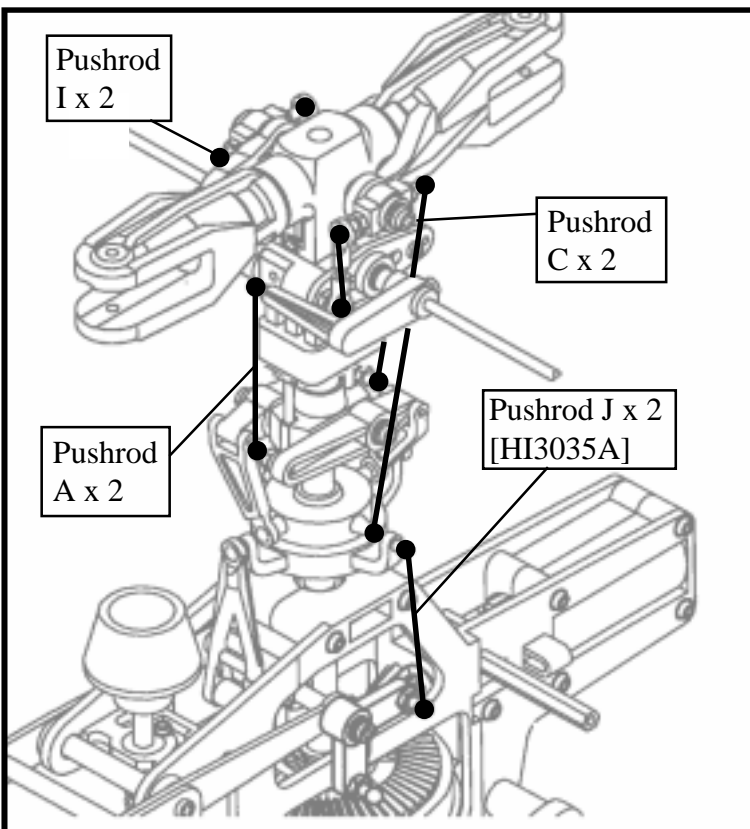


STEP 41-43 Rotor Head Linkages & Elevator Linkage

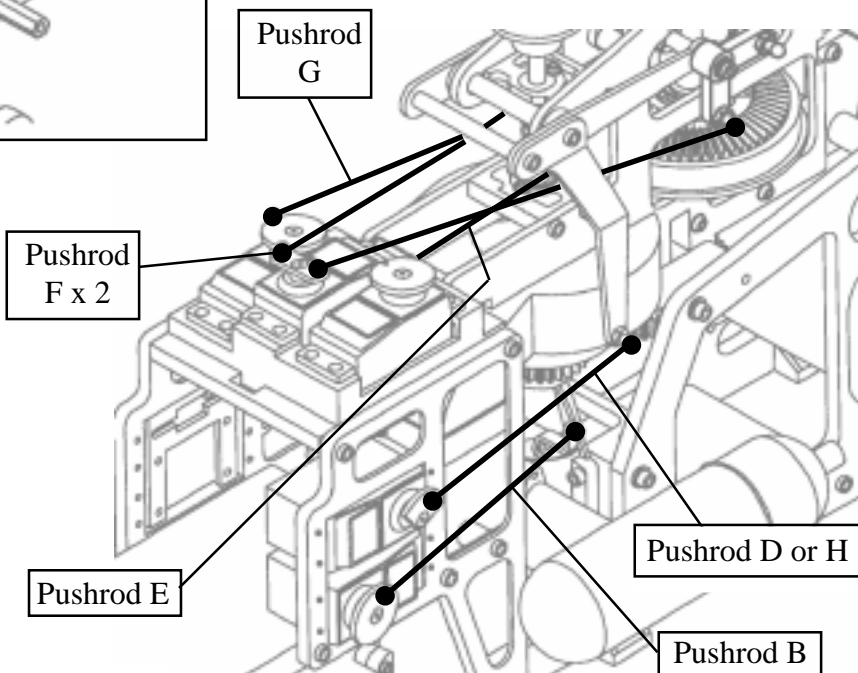


Step 41

When attaching all pushrods, make sure same length pushrods are actually the same length from the beginning otherwise it will be difficult later to figure out where the linkage problems are coming from. The entire rotor head is set up the same way for both types of radios. Attach the two Pitch Arm to Washout pushrods (A), the two Bell Mixer to Inner Swashplate pushrods (C) and the Aileron Bellcrank Swashplate pushrods (J). Pushrod (I) was previously installed in Step 4.

Step 42

The lower linkages (helicopter radio) are shown here to illustrate the general setup and layout of the servo linkages to the respective control surfaces.



Step 43

The Elevator linkage is set up the same for both Helicopter and Airplane radios, the elevator pushrod controls the tilt of the swashplate forward and backward which causes the helicopter to pitch forward or backward (hence fore-aft cyclic pitch).

Use a servo horn in the shape of a cross and trim the 3 of the 4 arms off. Install one steel ball and one 2mm nut at a distance of 10mm from the center of the servo (**mount the ball directly against the bottom of the servo arm and tighten the nut on top, trim off the screw level with the nut to avoid hitting the Aileron pushrods**), remember to use threadlock. With the radio on and the elevator trim set at the center, attach the elevator pushrod (E) to the elevator bellcrank, then attach the servo horn at an angle of 10-15 degrees behind center of the servo (the offset enables an equal throw of the swashplate). **It is important that the swashplate sit at 90 degrees to the main shaft.**

Note, for Airtronics servos, the ball needs to be installed on the top of the servo horn requiring the aileron servo to be moved up. This can simply be done with 1/4" thick (6mm) spacer make from wood or plastic with the appropriate holes drilled.