



www.bro-tek.com



-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**


1. Introduction:

A. **Proud Owner:**

- . You are now the proud owner of a Bro-Tek Skid Plate. This Skid Plate (K-BX-M-R-MMM) is made of 1/8" steel diamond plate. It will outlast your original Kubota tractor & be ready for your next one. Please read these instructions before installing the Skid Plate. The Skid Plate has been designed for easy installation & pre-painted with a very durable paint (Dupli-Color/High Perf Graphite Wheel).

B. **Feedback:**

- . We would love any feedback that you could give us (Positive/Negative) in order to improve our product line. Please email us your comments/pictures too: bro-tek@hotmail.com or visit our web site 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.

3. Tools/torque/Parts required:

- A. **Wrenches** or **socket** (3/8"@6Lb-Ft or hand-tighten) for self-tapping screw.
- B. **Socket** (22mm@90lb-ft for BX23xx & lower) (3/4"@90lb-ft BX24xx >) for rear bolts.
- C. **Socket 19mm@70lb-ft for others BX, check to see if washer exists on the rear bolts. If not, these will require new longer grade 8 bolts & washers** for rear bolts.
- D. **Torque wrench** (22 to 115Lb-Ft).
- E. **Drill & drill bit** (7/32").
- F. **Small jack.**
- G. **Wrenches** or **socket** (1/2"@10Lb-Ft) trap door/U-Bolts.
- H. **Wrenches** (two 14mm or 9/16") to remove factory skid plate.



www.bro-tek.com



-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**

4. Assembly Instructions: **⚠ Important Safety**

.1 Once you have followed the safety precautions & have removed the skid plate from its packaging, please take note of all the parts & follow the assembly instructions.

.2 Free up the work place of all disturbance & clutter. Take your time installing it (This can be easily done by one person in 15 to 30 minutes).

.3 For all BX24xx & higher, install U-Bolts (Photo B). For all BX23xx & lower, install supplied Tie-Wrap (photo A **The Tie-wrap must be removed once installation is complete. The Tie-Wrap only purpose is to help in the installation. Do not tighten Tie-Wrap or U-Bolts all the way. Leave some play like the one shown in the photos below.



Photo A (Above): For all BX23xx & lower series.



Photo B: For all BX24xx & higher, put the 4-nuts on U-Bolts & leave some play. Some of newer BX, there's small factory skid plate that must be uninstalled. These will require 14mm or a 9/16 wrench/socket to remove it. see next photo.



www.bro-tek.com

Bro-Tek
-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**



Store away the Factory skid plate, it will not be reused.

.4 Remove the two back washers, lock washers, nuts & bolts. Reinstall the two bolts, from their original location (Drawbar), but with the lock washers on the top of drawbar without the washer (Makes the installation of the nuts much easier). Line up the holes in the skid plate with the two bolts (See photo- view from behind tractor). Now is a good time to use the small jack to support the skid plate in this position.



Important Safety Do not lift tractor up with jack. Use jack only to support skid plate. Stop lifting skid plate once it has made contact with rear of tractor.



.5 Reinstall the two nuts (Note: washers are not required, but could be installed) hand-tightening only, this leaves some play that will make it easier to line up the skid plate.



www.bro-tek.com



-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**

.6 Line up the front of the skid plate in a manner that it is centered between the frame rails. Check clearances around the skid plate so that there are no points of contact other than the mounting locations & the bottom cross member.



.7 Torque nuts at the lb-ft rating of your BX (see; Tools 3B or 3C). Note: Some BX model factory came without a washer (19mm), if so; longer grade 8 bolts will be required c/w nuts & lock washer. Make sure washer is installed & fits well.



.8 Install a 7/32" drill bit or you can use a 3/8" chuck on drill with the self-taper screws (Above) & start drilling one side.



www.bro-tek.com

Bro-Tek
-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**

Note: the BX24 & higher there no drilling needed, skip this step.



.9 Install the supplied bolts (self-tapping screw, washers & torque these by hand "snugly" with a 3/8 socket. For BX24xx & higher, torque the U-Bolts locknuts to 10Lb-Ftb (Above photo).

.10 Redo the other side.

.11 Check everything out for clearances & binding. Recheck nuts & bolts every month. If attachment is installed, check their clearances with the skid plate & PTO shaft (put the 3pt in the lowest & highest position).



Important Safety If there is a point of contact, do not continue to use tractor.

.12 If the Mid Power Take Off (PTO) is to be used, the skid plate has an access door. To open door, there are 2 bolts $\frac{1}{2}$ " , using socket/wrench to loosen only the top bolt (do not remove), remove the lower bolt. Push the door to the side (rotate clockwise) & bolt the door to the open position. This way you will never misplace the door.



www.bro-tek.com

Bro-Tek
-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**

5. **Congratulations:**

You have successfully installed your Bro-Tek Skid Plate. I hope this was a pleasant experience & that you would recommend this product to all of your tractor friends. The skid plate 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.

Over the years, we have heard horrors stories;

There's multiple reason to have the Bro-Tek skid plate (the only one on the market to protect all the way to the back of the tractor).

The transmission case, which are in aluminum, can get hit by rock & crack open (+ \$2K repair).

The Famous transmission Fan blades, taken out by a stick. (4-5hrs Labor to replace Fan)

High grass/hay will wrap around the trans cooler fan & wedge the oil seal, which will fail.

The Mid Power Take Off (PTO) sometimes disconnecting itself & smashing everything up

(+\$5k). Bro-Tek Skid will hold PTO shaft stays in the access door opening, preventing the damage, by holding the shaft.

Debris can rip off fuel/hydraulic lines, electrical wiring. etc.



www.bro-tek.com

Bro-Tek
-Making tractors parts our business

MODEL# BX-WS-R



bro-tek@hotmail.com

Series ; **BX22,BX23,BX24,BX25,BX1500,BX18/00/30/50/60/80,BX22/00/30,BX23/50/60/80 & BX26/60/70/80**

Save these  Instructions/Safety Manual  owner/operator/installer