



SINGLE BEAD LOCK MOUNTING INSTRUCTIONS

Failure to follow instructions for mounting bead locks may damage bead lock rings and or the bead bundle of the tire.

Required Tools:

- Anti-seize
- 5/16" 12-point socket
- Torque Wrench
- Socket Extension
- Caliper

IMPORTANT! Before Attempting to Mount your tires - measure the bead bundle of each tire. The bead bundle should measure a minimum of .600" to .625" thick. If the tire bead bundle is thinner than .600" there will not be enough crush on the bead bundle to seal and or allow the tire to spin on the rim . If it is less than .600" exchange the tire for the one that is in spec.

Step 1

Important! - Verify Bead Bundle Thickness.

A tire needs to have .100" to .120" bead crush to seal and grip properly. Crush is the amount the rings will squeeze the bead bundle of the tire. Billet Specialties bead lock rings are precision machined to be .500" when fully closed.

The tire needs to be at least a minimum of .600" or thicker for it to seal and not leak or slip between the bead lock rings. Occasionally some tires may have variances in the bead that are less than .600" if your bead bundle measures less than .600" check the other side and use that side for the bead lock or exchange the tire for one that is within spec.

Measure the entire circumference of the bead bundle with your caliper.

Record the thinnest measurement you have and write it down in a decimal format.

Next subtract .500" from your measurement. If it is .100" or larger you are good to go. If not, there is not enough "crush" and the tire will leak or slip.

Step 2

Once the bead bundle has been verified and inspected it is time to mount the tire.

Place the tire flat on the ground with the side that will have the bead lock facing down. Next, push the front half of the rim (bead lock side) into the tire. Start at an angle and work the rim into the tire. Push the rim into the tire as far as possible, the inner bead lock ring should sit flush with the tire bead. Sometimes it may be necessary to use a lubricant - if you do not have access to a tire mounting lubricant use dish washing soap such as Dawn and water. Do not use silicone or a petroleum-based lube as this will damage the tire and or make it slip. Tires vary on how hard or easy they are to mount and many things contribute to this such as nylon beads, steel beads, wheel width and correct tire size for the width of the rim.

Step 3

Prepare the tire and hardware

Make sure there is not any rubber "flash" on the inside of the bead bundle. The bead bundle should sit nicely on the "shelf" of the bead lock ring without any excessive rubber that can fold over and interfere with the seal. Trim away any flash with a sharp knife. Excessive flash can cause a leak or cause difficulty getting the bead lock ring to clamp properly.

Next prepare the fasteners. Install washers on each fastener then apply anti-seize to the threads and back of the washer.

Step 4

Install Bead Lock Ring

The use of pneumatic or electric assisted tools is not recommended - if you have to use one - only start the fasteners down to touch the tire. Do not use for final tightening!

Position bead lock ring over the inner bead ring, aligning the holes with the inner ring. Install the first four bolts (finger tight) at 12, 6, 3 and 9-o'clock to engage the tire bead. Check the tire bead to ensure it is still located in the "shelf". Install the balance of the hardware only finger tight to engage the tire bead.

Step 5

Tightening procedure

Set torque wrench to 15 ft lbs. In a star pattern tighten each bolt 2-3 full turns until all fasteners have reached 15 ft lbs.

Next set torque wrench to 18 ft lbs. and repeat star pattern. Do not exceed 18 ft lbs.

Step 6

Air up to seat rear bead. Finish by adjusting tire to your desired pressure. Balance wheel and tire assembly as normal. Now is a good time to make sure both tires have the same roll-out.

Re-Check Torque after first pass.