
Challenger

Bro-Tek
-Making tractors parts our business

Challenger

www.bro-tek.com

Series tractor (M16x2)

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 rear axle. It will outlast your 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.



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 or you can reach us at www.bro-tek.com

Save these  Instructions/Safety Manual  owner/operator/installer

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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.
3. **Tools/torque/Parts required:**
- A. Socket 21mm, 24mm, 3/4", 7/8" & 15/16"
 - B. Torque wrench (150 Lb-Ft).
 - C. Floor Jack & Jack stands (proper rating).
 - 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 (see main photo on first page) & 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 20 to 25 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, you can save some time by using the stabilizer of the backhoe to lift the rear. For those without a backhoe, jack up & place the jack stand on the tractor.
-  Jack stands must be stable/secure place on the tractor/ground.
-  **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.

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

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 rim hole may have to be file a very small amount to clear the spacer lug. It's much easier to sort any problems without having anything bolted down.

F. The factory 2 nuts & 4 bolts are the same tread type (16mm x2) as the one supplied with the kit, but factory hardware may not be long enough for full contact. Please use the supplied Hardware.



G. You will need to remove the 2 Stud on the axle, double nut tight the Stud as in photo & turn counter clockwise the inside nut. The stud should unscrew itself from the axle.

We supplied new Lug Bolt (gold), add loctite to the lug bolt & install the spacer to the axle. Do not use lock washer, these are to be used on the wheel.



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⚠ Please take the time to make the install in 3 steps.
First hand tightens the bolts; Second torque the bolts to half the torque in a crisscross pattern & finally torque the bolt to their final value of 140 ft. lbs for the rear's wheels.



H. Get your Tire/Rim & add Loctite to the 6 studs on the spacer. You will need to use the supplied nuts that came install on the Spacer (M16x1.5) & use the supplied lock washer to install the rim/wheel. Torque the nuts to 140 ft. lbs for the rear wheels in the same 3 steps as above.

⚠ This time the flat end of the nut must make contact with the lock washer/washer/rim.

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.

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

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.

Save these **⚠** Instructions/Safety Manual **⚠** owner/operator/installer

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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.