

TWIST & LOCK AERO COVERS FOR REAR DUAL DRIVE AXLES INSTALLATION GUIDE



ROAD CHOICE®

Note: This Twist & Lock Mounting System is designed for axles with 7" diameter bolt circle with 5/8" studs (WC9058 Bracket) or 3/4" studs (WC9034 Bracket).

BEFORE INSTALLATION

Inspection: Before installation, inspect all parts for shipping damage. If any of the parts appear damaged or questionable, **DO NOT INSTALL!** Contact your dealer or our facility for a replacement part or assistance. Once a product is installed, it cannot be returned because of shipping damage.

Cleaning: Before installing Aero Covers, clean axle nuts and studs, especially the excess thread of the axle stud.

Important: Read and understand all installation instructions prior to installation. If any part of the instruction seems unclear, contact our office for assistance.

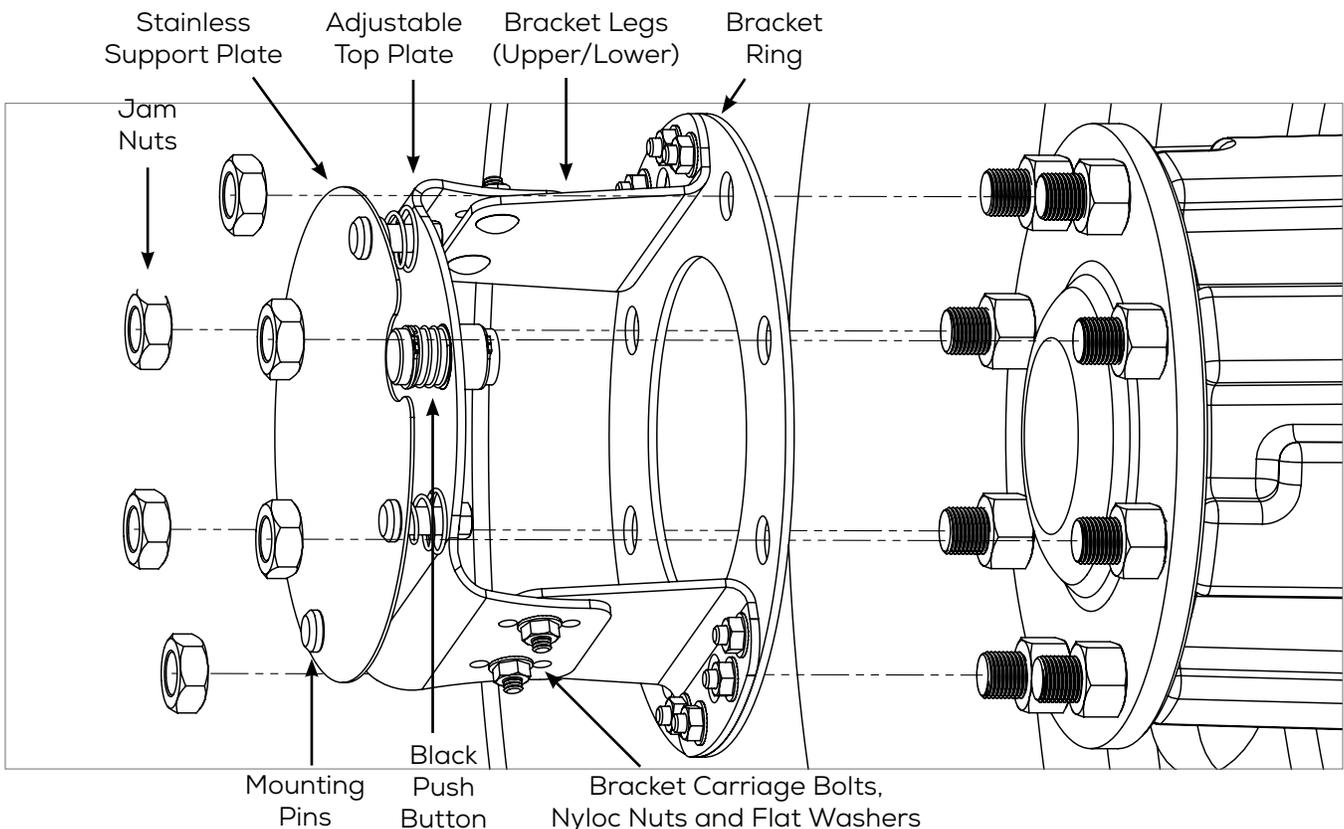
AFTER INSTALLATION

Inspection: After the Aero Covers have been installed they should be inspected regularly, verifying they are tight and secured to the wheel. Every two weeks the covers should be removed, and an inspection of the wheels, Aero Covers and mounting brackets should be performed. Make sure all screws and nut connections are tight. Check brackets for excessive wear, hairline cracks, etc. If air valves are installed, they should be inspected for fraying and excessive wear as well as secure connections with the rim air valves. During this inspection, clean the back of the Aero Cover and wheel.

Routine Cleaning: On a regular bases we recommend the entire cover be washed with mild automotive car or truck wash soap and water, and then waxed. Use of harsh chemicals and strong acid based soaps should never be used.

Very Important–Aero Clear Covers: Certain chemicals should not come in contact with the Polycarbonate clear plastic of the Aero Clear Covers. Additionally the use of Loctite and other forms of chemical thread lock should never come in contact with the Aero Clear plastic, it will cause the plastic to become brittle and crack.

TWIST & LOCK BRACKET ASSEMBLY COMPONENTS



IMPORTANT—READ AND FOLLOW THESE NOTES BEFORE PROCEEDING TO STEP 1

- There must be a minimum of 3/8" of excess stud sticking out past the axle nuts—Otherwise there will not be enough threads to hold the bracket to the axle. If there is less than 3/8" excess stud, you will need to use our under-axle-nut mounting system. Call Factory for more information.
- It is not recommended to use air or electric impact wrenches when installing the jam nuts onto the bracket ring of the Twist & Lock bracket assembly. If there is minimal excess threads, impact wrenches could damage the threads.
- All factory axle nuts must be at the same height—Otherwise the bracket will not be level.
- The excess threads of the axle studs must be in good condition—Clean and free from paint, debris excess rust, and completely useable with no damage to the threads. If threads are damaged, make sure they are repaired before installing the Twist & Lock mounting assembly.

STEP 1: ATTACH BRACKET RING TO AXLE STUDS

Begin by placing the Twist & Lock Bracket Assembly onto the eight axle studs so the bracket ring rests on top of the eight axle nuts. (See Illustration 1A and 1B)

Then thread six 5/8" jam nuts onto the six axle studs as they are located and shown in Illustration 1B. Using a 15/16" socket and ratchet, securely tighten the six 5/8" jam nuts to bracket ring. Tighten to 45 ft.lbs. (See Illustration 1B and 1C)

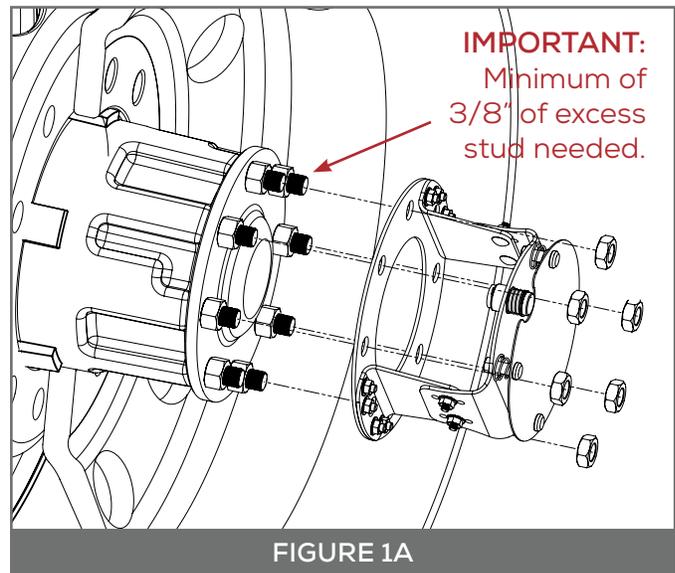


FIGURE 1A

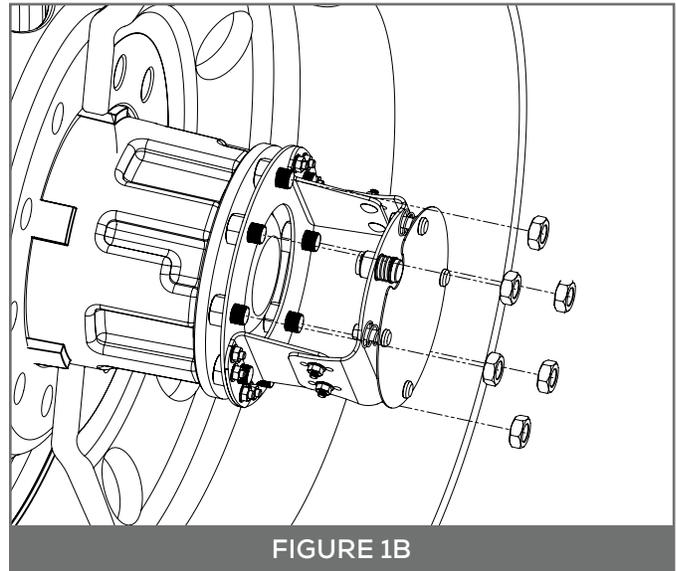


FIGURE 1B

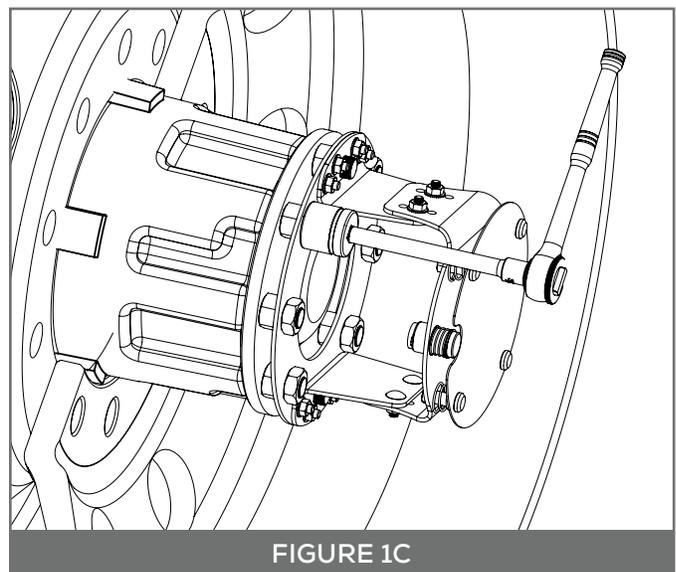


FIGURE 1C

NOTE: Brackets come preassembled at the center hole. This is the correct setting for most applications. Follow the instructions below to adjust bracket according to your wheel.

IMPORTANT: For preassembled brackets, be sure to check all nuts and retighten as needed.

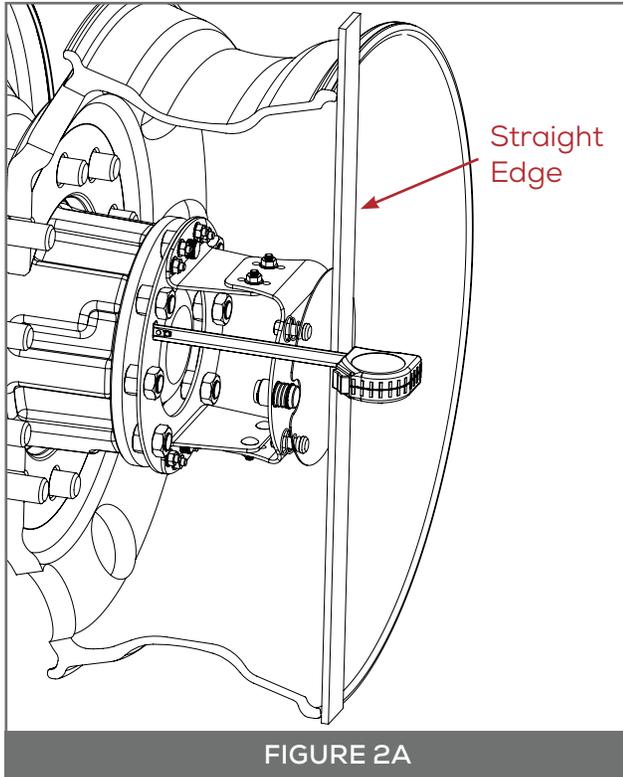


FIGURE 2A

STEP 2: MEASURE RIM TO BRACKET RING DISTANCE TO DETERMINE TOP PLATE HOLE SETTING

Place the straight edge (included with the Aero Cover Kit) across the rim lip of the wheel as shown in Illustration 2A. Next using a tape measure or ruler, measure from the top of the bracket ring to the bottom edge of the straight edge.

Referring to Illustration 2B, if your measurement is:

- between 4 $\frac{1}{4}$ " to 4 $\frac{3}{4}$ " use Hole Setting 1
- between 4 $\frac{3}{4}$ " to 5 $\frac{3}{16}$ " use Hole Setting 2
- between 5 $\frac{3}{16}$ " to 5 $\frac{5}{8}$ " use Hole Setting 3

Once the hole setting is determined, place the $\frac{1}{4}$ " carriage bolts into the two square holes on the back side of the bracket legs and into the those two round holes of the top plate based on your measurements above. (See Illustration 2C)

Then using two $\frac{1}{4}$ " Nylok nuts and flat washers, thread onto the $\frac{1}{4}$ " carriage bolts, alternate tightening to 9 ft.lbs. using a $\frac{7}{16}$ " socket or wrench. (See Illustration 2C) Repeat this process for the other bracket leg.

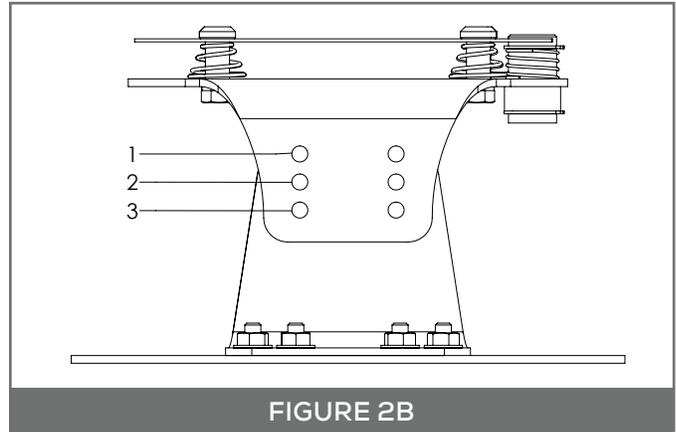


FIGURE 2B

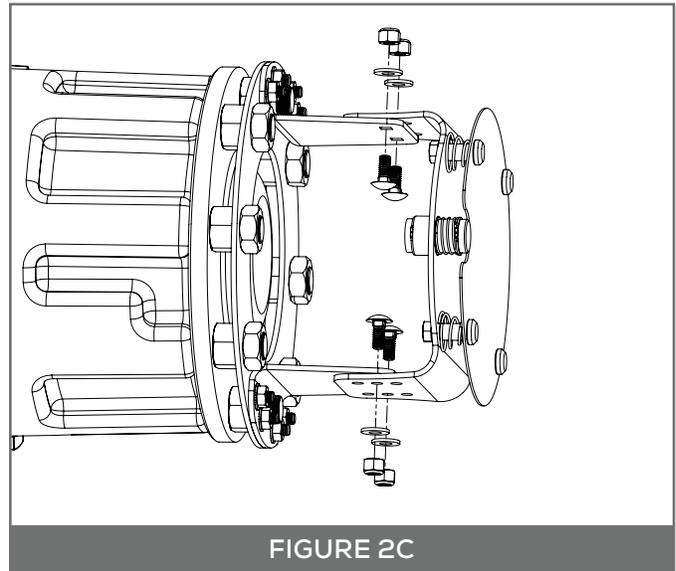


FIGURE 2C

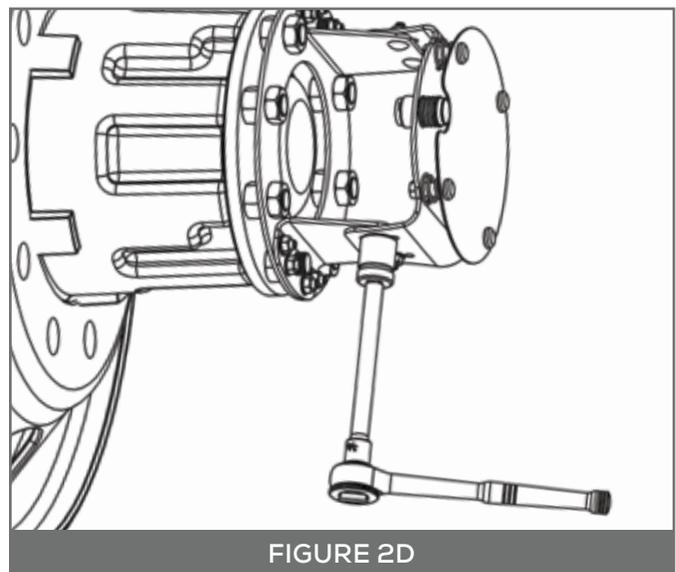


FIGURE 2D

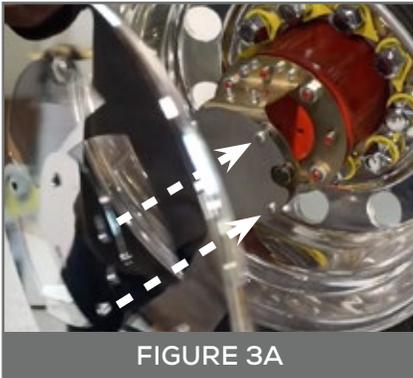


FIGURE 3A

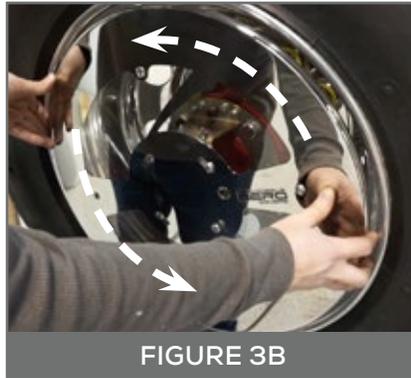


FIGURE 3B



FIGURE 3C

STEP 3: ATTACHING AERO COVER TO MOUNTING SYSTEM

Note: The Aero Cover keyholes are offset. The cover can only be installed one way.

Begin by locating the black push button on the top plate. Place the Twist & Lock Aero Cover so the four keyway hole slots and one 1" button hole are oriented so the larger opening of the keyway holes line up with the four Twist & Lock Mounting Pins and the 1" hole is oriented so it's in between two keyway slots. (See Illus. 3A)

Then evenly press onto the face of the Aero Cover so the heads of the four mounting pins heads go past the keyway holes. Then turn the Aero Cover clockwise into the keyway slots until the black button pops into the 1" hole in between two pins.

Very Important: Button must pop into the 1" hole, otherwise the wheel cover will not be attached to the mounting bracket. If the button does not line up and engage with the 1" hole, rotate the cover until it does. (See Photo 3D)

Note: If the Aero Cover is hitting the rim or the Aero Cover is sticking out past the lip of the rim more than 1/2", remove the Aero Cover and move the top plate to the next set or holes, in or out, depending on which direction you want the Aero Cover to move.



FIGURE 3D

EASY THREE STEP REMOVAL



FIGURE 4A

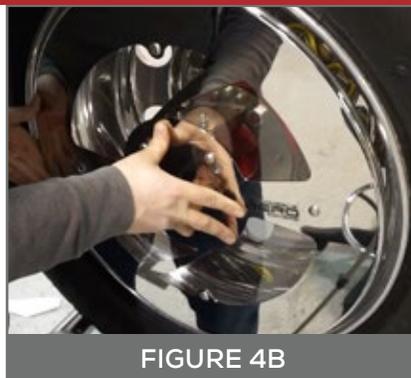


FIGURE 4B



FIGURE 4C

STEP 4: REMOVING AERO COVER FROM MOUNTING BRACKET

To remove the Aero Cover, push in the black button, at the same time push against the center of the Aero Cover until the Aero Cover is below the head of the 4 pins in their keyway slots. (See Illustration 4A and 4B) Rotate counter-clockwise (See Illustration 4C) until the head of the pins line up with the four round clearance holes. Then the cover will disengage from the Twist & Lock bracket and can be removed. (See Illustration 4D)

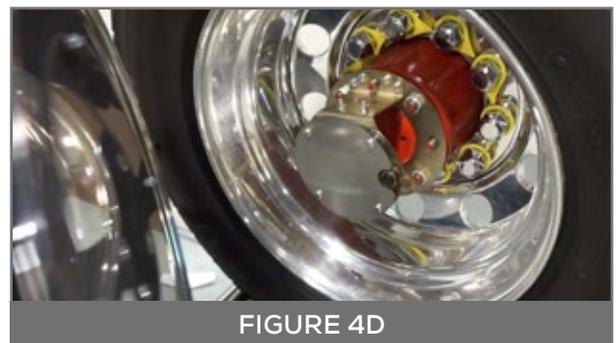


FIGURE 4D

