

NTSB# ERA24LA251

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Tennille, Georgia

Assembly Manual, Elevator Excerpts (SuperSTOL Chapter 1)

STEP 4

Mark the hinge for the rivets that will locate it on the elevator and tab. Pilot drill the holes for a rivet to be placed at each male tab on the hinge, *see picture in Step 1.*

STEP 5

With the hinge in position between the elevator and trim tab, pilot drill through the hinge into the 2 components (elevator and trim tab). Now drill out all the holes for the CCP42 1/8 x 1/8 Stainless rivets. It is recommended that you don't actually rivet the components until the final assembly phase, after covering / painting etc. is finished.

10. ELEVATOR CONTROL INSTALLATION

The two F-1380 control sticks are connected together inside the F-1260 mixer.

STEP 1

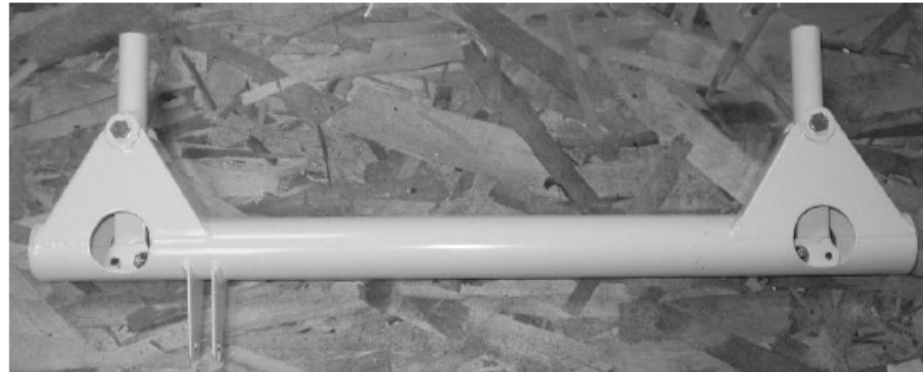
Take the F-1280 connecting rod and to each end screw a lock nut (AN316-4R) and fork end (AN486-4P).

STEP 2

Install the control stick pivots into the mixer F-1260.0 using the AN4-20 bolts.

STEP 3

The ends of the connecting rod (fork ends) are bolted to the control stick pivots (F-1261.0) using AN3-5 bolts, AN960-10 washers and AN 310-3 castle nut with AN 380-2-2 cotter pin. They should be positioned such that both sticks are parallel. Adjust the length of the connecting rod by screwing the fork ends (it may help temporarily to fit the control stick to the pivot). Ensure free movement and grease the bolts before final assembly. *See picture below.*



STEP 4

The nylon control mixer bushings F-1310 (4 pieces - 2 pairs) locate over the control mixer and are secured to the airframe mounting tabs (which should be reamed) using the AN3-25A bolts. 2 AN970-3 Penny washers should be used on each bolt between the UHMW blocks to act as a crush spacer and under the bottom on the UHMW blocks to acts as a surface bearing. Secure with an AN960-10 washer and an AN365-1032A nut. (It may be necessary to machine a notch in the bottom blocks to allow for bolt length or add additional washers to make up for bolt length.) *See picture below.*



(Mixer, from front)

AN970-3 Washer

The bushings should give a snug fit. The top bushing can be drilled with a 1/8" oil hole in the center if you wish.

STEP 5

Nylon stops are fitted to inhibit sideways movement of the control mixer assembly. Locate the mixer assembly centrally. Rivet each F-1310.1 UHMW strip to the control mixer on the outer side of the bushings (between them and the control mixer towers) with two of the CCP44 1/8 x 1/4 Stainless rivets. *See Picture below*

