

WEAVERLINE

BEDDING CHOPPER ROTOR

SERVICE MANUAL

For Models KB1000 through KB1270
SERIAL NUMBER 12501 TO PRESENT



CAUTION

Death, personal injury, or property damage may occur if this product is misused; or if the operation and safety instructions are not followed carefully.

If after reading this manual you fail to understand any part, or have questions about operating this piece of equipment; call Weaverline, LLC before proceeding.

Weaverline, LLC office hours are 7:00 AM to 5:00 PM EST.
Phone number 877-464-1025 or 717-445-6724

REMOVAL OF THE ROTOR

READ COMPLETELY BEFORE CONTINUING

- Step 1.** Remove the hopper belt guard
Step 2. Disengage the hopper clutch.

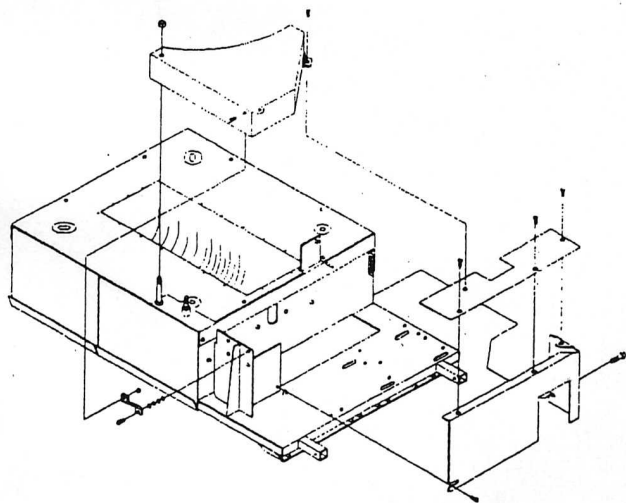


Fig A. (Guards)

- Step 3.** Loosen the belt guide on gear box
Step 4. Remove hopper drive belt.

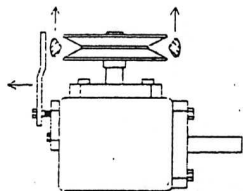


Figure B (Gear Box)

- Step 5.** Engage rotor clutch. Remove the lower belt guard.
 (See figure A.)

- Step 6.** Remove the rotor clutch handle.
A. Remove the lock nut and washer from the pivot bolt on the handle.
B. Slide the handle off the bolt and remove the machine washer and bushing.

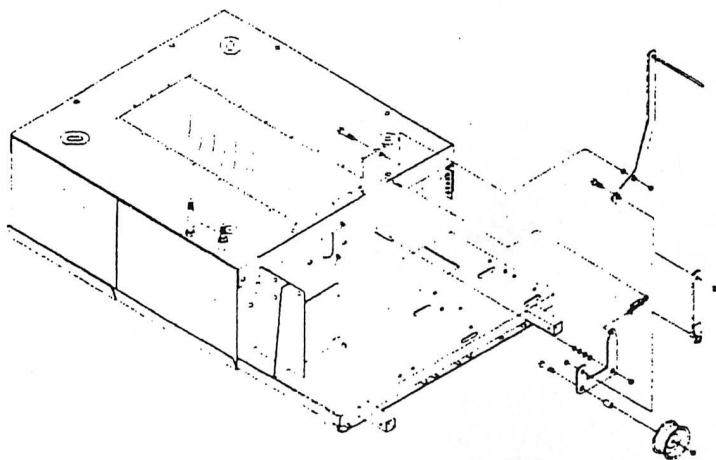


Figure C. (Clutch Assembly)

- Step 7.** Remove all five cover hold down bolts.
Step 8. Carefully tip the cover and/or cover and hopper together. (Cover hinges on discharge side.)

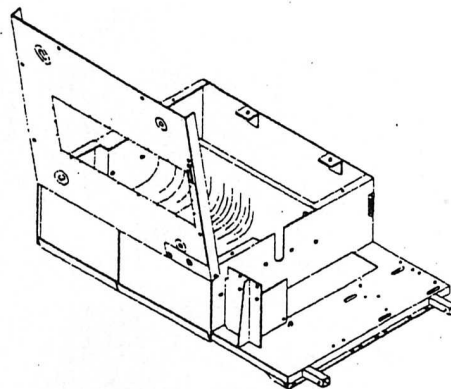
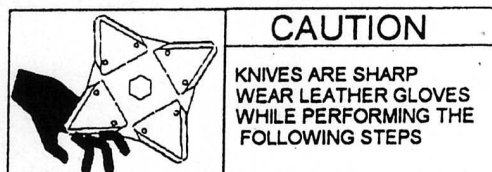


Figure D.



- Step 9.** Remove the adjustable grate
A. Remove the cotter pin, machine washer, and clevis pin
B. Lift out the grate.

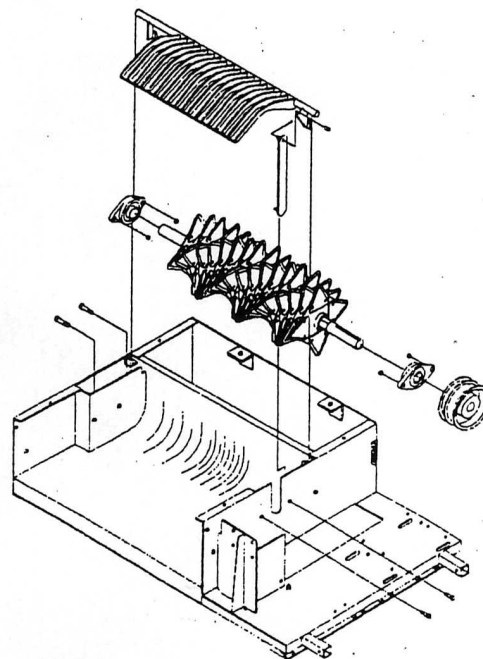


Figure E. (Rotor Assembly)

- Step 10.** Remove the gear box
Step 11. Remove the drive belts
Step 12. Remove the four bolts that mount rotor bearings.
Step 13. Lift the rotor straight up out of the bedding chopper. (Warning - rotor weighs 65 lb.)

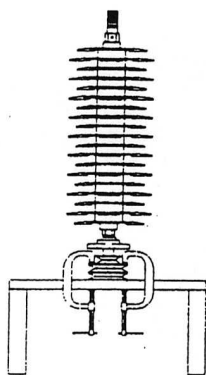
DISASSEMBLY OF THE ROTOR

READ COMPLETELY BEFORE CONTINUING

Step 1. Loosen both set screws on the rear flange bearing and slide it off the shaft.

Step 2. Lay rotor on its side, fully loosen both set screws on the 1 3/8" locking nut so they clear the shaft threads. Remove the nut, being careful not to damage shaft threads.

Step 3. Anchor the rotor to a workbench. Position rotor vertically using the pulley as a base, having the threaded end of the shaft up. Clamp the pulley to the bench.



Step 4. Slide the collar off the shaft.

Step 5. Remove the knife plates and spacers.

ASSEMBLY OF THE ROTOR

READ COMPLETELY BEFORE CONTINUING

Every knife has two edges. Both edges can be used before a knife plate needs to be replaced. Remove the dulled knife plates and flip them over on the arbor so the sharp edge is on the cutting side. Be sure to follow the directions for placement and seating of the knife plates.

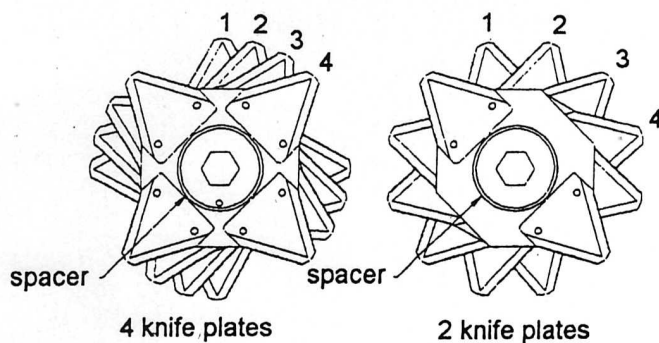
Step 1 There are two kinds of knife plates. One with a spot of weld marked on its face and without a spot. There are ten of one kind of knife and 9 of the other in a knife set. Begin reassembling the rotor by placing on a knife blade of whichever kind you have more of. (NOTE: On replacement knife sets one type will be painted green the other will be painted red.)

Step 2 Slide a spacer ring over the shaft. The ring must be centered on the knife plate below it. The ring should sit flush on the face of the knife. If doesn't tap it into place with a hammer.

Step 3 Install the next knife plate one position counter-clockwise (CCW) on the shaft from the knife plate below. This will cause the knife tips to form a close clockwise (CW) spiral for plates with four knives.

Step 4 Continue to install the rest of the 19 knife plates and 18 spacer alternating between the two kinds of knives, placing a spacer ring between each knife.

Step 5 Confirm that when looking down at rotor, knife plate tips should spiral counter clockwise (CCW) downward. This is important for proper cutting!



Step 6 Inspect rotor. All spacer rings must be properly seated.

Step 7 Rotate the collar until it slides onto the shaft.

Step 8 Screw on the locking nut finger tight.

Step 9 Tap each blades with a hammer so that it turns in a clockwise direction. This takes out any "slack" in the blade and locks it against the arbor.

Step 10 Snug up the locking nut with a wrench.

Step 11 Lay the rotor on its side. Tighten the locking nut to approximately 100 ft/lbs. Align the flat surfaces of the nut parallel to the flat surfaces of the shaft. Tighten both set screws on the locking nut.

Step 12 Slide the flange bearing onto shaft so that the flange is flush with end of the shaft.

ROTOR INSTALLATION

READ COMPLETELY BEFORE CONTINUING.

Step 1. Carefully fit the rotor assembly into the chopper with the pulley towards the drive of the chopper, keeping the bearings inside the rotor chamber drive and end plates.

Step 2. Insert the 1/2" X 1 1/4" bolts through the front plate first then the bearing flange. Install the lock washers and the hex nuts then tighten nuts. Use the same fasteners and procedure for mounting the rear flange bearing.

Step 3. Install the adjustable grate

- Insert the grate into the pockets.
- Insert the clevis pin.
- With the machine washer between the linkage and the grate, Install and fasten the cotter pin

Step 4. Position the rotor by centering the knife plates between the fingers of the grate then tighten both set screws on each bearing collar.

Step 5. Tip the cover onto the chopper.

Step 6. Install the five 3/8" X 1" hex head bolts, lock washers, and flat washers through the cover into the body. Leave the hole nearest the gearbox open.

Step 7. Install the rotor clutch handle. (See figure C)

- Slide the handle on the bolt and insert the machine washer and bushing.
- Screw the lock nut and washer from the pivot bolt on the handle.

Step 8. Disengage rotor clutch. Install the gearbox belt; then the drive belts as shown in figure 7 on page 5 of the operator's manual. (Note: Electric powered models are not equipped with a double idler pulley as shown in figure 7.)

Step 9. Install the hopper drive belt. (See figure 8, page 5 of the Operator's Manual).

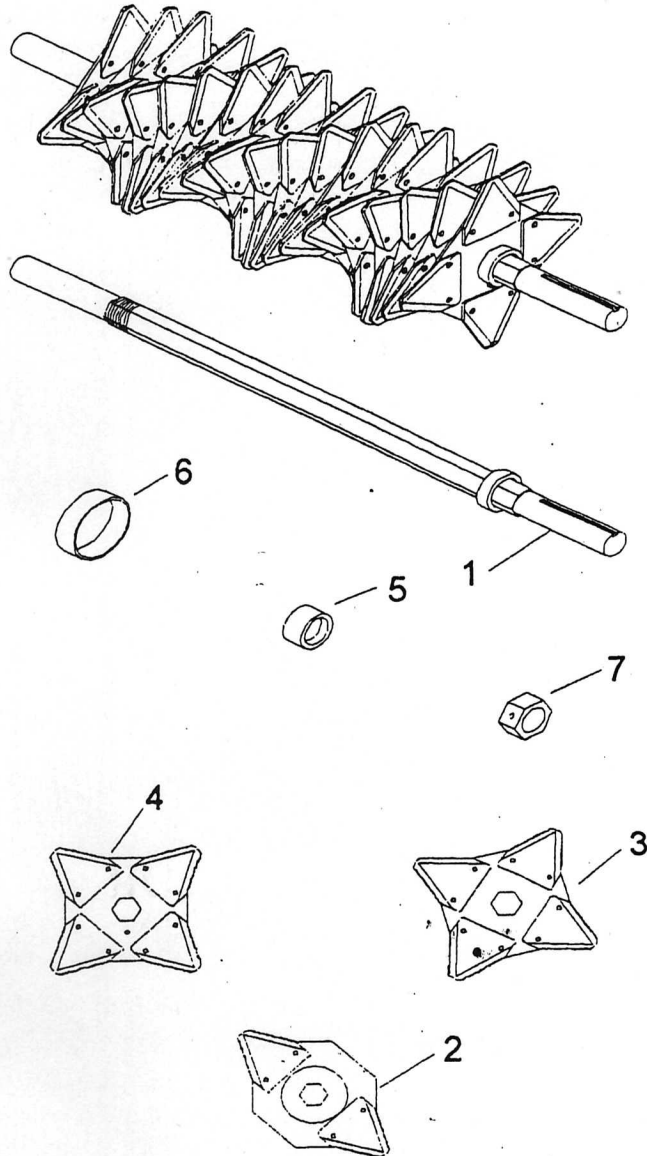
Step 10. While the rotor clutch is engaged install the lower belt guard

Step 11. Install the hopper belt guard.

Step 12. Check the clearance between the knife tips and the 1/4" grate rod. (See figure 5, page 4 of the Operators Manual.) This distance should be a minimum of 1/16". To adjust this distance refer to figure 6, page 4 of the Operator's Manual.

Step 13. Perform a safety check. Completely look over the chopper. Make sure all guards are in place, and all tools have been removed.

ROTOR BREAKDOWN AND PARTS LIST



item #	part #	DESCRIPTION	QTY
1	K88530	1 1/4 rotor hex shaft	1
2	K88207	2 knife rotor plate	19*
3	K88206	4 knife rotor plate	10
4	K88206A	Alt 4 knife rotor plate	9
5	K88531	Rotor collar	1
6	K88533	1 1/4 hex nut w 2 set screws	1
7	K88532	Spacer ring	18

*Either two blade knife plates or four blade knife plates are present, not both.