

## EXTENDED HEADING TUBE 'XTHT'

THESE INSTRUCTIONS EXPLAIN HOW TO REPLACE THE STANDARD HEADING TUBE WITH EXTENDED HEADING TUBE 'XTHT' AND CORRESPONDING EXTENDED CON ROD

VERSION 1.0 APRIL 2020

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#### REMOVAL OF OLD HEADING TUBE

1. Disconnect #57 Ball Screw from #63 Con-rod.







- 2. Loosen #83 Groove Wheel Screw to slide off the Grooved Wheel #82 from the Worm #80
- 3. Remove the Worm by tapping out a Worm Bearing #81





- 4. Remove #51 Heading Collar Screw from #16 Heading Collar
- 5. Lift off the #66 Top Mounting assembly from the #64 Heading Tube.





6. Loosen the nut for #88 Worm Box Stud



- 7. Slide off the worm box along with the #90 Bearing Washer (white)
- 8. Remove the two # 54 Top Frame Stud nuts
- 9. Lift off the #64 Heading Tube and attached #72 Top Frame casting.





#### INSTALL NEW HEADING TUBE

10. The new #64 Heading Tube 'XTHT' comes attached to #72 Top Frame assembly. Install these parts with #54 Top Frame Studs and fasten with nuts

### REMOVE OLD #63 CON ROD

- 11. Loosen the 2 #40 Axle Screws that hold the #3 Bobbin in place
- 12. Jiggle the #3 Bobbin sideways to help get the #47 Axles removed



### INSTALL NEW #63 CON ROD AND RE-ASSEMBLE

- 13. Re-set the #47 Axles by first removing the set screws and coating the threaded holes with Loctite. Note the set screws are meant to jam onto the SS Axles. There is a hole in the plastic #1 Axle Sleeve for the set screw to fit through. Also note that the cotter pin on the Bobbin should be facing outwards.
- 14. Slide the #86 Worm Box and #90 Bearing Washer (white) back onto the XTHT
- 15. Slide on the #66 Top Mounting assembly
- 16. Line up the hole in the #16 Heading Collar with the hole in the #64 Heading Tube
- 17. Install #51 Heading Collar Screw using Loctite
- 18. Push-up the #86 Worm Box to the bottom of the #85 Worm Gear Wheel leaving half a milometer clearance (need feeler gauge) between the #16 Heading Collar and the top of the #85 Worm Gear Wheel
- 19. Tighten #88 Worm Box Stud nut
- 20. Re-connect #57 Ball Screw Set into the Con Rod
- 21. Adjust the length of the Conrod so that the #19 Drive Sleeve is in the center of the 2 #36 Drive Rods









- 22. Tighten the 2 Lock Nuts
- 23. Re-assemble the #80 Worm and Axle, #81 Worm Bearing and #82 Grooved Wheel (set screw to lock in place)



