



REPLACEMENT/REMOVAL OF MAIN SHAFT CLUTCH ASSEMBLY (PT-9034)

IMPORTANT: 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 WHEN THE THROW ARM IS COCKED.

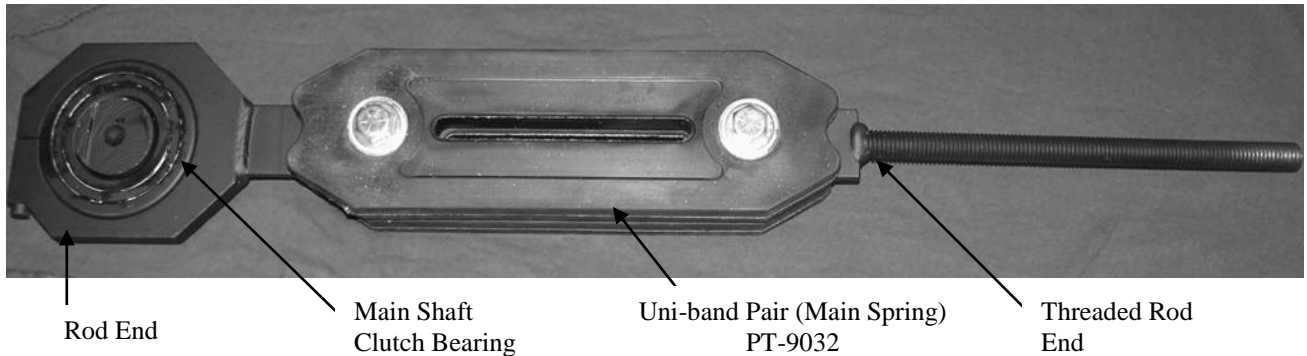


Diagram 51

Main Shaft Clutch Assembly (PT-9034)

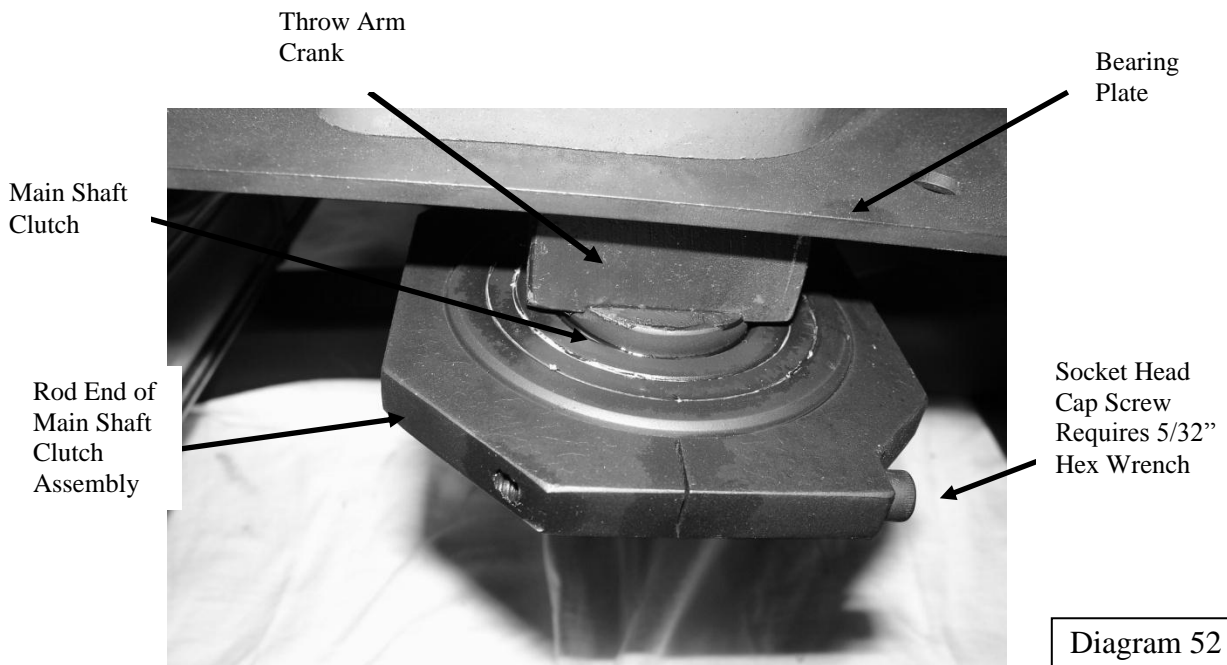


Diagram 52

Rod End of Main Shaft Clutch Assembly



1. Back off the tension on the Main Spring crank handle by rotating it counter clockwise.
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 PAT-TRAP® AND STAY CLEAR OF THE THROW ARM.** To completely release the main spring 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. (Diagram 53.)

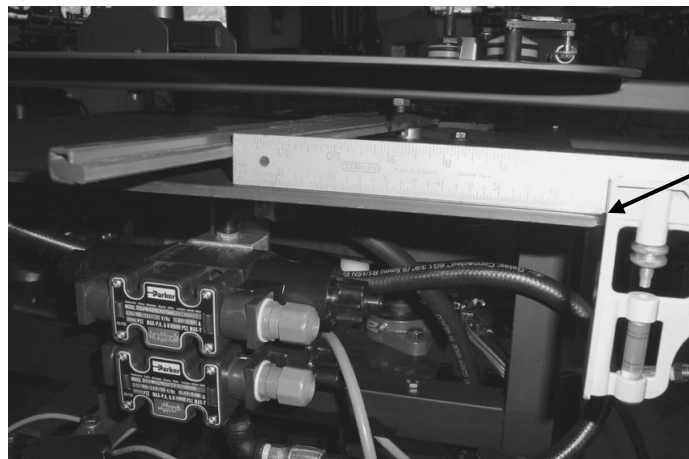


Diagram 53

Positioning Throw Arm When Installing Main Shaft Clutch Assembly

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.

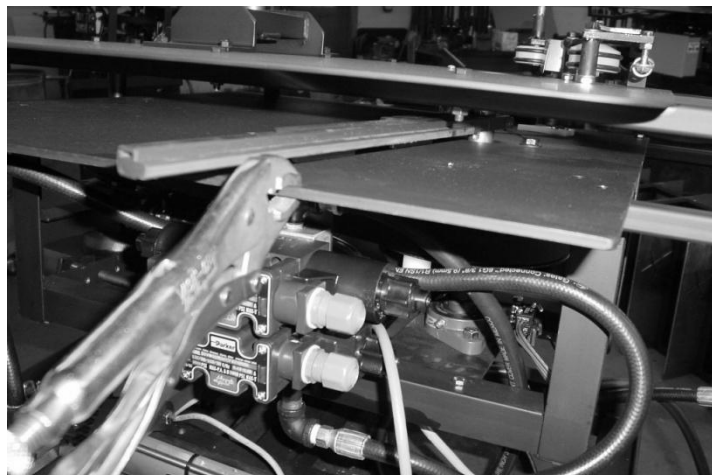


Diagram 54



Securing the Position of the Throw Arm at 6-7/8”

7. Remove the main spring crank handle from the threaded rod by rotating it counter clockwise.

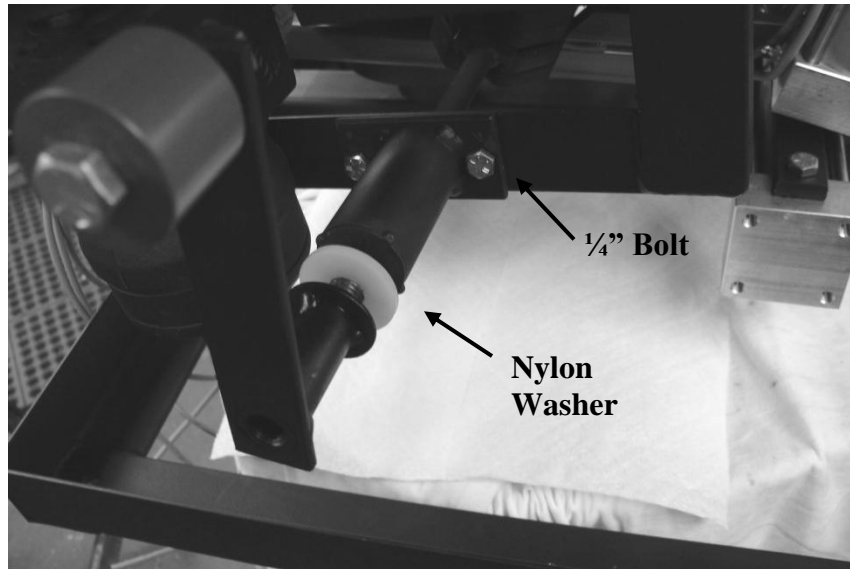


Diagram 55

Backing off the tension on PAT-TRAP® Main Spring Crank Handle

8. Remove the nylon washer that is sandwiched between the crank handle and the stand off collar sleeve (See Diagram 55).
9. Remove the two (2) 1/4” bolts from the stand off collar sleeve (See Diagram 55)

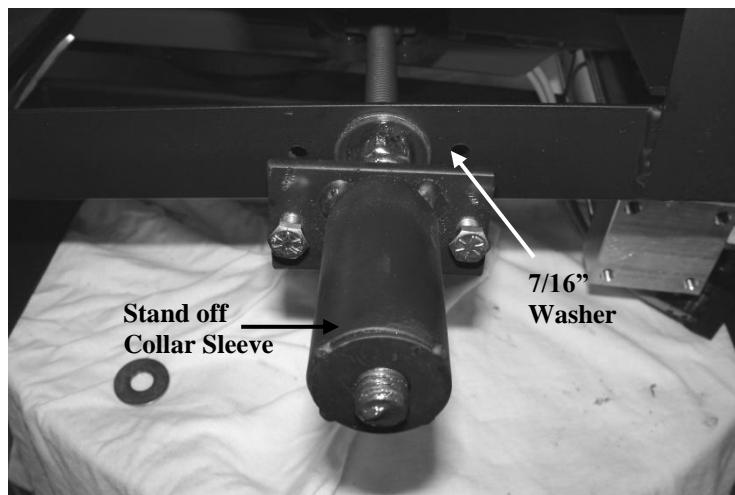


Diagram 56

Removing Main Spring Standoff Collar Sleeve



10. Remove the stand off collar sleeve (See Diagram 56).

11. Locate the elastic lock-nut. Use a 3/4" wrench to remove this nut (See Diagram 57).

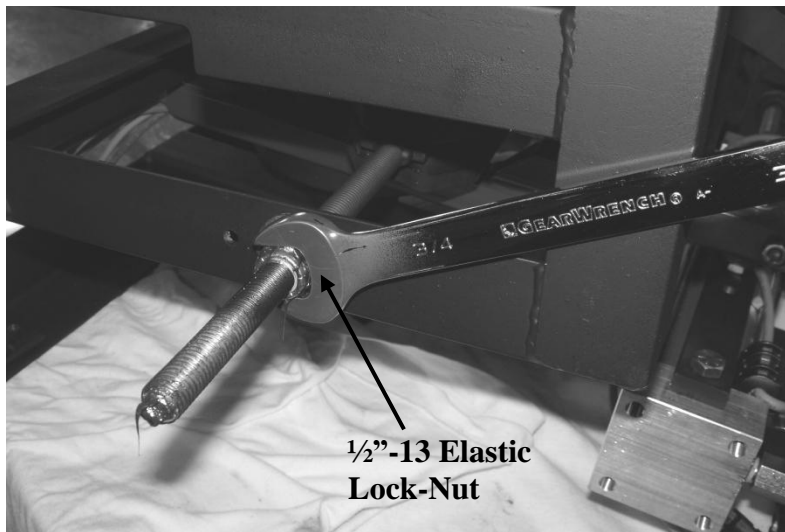


Diagram 57

Adjusting Elastic Lock Nut with 3/4" Wrench

12. One can now loosen the set screw (5/32" Hex Wrench) on the connecting block (rod-end) of the Uni-Band. Pull back and down on the Uni-Band to remove it from the clutch bearing (See Diagram 59).

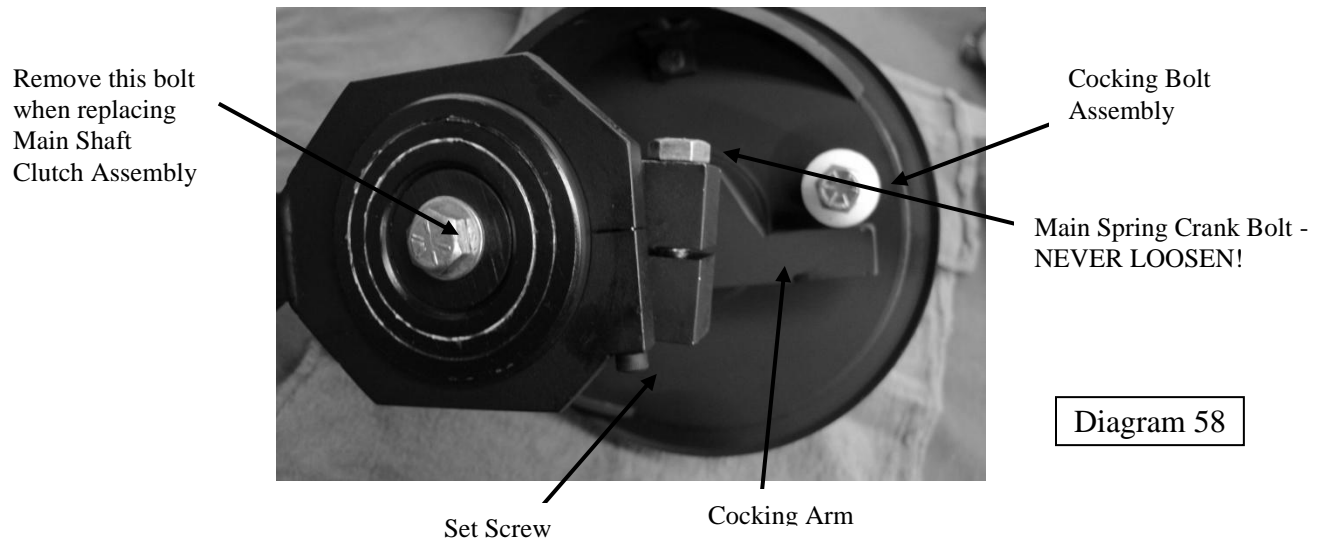


Diagram 58

Main Shaft Clutch Assembly Connection to Throw Arm Crank



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13. Remove the old main shaft clutch assembly from the machine.
14. Put the threaded rod-end through the hole in the frame, and 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). Lightly snug up the rod-end to the clutch using a 5/32" hex head wrench, while keeping the rod-end level to the clutch.
15. Put the 7/16" washer onto threaded rod-end. Then screw on the elastic lock-nut. Refer to "Setting Distance and Speed" page 19. Regarding spring tension and adjustment of the elastic lock-nut.
16. Remove Vise Grip for the Throw Plate.
17. Once the proper distance and speed have been set, re-attach the crank handle, stand-off collar and the crank handle.
18. Inspect the hydraulic hoses to make sure that the rod-end does not rub against them.

WARNING: Do not work on the hoses when the throw arm is cocked. The throw arm must be released and the machine turned off when performing any work on the Pat-Trap[®].