

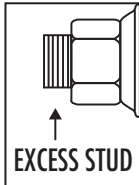
**INSTALLATION OF WEDGE LOCK MOUNT SYSTEMS** QUESTIONS? CALL 1-800-982-1180

**TOOLS:** 1/2" Socket/Ratchet, 1/2" Ratchet Wrench or Wrench, 7/16" Wrench

**VERY IMPORTANT**  
**Read & Understand These Steps Before Installation!**  
**BEFORE YOU BEGIN**

There Is **No Need To Remove Any Lug Nuts** For Installation.

Hub Piloted wheels must have a minimum of 1/4" of excess stud sticking out past the wheel lug nuts.



Before starting, make sure you have the correct Wedge Lock Mounting System for your wheels.

**33MM HUB PILOTED SYSTEM**

33mm Hub Piloted Wheels.

**1 1/2" STUD PILOTED SYSTEM**

1 1/2" Stud Piloted Wheels.

Simulator Kit: RWWLH2003AXX  
 Bracket Model No.: RWH28408

Simulator Kit: RWWLS2003AXX  
 Bracket Model No.: RWS27404

**SETTING BRACKET DEPTH**

**22.5x7.5 Wheels — Lowest Position**

**22.5x8.25 Wheels — Center Position**

**22.5x9.00 Wheels — Highest Position**

Depending on your wheel size set bracket accordingly:

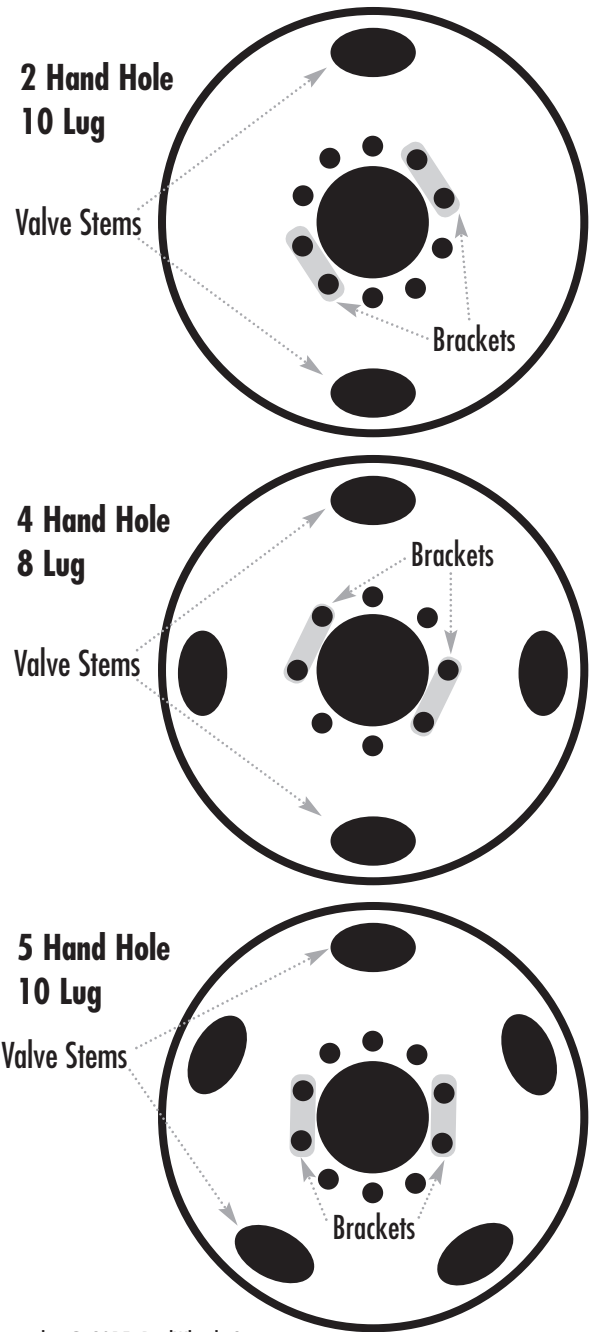
- 22.5 x 7.5 — lowest position
- 22.5 x 8.25 — center position
- 22.5 x 9 — highest position

Then securely tighten two nuts on back of bracket.

**Step 1. Location of wheel valve stem and determining which wheel studs to attach the Wedge Lock Brackets to.**

Before attempting to install the Wedge Lock Brackets and the simulators, look at your wheels to see where the valve stems are located. (See Fig. A) Once you locate the valve stems this will then determine which four wheel studs to attach the Wedge Lock Bracket to. (See Fig. A) **Note:** The Wedge Lock Brackets should be positioned opposite of the valve stems, this way the air valve tabs on the simulator will not be positioned too close or too far from the valve stems.

**FIGURE A**



## For Hub Piloted Wheels Use The Directions Below

### Step 2. Positioning Bracket On Hub Piloted Wheels



FIGURE B1 — HUB PILOTED

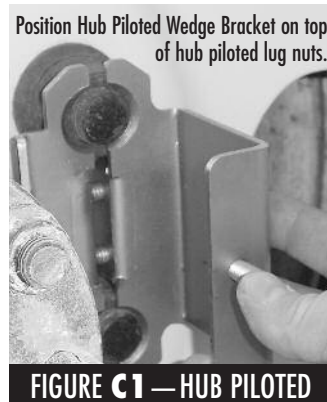


FIGURE C1 — HUB PILOTED

Loosen the 5/16" bolt on the side of the Wedge Lock Bracket. The Hub Piloted Wedge Bracket will slide on top of hub piloted lug nuts (See Fig. B1 and C1).



FIGURE D1 — HUB PILOTED



**Important:** Bracket must wedge itself into the excess thread of the studs.

FIGURE E1 — HUB PILOTED

### Step 3. Tightening Bracket On Hub Piloted Wheels

Push and hold against the bracket making sure it is firmly on top of the wheel lug nuts. (See Fig. D1) Then hand tighten the 5/16" bolts to bring the two halves of the bracket closer together, and wedging itself into the excess thread of the studs. **NOTE:** One side of the bracket may raise up a little depending what thread of the stud it wedges into, this is normal. Next with a 1/2" wrench (or ratchet wrench) begin tightening the 5/16" bolt. (See Fig. E1) Make sure the bracket is flat across the face and wedging into the threads of the wheel studs, tightening the bolt until the wedge lock bracket is securely tight. Repeat procedure for other side directly opposite. (See Fig. F1)

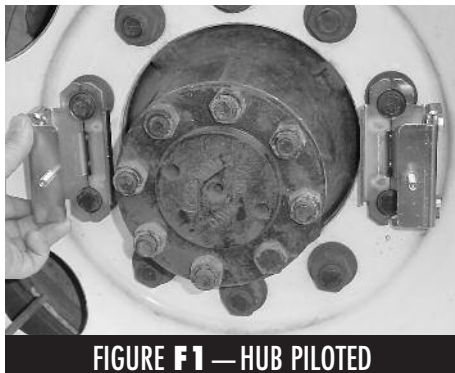


FIGURE F1 — HUB PILOTED

## For Stud Piloted Wheels Use The Directions Below

### Step 2. Positioning Bracket On Stud Piloted Wheels

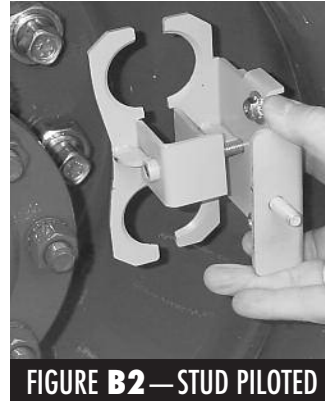


FIGURE B2 — STUD PILOTED

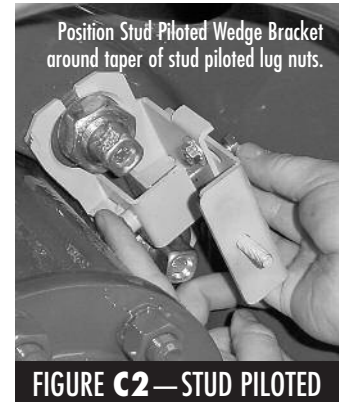


FIGURE C2 — STUD PILOTED

Loosen the 5/16" bolt on the side of the Wedge Lock Bracket. The Stud Piloted Wedge Bracket will slide around the bottom taper of the stud piloted lug nuts (See Fig. B2 and C2).

**Note:** For some stud piloted wheels it may be necessary to separate the bracket completely in order to position the bracket under the lug nut.

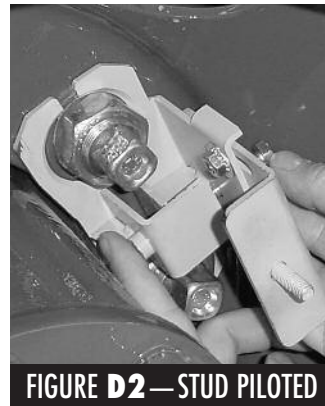


FIGURE D2 — STUD PILOTED



FIGURE E2 — STUD PILOTED

### Step 3. Tightening Bracket On Stud Piloted Wheels

Push and hold against the bracket making sure it is against the wheel and around the taper of the stud piloted lug nuts. (See Fig. D2) Then hand tighten the 5/16" bolt to bring the two halves of the bracket closer together, and wedging itself around the lug nuts. Next with a 1/2" wrench (or ratchet wrench) begin tightening the 5/16" bolt. (See Fig. E2) Make sure the bracket is secure and wedging around the lug nuts. Repeat procedure for other side directly opposite. (See Fig. F2)



FIGURE F2 — STUD PILOTED



## Steps 4 Thru 7 Apply To Stud And Hub Piloted Wheels

### Step 4. Installing Air Valve Extensions

If you are using SS Braided Air Valve Extensions, begin by removing the valve caps off the wheel valves. Then install the straight SS Braided Extension onto the inner wheel air valve. (See Fig. G)

**Note:** Make sure to install the SS Braided Valve Extensions directly to the wheel air valves. Remove any existing solid valve extensions.

**Note:** A small amount of air will escape during installation until valve seal is made. Once the air stops leaking, a 1/2" wrench may be used to snug the extension to the valve stem. One full turn is all that is required. (**Important:** The valve seal may be damaged if you over tighten.) Next, attach the air valve extension with the U shape end to the (outside wheel) valve stem. After installation, check all fittings to insure there are no leaks. (See Fig. H and I). **Note:** See Fig J for final position of Wedge Lock Brackets and Air Valve Extensions.



FIGURE G



FIGURE H



FIGURE I

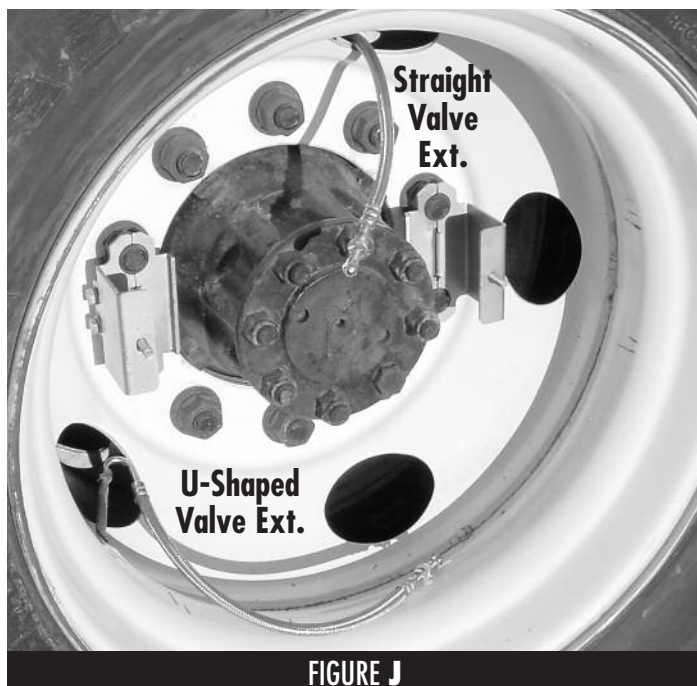


FIGURE J



FIGURE K



FIGURE L

### Step 5. Installing The Simulator Onto The Bracket And Wheel

Hold the simulator up to the wheel and align the two 3/8" holes of the simulator with the two 5/16" threaded studs on the brackets. (See Fig. K) **Note:** If the simulator does not line up with the two bracket studs, it may be necessary to slightly adjust the bracket position by slightly loosening or tightening the 5/16" bolt on the bracket.) At the same time from the back-side of the simulator put the braided air valve extensions into the two holes of the simulator where the air valve tabs are located. From the front side of the simulator pull the braided extensions through the holes where the valve tabs are located (See Fig. K and L). Continue to place the simulator onto the bracket studs until the simulator is fully onto the bracket studs and wheel. (See Fig. M).

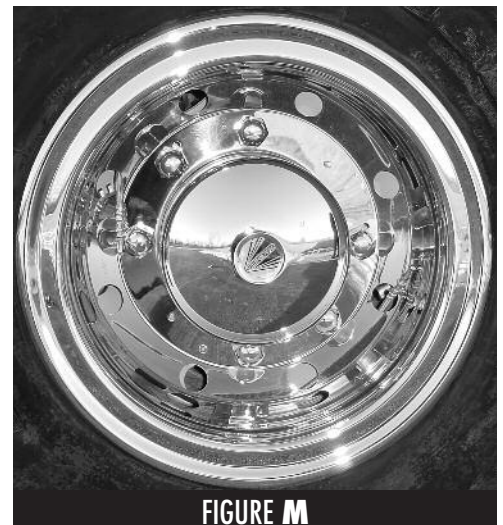
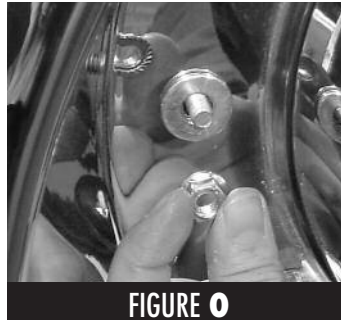
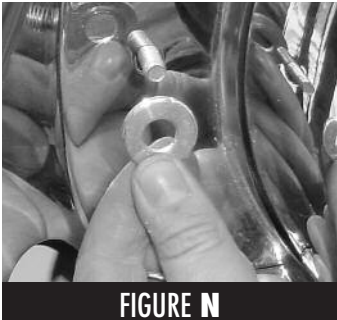
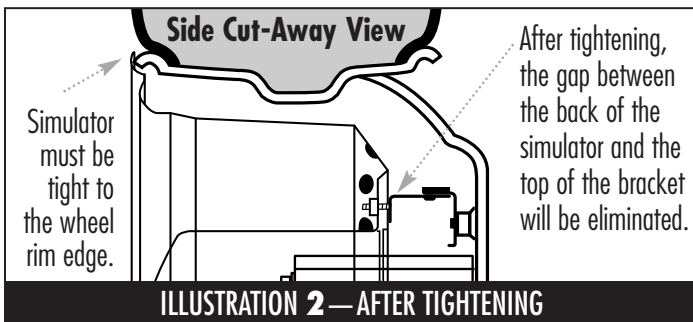
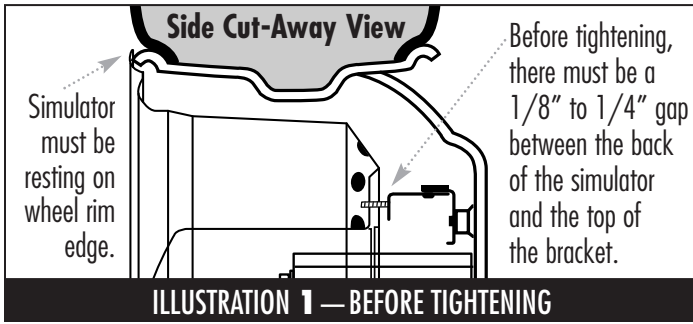


FIGURE M

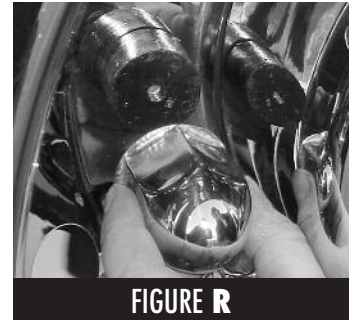
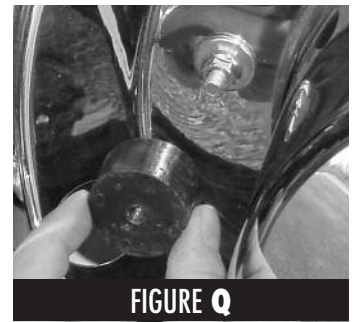
**Important:** At this point the simulator will not rest against the bracket. There must be a 1/8" to 1/4" gap between the back of the simulator and the top of the bracket. (See Illustration 1 below.) If there is not a gap, remove simulator and adjust the height of the bracket. Next place a flat washer and 5/16" serrated nut onto each bracket stud, and begin alternating tightening these 5/16" nuts. (See Fig. N, O and P) As you tighten the 5/16" serrated nuts, the simulator will draw down to the bracket, the gap between the back of the simulator and the top of the bracket will then be eliminated. At this point, the simulator must be tight to the rim edge and true and even all the way around the rim edge. (See Illustration 2 below.)



## Step 6. Installing Lug Nut Covers

After the 5/16" serrated nuts have been tightened securely, install lug nut covers in the following order (See Fig. Q and R):

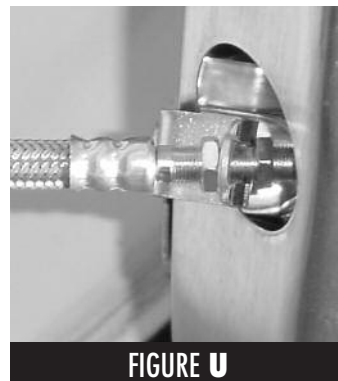
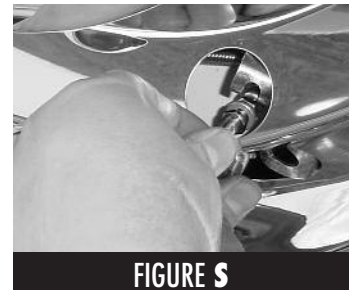
- Thread the poly-mounts onto the excess portion of the bracket studs until they are tight over the previously tightened 5/16" serrated nuts.
- Next firmly push the Stainless Steel Lug Nut Covers onto the poly-mounts.



## Step 7. Attaching Braided Extensions To Valve Tabs

Once the simulator is tightened to the wheel, push the excess braided extension back into the simulator hole and clip the threaded portion of the braided extension (between the two extension nuts) onto the Air Valve Tab (See Fig. S and T).

**Note:** One of the valve nuts should be on the backside of the Air Valve Tab and the other valve nut should be on the front side of the Air Valve Tab. (See Figure U). Then tighten the outer nut on top of the Air Valve Tab with a 7/16" wrench. (See Figure V). You are now finished.



**IMPORTANT:** We recommend that the wheel simulators are checked and inspected periodically to make sure that they are tight and secure to the wheels. If necessary retighten the mounting bolts and nuts.

**Reverse process to remove simulators.**