



CHANGING A PAIR OF UNI-BANDS ON A MAIN SHAFT CLUTCH SYSTEM

NEVER STAND IN FRONT OF A TRAP MACHINE. THE TRAP MACHINE MUST BE TURNED OFF AND THE SPRING RELEASED BEFORE ENTERING THE TRAP HOUSE. NEVER ATTEMPT TO MAKE ANY ADJUSTMENT WHILE THE THROW ARM IS COCKED.

1. Let off the crank handle tension.
2. Turn the machine on to cock the throw arm.
3. When the throw arm stops at the throw arm brake, turn the machine off without releasing the throw arm.
4. **WHEN THE THROW ARM IS COCKED, BE SURE TO STAND BEHIND THE TRAP AND STAY CLEAR OF THE THROW ARM.** To completely release the tension on the throw arm carefully, manually, release the throw arm by first looping a rope or cord around the end of the throw arm. Then, holding back on the rope at 90 degrees to the throw arm, slowly move the throw arm past the brake and guide it around to the front of the machine.
5. Move the throw arm so that it is 6 7/8" from the right hand corner of the throw plate. See Diagram 53.
6. Clamp a vise-grip onto the throw plate with the throw arm at 6 7/8" to prevent the throw arm from moving forward. See Diagram 54.
7. Do not loosen the throw arm crank bolt. Diagram 43.
8. Changing the Uni-Bands can be done without removing the threaded rod-end from the machine.
9. Remove the Uni-Band connecting bolts. Disconnect the rod-end from the clutch by loosening the rod-end bolt using a 5/32" hex head wrench; pull down on the rod-end to remove it. See Diagrams 60, 61 and 62
10. When re-assembling with the new pair of Uni-Bands, leave the 3/8 -24 x2 1/4" Grade 8 bolts slightly loose at first. Then, pull the rod-end onto the clutch. Refer to Diagram 61 for proper positioning of the clutch within the rod-end (note 1/16" gap). Tighten the rod-end bolt using a 5/32" hex head wrench. Keep the rod-end level on the clutch. Refer to Diagram 60 for right side up.

Align the Uni-Bands as follows: See diagrams 60, 61 and 62

- A. Keep the clamp in front of the throw arm at 6 7/8" (Step 2)
 - B. With the rod-ends and Uni-Bands in **alignment** to one another, torque the bolts to 10 ft/lbs.
 - C. Tension the Uni-Bands with ten turns of the crank handle.
 - D. Use two 9/16" wrenches. Hold back on the bolt head (on top) while tightening the nut (on bottom)
 - E. Put equal pressure on both of the wrenches and torque the bolts to 35 ft/lbs minimum – 40 ft/lbs maximum. If using the sprocket toothed washers torque to 25 lbs. "Sprocket toothed washer must be used if the area around the holes is not indented."
11. Remove the vise grip from the throw plate.



12. Refer to the section on *Setting Distance and Speed* (page 19), regarding minimum spring tension and adjustment of the elastic lock-nut.
13. Begin normal operation of the machine.

ASSEMBLY/INSTALLATION OF THE UNI-BAND (Main Spring) to the MAIN SHAFT CLUTCH

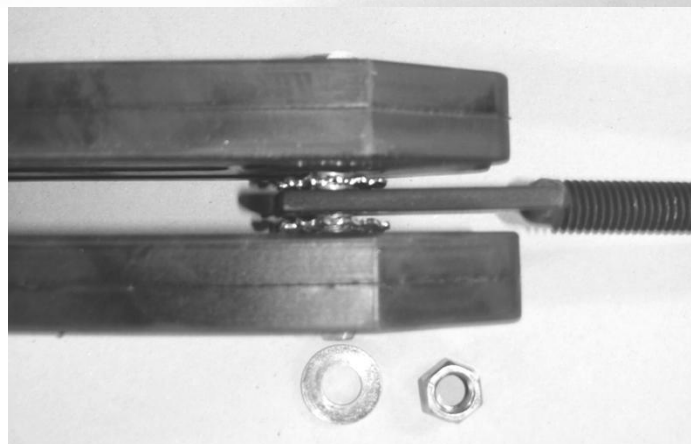
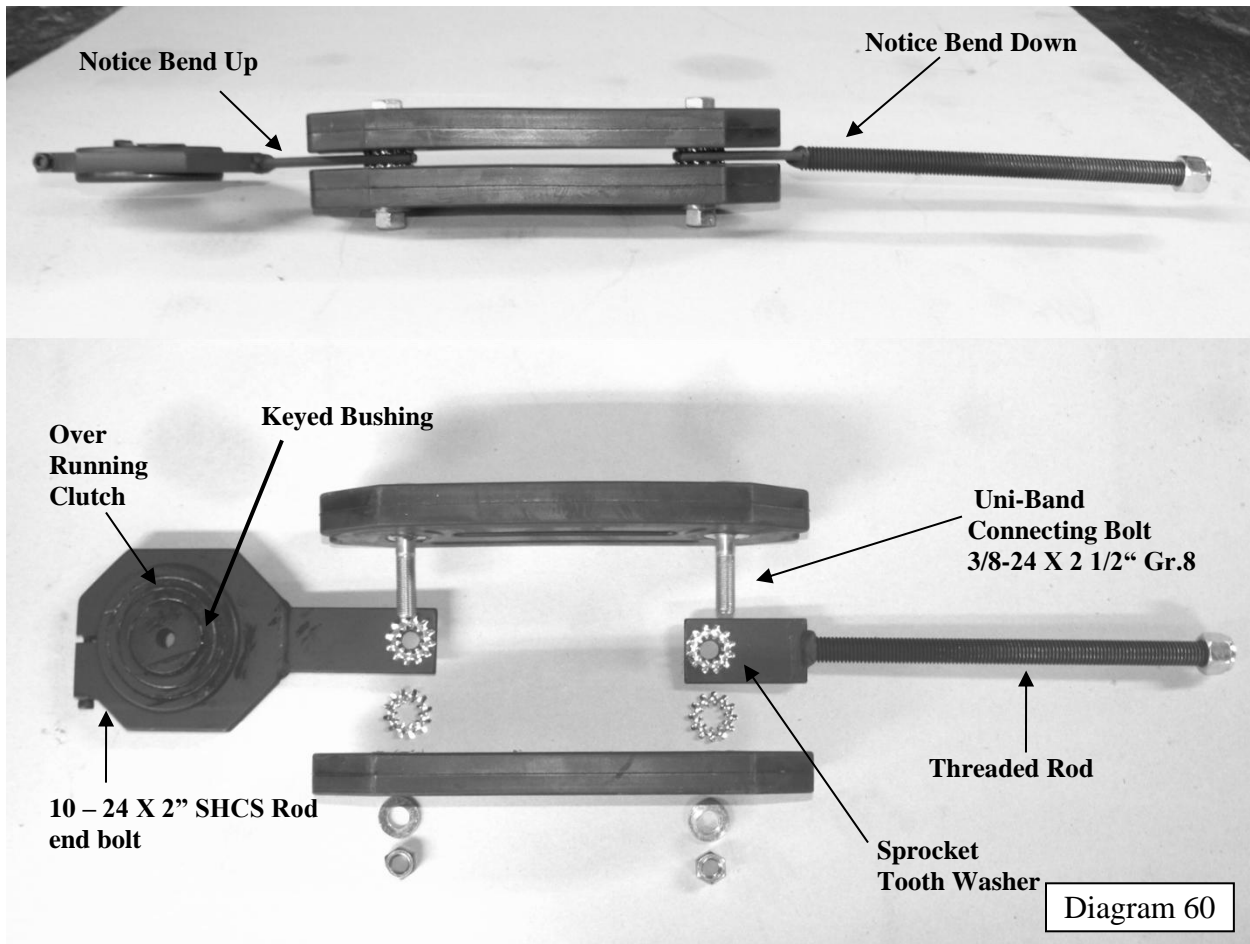
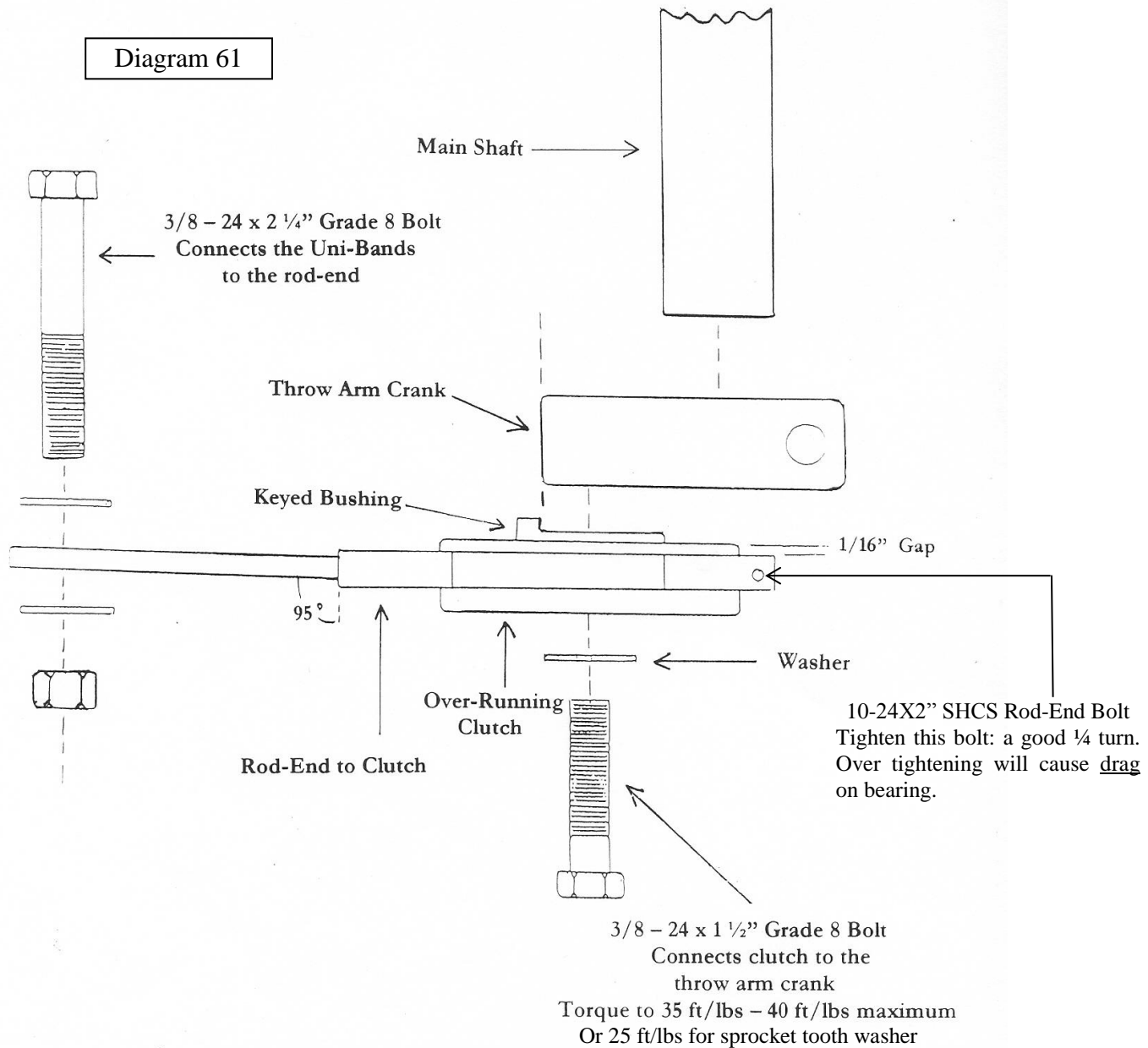




Diagram 61





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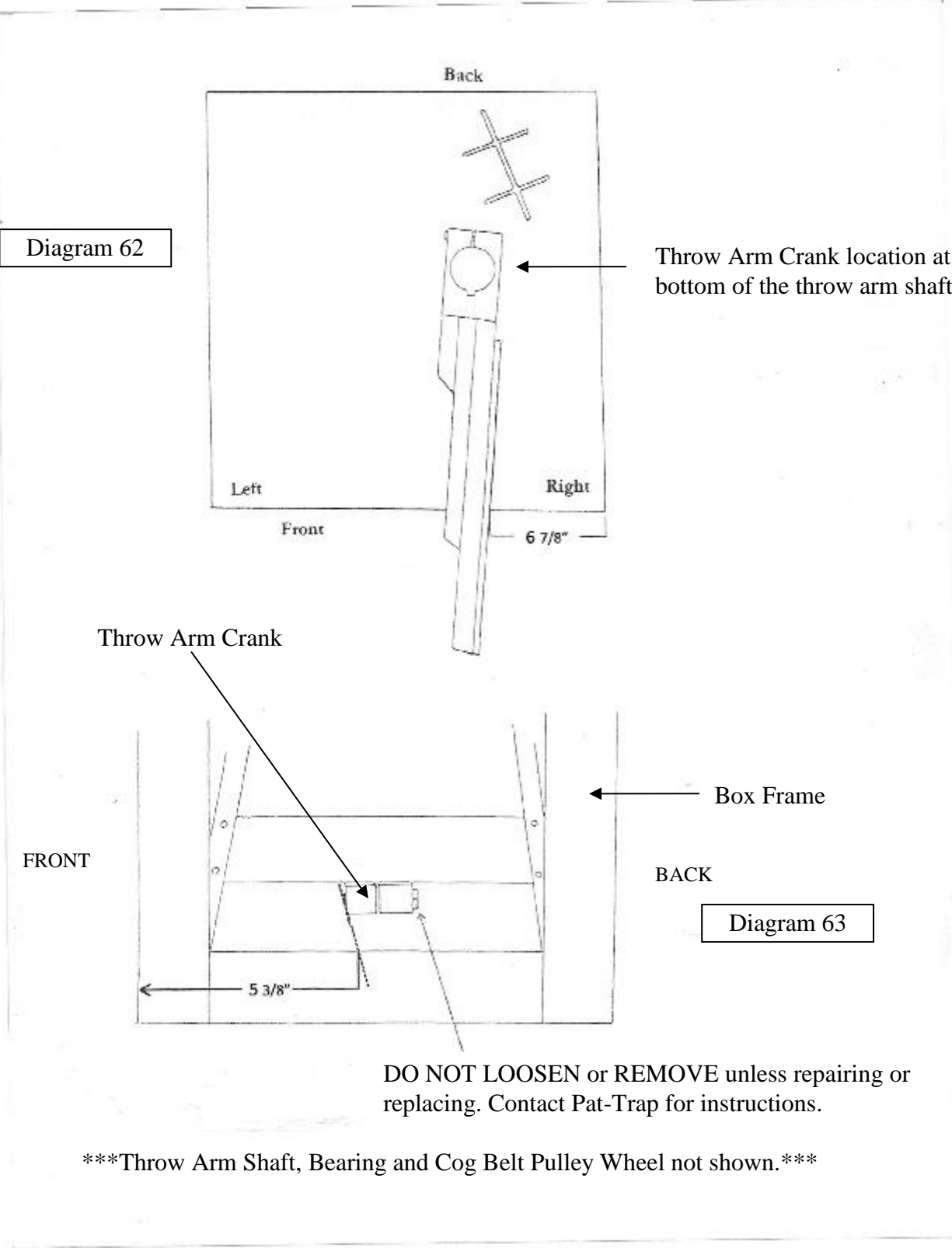


Diagram 62

Throw Arm Crank location at the bottom of the throw arm shaft.

Throw Arm Crank

Box Frame

FRONT

BACK

Diagram 63

DO NOT LOOSEN or REMOVE unless repairing or replacing. Contact Pat-Trap for instructions.

*****Throw Arm Shaft, Bearing and Cog Belt Pulley Wheel not shown.*****