

# SERVICE



# LETTER

Service Letter No. 500

March 22, 1968

Subject: I. AltiMatic III Series Radio Coupler Replacement  
II. AltiMatic III Series Amplifier Replacement

Models Affected: PA-31 Navajo

## I. - AltiMatic III Series Radio Coupler Replacement

Serial Numbers Affected: 31-2 to 31-6 incl., 31-8 to 31-61 incl., 31-63 to 31-99 incl., 31-101 to 31-107 incl., 31-109 to 31-123 incl., 31-125 to 31-136 incl., 31-138 to 31-152 incl., 31-154 to 31-156 incl., 31-158 to 31-164 incl., 31-166 to 31-168 incl., (with factory installed AltiMatic III AutoPilot only)

Reason for Letter: Field service experience indicates that the PA-31 Navajo when equipped with an AltiMatic III AutoPilot and Radio Coupling, experiences "wing-rock" while transmitting and operating the Radio Coupling in the OMNI or NAV modes.

Kit, part number 760 192, consisting of an improved "E" modification AltiMatic III Radio Coupler and installation instructions is now available for replacement in the AltiMatic III system (see "Availability of Parts", below).

Material Required: Kit No. 760 192 AltiMatic III Radio Coupler Replacement

Installation Instructions: Contained in Kit 760 192

Availability of Parts: Customer Service Sales Division, Piper Aircraft Corporation, Lock Haven, Pennsylvania

Warranty Parts Allowed: Kit No. 760 192

Warranty Labor Allowed: Three (3) Hours

Disposition of Replaced Parts: Comply with Warranty and Credit Claim procedure

Expiration Date of Warranty: September 30, 1968

(over)

**PIPER AIRCRAFT CORPORATION, LOCK HAVEN, PA., U. S. A.**

## II. - AltiMatic III Series Amplifier Replacement

Serial Numbers Affected: 31-2 to 31-6 incl., 31-8 to 31-61 incl., 31-63 to 31-69 incl., 31-71 to 31-136 incl., 31-138 to 31-187 incl. (with factory installed AltiMatic III AutoPilot only)

Reason for Letter: A service history on the new AltiMatic III series AutoPilots has been developed through the Electronics Customer Service Division and reports submitted by Factory Registered AutoPilot Specialists in the field. This evaluation indicates that the PA-31 Navajo when equipped with an AltiMatic III AutoPilot may experience "porpoising" to some degree.

A new AltiMatic III Amplifier (model #1C515) has been designed with superior rate circuits, offering to Navajo owners greatly improved AutoPilot performance in both pitch and roll response.

To offer this improvement to the Navajo owner at no cost to him, Kit No. 760 191, consisting of a new model AltiMatic III Amplifier (Piper part number 751 293 - model # 1C515) and installation instructions is now available for replacement in the AltiMatic III system (see "Availability of Parts", below).

NOTE: Return the previous model amplifier Piper part number 751 284 and the Roll Rate Filter Piper part number 754 806 when complying with the Warranty and Credit claim procedure. Installation of the new AltiMatic III Amplifier (Piper part number 751 293 precludes the necessity for a roll rate filter.

It is strongly recommended that this replacement be accomplished as soon as possible.

Material Required: Kit No. 760 191 AltiMatic III Amplifier Replacement

Installation Instructions: Contained in Kit 760 191

Availability of Parts: Customer Service Sales Division, Piper Aircraft Corporation, Lock Haven, Pennsylvania

Warranty Parts Allowed: Kit No. 760 191

Warranty Labor Allowed: Two and one half (2 1/2) Hours

Disposition of Replaced Parts: Comply with Warranty and Credit Claim procedure

Expiration Date of Warranty: September 30, 1968

NOTES

1. When ordering Kit No. 760 192 AltiMatic III Radio Coupler Installation and/or Kit No. 760 191 AltiMatic III Amplifier Replacement from the Customer Service Sales Division, Piper Aircraft Corporation, Lock Haven, Pa. to comply with the requirements of this letter, please submit the serial number (s) of the affected aircraft on the parts order.

2. For those Piper Dealers who are presently trained and are properly equipped with the required test equipment (Piper AutoPilot Service Centers) this replacement program will present no problem.

For the Piper Dealer who is not established as a Piper AutoPilot Service Center, the Distribution Service Administrator should be contacted to arrange for this modification to be accomplished by a nearby Piper AutoPilot Service Center. (The factory will not reimburse a non-qualified dealer for any charges accrued when transporting the airplane to or from an AutoPilot Service Center.)

3. It is recommended that the latest revision of the "International Directory of Piper AutoPilot Service Centers" (Piper part number 753 747 - dated January, 1968) be used to determine the nearest AutoPilot Service Centers approved to work on the AltiMatic III series AutoPilot. CAUTION: Do not refer to the "Around the World Sales and Service" booklet since this publication does not indicate the individual capabilities of these service centers.

4. When submitting a Warranty and Credit Claim for parts and labor, please reference this communication.