

TRAILREADY HD SERIES BEADLOCK WHEEL INSTALLATION PROCEDURES

WARNING: Bead lock Wheels are for off-road use only, are not D.O.T. approved, and are not intended for on highway use.

Parts included: example is HD17

- 1) Wheel
- 2) Aluminum Clamp Ring
- 3) 24 ea. 1-1/4" 5/16" grade 8 bolts
- 4) 24 ea. Plated 5/16" Washers
- 5) 1 ea. Valve stem

Tools Required:

- 1) 1/2" socket and ratchet
- 2) Valve Stem Install tool
- 3) Two dull pry bars
- 4) Soap
- 5) Valve stem core remover

IMPORTANT NOTE:
BEFORE YOU MOUNT YOUR TIRES TO THESE WHEELS

CHECK FIT THE WHEELS TO YOUR VEHICLE AND CHECK FOR PROPER FIT. CHECK FOR INTERFERENCE WITH BRAKE CALIPERS. CHECK FOR INTERFERENCE WITH BRAKE RETAINER CLIPS AT THE WHEEL STUD AND BALANCE WEIGHTS ON THE DRUMS.

Step 1 Installing the Valve Stem

Remove the two nuts, steel washer and one rubber gasket from the valve stem. Install stem in wheel from the outside (finished side) of the wheel. Push on rubber gasket followed by steel washer with the domed side away from the gasket. Thread on one nut and tighten until rubber gaskets begin to bulge. DO NOT OVER TIGHTEN. Thread on the second nut and tighten against the first without over tightening the first. Back out and reinstall the valve core to insure it is tight.

Step 2 Installing the inside tire bead

Set wheel face up on a solid surface or 5 gallon bucket. Use a soapy solution to lubricate the back bead of the tire.

Push the tire onto the rim so that half of the bead is pushed into the dropped well of the center of the rim. Apply steady pressure and work your way around the bead until the tire drops onto the wheel. If it is necessary to use tools to help the tire onto the rim, take care not to damage the tire.

Step 3. Installing the outside tire bead.

Center the bead of the tire over the stepped bead lock edge. On most applications the tire will fit easily over the step. If the tire bead does not drop over the step easily, apply a liberal amount of soap solution to the bead.

Step 4. Installing the Clamp Ring.

With the pocketed holes facing away from the tire, index the valve stem relief to the valve stem and center all the clamp holes over the wheel bolt flange holes. Using a cross hatch pattern, tighten all bolts, in steps a few ft.lbs. at a time, working your way around the clamp until 20 ft.lbs. is achieved. Depending on the thickness of the bead on your tire, you should have no gap or an even gap between the wheel bolt flange and the back of the clamp ring **

It is normal for the clamp to distort into a slight cone shape when properly tightened. DO NOT EXCEED 20 FT.LBS ON THE BEADLOCK BOLTS. DO NOT ALLOW THE END OF THE STARTER BOLTS OR BEADLOCK BOLTS TO DRIVE INTO THE WHEEL. THIS WILL VOID YOUR WARRANTY, AND CAN DAMAGE THE WHEEL

**** If the thickness of the tire bead, at 20 lbs ft., leaves a gap between the rim and ring, you will have an improper assembly, the result of which is potentially going to fatigue the bolts over a period of time and cause them to break. We offer 3/16" spacers to correct this problem.**

Step 5. Inflate the tire to the desired air pressure. Do not exceed the tire manufacturers recommended air pressure.

CAUTION: UNDER NO CIRCUMSTANCES IS THE TIRE TO BE INFLATED WHEN THE CLAMP RING IS NOT PROPERLY SECURED PER ALWAYS REMOVE VALVE STEM CORE BEFORE REMOVING CLAMP RING.

Operation and Maintenance

AFTER YOU MOUNT YOUR TIRES PER THE INSTRUCTIONS PROVIDED MAKE SURE YOUR WHEELS ARE PROPERLY TORQUED.

Use the dry wheel lug torque values specified in the vehicle's owner's manual, shop manual or obtained from the vehicle dealer/service provider. The chart below lists typical torque values that should only be used temporarily until the vehicle's exact torque values can be confirmed. Since the thickness of an alloy wheel can differ from Original Equipment wheels, also verify that the lug nuts or bolts will engage the threads. Refer to the chart below to determine the number of turns or the depth of engagement typical for your stud or bolt size.

Lug Stud Size	Typical Torque Range 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

Trailready Beadlock wheels are designed for extreme off highway use. When properly mounted and maintained, they will provide years of trouble free use in the most extreme off-highway environment. It is recommended that the operator visually check the beadlock bolts after each use. In any beadlock system, torque from the loads placed on the tire is transferred through the beadlock clamp to the bolts and can cause even grade 8 bolts to break from time to time. When changing tires, do not reuse existing hardware.

NEVER ADJUST TORQUE ON BEADLOCK BOLTS WHILE TIRE IS INFLATED. NEVER RE-TORQUE BOLTS AFTER INITIAL INSTALLATION. IF BOLTS COME LOSE, REMOVE THE VALVE CORE AND REPEAT STEP 4 WITH NEW BOLTS.

HD REVISION 2: 7/23/13

