



Customer Services

SERVICE LETTER

No.⁵⁶⁶

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

November 25, 1970

<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)

<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:
1. 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).
 2. 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).
 3. 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).

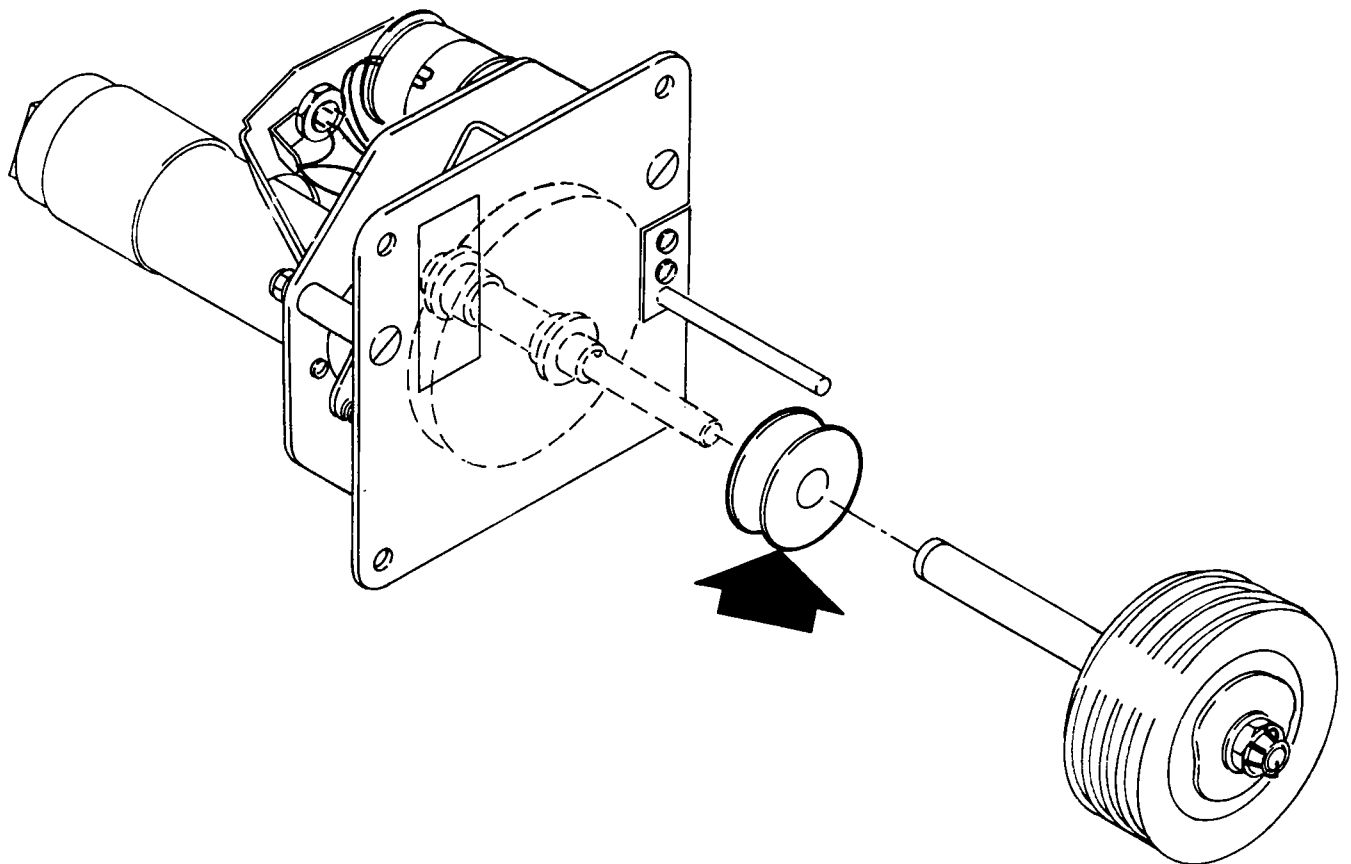
NOTE: One each Servo Spacer Bushing Installation Kit will modify one servo; therefore, aircraft with a III Series AutoPilot (i.e., two servos per aircraft) will require two each of the appropriate servo spacer bushing installation kits.

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.