

# REALIGNING THE MBX CHIPPER

## STEP 01.



Start by removing the guards and the dieplate. The stem hole dieplate can be removed with the 5/32 allen wrench. Loosen the 4 screws retaining the dieplate and set aside.

## STEP 02.



Using the same 5/32 allen wrench, remove the cover over the chipper and set aside.

## STEP 03.



Remove the centre screw with the 3/16 allen wrench, and the 2 button-head screws at the bottom of both side panels.

## STEP 04.



To release the cover, pull down on the shrouding at the bottom, then pull off and release. Repeat on the opposite side, then slide the cover off the MBX.

## STEP 05.

### PART 1: VISUAL ADJUSTMENT

- MACHINE UNPLUGGED
- SLIGHT CONTACT BETWEEN THE BLADES
- CHIPPER IS PARALLEL

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### PART 2: AUDIBLE ADJUSTMENT

- ONCE MACHINE IS PUT BACK TOGETHER

The bottom roller has a keyway. Line that up with the key and slide the roller on.

## STEP 06.



The top roller has no keyway.

## STEP 07.



Once both are installed, with safety glasses on, put the circlips back on making sure they're seated in the groove all the way around, then slide the spacer washers back on.



## STEP 08.



Replace the side plate making sure that all of the holes and two shafts line up properly. The top bearing will need to be moved up to line up with the shaft. Once aligned, the plate can be pushed on the rest of the way.



## STEP 09.

### PART 1: VISUAL ADJUSTMENT COMPLETE

- SLIGHT CONTACT
- BLADE AND CHIPPER ARE PARALLEL
- CHIPPER ROTATES 360 DEGREES



Using blue loctite, replace all seven of the screws on the side plate. Get them all started, but don't tighten until all seven are in place. You can then go back over each and snug them all down, then go back a third time to tighten them.

## STEP 13.



Turn the machine off, remove the guard and rotate the chipper to make sure you still have slight contact with the stationary blade, and it's parallel contact across the full width of the blade, and that after rotating 180 degrees, you have the same contact and parallel spacing.

## STEP 10.



Next we'll reinstall the 4-bolt flange bearing. Make sure the grease fitting is at the top. You may need to grab the chipper from behind and lift it to get the flange bearing to fit into its recess, then line up the 4 holes, add loctite to the first few threads and replace the 4 bolts, tightening each once they've all been installed.

## STEP 14.



Put the shrouding back on. Make sure that the hooks on the bottom of each side go into the holes.

## STEP 11.

### TO MOVE BLADE CLOSER TO CHIPPER

- TIGHTEN THE BOLT CLOSEST TO THE ROLLER SIDE
- LOOSEN THE BOLT CLOSEST TO THE CHIPPER SIDE



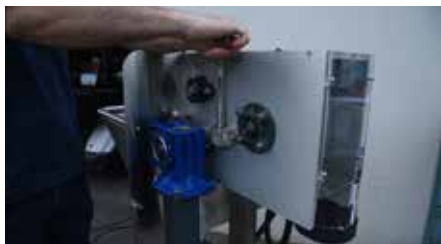
Make sure that the plastic bushings are installed in the 2 bolt lower flange bearing. Add loctite to the two bolts, then slide the bearing onto the shaft.

## STEP 15.



Install the 2 button head screws on the bottom of each side, but don't tighten yet, then thread the centre screw at the top of the chipper side.

## STEP 12.



Tighten one of the bolts by hand, then pivot the other side up slightly to get that bolt started, then slide the bearing tight against the plate. Continue to thread the bolts by hand, then tighten with the socket.

## STEP 16.



Tighten the two button heads at the top of the shroud, the two previously threaded button heads at the bottom of each side, and the 4 screws in the corners of the dieplate. Replace the cover over the chipper and tighten each of the screws. Turn the machine on and allow the rollers to rotate in the forward direction while looking through the holes in the dieplate. Then switch directions