



# SERVICE BULLETIN

No. 558

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"Modification DOA EA-1 Approved"

June 10, 1977

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Subject:

Servo Bridle Cable Clamp Bolt Torque Revision;  
AltiMatic V and V F/D Series; M-4D F/D Series;  
and Sperry SPZ-200 F/D

Models Affected: \*

Serial Numbers Affected: \*

PA-23-250 (6 place) Aztec .....	27-4575 to 27-7754077 inclusive*;
PA-31 and PA-31-325 Navajo .....	31-712 to 31-7612089 inclusive*;
PA-31-350 Navajo Chieftain .....	31-5001 to 31-7652146 inclusive*;
PA-31P Pressurized Navajo .....	31P-1 to 31P-7730005 inclusive*;
PA-31T Cheyenne .....	31T-7400002 to 31T-7720025 inclusive*.

\* Affects aircraft with subject Automatic Flight Control Systems (both factory and service kits) installed only.

Compliance Time: At the next Programmed Inspection Event, not to exceed the next fifty (50) hours of operation.

Purpose: It has been brought to our attention that the subject A.F.C.S. servo bridle cable clamp attachment bolt torque may be insufficient, as original torque requirements did not specify "total" torque (including lock nut friction). Proper bridle cable clamp bolt torque will preclude loosening of the clamps with resultant bridle cable slippage and improper cable tension.

This Service Release provides proper servo bridle cable clamp bolt torque requirements for aircraft in the above configuration, in accordance with the Instructions, below.

Instructions:

1. With reference to appropriate Piper A.F.C.S. Service Manual, adjust bridle cable clamp bolt torque to  $55 \pm 5$  inch pounds in accordance with the following table (specified torque value includes MS20365-1032C lock nut friction):

A/C Model	Automatic Flight Control System	Affected Servo Cable
Aztec	Alt. V and V F/D Series	Roll (Aileron) and Pitch (Stabilator)
PA-31 & 31-325	Alt. V and V F/D Series	Roll (Aileron) only
PA-31-350	Alt. V and V F/D Series	Roll (Aileron) only
PA-31P	Alt. V and V F/D Series	Roll (Aileron) only
PA-31T	M-4D F/D Series	Roll (Aileron) only
PA-31T	Sperry SPZ-200 F/D	Roll (Aileron) and Rudder

over

Instructions: (Continued)

2. Prepare aircraft for return to service (per appropriate Piper A.F.C.S. Service Manual) and make appropriate log book entry re bulletin compliance.

NOTE:

Piper AltiMatic V, V-1; V F/D and V F/D-1 Service Manual (Piper Part Numbers 761 525 and 761 526, respectively); Piper M-4D F/D Service Manual (Piper Part No. 761 581) and Sperry SPZ-200 F/D Service Manual are in process of revision to include the above data.

Material Required: Not applicable.

Availability of Parts: Not applicable.

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 Release in accordance with Compliance Time, above.