

## Flap Linkage Installation

The flap linkage is driven by a linear actuator that is located on the left side of the aircraft just behind the center section aft spar.

Refer to print **T51-03-INS-0929**. Insert the two MT03-137 bushings into holes in the triangular shaped brackets that are welded to the frame. Slide the MC03-155 flap torque tube into the MC03-158 LH flap driver as far as it will go. Place the RH flap driver into the bushing on the right side of the fuselage. Then place the LH flap driver with the torque tube into the left side bushing. While in place, partially slide the torque tube out of the LH flap driver and into the RH flap driver. Make sure both drivers remain seated against the bushings. Drill 3/16" holes into the flap torque tube using the holes in the drivers as guides. Install four AN4-13A bolts to secure the assembly in the frame and to lock the flap torque tube to the flap drivers.



Left side flap driver and flap motor installed.

**! Attention to builders of early kits** Early kits will have 1/4" holes drilled in the flap drivers. If the kit you are building has 1/4" holes, drill through with a 1/4" drill. Attach with two AN4-13A bolts. Cross-drill an additional 3/16" hole in each of the flap drivers as shown on the print. Install AN3-13A bolts in the additional holes.

Attach the TE98-21 flap motor (linear actuator) to the flap motor mount (MC03-121). Attach the ball joint end of the flap motor to the LH flap driver. Early kits had the center section mount in a slightly different location so washers or a spacer may need to be added between the ball joint and flap driver.

**! CAUTION** The ball joint threads and jam nut must be locked securely to the end of the flap motor or it will unscrew in flight. Apply Loctite 242 to the ball joint threads and the jam nut before final assembly.

Attach two 1/4" ball joints and two jam nuts to each flap link. Install the links between the flap drivers and the flap control horns. The flap control horns are attached to the

flaps at the factory.

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