
HITACHIwww.bro-tek.com**Bro-Tek***-Making tractors parts our business***Owner's Manual****HITACHI**bro-tek@hotmail.com



1. Introduction:

A. Proud Owner:

You are now the proud owner of a Bro-Tek Thumb.

This Thumb is made for your backhoe. It will outlast your original tractor & be ready for your next one. Please read these instructions, before installing the Thumb. The Thumb has been designed for easy installation. This bolt on Thumb is shipped complete in a box, all hardware included. Design to be very easy to install & assemble. Unit is foldable, it is a 3-position thumb.





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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 starting installation.
- C. Block up or rest the backhoe before working beneath unit.
- D. Read and understand the original Tractor Backhoe Operator's Manual. Read all precautions found in the tractor and loader manuals.
- E. Never use the Thumb without having the front-end loader & Stabilizer pads firmly on the ground.
- F. Keep all persons, at least 20 feet away from the backhoe/Thumb at all times. When a heavy load is being moved with the thumb, this can have serious injury if all precautions are not taken. Make sure to mark a safety perimeter around the work site.
- G. Take special precautions for operator & bystanders on hillside. The material can tumble a very long distance; use barriers to secure the material to a tight area.
- H. Never go underneath or nearby the thumb, even if the tractor is stopped. The boom should always be lowered to the ground, before the operator steps out.
- I. Never assume the load is secure in the Thumb. Always keep the load to the lowest/closest possible to the ground/tractor. This will help to reduce a tip over.

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

- A. **Wrenches** or **socket** (3/4")
- B. **Torque wrench** (50Lb-Ft =70N/M) .

4. **Assembly Instructions:**

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



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- B. Free up work place of all disturbance & clutter. Take your time installing it (This can be easily being done by one person in 10 minutes).
- C. After having done this a few times, most people will fully assemble the thumb, except the two top bolts. Then slip the thumb onto to boom.



For the first time around, install the top two bolts (some thumbs only require 1), Lock nut & Washer. Do not tight it all the way, like the one in photo.

Note: The front of the plate is the smaller 1" hole, the other holes are 1.25". The 1" hole goes towards the bucket.

Install one or two top bolts





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- D. Install other two bolts, in the lower holes. Do not tighten them all the way.



- E. Push the two plates away from the bucket, until the bolts snug up against the boom. Tighten the 3 or 4 bolts snug.

Install the arm with the connect link that is preassemble with the two pins with the linchpins and bolts.



- F. Try the rear pins with the connecting link in all of the three positions and also fold up the thumb.
- G. If the pins do not fit. The plates are probably not squared up. Move the plates a small amount. Once all of the pins fit in the position. Torque the nuts at the 25 lb-ft rating, in a crisscross pattern, while always checking the pins for free movement.



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F. Check clearances around the Thumb side plates & nuts/bolts (Various opening) no point of contact should be noticed except for the Bucket\the jaw of the Thumb.

This a location also needs to verify, retract fully the cylinder and check for clearance. Extend fully the cylinder and check for clearances.



J.  **Important Safety:** If there is a point of contact (hydraulic fitting/lines) or sign of metal fatigue, do not continue to use the thumb, until the problem is fixed.

K. Check everything out for clearances & binding. Recheck nuts & bolts after the first use & every month afterward.

5. Congratulations:

You have successfully installed your Bro-Tek Thumb. I hope this was a pleasant experience & that you would recommend this product to all of your tractor friends. The Thumb 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 our new upcoming line of products.