



# SERVICE BULLETIN

No. 688

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA Approved

July 1, 1980

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Subject:

Placards Installation Check

Models Affected:

PA-31, PA-31-325 Navajo  
PA-31-350 Chieftain

Serial Numbers Affected:

31-7401201 through 31-8012072  
31-7405401 through 31-8052162

Compliance Time:

Within the next one hundred (100) hours of operation or at the next scheduled inspection, whichever occurs first.

Purpose:

On the above listed aircraft, it is possible that some of the required placards located on the instrument panel and cockpit floor area may contain incorrect information.

This Service Publication provides instructions to verify that the correct placards are installed.

NOTE:

For 1980 models, a revision to the Pilot's Operating Handbook is required in conjunction with compliance with this Service Release. Refer to Material Required, below.

Instructions:

Per the following information, check placards, and if necessary install correct placards as required per model and aircraft serial numbers.

I. PA-31 Navajo Serial Numbers 31-7401201 through 31-8012072

A. On top right side of instrument panel:

THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUALS. NO ACROBATIC MANEUVERS (INCLUDING SPINS) APPROVED.

(over)

Instructions: (continued)

## I. A. continued

For Serial Numbers 31-7401201 through 31-7612110  
FOR TYPES OF OPERATION SEE AIRPLANE  
FLIGHT MANUAL.

For Serial Numbers 31-7712001 and Up.  
FOR TYPES OF OPERATION SEE PILOT'S  
OPERATING HANDBOOK.

## B. On top left side of instrument panel:

For Serial Numbers 31-7401201 through 31-7612110  
MINIMUM CONTROL SPEED 85 MPH  
MAXIMUM SPEED LANDING GEAR OPERATION 150 MPH  
DESIGN MANEUVERING SPEED 183 MPH

SEE AIRPLANE FLIGHT MANUAL FOR ADDITIONAL  
SPEEDS.

For Serial Numbers 31-7712001 through 31-7712103  
MINIMUM CONTROL SPEED 76 KIAS  
MAXIMUM SPEED LANDING GEAR OPERATION 129 KIAS  
DESIGN MANEUVERING SPEED 159 KIAS

SEE PILOT'S OPERATING HANDBOOK FOR  
ADDITIONAL SPEEDS

For Serial Numbers 31-7812001 through 31-8012072  
MINIMUM CONTROL SPEED 76 KIAS  
MAXIMUM SP.LG - RET. 129 KIAS EXTEND 156 KIAS  
DESIGN MANEUVERING SPEED 159 KIAS

SEE PILOT'S OPERATING HANDBOOK FOR  
ADDITIONAL SPEEDS.

## C. On floor between pilot and copilot seats:

EMERGENCY GEAR EXTENSION  
REMOVE COVER  
EXTENSION INSTRUCTIONS ON REVERSE SIDE.

Instructions: (continued)

- I. D. On underside of emergency gear extension door:

## EMERGENCY GEAR EXTENSION

1. PLACE GEAR SELECTOR HANDLE IN DOWN POSITION.
2. PULL EMERGENCY PUMP HANDLE OUT AS FAR AS POSSIBLE.
3. PUMP HANDLE UP AND DOWN UNTIL ALL 3 GREEN LIGHTS COME ON. CONTINUE PUMPING UNTIL PRESSURE BUILDS UP AND SELECTOR HANDLE RETURNS TO NEUTRAL.

NOTE: If aircraft is equipped with floor runners to protect the carpeting, an opening must be cut in the runner to match opening in carpet in order to provide access to the Emergency Gear Extension Cover.

- II. PA-31-325 Navajo C/R, Serial Numbers 31-7512001 through 31-8012072

- A. On top right side of instrument panel:

THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUALS. NO ACROBATIC MANEUVERS (INCLUDING SPINS) APPROVED.

For Serial Numbers 31-7512001 through 31-7612110  
FOR TYPES OF OPERATION SEE AIRPLANE FLIGHT MANUAL.

For Serial Numbers 31-7712001 and Up.  
FOR TYPES OF OPERATION SEE PILOT'S OPERATING HANDBOOK.

- B. On left side, center of pilot's panel:

<u>For Serial Numbers 31-7512001 through 31-7612110</u>	
MINIMUM CONTROL SPEED	85 MPH
MAXIMUM SPEED LANDING GEAR OPERATION	150 MPH
DESIGN MANEUVERING SPEED	183 MPH

SEE AIRPLANE FLIGHT MANUAL FOR  
ADDITIONAL SPEEDS.

(over)

Instructions: (continued)

## II. B. continued

For Serial Numbers 31-7712001 through 31-7712103

MINIMUM CONTROL SPEED	71 KIAS
MAXIMUM SPEED LANDING GEAR OPERATION	127 KIAS
DESIGN MANEUVERING SPEED	155 KIAS

SEE PILOT'S OPERATING HANDBOOK FOR  
ADDITIONAL SPEEDS.

For Serial Numbers 31-7812001 through 31-8012072

MINIMUM CONTROL SPEED	71 KIAS
MAXIMUM SP. LG. - RET. 127 KIAS EXTEND	152 KIAS
DESIGN MANEUVERING SPEED	155 KIAS

SEE PILOT'S OPERATING HANDBOOK FOR  
ADDITIONAL SPEEDS.

## C. On floor between pilot and copilot seats:

EMERGENCY GEAR EXTENSION  
REMOVE COVER  
EXTENSION INSTRUCTIONS ON REVERSE SIDE.

## D. On underside of emergency gear extension door:

EMERGENCY GEAR EXTENSION

1. PLACE GEAR SELECTOR HANDLE IN DOWN POSITION.
2. PULL EMERGENCY PUMP HANDLE OUT AS FAR AS POSSIBLE.
3. PUMP HANDLE UP AND DOWN UNTIL ALL 3 GREEN LIGHTS COME ON. CONTINUE PUMPING UNTIL PRESSURE BUILDS UP AND SELECTOR HANDLE RETURNS TO NEUTRAL.

NOTE: If aircraft is equipped with floor runners to protect the carpeting, an opening must be cut in the runner to match opening in carpet in order to provide access to Emergency Gear Extension Cover.

## E. On pedestal between throttle and prop controls (when air conditioning is installed):

AIR CONDITIONING OFF  
FOR SINGLE ENGINE OPERATION.

Instructions: (continued)

## II. F. Above airspeed indicator:

For Serial Numbers 31-7512001 through 31-7612110  
ABOVE 12000 FEET REDUCE  $V_{NE}$   
SPEED 3 MPH PER 1000 FEET.

For Serial Numbers 31-7712001 through 31-8012072  
ABOVE 12000 FEET  
REDUCE  $V_{NE}$  SPEED 2.6  
KTS PER 1000 FEET.

## G. Adjacent to airspeed indicator:

For Serial Numbers 31-7512001 through 31-7612110  
ABOVE 21,000 FEET REDUCE  $V_{NO}$   
SPEED 3 MPH PER 1000 FEET.

For Serial Numbers 31-7712001 through 31-8012072  
ABOVE 21,000 FEET  
REDUCE  $V_{NO}$  SPEED 2.6  
KTS PER 1000 FEET.

## III. PA-31-350 Chieftain Serial Numbers 31-7405401 through 31-8052162

## A. On top right side of instrument panel:

THIS AIRCRAFT MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUALS. NO ACROBATIC MANEUVERS (INCLUDING SPINS) APPROVED.

For Serial Numbers 31-7405401 through 31-7652176  
FOR TYPES OF OPERATION SEE AIRPLANE FLIGHT MANUAL.

For Serial Numbers 31-7752001 and Up.  
FOR TYPES OF OPERATION SEE PILOT'S OPERATING HANDBOOK.

(over)

Instructions: (continued)

## III. B. On top left side of instrument panel:

For Serial Numbers 31-7405401 through 31-7652176

MINIMUM CONTROL SPEED	90 MPH
MAXIMUM SPEED LANDING GEAR OPERATION	150 MPH
DESIGN MANEUVERING SPEED	186 MPH

SEE AIRPLANE FLIGHT MANUAL FOR  
ADDITIONAL SPEEDS.

For Serial Numbers 31-7752001 through 31-7752201

MINIMUM CONTROL SPEED	76 KIAS
MAXIMUM SPEED LANDING GEAR OPERATION	128 KIAS
DESIGN MANEUVERING SPEED	160 KIAS

SEE PILOT'S OPERATING HANDBOOK FOR  
ADDITIONAL SPEEDS.

For Serial Numbers 31-7852001 through 31-8052162

MINIMUM CONTROL SPEED	76 KIAS
MAXIMUM SP. LG. - RET. 128 KIAS EXTEND	153 KIAS
DESIGN MANEUVERING SPEED	160 KIAS

SEE PILOT'S OPERATING HANDBOOK FOR  
ADDITIONAL SPEEDS.

## C. On floor between pilot and copilot seats:

EMERGENCY GEAR EXTENSION  
REMOVE COVER  
EXTENSION INSTRUCTIONS ON REVERSE SIDE.

## D. On underside of emergency gear extension door:

EMERGENCY GEAR EXTENSION

1. PLACE GEAR SELECTOR HANDLE IN DOWN POSITION.
2. PULL EMERGENCY PUMP HANDLE OUT AS FAR AS POSSIBLE.
3. PUMP HANDLE UP AND DOWN UNTIL 3 GREEN LIGHTS COME ON. CONTINUE PUMPING UNTIL PRESSURE BUILDS UP AND SELECTOR HANDLE RETURNS TO NEUTRAL.

NOTE: If aircraft is equipped with floor runners to protect the carpeting, an opening must be cut in the runner to match opening in carpet in order to provide access to Emergency Gear Extension Cover.

Instructions: (continued)

- III. E. On pedestal between throttle and prop controls (when air conditioning is installed):

AIR CONDITIONING OFF  
FOR SINGLE ENGINE OPERATION.

Material Required:

1. If the incorrect placard is installed or placard is missing, consult the Parts Catalog for the appropriate placard and placard part number for your particular aircraft serial number.

2. FOR PA-31 AIRCRAFT WITH Serial Numbers 31-8012001 through 31-8012072:  
Pilot's Operating Handbook, Report LK-1206, add Revision 2 (PR 800612)  
dated June 12, 1980.

FOR PA-31-325 AIRCRAFT WITH Serial Numbers 31-8012001 through 31-8012072:  
Pilot's Operating Handbook, Report LK-1207, add Revision 2 (PR 800612)  
dated June 12, 1980.

FOR PA-31-350 AIRCRAFT WITH Serial Numbers 31-8052001 through 31-8052162:  
Pilot's Operating Handbook, Report LK-1208, add Revision 3 (PR 800612)  
dated June 12, 1980.

NOTE: Discard Revisions not applicable to aircraft.

Availability of Parts:

Your Piper Field Service Facility.

NOTE: For 1980 models, appropriate Pilot's Operating Handbook Revision is enclosed. For additional copies, contact:

Customer Services  
Piper Aircraft Corporation-Lakeland Division  
3000 Medulla Road  
Lakeland, Florida 33803 USA  
Phone: 813-646-2911 Telex: 522473

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Comply with the provisions of this Service Release in accordance with Compliance Time, above.