



Piper Aircraft Corporation  
Vero Beach, Florida, U.S.A.

# SERVICE <sup>No. 826A</sup> BULLETIN

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\* PIPER CONSIDERS \*  
\* COMPLIANCE MANDATORY \*  
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FAA Approved

Date September 22, 1986 M

(Service Bulletin No. 826A supersedes and voids Service Bulletin No. 826 dated April 10, 1986)

SUBJECT: Elevator Hinge Inspection/Replacement

REASON FOR REVISION: Add Models Affected, Add Serial Numbers Affected, Revise Purpose, and Revise Instructions

MODELS AFFECTED:

PA-31P Pressurized Navajo  
PA-31T Cheyenne/Cheyenne II  
PA-31T1 Cheyenne I/Cheyenne IA  
PA-31T2 Cheyenne IIXL  
PA-31T3 Cheyenne T-1040

SERIAL NUMBERS AFFECTED:

31P-03 through 31P-7730012  
31T-7400001 through 31T-8120104  
31T-7804001 through 31T-1104017  
31T-8166001 through 31T-1166008  
31T-8275001 through 31T-5575001

COMPLIANCE TIME: Within the next twenty-five (25) hours of operation, or to coincide with the next regularly scheduled inspection event, whichever occurs first.

PURPOSE: There has been an additional report received of a cracked elevator center hinge on a model group not previously addressed. Metallurgical analysis of the original reports has confirmed a forging fault. If this condition exists, and is left uncorrected, impairment of elevator operation or loss of elevator control could result.

This Service Bulletin provides an illustration and instructions for the inspection of the center elevator hinge, and replacement if required.

INSTRUCTIONS:

NOTE: Aircraft which have complied with Service Bulletin No. 826 are in compliance with Service Bulletin No. 826A and no further action is necessary.

1. Gain access to the elevator center hinge by removing the upper and lower tailcone fairing assembly.
2. Remove paint and perform a dye penetrant check of the center elevator hinge in the areas indicated in Sketch "A" attached.

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ATA: 5550

INSTRUCTIONS: (Cont'd.)

3. If no cracks are found, reinstall the tailcone fairing assembly and make the appropriate logbook entry. No further action is necessary.
4. If cracking is indicated by the dye penetrant check, the elevator center hinge is to be replaced and elevator stops reset in accordance with the appropriate maintenance manual.
5. Reinstall the upper and lower tailcone fairing assembly.
6. Make the appropriate logbook entry of compliance with this Service Bulletin.

MATERIAL REQUIRED: If required by inspection, one (1) each  
Elevator Center Hinge, Piper Part Number 45253-03, per aircraft.

AVAILABILITY OF PARTS: Your Piper Field Service Facility.

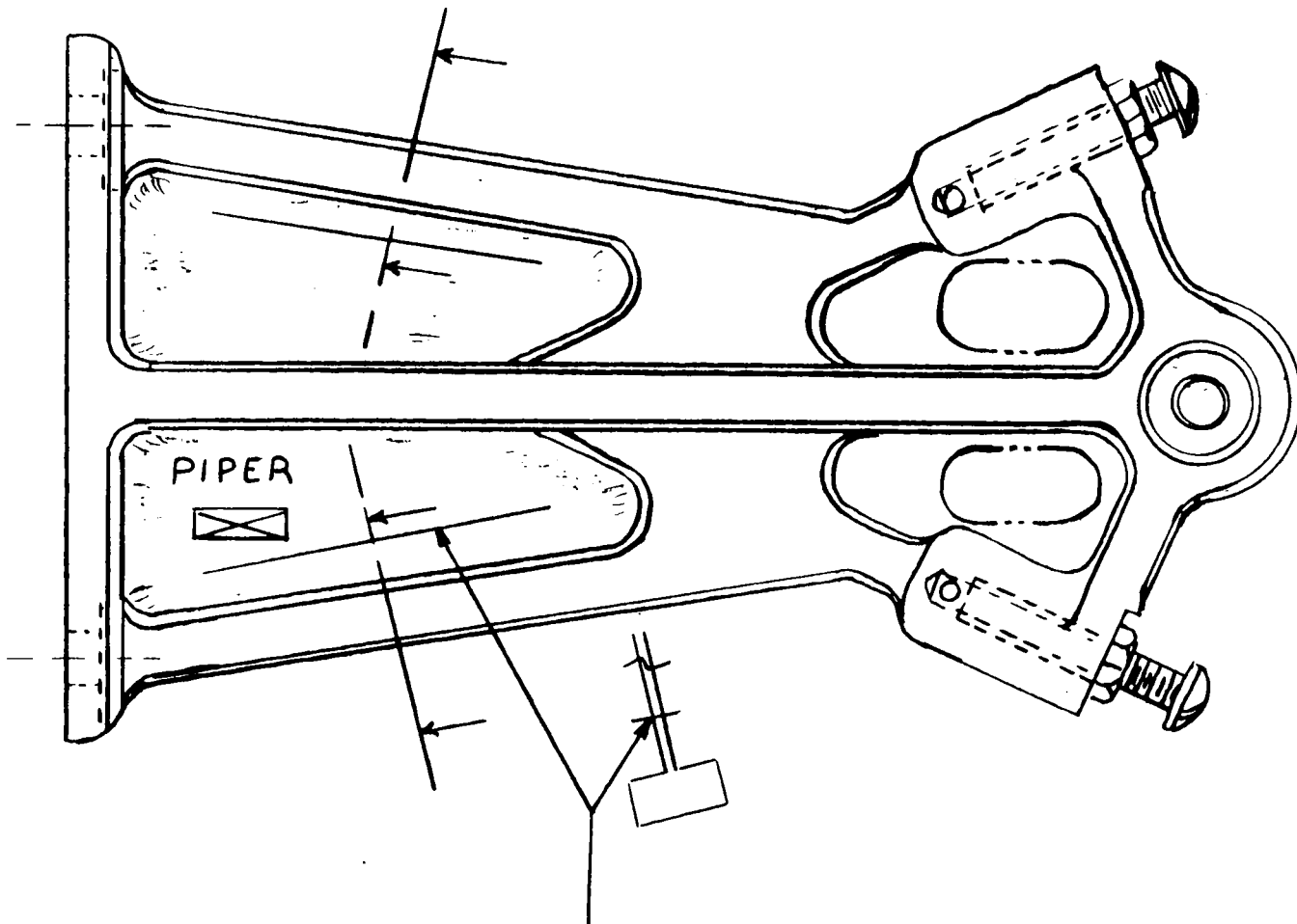
EFFECTIVITY DATE: This Service Bulletin is effective upon receipt.

SUMMARY: Please contact your Piper Field Service Facility to make arrangements for compliance with the provisions of this Service Bulletin in accordance with the Compliance Time indicated.

Any applicable factory participation will remain in effect for a period of time not to exceed 180 days from the date of this Service Bulletin.

NOTE: If you are no longer in possession of this aircraft, please forward this information to the present owner.

SKETCH 'A'



APPROXIMATE AREA OF CRACKS IN WEB