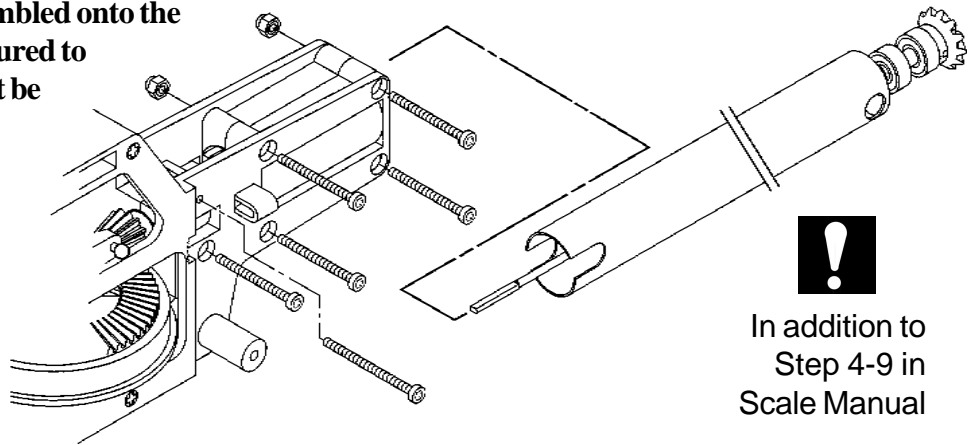


### STEP 3 Attaching the Tail Boom & Tail Pushrod

Before the tail gear box can be assembled onto the tail boom, the tail boom must be secured to the mechanics, the tail pushrod must be installed and the tail pushrod guides must be close to their final positions, however there is no access after the mechanics are installed. Attach the tail boom with the drive shaft assembly and ensure the drive shaft is engaged in the transmission drive shaft. Slide the three tail pushrod guides onto the tail boom and roughly position them equally spaced along the tail boom. Insert the long rudder pushrod from the end of the tail boom but do not attach the plastic pushrod coupler. Complete the remainder of Step 4-9 in the mechanics manual, including attaching the rudder ball link to the tail pitch lever but do not grease the gears in the gearbox. Slide the pushrod back and forth to get the best positioning for the tail guides. Once smooth operation is attained, tape each guide to the tail boom. Following the rudder setup instructions, shorten the threaded section closest the plastic coupler, there is enough thread to remove 5-6mm from each end to position the tail bellcrank at the correct angle.



In addition to Step 4-9 in Scale Manual

Now remove the tail gearbox and take the entire main mechanics (removing the main shaft & muffler makes this easier) with tailboom and insert into the rear fuselage and observe where the pushrod exists the end of the fiberglass tail boom. Make a pencil mark where the tail pushrod exits the fiberglass, this should be directly underneath the tail boom. The rearmost guide may need to be moved forward to properly fit inside the fiberglass tail boom and a 3/32" [2.5mm] slot cut into the bottom of the tail boom to get proper clearance and free movement. If needed, cut the slot with a moto-tool or razor saw and file the edges smooth. A "trim and test" procedure maybe necessary to repeat until the slot is long enough. Once completed, glue the pushrod guides onto the tail boom with slow-CA (only a few drops around the outside are needed to sufficiently attach the guides).

Now remove the tail gearbox and take the entire main mechanics (removing the main shaft & muffler makes this easier) with tailboom and insert into the rear fuselage and observe where the pushrod exists the end of the fiberglass tail boom. Make a pencil mark where the tail pushrod exits the fiberglass, this should be directly underneath the tail boom. The rearmost guide may need to be moved forward to properly fit inside the fiberglass tail boom and a 3/32" [2.5mm] slot cut into the bottom of the tail boom to get proper clearance and free movement. If needed, cut the slot with a moto-tool or razor saw and file the edges smooth. A "trim and test" procedure maybe necessary to repeat until the slot is long enough. Once completed, glue the pushrod guides onto the tail boom with slow-CA (only a few drops around the outside are needed to sufficiently attach the guides).

### STEP 4 Tail Gearbox Assembly & Vertical Fin Mounts

Insert the main mechanics (with the main shaft removed) with the completed rudder pushrod guides permanently installed, insert the mechanics past the pre-drilled landing gear holes until the end of the tail boom extends past the fiberglass by 1/2" [12mm], be carefull not to pull out the tail drive shaft with the bearings as the forward joint can be disengaged, requiring disassembly to re-attach. Assemble the tail gear box with the tail blade assembly onto the right side (as viewed from behind) over the tail boom, aligning the tail input gear into the mating recesses in the gearbox. Liberally apply grease to the tail gears and close the tail gearbox with left side, securing them together with two M3x12, one M3x10 Socket Cap screws and three M3 Locknuts. Insert two M3x20 Socket Cap screws from the right side of the gearbox and attach two 10mm threaded fin mounts using threadlock. The fin mounts will need to be held with smooth jaw pliers to be sufficiently tightened.

Cut a piece of 1/4" radio foam 1/2" wide by 2" long (same as used to isolate receiver and battery from vibration), while moving the mechanics to align to the landing gear holes, insert the foam in-between the metal tail boom and the fiberglass tail section, this will cushion the tail boom but make disassembly simple.

