



# SERVICE BULLETIN

No. 284

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"F.A.A. DOA EA-1 Approved"

September 27, 1968 M

## SECTION I

- Subject: Inspection of Elevator Torque Tube Assembly
- Models Affected: PA-31 and PA-31-300 Navajo
- Serial Numbers Affected: 31-2 to 31-74 incl., 31-76 to 31-131 incl., 31-133 to 31-144 incl., 31-146 to 31-184 incl., 31-186 to 31-247 incl., 31-249 to 31-299 incl.
- Compliance Time: See Instructions, below
- Purpose: Revision to Piper telegram dated July 30, 1968; F.A.A. telegraphic AD dated July 30, 1968; F.A.A. published AD dated July 31, 1968 and F.A.A. published AD amendment effective September 27, 1968.
- (A) New inspection procedure.
- (B) Amend continuing 100 hour inspection requirements.
- Instructions:
- A. Initial visual inspection and initial dye penetrant, magnaflux or x-ray inspection must be repeated at every 100 hours of operation, until 500 hours of operation is attained.
  - B. After 500 hours of operation, subsequent to compliance with the inspections required in Instructions, paragraph A (above), providing no cracks are found at this time, only visual inspections at normal inspection periods shall be necessary thereafter until compliance with Section II has been accomplished, at which time, affected aircraft are exempt from the requirements of this bulletin.

(over)

## SECTION II

Subject: Replacement of the steel Elevator Torque Tube Assembly, part numbers 40070-00 or 40070-04 with aluminum Elevator Torque Tube Assembly, part number 40070-05.

Models Affected: Same as Section I

Serial Numbers Affected: Same as Section I

Compliance Time: Within 100 hours of operation after receipt of material but not later than February 1, 1969.

Purpose: To provide material and instructions for the replacement of steel Elevator Torque Tube Assemblies, part numbers 40070-00 or 40070-04 with aluminum Elevator Torque Tube Assembly, part number 40070-05.

Instructions:

- 1.) Remove fuselage tail fairing assembly;
- 2.) Remove left elevator assembly;
- 3.) Remove elevator torque tube assembly from the right elevator;
- 4.) Remove bolts attaching the elevator torque tube assembly to the right elevator;
- 5.) Disconnect the elevator torque tube horn assembly from the elevator control tube assembly.
- 6.) Disconnect elevator torque tube horn assembly from the elevator center hinge assembly.
- 7.) Install replacement elevator torque tube assembly, part number 40070-05, in the reverse order of removal.
- 8.) Check elevator travel in accordance with the PA-31 Service Manual, page 5-22 paragraph f.

Material Required: Elevator Torque Tube Assembly, part number 40070-05

Availability of Parts: Piper Dealer (see Note, below)

Material Allowance: Elevator Torque Tube Assembly, part number 40070-05; comply with warranty and credit claim procedure.

Labor Allowance: Two (2) hours, comply with warranty and credit claim procedure

Material/Labor Allowance Termination Date: April 30, 1969

Disposition of Replaced Parts: Comply with warranty and credit claim procedures

Disposition of Parts in Stock: Part numbers 40070-00 and 40070-04 steel Elevator Torque Tubes must not be used, comply with warranty and credit claim procedures.

NOTE

New aluminum Elevator Torque Tube Assemblies, part number 40070-05 will not be available until approximately October 15, 1968.

Log book entries must clearly reflect, in addition to the service bulletin number, the applicable service bulletin section complied with.

# Piper Aircraft Corporation

MORE PEOPLE HAVE BOUGHT PIPERS THAN ANY OTHER PLANE

Lock Haven, Pennsylvania, U.S.A. 17745

AREA CODE 717 748-6711

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CABLE ADDRESS: CUB

## Distributors and Serial Nos. Affected:

TO:	Anrite	31-221	Spad	31-287, 31-292, 31-295
	Martins	31-244, 31-247, 31-297	Nacional Aerea	31-288
	Melridge	31-250	Ohio Valley	31-289
	P.A.I.	31-269, 31-277, 31-291	Cavco	31-290
	Tufts	31-280, 31-296	Nyge Aero	31-293
	Aero Mercantil	31-283	Des Moines	31-294
	Ansett	31-285	Zoomaire	31-298
	Memphis	31-286	Brown	31-299

SUBJECT: Piper Service Bulletin No. 284; Section I: Inspection of Elevator Torque Tube Assembly; and Section II: Replacement of steel Elevator Torque Tube Assemblies part numbers 40070-00 or 40070-04 with aluminum Elevator Torque Tube Assembly, part number 40070-05

Re: PA-31 and PA-31-300 Navajo, Serial No.  
31-

Gentlemen:

Our records indicate that your organization has taken delivery of the above referenced aircraft.

It has come to our attention that the Serial Numbers Affected portion of the subject Service Bulletin may be partially in error; we have received information indicating that the aircraft serial number(s) referenced above may have been modified per Section II, Service Bulletin No. 284 prior to delivery; i.e., the part number 40070-05 aluminum Torque Tube Assembly may have been previously installed.

## Recommendation:

1. At next 100 hour inspection interval (per Instructions: A, Section I, S.B. 284), check the small metal identification tag attached to the Elevator Horn; the Elevator Torque Tube Assembly part number will be stamped on this tag; the aluminum torque tube assembly part number is 40070-05.
2. If step 1 (above) reveals that the new aluminum Elevator Torque Tube Assembly (part number 40070-05) is installed, check aircraft log book to ascertain whether an entry reflecting this modification had been previously made; if no entry to this effect is evident, and the inspection referred to in Step 1 above ascertains that the new aluminum Elevator Torque Tube Assembly (part number 40070-05) has been installed, then make entry in aircraft log book to the effect that "Piper Service Bulletin No. 284 complied with; aluminum Elevator Torque Tube Assembly part number 40070-05 installed."

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3. Installation of this new aluminum torque tube assembly (part number 40070-05) will also void the requirements of the AD amendment referred to in Purpose, Section I, Piper Service Bulletin No. 284.

If Step 1, above reveals that the new aluminum torque tube assembly (part number 40070-05) had not been installed, then the specifications of Service Bulletin No. 284 will remain in effect until the installation of the new aluminum tube is achieved.

If the aluminum Elevator Torque Tube Assembly part number has been previously installed, then Section II of Service Bulletin No. 284 is not applicable to the above referenced aircraft, and your order(s) for replacement Elevator Torque Tube Assembly part number 40070-05 can be cancelled.

Thank you.

Very truly yours,

PIPER AIRCRAFT CORPORATION



Lester A. Diehl

Manager - Customer Service Sales

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