

STOL CH 801 WING SLATS ASSEMBLY

SECTION 3

“INSTALLING THE SLATS TO THE WINGS”

Compass Check

1. Join the two slat sections.
2. Trial fit to aircraft.
3. Trim to length and install tips.
4. Set and position for ultimate performance.
5. Drill next holes and install bolts.

STOL CH 801 WING SLATS ASSEMBLY

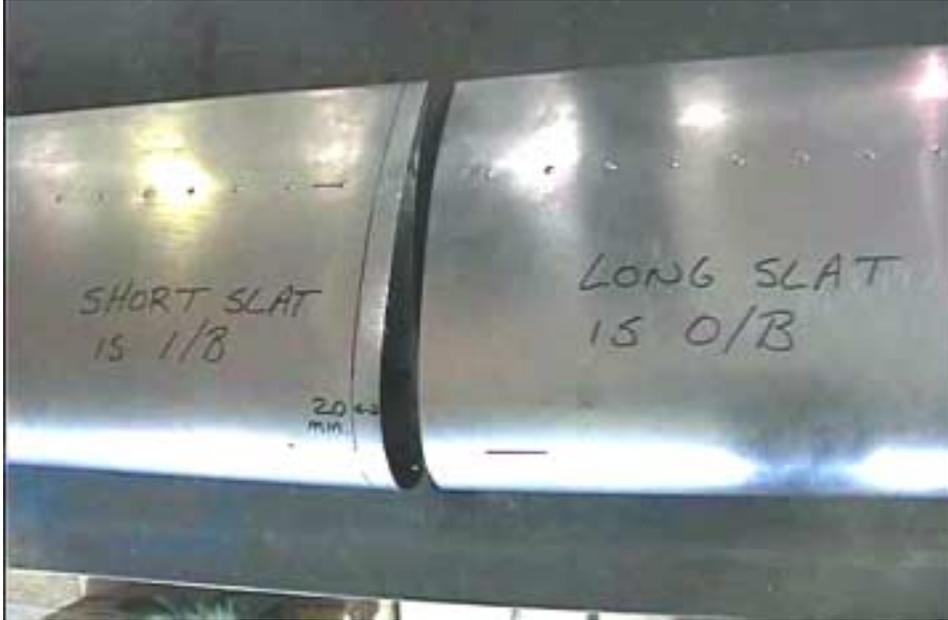
SECTION 3

“INSTALLING THE SLATS TO THE WINGS”

Helpful Hints

1. Take extra time to make sure the sections are joined true and straight.
2. Obtain the assistance of a helper.
3. When making the final installation take your time. Clamp the slats in position then leave them for a day, take a fresh look the next day, bolt in place after any final adjustment.

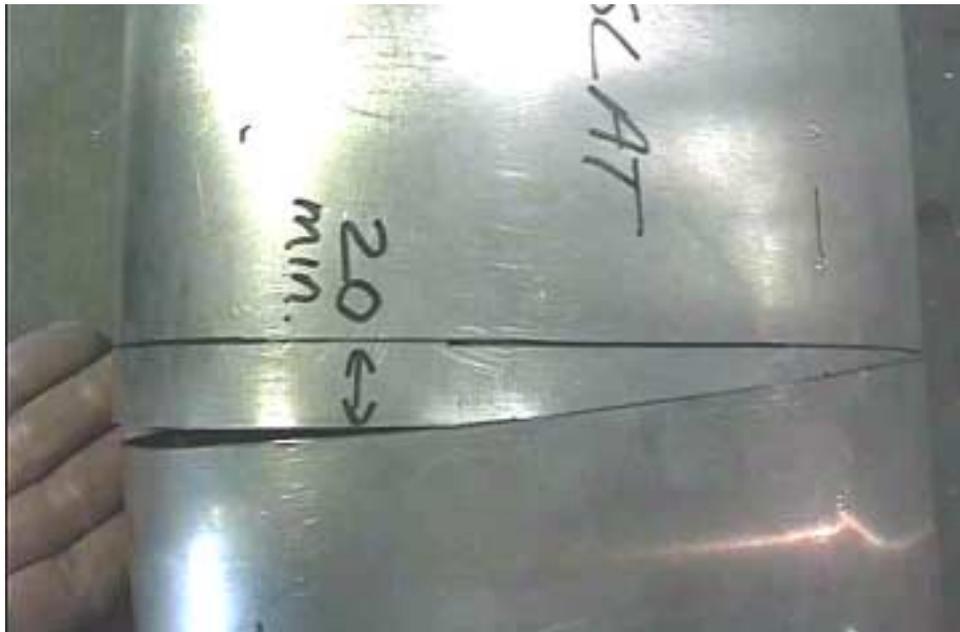
STOL CH 801 SLATS ASSEMBLY - SECTION 3
"INSTALLING THE SLATS TO THE WINGS"



file S-63

Photo S4-1

Place the Inboard and Outboard slat sections on the work table as shown above.
Mark a line on the Inboard slat section 20mm in from it's Outboard edge.



file S-64

Photo S4-2

Fit the sections together - small end first.



file S-65

Photo S4-2a

Slide the Inboard section into the Outboard until the edge of the Outboard meets the 20mm line on the Inboard section.



file S-55

Photo S4-3

Measure the slat pick up distance on the wing. Measurement is from wing station #3 to # 5.



file S-66

Photo S4-4

Check to see that the distance is the same across the two center attachment brackets on the slats.

Make any adjustments necessary by sliding the two sections in or out..



file S-67

Photo S4-5

Temporarily secure the two sections of the slats together with masking tape.



file S-53

Photo S4-6

Make sure the slats sections are straight before securing them with the tape.



file S-54

Photo S4-7

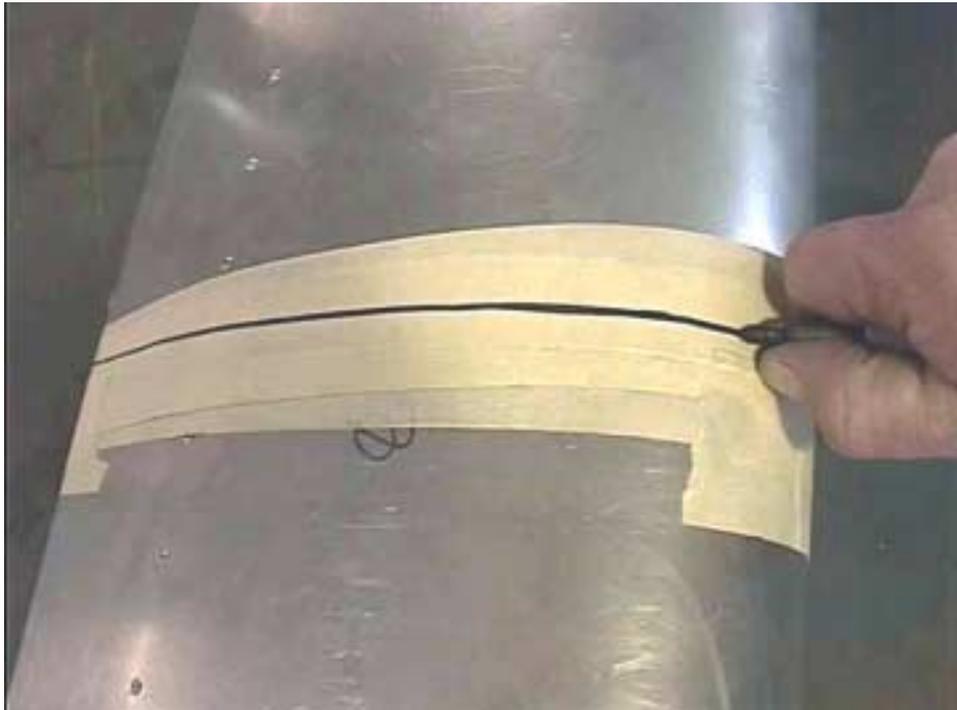
Trial fit the assembly to the aircraft.



file S-56

Photo S4-8

Remove the assembly from the aircraft and identify the edge of the Outboard slat by pressing against the edge through the masking tape.



file S-57

Photo S4-9

Layout a rivet pitch line 10mm from the edge.

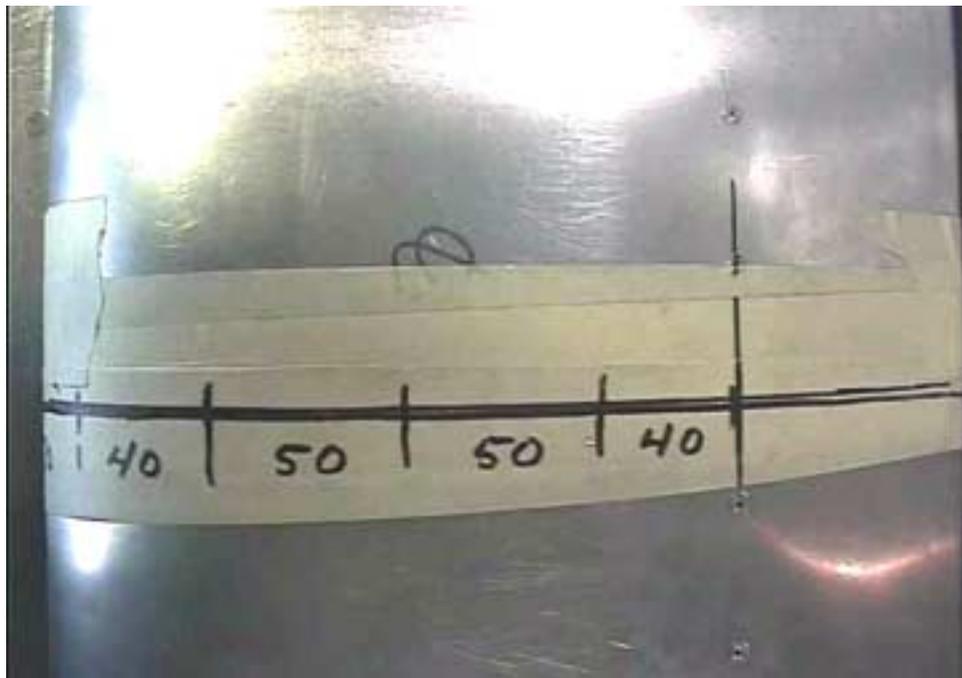


Bottom View

file S-59

Photo S4-10

Plot the rivet pitch.

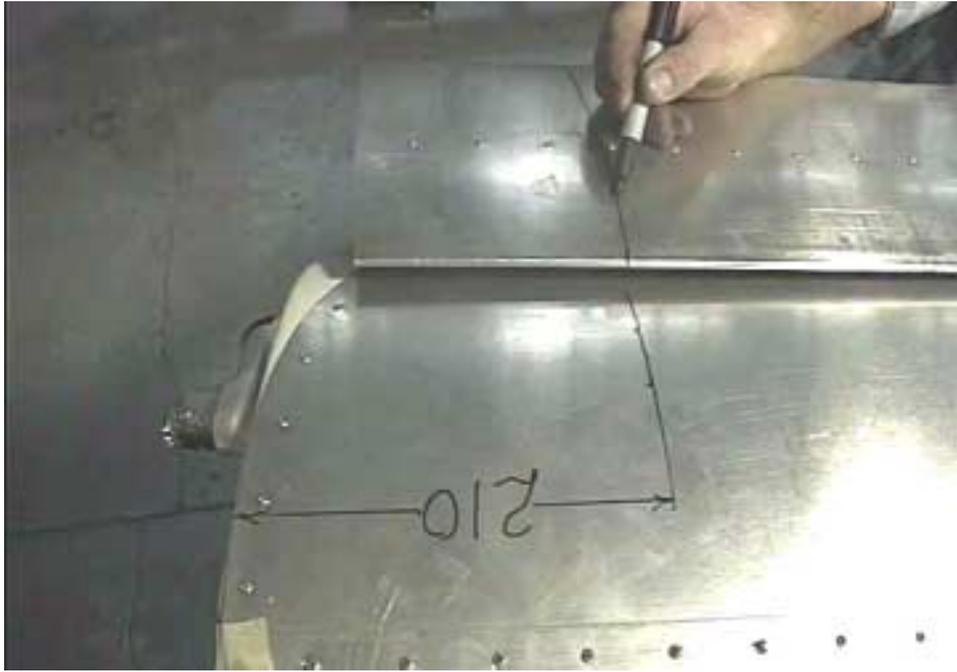


Top View

file S-58

Photo S4-10a

Pitch the rivet line, drill and rivet the assembly together.



file S-52

Photo S4-11

Reinstall the assembly on the aircraft and mark the Outboard end for trimming to length. The Inboard will not require trimming.



file S-62

Photo S4-12

Remove the assembly and trim to length.



file S-69

Photo S4-13

Mark holes as shown to position fiberglass tip.



file S-68

Photo S4-14

Install the tip rib Inboard and Outboard and rivet in place.



file S-70

Photo S4-15

When installing the tip rib the rivets in the pickup "L" will be removed. They are replaced when the tip is installed.



file S-71

Photo S4-16

Reinstall and clamp the slat in position with 18mm thick blocks between the wing and the underside of the trailing edge of the slat.



file S-73

Photo S4-17

Adjust the position of the assembly until the smooth line is developed as shown in the photo above.



file S-73

Photo S4-18

Adjust the position until the lower edge is flush with or 1 - 2mm below the lower edge of the wing surface.



file S-76

Photo S4-19

A quick check from the wing spar rivet line is a good idea.
A consistent diameter along the entire wing is the objective.



file S-77

Photo S4-20

Drill the mounting holes to 3/16 diameter and install the bolts and lock nuts.
Repeat for the other wing, strive to keep the installation of the second side identical to the first.

STOL CH 801 FLAPERON ASSEMBLY - SECTION 3
"INSTALLING THE SLATS TO THE WINGS"

I have checked my work and parts list and confirm to myself, that all items listed in this portion of the elevator hinge have been installed.

Signed: _____ Date: _____

