

**STOL CH 801 STABILIZER ASSEMBLY – SECTION 4**  
**“INSTALLING FIBERGLASS TIPS”**



**FIBERGLASS H.T. TIP**  
**8H4-4**



The clecos in this photo are holding the tip rib 8H4-5 in place. Photo shows the left tip in the correct position for installation.



This work is best done with the elevator and horizontal tail installed on the aircraft.

Secure the elevator in a neutral position. Mark the rivet centerline on the tip and bottom skin 10mm in from the edge.



Push the fiberglass H.T. tip into the radius of the skin

Detail of right side.



Small gap is acceptable.

Detail of the left leading edge



Extend the rivet centerlines as shown.



Fit the fiberglass tip keeping it level and its nose tight to the inside of the nose skin.



Straight edge on top of stabilizer to locate elevator neutral position



Elevator neutral position: lay a straight edge over the top of the stabilizer, bring the elevator to the straight edge.





**CHECK:** Position the ends of the fiberglass tips in line with the trailing edge of the elevator (when elevator in neutral position).



Acceptable misalignment between the left and right of the fiberglass tips and the elevator trailing edge.



Keep the gap uniform - about 5 to 6mm is good.



**A4 PITCH 40**  
8H6-3 into 8H4-4

Hold the tip in place and drill one hole at either end. Stand back and take a look if you are satisfied; continue drilling and clecoing the tip in place. Repeat for the other side of the horizontal tail.



**TIP BACKING RIB**  
**8H4-5 qty= 1L +1R**

The tip rib.



Tip rib with hole opened to 35 to 50mm to provide clearance for the elevator hinge ping and cotter pin.



**A4 PITCH 40**  
8H4-4 into 8H4-5

Install the tip rib behind the elevator hinge.



Extend the rivet pitch centerlines to the rear of the fiberglass tip.  
Drill and rivet the rib in place. Repeat the process for the other side.

That's it! You're Done.