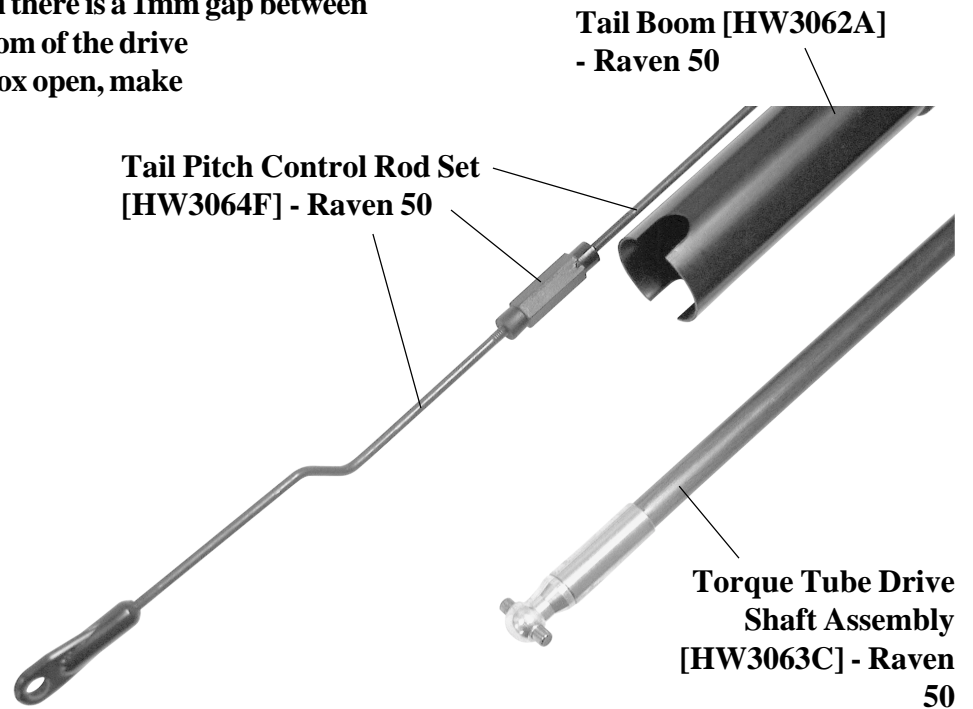


### Step 34B Torque Tube Drive Shaft Assembly & Pushrod Guides - Raven 50

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 engaging tail pushrod. Thread the pushrod connector onto the long pushrod, the short 'z' pushrod will be attached in the rudder servo linkage setup page.



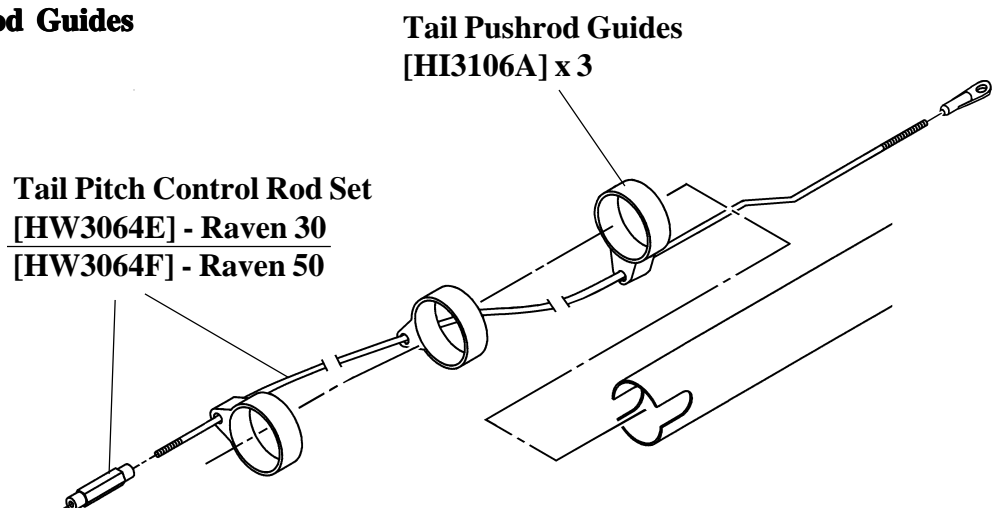
R-50



Having taken time to properly fit the tail gearbox joint will make the front transmission assembly very simple.

### Step 34C Tail Rudder Pushrod Guides

If not already done, slide the three tail pushrod guides onto the tailboom engaging tail pushrod. Attach the pushrod connector and the short "z" pushrod. Align the guides as illustrated in the picture until the pushrod can be moved very smoothly by hand. Once satisfied bond in place with a single drop of Zap Ca. (one drop will allow easy removal later).



Reminder, 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 remove them later.