

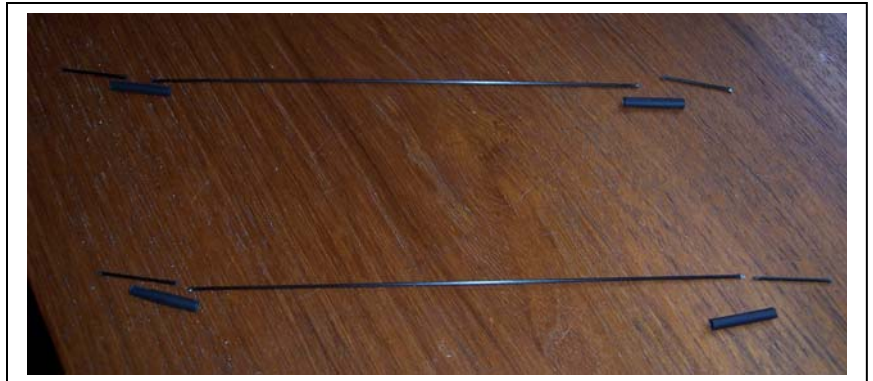
(7) “Arrow” Aileron Servo & Linkage

Before you advance any further, you should pin all four ailerons in the neutral position as you did with the elevator and rudder.

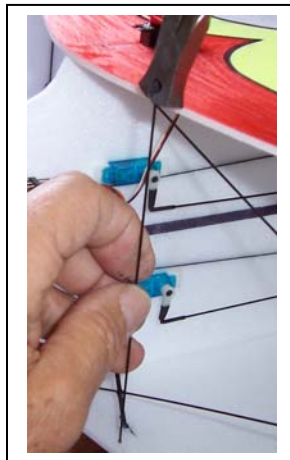


Next you can begin cutting required pieces for the Aileron to Aileron linkage.

- 4 – 7/8 inch long pieces of .040 carbon rod
- 4 – 3/4 inch long pieces of heat shrink tubing
- 2 – Connecting rods (see following for length)



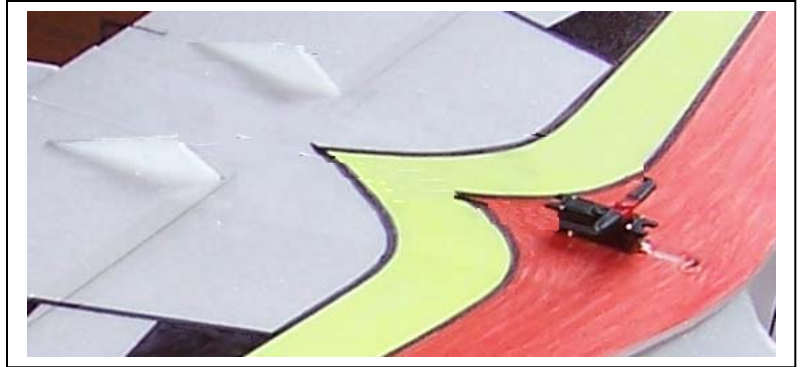
The correct length of the connecting rod is the distance between the wing plus 1.5 mil (half the thickness of the depron)



Next complete the assembly of the connecting linkages and secure the ends of the heat shrink tubing with CA adhesive. Once this is done you can place the linkage in the slots provided in the ailerons and secure with CA adhesive as shown to the right.



You can begin this process by placing the servo in the upper wing and gluing in place.



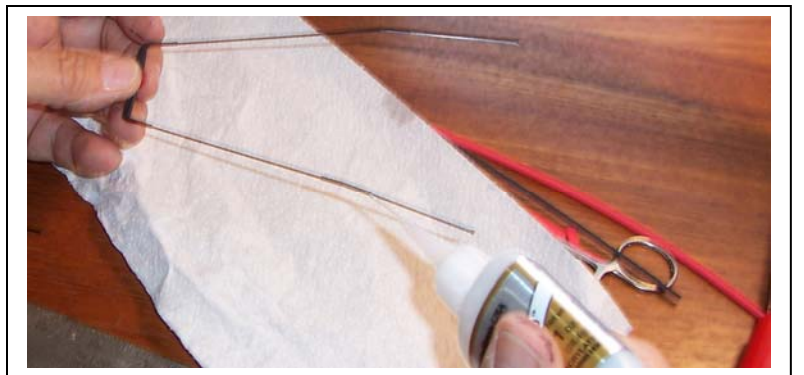
Now that the aileron to aileron linkages are in place you should remove the pins holding the ailerons in the neutral position.



You are going to again pin the ailerons, but this time position both ailerons where the bottom of the aileron meets the top of the wing. This will position the ailerons 3 millimeters higher than intended, but they will settle into the correct position once the linkage is completed.

Remove the servo arm from the servo and attach two pieces of .040 carbon rod longer than needed to reach the aileron hinge line using the same procedure used to attach the rudder and elevator servo arms to their control rods. You can place the heat shrink with the servo arms removed.

Reattach the servo arm on the servo in the neutral position and cut the carbon rods exactly at the hinge line as seen in the image above.



Next remove the servo arm again with rods attached. Now cut two 2 inch .040 rods and attach to the aileron control rods.

Once this is done, secure with CA adhesive as shown in the image to the right.

Everything is now ready for placement and securing control rods to the control wedges on the ailerons.

