



*Customer Services*

# SERVICE LETTER

No. 566

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

November 25, 1970

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<u>Subject:</u>	AutoPilot Servo Spacer Bushing Installation
<u>Models and Serial Numbers Affected:</u>	All the following aircraft with a III Series Automated Flight Control System (and AutoFlite, re Cherokee models) Installation:
<u>Models Affected:</u>	<u>Serial Numbers Affected:</u>
PA-23-250 (Six Place) and PA-E23-250 (Six Place) Aztec;	27-3837, 27-3944 to 27-4467 incl., 27-4469 to 27-4488 incl., 27-4490 to 27-4514 incl., 27-4516 to 27-4527 incl., 27-4530 to 27-4535 incl., 27-4537 to 27-4547 incl., 27-4549, 27-4551, 27-4552, 27-4554 to 27-4561 incl.
PA-24-260 Comanche;	24-4783, 24-4804 to 24-4948 incl., 24-4950.
PA-28-140/180/235 Cherokee;	(140) 28-24689 to 28-26946 incl. (180) 28-5058 to 28-5859 incl. (235) 28-11078 to 28-11378 incl.
PA-28R-180/200 Cherokee Arrow;	(180) 28R-30881 to 28R-31270 incl. (200) 28R-35001 to 28R-35820 incl.
PA-30 Twin Comanche;	30-1717, 30-1745 to 30-2000 incl.
PA-31 and PA-31-300 Navajo;	31-256 to 31-536 incl., 31-538 to 31-611 incl., 31-613 to 31-639 incl., 31-641 to 31-649 incl., 31-651 to 31-661 incl., 31-663 to 31-670 incl., 31-672 to 31-675 incl., 31-677 to 31-685 incl., 31-687, 31-689, 31-691 and 31-693.
PA-32-260/300 Cherokee Six;	(260) 32-1043 to 32-1297 incl. (300) 32-40472, 32-40474 to 32-40974 incl.
PA-39 Twin Comanche C/R;	39-1 to 39-16 incl., 39-18 to 39-32 incl., 39-34 to 39-46 incl., 39-48 to 39-55 incl., 39-57 to 39-76 incl.

NOTE: The above referenced aircraft Serial Numbers Affected information relates to factory-installed III Series Automated Flight Control System (and AutoFlite, re Cherokee models) Installations; the following Cherokees are also affected if they have had the indicated III Series A.F.C.S. and/or AutoFlite field installation kits installed:

(over)

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<u>Model</u>	<u>Serial Numbers</u>	<u>Field Installation Kit</u>
PA-28-140	28-20001 and up.	757 027 or 757 135 AutoFlite;
PA-28-150/160/180	28-1231 and up.	757 088 or 757 131 AutoControl III
PA-28-235	28-10001 and up.	
PA-28R-180	28R-30005 and up.	
PA-28R-200	28R-35001 and up.	
PA-32-260	32-1 and up.	757 026 or 760 303 AutoFlite
PA-32-300	32-40000 and up.	757 086 AutoControl III
PA-32-260	32-451 to 32-1110 incl.	757 040 AltiMatic III
PA-32-300	32-40000 to 32-40565 incl.	

Compliance Time: Recommended at the next 100 hour inspection.

Purpose: To provide material and instructions for the installation of a spacer bushing to fill the space between the servo capstan and frame (reference attached sketch for an illustrated description).

Instructions: Contained in III Series AutoPilot Servo Spacer Bushing Installation Kit Nos. 760 472, 760 473 and 760 508V (reference Material Required, below).

- Material Required:
- One (1) each (per servo) III Series AutoPilot Servo Spacer Bushing Installation Kit No. 760 472 for the following aircraft with a III Series Automated Flight Control System Installation:  
PA-23-250 (Six Place) and PA-E23-250 (Six Place), PA-24-260, PA-30 and PA-39 (reference Models and Serial Numbers Affected, above).
  - One (1) each (per servo) III Series AutoPilot Servo Spacer Bushing Installation Kit No. 760 473 for the following aircraft with a III Series Automated Flight Control System Installation:  
PA-31 and PA-31-300 Navajo, (reference Models and Serial Numbers Affected, above).
  - One (1) each (per servo) III Series AutoPilot Servo Spacer Bushing Installation Kit No. 760 508V for the following aircraft with a III Series Automated Flight Control System and/or AutoFlite Installation:  
PA-28 Cherokee and PA-32 Cherokee Six series, (reference Models and Serial Numbers Affected, above).

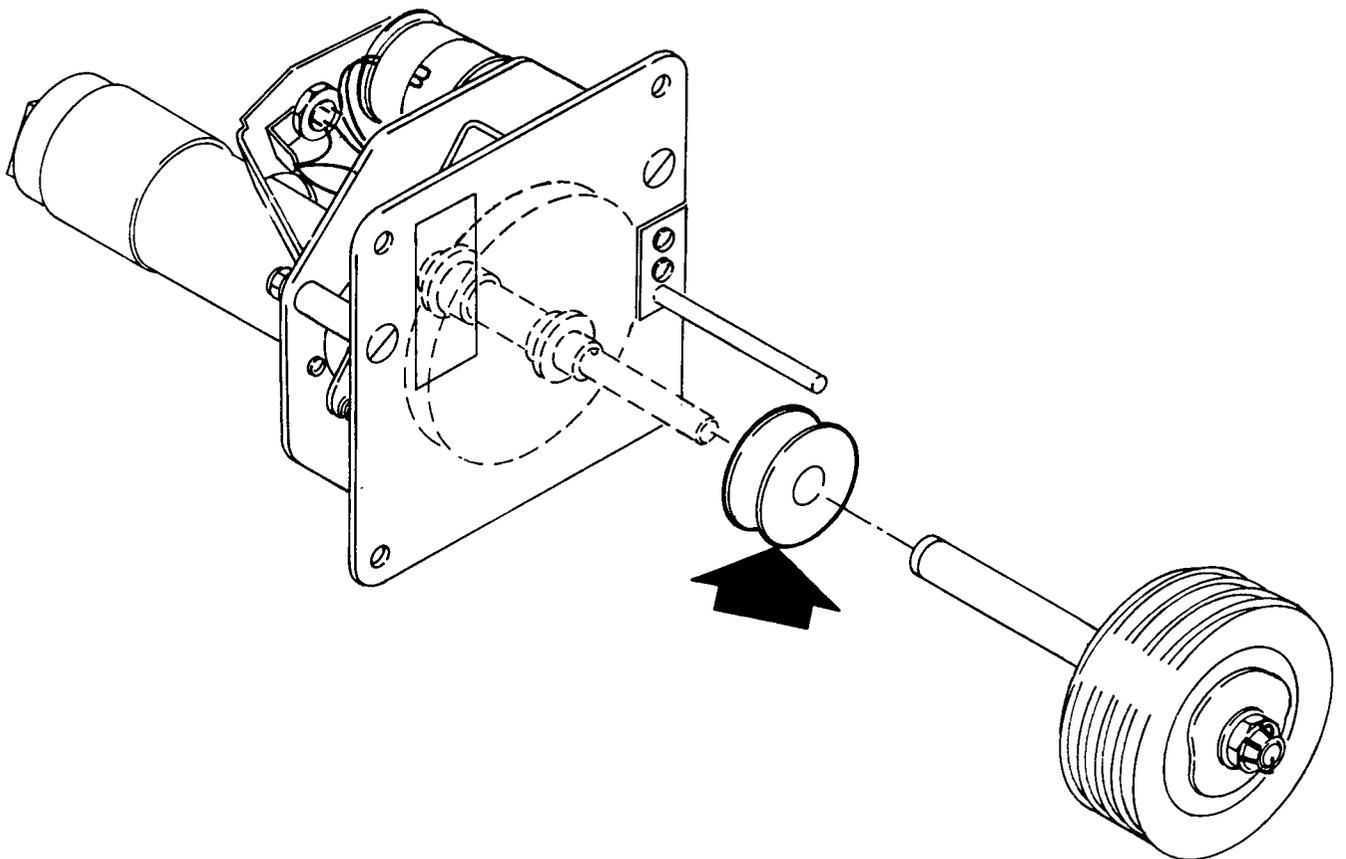
NOTE: One each Servo Spacer Bushing Installation Kit will modify one servo; therefore, aircraft with a III Series AutoPilot (i.e., two servos per aircraft) will require two each of the appropriate servo spacer bushing installation kits.

Availability of Parts:

Your Piper Dealer .

Summary:

This modification will be accomplished free of charge by your Piper Dealer providing the Compliance Time period is adhered to.



LETTER SUPPLEMENT - PROCEDURAL OPERATING INFORMATION

Material Allowance:

One (1) each (per servo) appropriate III Series AutoPilot Servo Spacer Bushing Installation Kit, as specified in the Material Required section of this Service Letter; comply with Service Publication Compliance/Credit Request procedure.

Labor Allowance:

One-half (1/2) hour (per servo) for installation of Kit No. 760 472, per the Material Required (No. 1) section of this Service Letter;

One (1) hour (per servo) for installation of Kit No. 760 473, per the Material Required (No. 2) section of this Service Letter;

One-half (1/2) hour (per servo) for installation of Kit No. 760 508V, per the Material Required (No. 3) section of this Service Letter;

Comply with Service Publication Compliance/Credit Request procedure.

Disposition of Parts in Stock:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Code</u>
43909-02	Servo-Pitch (1C508-1-184P)	Modify in accordance with the specifications of this Service Letter, per <u>Material Required</u> ; comply with Service Publication Compliance/Credit Request procedure, referring to "Parts in Stock."
43909-03	Servo-Pitch (1C363-1-186P)	
43909-04	Servo-Roll (1C363-1-161R)	
43909-05	Servo-Pitch (1C470-1-187P)	
43909-06	Servo-Roll (1C465-1-187R)	
43909-09	Servo-Pitch (1C508-1-186P)	
43909-10	Servo-Roll (1C363-1-184R)	
43909-11	Servo-Pitch (1C508-1-296P)	
757 595	Servo-Roll (1C363-1-183R)	
757 596	Servo-Pitch (1C363-1-183P)	

Disposition of Replaced Parts: Not applicable.

NOTE

Servo units that have been modified in accordance with the specifications of this Service Letter prior to shipment from the factory are identified by the addition of a suffix letter "A" following the unit serial number.