



SERVICE BULLETIN

No. 409

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"FAA DOA EA-1 Approved"

June 7, 1974 M

Subject:

Inspection of Elevator Control Tube

Models Affected:

PA-31P Navajo

Serial Numbers Affected:

31P-1 to 31P-7400213 incl.

Compliance Time:

Within the next 100 hours of operation.

Purpose:

To provide instructions to inspect the elevator control tube assembly on the above referenced aircraft to insure that no looseness exists in the elevator control tube assembly (Piper Part No. 40847-04) between the tube and the end fitting assemblies (which attach to the elevator bellcrank and the elevator horn).

Instructions:

1. Gain access to the elevator control tube fore and aft fittings by removing the access panel located beneath the forward portion of the elevator at its juncture with the fuselage and the top portion of the tail cone.
2. Disconnect the bungee spring from the elevator control tube at the rear portion of the tube.
3. Disconnect the elevator control tube from the elevator bellcrank.
4. Check for "looseness" or "play" between the elevator control tube and at both end fittings by exerting the fore and aft force and a twisting force on each fitting while maintaining the control tube stationary.
5. If no "looseness" or "play" is detected, no further action is necessary. Reconnect the bungee spring elevator control tube, prepare aircraft for return to service and make appropriate log book entry.
6. If "looseness" or "play" is evident, replace elevator control tube assembly (reference Material Required, Page 2).

NOTE: Align new elevator control tube assembly with replaced elevator control tube assembly by inserting rods through the ends of both control tubes and adjusting the eye bolt on the new tube to insure identical tube length.

Instructions: (continued)

NOTE: (continued) Reinstall in accordance with the appropriate Piper Service Manual information. It will not be necessary to recheck rigging if new tube is the same length as the replaced tube.

7. Make appropriate log book entry.

Material Required:

One (1) each per aircraft elevator control tube assembly, Piper Part No. 40847-04, if required per Instructions No. 6, above.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to make arrangements for compliance with the provisions of this service release in accordance with Compliance Time, Page 1. Material associated with this release (reference Material Required, above) will be provided free of charge and one hour labor credit will be provided through your Piper Field Service Facility if the modification is performed by a Piper Field Service Facility.

A Service Publication Compliance form is enclosed with each copy of this service release mailed to affected owners of record; this form is to be filled out according to instructions on the form reverse side and left with the Piper Field Service Facility performing the modification.