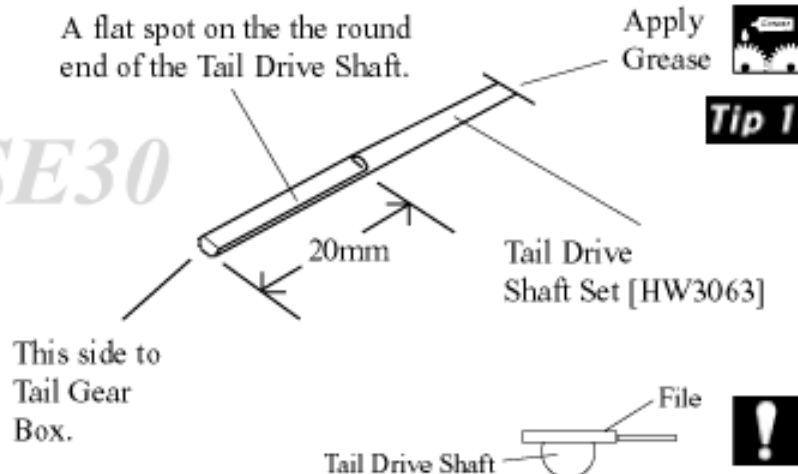


Step 34A Tail Drive Shaft - Hawk 30 SE V2

The Tail Drive Shaft has one end flattened to engage into tail rotor output drive shaft in the main mechanics. The other round end needs a flat spot 20mm long filed onto it as a seat for the two 4x4mm Set Screws in the tail rotor gearbox input shaft. Thoroughly grease the tail drive shaft (**Tip 1**) and insert into the drive housing inside the tail boom, such that the filed end resides at the rear of the tail boom.

This is the end with the two holes. Now degrease both ends of the protruding shaft.

SE30

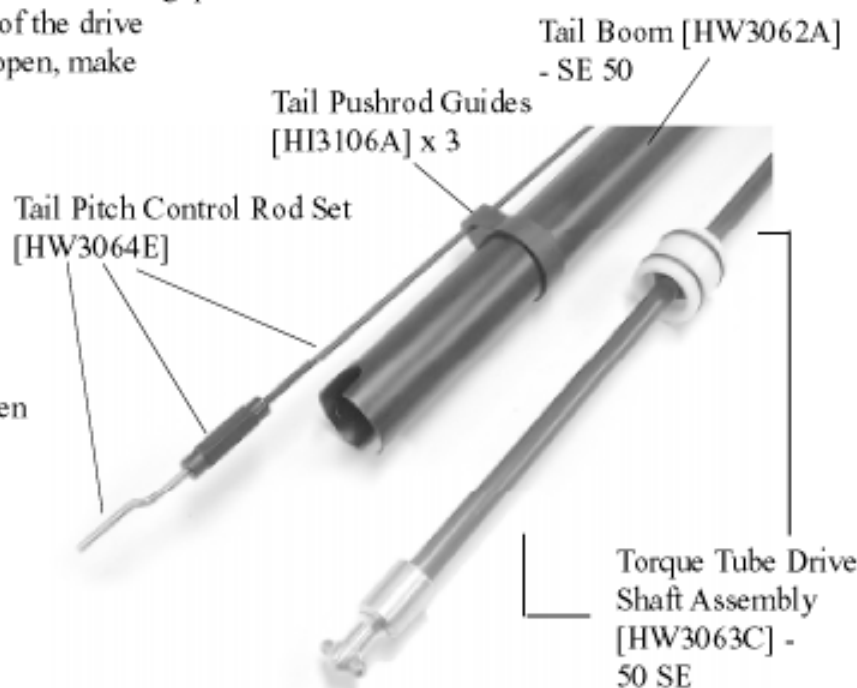


Tip A flat file is the ideal tool for the job, alternately careful use of a Dremel Moto Tool will work. It is important that the flat be at least 1/4 of the diameter but no more than 1/3 to avoid weakening the material.

Step 34B Torque Tube Drive Shaft Assembly & Pushrod Guides - Falcon 50 SE V2

Packaged with the tailboom is the carbon torque tube drive shaft assembly. This is a complete assembly ready to be installed into the helicopter. Using a light oil, apply a few drops to the ball bearing inside the tailboom guide. This should be done every 20 hours of flight or 3 month intervals. Insert the drive shaft assembly into the tailboom from the end with the 2 holes and position the assembly approximately centered in the tailboom (**apply a little liquid hand soap to ease the insertion of the o-ring guides**). Using one half of the tail gearbox assembly with the tail input shaft installed, continue to insert the drive shaft assembly until there is a 1mm gap between the end of the drive shaft and the bottom of the drive coupler. This is simple with the gearbox open, make sure the tailboom is properly keyed into the tail gearbox. Slide the three tail pushrod guides onto the tailboom inserting the straight end of the long section of the tail pushrod through all three from the back. Thread the pushrod coupler onto the straight end of the long pushrod. The shorter section will be threaded into the coupler later when connecting to the rudder servo.

SE50



! Having taken time to properly fit the tail gearbox joint will make the front transmission assembly very simple. Also, after radio set up is complete, glue the pushrod guides using a single drop of Zap Ca. One drop will stop the pushrod from binding and still be able to removable later.