



# SERVICE BULLETIN

No. 684

Piper Aircraft Corporation

FAA Approved

Lock Haven, Pennsylvania, U.S.A.

April 14, 1980

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Subject:

PA-31-350 Chieftain/Take Off Flaps

Models Affected:

PA-31-350 Chieftain

Serial Numbers Affected:

31-5001 through 31-8052129

Compliance Time:

PART I: Within the next twenty-five (25) hours of operation from the effective date of this service release, accomplish Instructions, PART I, below.

PART II: Within sixty (60) days of the effective date of this service release, accomplish Instructions, PART II, below.

Purpose:

The use of flaps during take off under certain combinations of aircraft weight, configuration, ambient conditions, and airspeeds will not permit positive climb.

This Service Release provides instructions for the modification of some flap position indicator gauges and revisions to the appropriate Airplane Flight Manual (AFM) or Pilot's Operating Handbook (POH) to reflect the take off procedures and performance data for flap position of "O" degrees.

Instructions:

PART I:

1. Fabricate a placard (minimum 1/4" high lettering) which states the following: "TAKE OFF FLAPS -- 'O' DEGREES."
2. Install the placard immediately above the flap position indicator gauge, in full view of the pilot in command.
3. Install the necessary revision to the Airplane Flight Manual or Pilot's Operating Handbook as follows:

For aircraft Serial Numbers 31-5001 through 31-7652117  
PAC Report 1750, Rev 16 and Rev 17 (PR 790723/PR 800404 to  
Pilot's Operating Manual Part No. 761 486).

For aircraft Serial Numbers 31-7752001 through 31-7952250  
PAC Report 2046, Rev 9 (PR 800404 to Pilot's Operating Handbook  
Part No. 761 628).

Instructions: (continued)

PART I:

3. continued

For aircraft Serial Numbers 31-8052001 through 31-8052129  
Lakeland Report 1208, Rev 2 (PR 800404 to Pilot's Operating  
Handbook Report: LK-1208).

4. Make proper logbook entry of compliance with Service Bulletin No. 684, PART I.

PART II:

1. Inspect the face of aircraft's flap position indicator gauge to determine if the words "TAKE OFF RANGE" are marked on the face of the indicator.
2. If the words "TAKE OFF RANGE" DO NOT APPEAR on the indicator, proceed to Instruction 5.
3. If the words "TAKE OFF RANGE" appear on the indicator, it must be removed from the aircraft and modified by an approved instrument repair station; the words "TAKE OFF RANGE" must be removed or covered up with flat black paint that matches the indicator face.
4. Reinstall the indicator in the airplane (if removed to comply with Instruction 3), and conduct functional check.
5. Make logbook entry of compliance with Service Bulletin No. 684, PART II.

NOTE: Upon compliance with PART II of this Service Bulletin,  
the placard installed in PART I must be removed.

Material Required:

The appropriate AFM or POH Revision indicated in PART I, Instruction 3.

Availability of Parts:

Enclosed -- Additional revisions are available from Piper Aircraft Corporation, Lock Haven, Pennsylvania, or from your Piper Distributor.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your local Piper Field Service Facility to make arrangements for compliance with the provisions of this Service Release in accordance with Compliance Time, above.