



# SERVICE LETTER

No. 959

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

Modification FAA Approved

June 10, 1983

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This Service Letter is divided into two (2) separate PARTS relative to the PA-31 Series Aircraft Flap System. Refer to each part for specific Subject and Models Affected.

SUBJECT:

Flap System Modification

MODELS AFFECTED:

PA-31, PA-31-300, PA-31-325  
Navajo, Navajo C/R  
PA-31-350 Chieftain  
PA-31P Pressurized Navajo

SERIAL NUMBERS AFFECTED:

31-2 through 31-7812129  
31-5001 through 31-7852171  
31P-1 through 31P-7730012

COMPLIANCE TIME:

At owner/operator's discretion.

PURPOSE:

To announce the availability of kits, the installation of which will increase flap travel to a full 40 degrees.

PART I, announces the availability of a complete Calco Flap System Installation Kit for affected Navajos, Navajo C/R's and Chieftains.

PART II, announces the availability of a Flap Transmission Replacement Kit for affected Navajos, Navajo C/R's, Chieftains and Pressurized Navajos.

PART I

SUBJECT:

Calco Flap System Installation

MODELS AFFECTED:

PA-31, PA-31-300, PA-31-325  
Navajo, Navajo C/R  
PA-31-350 Chieftain

SERIAL NUMBERS AFFECTED:

31-2 through 31-7812129  
31-5001 through 31-7852171

NOTE:

Compliance with PART I of this Service Release relieves the requirements of Service Bulletin Numbers 494B, 739 and Addendum 1, and Service Letter Numbers 764A and 958.

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INSTRUCTIONS: Piper Kit Number 764 938L consists of an electronically monitored flap system which includes flap preselect function, variable flap position from 0 degrees to 40 degrees, and will prevent an asymmetric flap position greater than 5 degrees differential.

MATERIAL REQUIRED: One (1) each per aircraft, Calco Flap Installation Kit, Piper Part Number 764 938L. Order each Kit by aircraft Serial Number, Registration Number and AFM or POH Report Number.

ESTIMATED LABOR REQUIRED (for planning purposes only):

Approximately 150 hours. This time can be reduced by approximately 25 to 30 hours when installation is performed during a major maintenance event.

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## PART II

SUBJECT: Flap Transmission Replacement  
(Dukes 20:1 to Calco 40:1)

MODELS AFFECTED:

PA-31, PA-31-300, PA-31-325  
Navajo, Navajo C/R  
PA-31-350 Chieftain  
PA-31P Pressurized Navajo

SERIAL NUMBERS AFFECTED:

31-2 through 31-7812129  
31-5001 through 31-7852171  
31P-1 through 31P-7730012

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NOTE: Compliance with PART II of this Service Release relieves the requirements of Service Bulletin Number 494B, 739 (PART I and PART III only), and Service Letter 958.

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INSTRUCTIONS: Piper Kit Number 764 957L includes material and instructions required for replacement of the existing 20:1 drive flap transmission with a Calco 40:1 drive flap transmission.

MATERIAL REQUIRED: One (1) each per aircraft, Flap Transmission Replacement Kit, Piper Part Number 764 957L. Order each kit by aircraft Serial Number, Registration Number and AFM or POH Report number.

ESTIMATED LABOR REQUIRED (for planning purposes only):

Approximately 17 hours.

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AVAILABILITY OF PARTS: Kit 764 938L for PART I, is available immediately, Kit 764 957L for PART II, will be available through your Piper Field Service Facility on June 27, 1983.

EFFECTIVITY DATE: This Service Release is effective upon receipt.

SUMMARY: Please contact your Piper Field Service Facility to arrange for compliance with the provisions of this Service Release.