuts. If you have difficulty tightening the nuts because the hubs turn, have an assistant gently press the brake pedal to prevent the hub from turning.



**6.** Slide the wheel onto the studs protruding from the wheel spacer/adaptor so that it sits firmly against the spacer/adaptor. Install your original lug nuts and tighten them to the appropriate torque specification. Tighten bolts in a star pattern to ensure proper seating of the wheel onto the spacer. Raise the vehicle with the automotive jack, remove the jack stand and lower the vehicle onto the newly installed wheel.

**7.** Repeat steps 3-6 for each wheel.

**8.** Double check that all lug nuts are tightened to the manufacturer's specification with a properly calibrated torque wrench in a crisscross, star pattern. It is always a good idea to routinely check the tightness of the lug nuts, especially soon after installation.

