

The rudder pushrod changes the pitch of the tail rotor blades to increase or decrease the torque compensation and to rotate the nose of the helicopter about the main shaft.

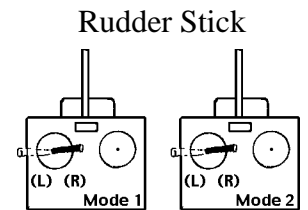
Use a servo horn in the shape of a cross and trim 3 of the 4 arms off. Using threadlock on the nut only, install one steel ball and one M2 Hex nut at a distance of 10-14mm from the center of the servo. Thread the front part of the tail rotor control pushrod (the shorter part) (G) through the rear guide in the upper frames. Thread it into the plastic hex connector and attach the ball link to the servo end. Having the radio on and the rudder trim centered, press the servo horn onto the servo set at 90 degrees to the servo and align the rudder bellcrank to 70 degrees as shown in the diagram.

Airwolf, Agusta 109, Bell 222, Long Ranger, Bell 47G II

The length of the rudder pushrod is slightly different with each scale model, as defined by the length of the tail boom. In each of these named scale models, the rudder pushrod length needs to be trimmed, which is easy as there is plenty of thread length on each end of the pushrods. Trimming up to 5mm is suggested on each end, but get the pushrod in place first to see exactly how much to trim, remember to allow for some adjustment.

Tip The accuracy of the rudder pushrod really comes down to the type of gyro that will be installed in the scale model. The scale die-hards recommend flying with a regular rate gyro, read *not Heading-Hold* as the model will fly much more realistic in terms of the tail gracefully following the nose. This is the truth but our general recommendation is to get a gyro that offers both Heading-Hold mode and Rate mode.

Set the model to fly in rate mode by adjusting the length of the pushrod until the nose remains straight. Only use the mechanical trim to adjust for changes in windspeed during a particular day.



As the rudder stick is moved to the right the rudder servo will rotate clockwise and the pushrod will move backwards increasing the thrust in the tail blades rotating the nose to the right.

