



# SERVICE LETTER

No. 834

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

March 3, 1978

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Subject:

Flap Electrical System Refinement

Models Affected:

Serial Numbers Affected:

PA-31, PA-31-300 and  
PA-31-325 Navajo ..... 31-2 to 31-7712102 inclusive;  
PA-31-350 Navajo Chieftain ..... 31-5001 to 31-7752192 inclusive;  
PA-31P Pressurized Navajo..... 31P-1 to 31P-7730011 inclusive;  
PA-31T Cheyenne ..... 31T-7400002 to 31T-7720069 inclusive.

Compliance Time: At owner/operator's discretion; recommended at a convenient scheduled inspection/maintenance interval.

Purpose: Experience with the above referenced models' flap electrical system has indicated that, under certain adverse operational conditions (with flap system component rigging and flap drive component condition possible factors), the existing flap solenoid/relays may be subjected to electrical current overload. This condition could cause abbreviated flap solenoid/relay service life, and, in the extreme, flap electrical system failure.

This Service Release announces the availability of flap electrical system field refinement kits containing material and instructions to replace the existing flap solenoid/relay (also--on the Cheyenne, the flap motor reversing relay) with improved, heavier duty units designed to function under abnormal electrical current load conditions. The kits also contain additional material and instructions to provide a complete installation (e.g., related electrical wiring, hardware, bracketry, etc.)

Instructions: Contained in kits (see Material Required, below).

Material Required: One (1) each per aircraft of the following:

<u>A/C Model</u>	<u>Kit No.</u>	<u>Nomenclature</u>	<u>Suggested Unit List Price</u>
(1.) PA-31, 31-325 & 31-350	763 822	Kit-Flap Solenoid and Relay Replacement	\$56.55C
(2.) PA-31T	763 823	Kit-Flap Solenoid and Relay Replacement	76.70C
(3.) PA-31P	763 824	Kit-Flap Solenoid and Relay Replacement	61.70C

Availability of Parts: Your Piper Field Service Facility.

Effectivity Date: This Service Release is effective upon receipt.

Summary: Please contact your Piper Field Service Facility to make arrangements to obtain and install the product refinement kit--applicable to your aircraft--described herein. For planning purposes, installation time is twelve (12) to sixteen (16) man-hours per kit (depending on kit/aircraft model), and can be reduced by coordination with regularly scheduled maintenance and/or inspection interval.