

# **WALLENSTEIN**

BY EMB MFG INC.

## **THREE POINT HITCH CHIPPER MODEL BX32s ASSEMBLY INSTRUCTION MANUAL**

**Please review and understand the operators manual before attempting to operate this machinery.**

### **EMB MANUFACTURING INC.**

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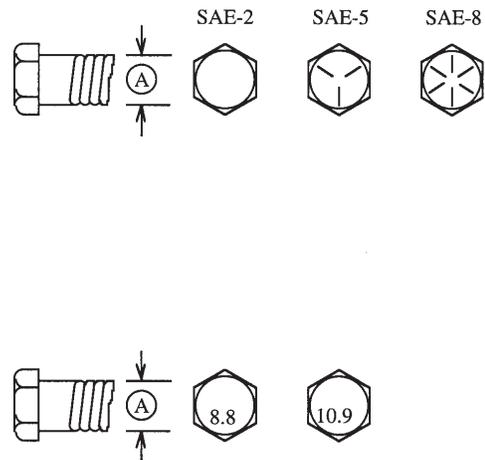
## 1.0 ASSEMBLY SAFETY

1. Read and understand the Assembly Manual and all safety signs before starting.
2. Follow good safety practices:
  - Keep service area clean and dry.
  - Be sure electrical outlets and tools are properly grounded.
  - Use adequate light for the job at hand.
3. Use properly sized tools, stands, jacks and hoists at all times.
4. Don't handle heavy and/or bulky components alone, ask for help.
5. Position in a large open area to allow access from all sides during assembly.
6. Keep the assembly area neat and clean to prevent slipping or tripping.
7. When using lifting equipment, place jack stands under the machine to securely stabilize it before working on, beside or under it during assembly.
8. Stay away from overhead power lines and obstructions when lifting the machine during assembly. Contact with power lines can cause electrocution. Contact with obstructions can damage components or cause them to fail.
9. Tighten all fasteners to their specified torque, then recheck before using the machine.

## 2.0 BOLT TORQUE

### ENGLISH TORQUE SPECIFICATIONS

Bolt Diameter "A"	Bolt Torque*					
	SAE 2 (N.m) (lb-ft)		SAE 5 (N.m) (lb-ft)		SAE 8 (N.m) (lb-ft)	
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	220	165
5/8"	128	95	215	160	305	220
3/4"	225	165	390	290	540	400
7/8"	230	170	570	420	880	650
1"	345	225	850	630	1320	970



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or caps crews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

\* Torque value for bolts and capscrews are identified by their head markings.

## 3.0 ASSEMBLY

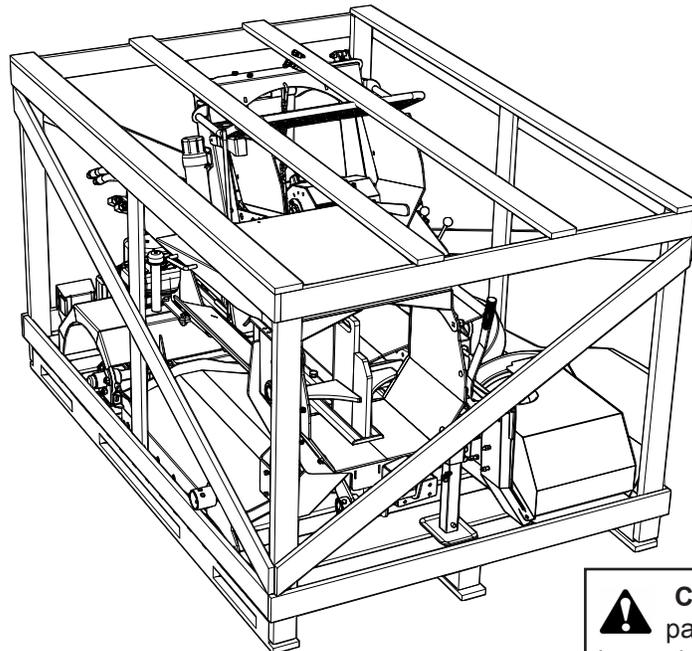
This assembly manual is for all trailer model wood processors. The BX32s is used as an example but generally applies to all wood processor models. Model specific instructions are identified in the manual.

The machine is shipped from the factory in a partially disassembled configuration and attached to a pallet that provides easy moving and handling. Always use tools, equipment and fork lifts of appropriate size and capacity for the job.

**Inspect for damage from shipping, immediately contact the shipping company if damage is found.**

**When the machine is shipped, follow this assembly procedure:**

1. Clear the area of bystanders, especially small children.
2. Be sure you have all the required tools before you start.
3. Move the shipping package into an area where it is accessible from all sides.
4. Remove the screws holding the lid to the shipping pallet, remove the lid and set aside away from the assembly area.



**⚠ Caution:** Heavy or bulky parts: prevent potential injury ask for help when lifting or moving heavy, bulky parts.

## Uncrating the BX32 Wood Chipper

1. Remove all screws securing upper part of crate to lower skid. There are two (2) screws located at each of four (4) corners around the bottom of crate. **Photo 1**



2. Enlisting a second pair of hands, remove the upper portion of crate. **Photo 2**



3. Visually inspect Wood Chipper for damage. *Photo 3*



**Photo 3**

4. Snip Tie Wrap securing PTO Shaft to Wood Chipper and remove to a clean work area. *Photo 4*



**Photo 4**

5. Remove both fasteners securing Chipper Chute to metal shipping bracket and remove Chute. *Photos 5 & 6*

**CAUTION**

**Proceed carefully. Secure Chipper Chute with hand to prevent from falling to floor when fasteners are removed.**

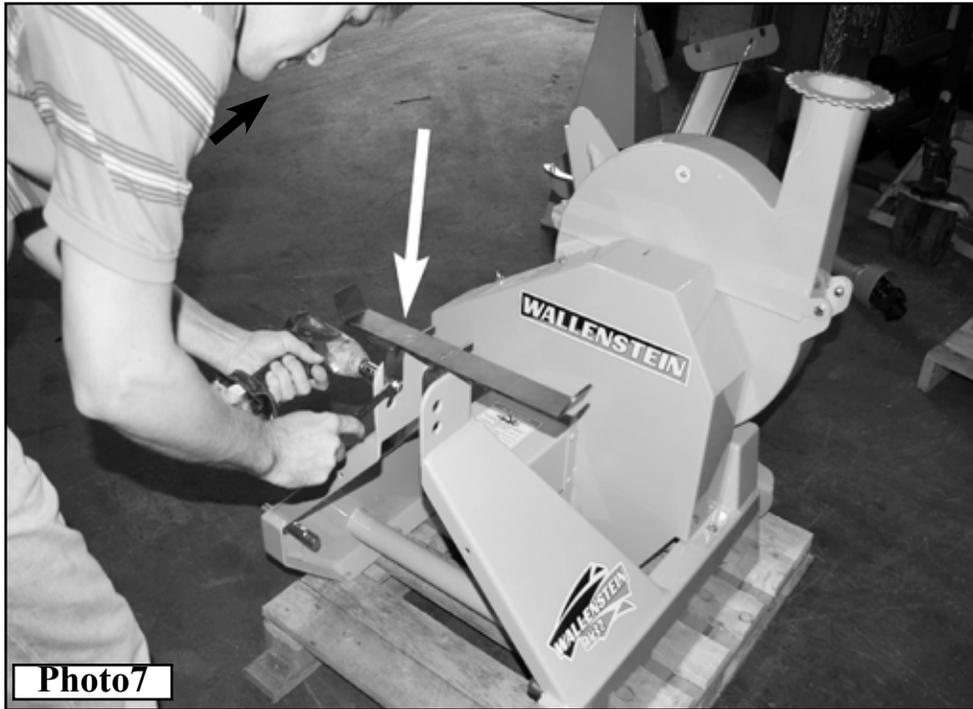


**Photo 5**

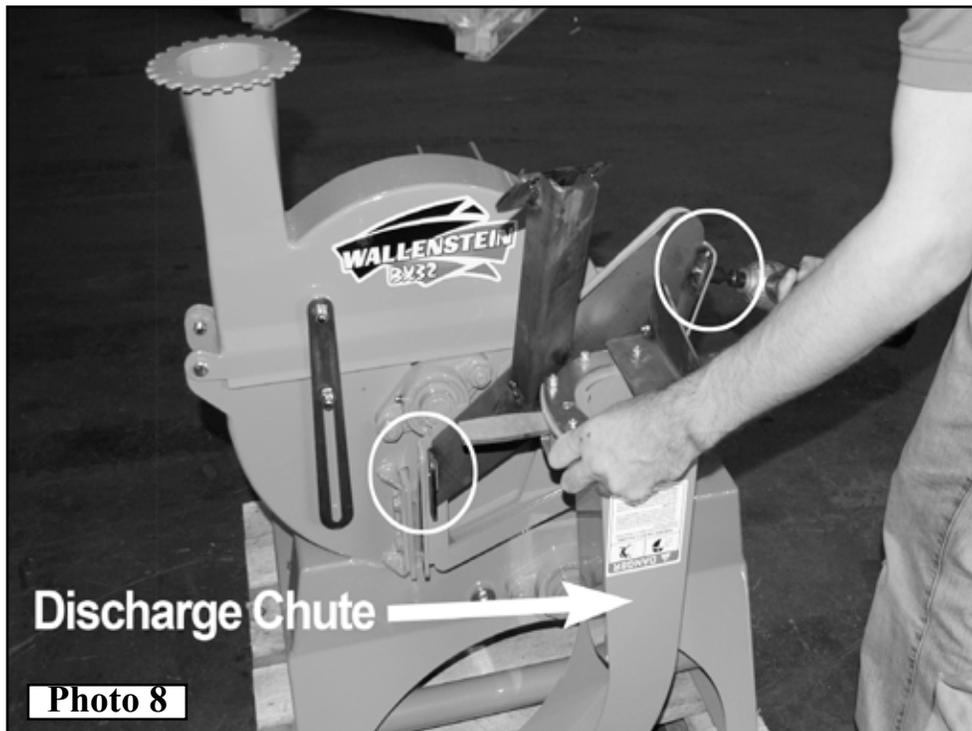


**Photo 6**

6. Remove metal shipping bracket from Bottom Rotor Housing and discard bracket.  
*Photo 7*



7. Locate hardware securing the Discharge Chute to the metal shipping bracket and remove the Discharge Chute to a clean workbench. *Photo 8*

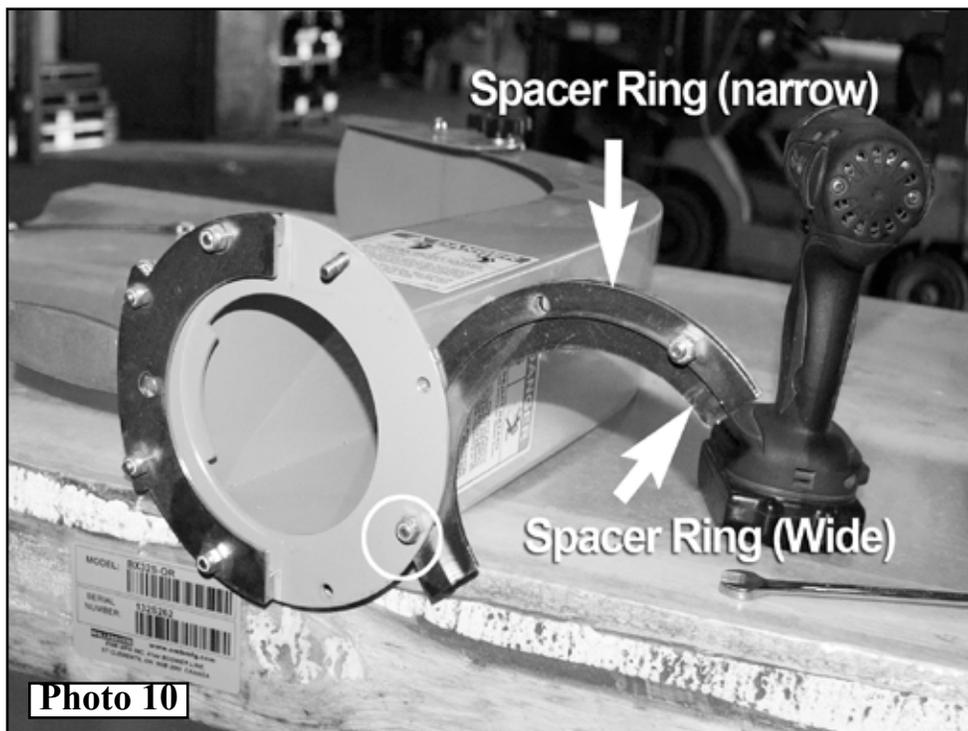


8. At workbench, remove remaining hardware securing the Discharge Chute to the metal shipping bracket. Discard metal shipping bracket. *Photo 9*



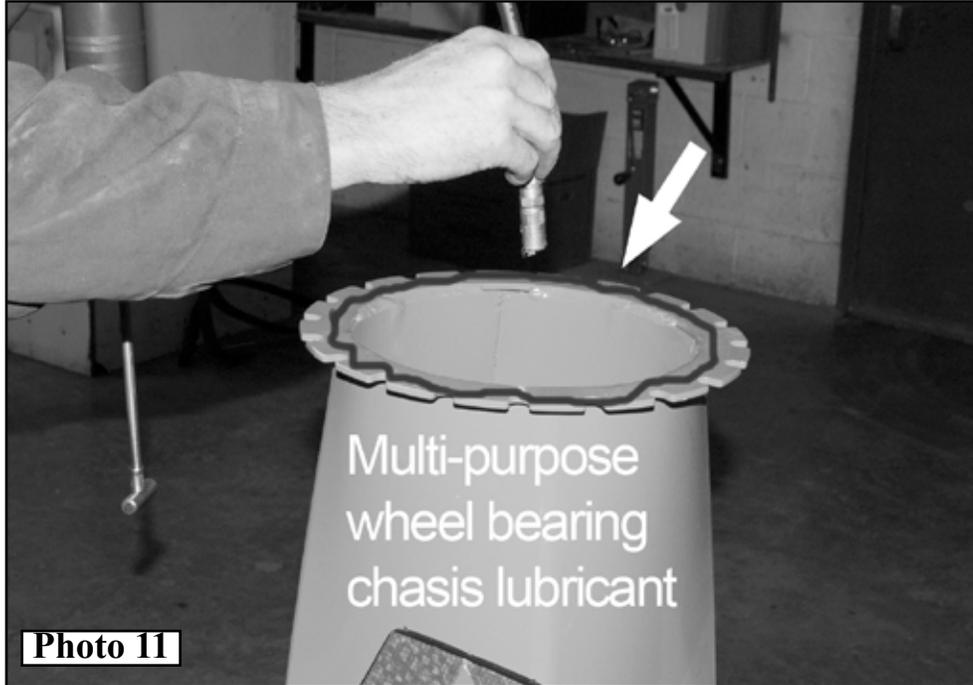
**Photo 9**

9. Remove single fastener securing half of the Spacer Rings to the Discharge Chute. *Photo 10 Leave other half of Spacer Rings installed as is (with Hood Latch Assembly).*



**Photo 10**

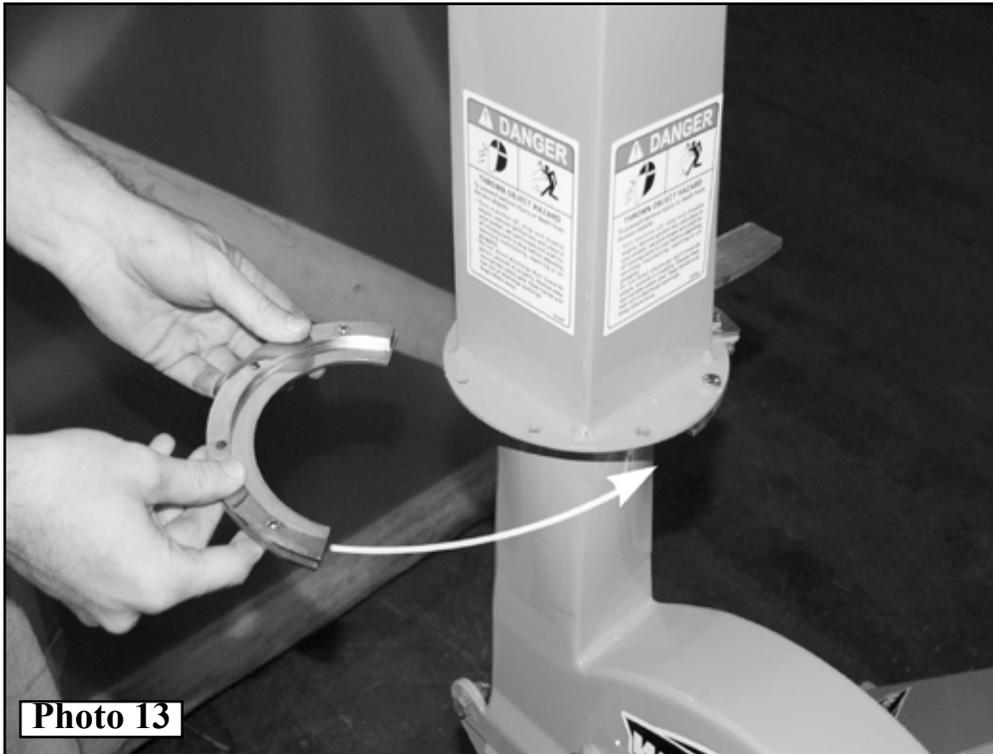
10. Apply some Multi-purpose Wheel Bearing/Chasis Lubricant to the top of the Upper Rotor Housing (around the perimeter of the stack opening). *Photo 11*



11. Place the Discharge Chute to the top of the Upper Rotor Housing. Slide the installed Spacer Ring beneath the slotted lip of the Upper Rotor Housing. *Photo 12*



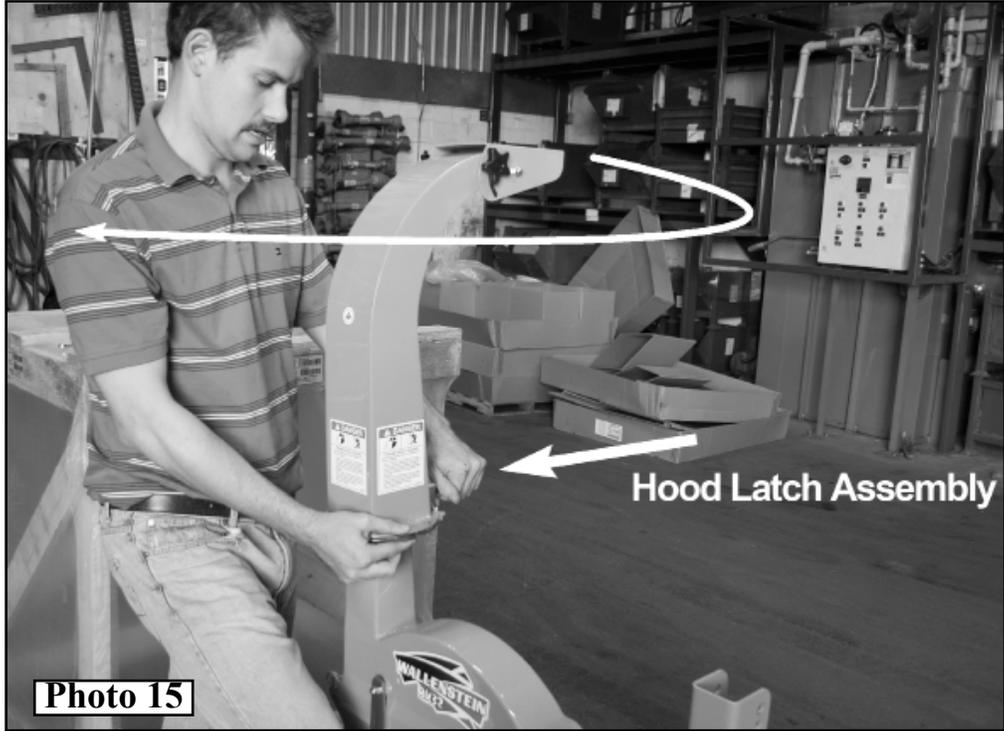
12. Install second half of Spacer Rings. Slide the lower portion Ring beneath the slotted lip of the Upper Rotor Housing while at the same time aligning the holes of the upper Ring with the holes in the Discharge Chute. **Photo 13**



13. Secure Rings to Discharge Chute with the remaining Hex Bolt 1/4NC x 1 & Hex Lock Nut 1/4NC. **Photo 14**



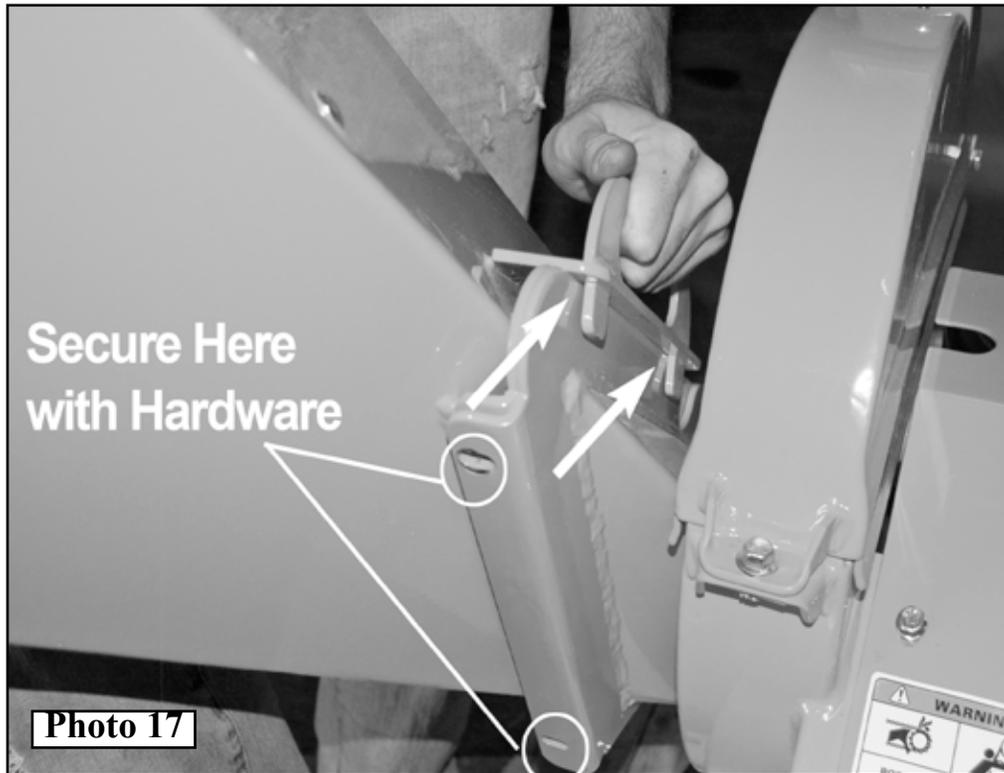
14. Secure all hardware at Discharge Chute and swivel chute to test operation. *Photo 15*



15. Place Chipper Chute into position for mounting. *Photo 16*



16. Hook Chipper Chute bracket into position while aligning mounting holes as illustrated in *Photo 17*.



17. Loosely install (2) **Flange Bolt 5/16NC x 3/4** at position indicated in *Photo 18* and two more **Flange Bolt 5/16NC x 3/4** at location shown in *Photo 19* on following page.





**Photo 19**

18. Locate PTO Shaft and refer to decal for attachment orientation. *Photos 20 & (21 following page)*



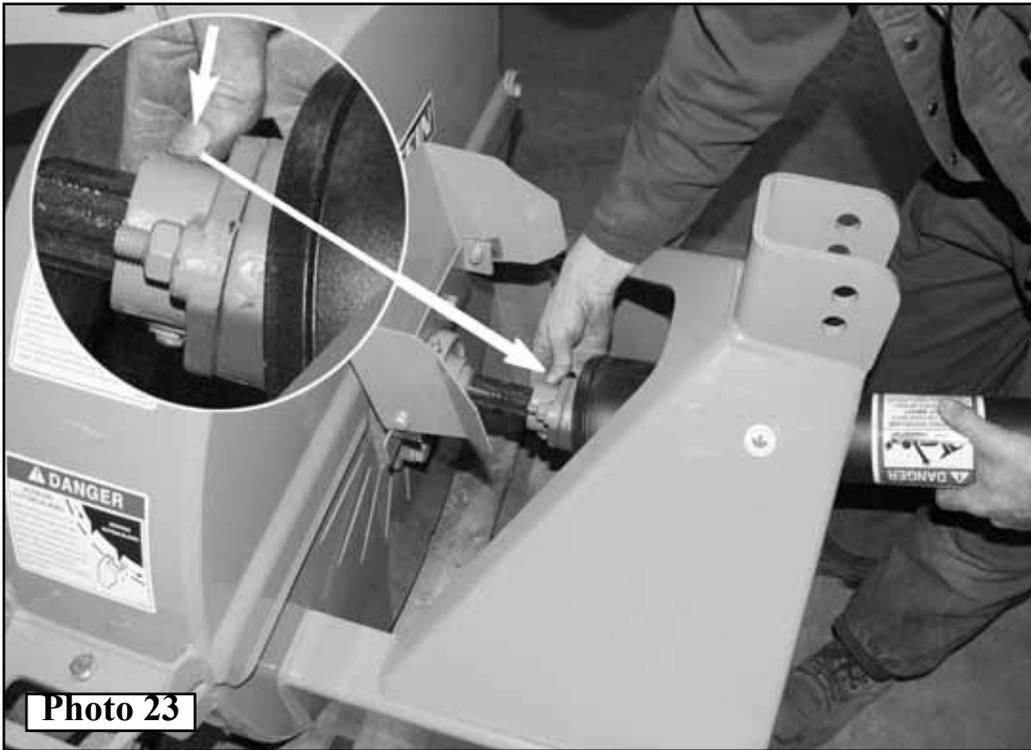
**Photo 20**



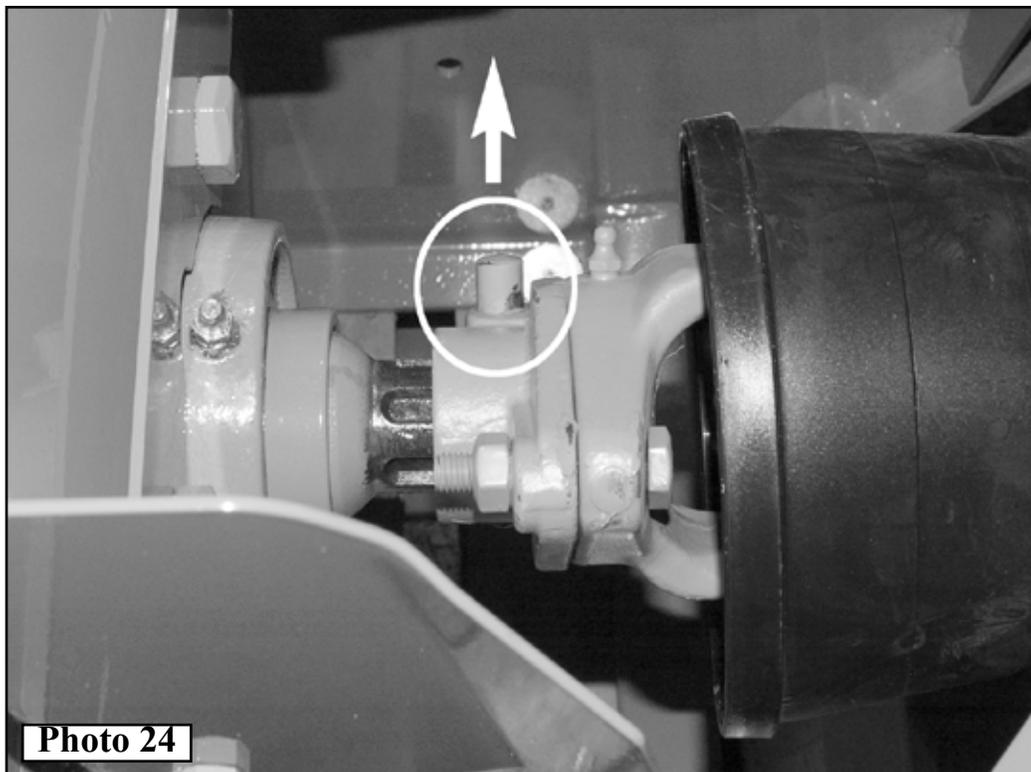
19. Locate PTO Guard and swivel up. *Photo 22*



20. Attach the PTO Shaft to the Wood Chipper by aligning the splines and depressing the spring loaded button on the PTO. Slide the PTO on to shaft until button snaps back up in position. *Photos 23 & 24*



**Photo 23**



**Photo 24**

21. Place the PTO Guard back to the lowered position. *Photo 25*



Completed BX32 Assembly. *Photo 26*

