



S.A. 31T-3
August 19, 1981

Modification FAA / DOA EA-1 Approved

To: Affected CORPAC's

Attention: Corpac Service Administrator

Subject: Aileron Balance Weight Replacement

Model Affected: PA-31T2 Cheyenne II XL

Serial Numbers Affected: 31T-8166006 through 31T-8166010

Compliance Time: Within the next one hundred (100) hours of operation or at the next scheduled event, whichever occurs first.

Purpose:

Our records indicate that you have taken delivery of one or more of the above-listed airplanes. It has been determined that these aircraft require aileron balance weights of a different size and weight of those installed at the factory.

Instructions:

1. Remove both ailerons from the aircraft.
2. Remove the aileron balance weight assembly (Part Number 81865-02) and outboard tip weight assembly (Part Number 494 402, left; 494 403, right) from each aileron.
3. Install a new aileron balance weight assembly (Part Number 81865-06) and outboard tip weight assembly (Part Number 494 402, left; 494 403, right) on each aileron.

NOTE: Although both sets of tip weights have the same part numbers they differ in size and weight. Refer to Sketch "A".

(over)

Instructions: (continued)

4. Check for proper aileron balance as follows (refer to Sketch "A"):
 - a. Place the aileron balance jig on a level, secure surface.
 - b. With bolts installed in the aileron hinge brackets, align the aileron on the jig with the bolts on the knife edges as shown in Sketch "A". On the right aileron secure the tab to the aileron with tape.
 - c. Be sure the aileron rotates freely with no binding at the knife edges.
 - d. Procure at least seven (7) test weights of 0.1 lb. each.
 - e. At the inboard end of the aileron, measure back six (6) inches from the hinge centerline towards the trailing edge of the surface.
 - f. Starting with .2 lb. on the test point, add the test weights (in 0.1 lb. increments) until the aileron balances. The surface must balance with no more than 0.5 lbs. on the test point. If the aileron is leading edge heavy, indicated by more than .5 lbs., up to 4 oz. may be removed from the tip balance weight.
5. With the balance check complete, reinstall the ailerons.
6. Make appropriate logbook entry.

Material Required:

One (1) each Aileron Tip Weight (left), Part Number 494 402.

One (1) each Aileron Tip Weight (right), Part Number 494 403.

Two (2) Aileron Balance Weight Assemblies per aircraft, Part Number 81856-06.

Availability of Parts:

Enclosed for affected aircraft.

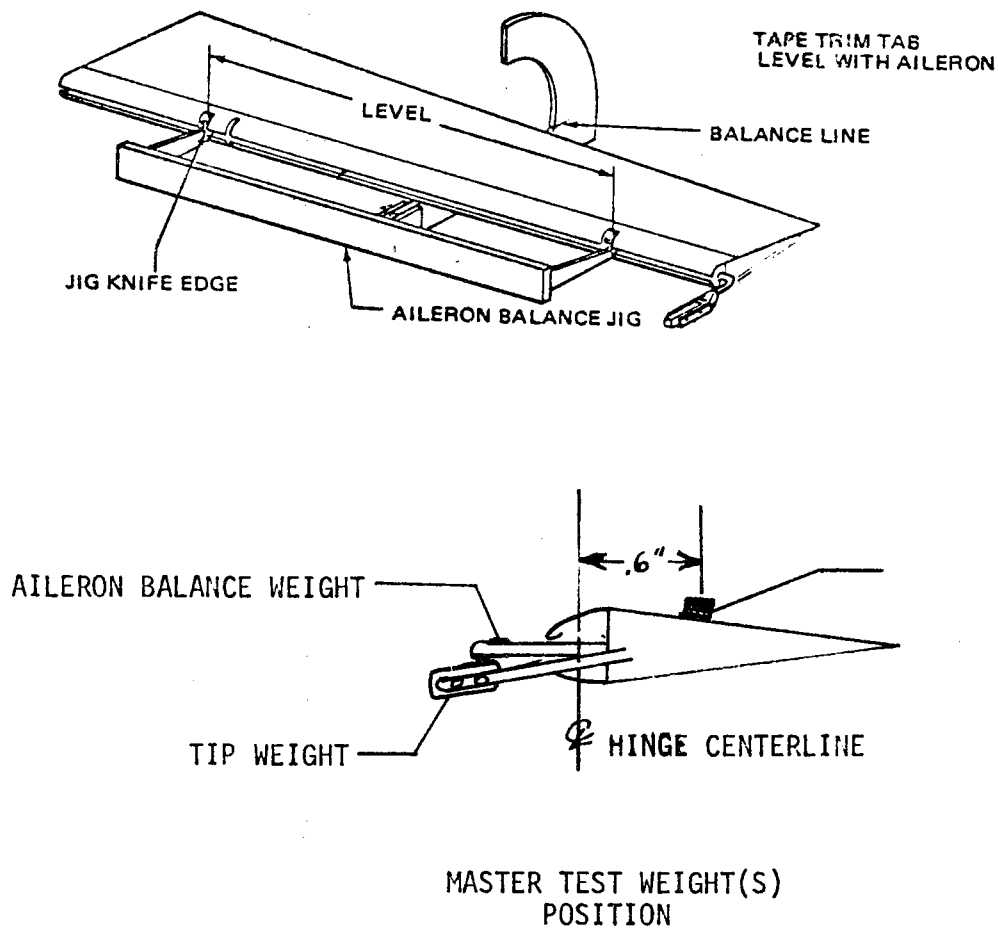
Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please arrange for compliance of affected aircraft in your area in accordance with Compliance Time, above. Material is enclosed at no charge and credit is available for up to five (5) hours labor, provided Product Condition Compliance Report is received within 90 days of the date of this release. After 90 days, price of material will be charged to affected account, and labor allowance will expire.

NOTE: To insure 100% compliance, Piper Aircraft Corporation requires confirmation via telex. Upon compliance please contact Customer Services, Piper Aircraft Corporation, Lock Haven, Pennsylvania 17745 USA. Telex No. 841425.



Test Weights: .1 lb. each
Weight Tolerances: .2 lb. to .5 lb.

NEW TIP WEIGHTS
494 402: 1.38 lbs. \pm .05 lb.
494 403: 2.38 lbs. \pm .05 lb.

SKETCH A