

**Procedure 7.030
Aileron Rigging Procedures**

In this procedure...
The aileron control system will be adjusted to achieve proper aileron throw.

Step 1. Center Control Sticks.

Center the control sticks in both the Pitch and Roll positions. With the fuselage level use a bubble level to verify that the stick is in the vertical position, in both the Pitch and Roll axis.



Step 2. Position Aileron Torque Tube.

Position the aft arm of the aileron torque tube so that that the inboard edge of the horn is centered over the top inboard bolt. Adjust the inboard torque tube and connect it to the stick base and the aileron torque tube.

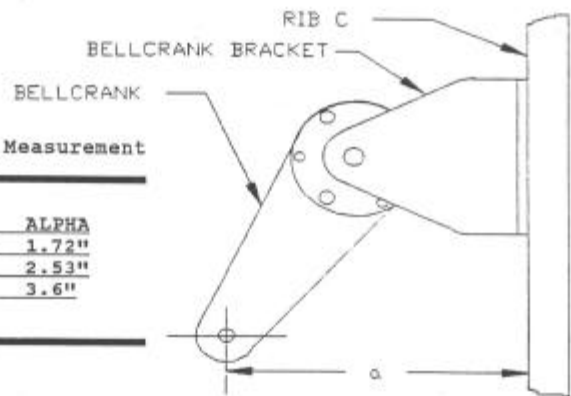


Step 3. Adjust Mid Aileron Push/Pull Tube.

Position the aileron bellcrank at the neutral setting and adjust the mid aileron push/pull tube and connect to the aileron torque tube and aileron bellcrank.

Table I: Alpha Measurement

| AILERON POSITION | ALPHA |
|------------------|-------|
| Down | 1.72" |
| Neutral | 2.53" |
| Up | 3.6" |



Step 4. Adjust Aileron Outboard Push/Pull Tube.

Clamp the aileron in the natural position and adjust the outboard aileron push/pull tube and connect to aileron bellcrank. Tighten all push/pull tube connections. Remove the stick centering lock and check for travel. The ailerons should travel 18° up and 10° down. Adjust the aileron travel using the stops on the elevator torque tube assembly. Make sure you have the proper differential travel.

