



SERVICE BULLETIN

No. 690

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA Approved

July 7, 1980

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Subject: Elevator Balance Weight Inspection

Models Affected:

Serial Numbers Affected:

PA-31, PA-31-325 Navajo

31-7401201 through 31-8012076,
31-8012078 and 31-8012079

PA-31-350 Chieftain

31-7405401 through 31-8052169,
and 31-8052172

Compliance Time:

Within the next one hundred (100) hours of
operation or at the next scheduled inspection,
whichever occurs first.

Purpose:

It has been determined that some of the above-listed aircraft may have been delivered with incorrect elevator balance weights installed. To insure correct balance weight installation, the parts should be verified, and elevators should be marked with a reidentification to document verification.

This Service Release provides instructions for the inspection and, if required, replacement of balance weights, and reidentification of the elevators.

Instructions:

1. Remove elevator tips to expose balance weights.
2. Inspect large balance weights for correct part numbers in accordance with the following table:

<u>Model</u>	<u>Part Number of Large Balance Wt.</u>	<u>Dimensions (WxHxL)</u>
PA-31	No Balance Weight Required	(See <u>Instruction 5.</u>)
PA-31 with Nacelle Locker	44243-00	.19 x 1 x 9.50 inch
PA-31-325	54196-02	1.00 x 1.04 x 9.50 inch
PA-31-350	53104-00	.34 x 1 x 9.50 inch

NOTE: If Part Numbers are not visible, identify weights by dimensions.

3. If the correct weights are installed, reinstall elevator tips and proceed to Instruction 5.

(over)

Instructions: (continued)

4. If an incorrect weight is installed, proceed as follows:
 - a. Reference appropriate Maintenance Manual, Section IV, for detailed removal, installation and balancing instructions.
 - b. Install correct balance weight per above table.
 - c. Balance elevators per appropriate Maintenance Manual and reassemble.
 - d. Reinstall elevators and check operation.
5. Installation of the correct balance weight requires reidentification of the elevators. Using a metal stamp or electric pencil, add the appropriate identification to the part number data plates located on the inboard ribs of the elevators as follows:

<u>Model</u>	<u>Was</u>	<u>Revise To</u>
PA-31	Elevator P/N 43757-18	43757-180
	Elevator P/N 43757-17	43757-171
PA-31-350	Elevator P/N 43757-17	43757-175
	Elevator P/N 43757-18	43757-184
PA-31	Elevator P/N 54232-2	54232-20
	Elevator P/N 54232-3	54232-31
PA-31-325	Elevator P/N 54232-2	54232-22
	Elevator P/N 54232-3	54232-33
PA-31-350	Elevator P/N 54232-2	54232-24
	Elevator P/N 54232-3	54232-35
PA-31 (With Nacelle Lockers)	Elevator P/N 43757-17	43757-173
	Elevator P/N 43757-18	43757-182
	Elevator P/N 54232-2	54232-26
	Elevator P/N 54232-3	54232-37

6. Make appropriate logbook entry of compliance with this Service Release.

Material Required:

If required by inspection, one (1) or two (2) per aircraft, Elevator Balance Weight as identified in Instruction 2.

Availability of Parts:

Your Piper Field Service Facility.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to arrange for compliance with the provisions of this service release in accordance with Compliance Time, above.