



www.bro-tek.com



RK series /M14 Lug Bolt



Bro-Tek@hotmail.com



1. **Introduction:**

A. Proud Owner:

. You are now the proud owner of a Bro-Tek Wheel Spacers. These Wheel Spacers are made for your tractor front axle. Please read these instructions, before installing the Wheel Spacers. Wheel Spacers are bolt-on item. Unit will be shipped complete in a box, all hardware included.

B. Feedback:

. We would love any feedback that you could give us (Positive/Negative), to improve our product line. Please email us your comments/pictures too: bro-tek@hotmail.com or you can reach us at www.bro-tek.com

2. **Safety Precautions:**  **Important Safety**

- A. Park on a firm level area.
- B. Stop engine, set brake, remove key and wait for all moving parts to stop before servicing, adjusting or unplugging.
- C. Block up before working beneath unit.
- D. Set the Park on & engage the 4 wheel drive.

3. **Tools/torque/Parts required:**

- A. Wrenches or socket (3/4")
- B. Torque wrench (capacity rating range 0-130 Lb-Ft)
- C. Floor Jack & Jack stands (proper rating capacity)
- D. Loctite, Medium Strength Thread locker (Blue)

4. **Assembly Instructions:**



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A. Once you have followed the safety precautions & have removed the Wheel Spacers from its packaging, please take notes of all the parts & follow the assembly instruction.

B. Free up work place of all disturbances & clutter. Take your time installing it (This can be easily be done by one person in 15 to 35 minutes).

C. Before lifting the tractor with the jack, break loose the nuts on the rear wheels.

D. Secure down & lock the front end loader, now it time for the floor jack. (Ref to owner's manual)

⚠ Jack stands must be stable/secure place on the tractor & ground.

E. It's the time to remove the tire.

⚠ **Caution** if you have loaded tires and haven't taken them off before then beware they can be VERY heavy. Make sure that the jack stands are stable before removing the wheel.

F. To install the spacers, you may need a long bar (if the hand brake is not strong enough) to hold the axle from turning. We found that a 2-3feet piece length of 2x4 lumber places sideways works best. Careful not to damage the wheel spacers stud /treads



The factory bolts treads are 14mmx1.5 tread, we have supplied new Lug bolt 14mmx1.5 use these to install the spacer to the axle

⚠ **Important** the OEM lug bolt are not long enough, do not reuse these.

⚠ The bolts have a tapered end, make sure only tapered bolts are used to install the spacers to the axle.

⚠ Please take the time to make the install in a 3 steps.



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First add the loctite & hand tighten the new Lug bolts (gold lug bolt we supplied); Second torque the bolts to half the torque in a crisscross pattern & Finally torque the bolt to their final value of 120 ft. lbs.

G. Reinstall the wheel & Torque the nuts (new gold we supplied, which are on the Spacers, if your wheel had factory lock washers below the wheel nut, reused them now as below pic.) Torque to 120 ft. lbs for in the same 3 steps as above.

We have found that having a metal shovel and rolling the tire onto it, makes the job of lining up everything must easier. One can slide the tire around, pry & lever the tire into place.



H. Check clearances around the Wheel, no point of contact should be noticed.

I. Check everything out for clearances & binding. Recheck nuts & bolts after the first 20 minutes of travel & at your regular oil change.

Our recommendations would be to make witness marks after installed, using a paint pens on the back side of the axle lug bolts & also on the studs /lug nut of the wheel side. Make for an easy inspection of the



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tractor.



5. **Congratulations:**

You have successfully installed your Bro-Tek Wheel Spacers. I hope this was a pleasant experience & that you would recommend this product to all of your tractor friends. The Wheel Spacers can remain on the tractor, for all the preventative maintenances & the every day use.

6. **Thank you:**

We would like to thank you for supporting us & hope to do future business with you with our new upcoming line of products.