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**YANMAR**[www.bro-tek.com](http://www.bro-tek.com)**Bro-Tek***-Making tractors parts our business***M12 Lug Bolt****Cub Cadet****Power Equipment**[Bro-Tek@hotmail.com](mailto:Bro-Tek@hotmail.com)

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## 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 rear axle. 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 on your tractor. Wheel Spacers are a bolt-on item. Unit will be shipped complete in a box, all hardware included.



**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.

### 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](mailto:bro-tek@hotmail.com) or you can reach us at [www.bro-tek.com](http://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.

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3. Tools/torque/Parts required:

- A. Wrenches or socket (3/4", 13/16" )
- B. Torque wrench (capacity rating range 0-96Lb-Ft =130N/M) .
- C. Floor Jack & Jack stands.
- D. Pry-bar or round pipe (see pic below) .
- E. Loctite, Medium Strength Thread locker (Blue)



None < Spacer > With .....the tractor is way more stable....Finish pic with spacers on Wheels

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 be easily be done by one person in 15 to 35 minutes).

C. Before lifting, with the jack, the tractor, break loose the nuts on the rear wheels, this will help out.

D. If you have the backhoe on, save yourself some time & use the stabilizer of the backhoe to lift the rear. For those without a backhoe it time for the floor jack. (Ref to owner's manual)

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

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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. You will need a regular socket to mount the wheel spacers on the axle, the heavy wall driver sockets won't fit.

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 & the nuts/lug bolt has full tread contact ⚠, it's much easier to sort any problems without having anything bolted down.

If everything looks good add some Loctite to Lug Bolts ⚠,

G. To install the spacers, you will need a long bar to hold the axle from turning (see photo) but Locking the parking brake On, might be all that is needed, Torque the bolts to 70ft. lbs for the rear wheels.



H. Reinstall the wheel & Torque the nuts to 70ft. 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 much 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.

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J. Check everything out for clearances & binding. Recheck nuts & bolts after the first 2 hours 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 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 everyday 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.