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Bro-Tek
-Making tractors parts our business

Metric Lug Bolts 12M



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. It will outlast your original Tractor & be ready for your next one. Please read these instructions, before installing the Wheel Spacers. The Wheel Spacers have been designed for easy installation. Wheel Spacers are a bolt-on item. Unit will be shipped complete in a box, all hardware included. Designed to be very easy to install.

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



Important If you have a Mid Mount Mower, please check clearances with the back Scalp Wheels, lift deck to max & measure to the back wheel clearance.

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.

Save these  Instructions/Safety Manual  owner/operator/installer



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3. Tools/torque/Parts required:

- A. **Socket** 24mm, 17mm, 3/4", 5/8" & 11/16"
- B. **Torque wrench** (capacity rating range 0-130 Lb-Ft).
- C. **Floor Jack & Jack stands.**
- D. **Pry-bar or round pipe** (see pic below).
- E. **Loctite, Medium Strength Thread locker (Blue)**

4. Assembly Instructions:

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 normally be done by one person in 20 to 35 minutes).

C. Before lifting the tractor with the jack, break loose the nuts on the wheels targeted for spacer installation.

D. Jack up & place the jack stand on the tractor. (Ref to owner's manual)

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

E. It's now 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. The factory bolts treads are 12mmx1.25 tread, If we have supplied new Lug bolt 12mmx1.25 use these to install the spacer to the axle, if not reuse the factory OEM lug bolt. (5 bolt pattern normally reuse , the other 6bolt pattern new Lug bolt supplied)

Now is a good time to test fit the spacer to the Axle & then to the wheel rim. The spacer should make full contact to the axle; it's much easier to sort any problems without having anything bolted down.

If everything looks good add some Loctite to 5 or 6 bolt 



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G. To install the spacers, you will need a long bar (if hand brake is not strong enough) to hold the axle from turning .

 careful not to damage the wheel spacers stud tread (a Wooden bar or a rag/rubber around the steel bar will help protect the treads. Get your socket & make sure to reuse the new Gold Lug bolt.  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/Torque bolt in 3 steps. First hand tightens the bolts; Second torque the bolts to half the torque in a crisscross/Star pattern & finally torque the bolt to their final value of 70 ft. lbs for the spacers to the axle.



H. Reinstall the wheel & torque the nuts to 70 ft. lbs for the rear wheels.

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.

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

J. Check everything out for clearances & binding. Recheck nuts & bolts after the first 2 hours of travel & at your regular oil change.

 A **low-speed** test drive on a bumpy terrain with steering fully rotated should reveal any problem area. Make sure to **correct the problem before any other driving.**



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Our recommendations would be to make witness marks after installed, using a paint pen 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 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.

