



SERVICE BULLETIN

No. 708

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA Approved

April 7, 1981

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(Refer to Service Bulletin No. 697 dated August 11, 1980.)

Subject:

PA-31 and PA-31-325 Takeoff Flaps

Models Affected:

PA-31 and PA-31-325
Navajo / Navajo C/R

Serial Numbers Affected:

31-2 through 31-8112033

Compliance Time:

Within sixty (60) days of the date of this release.

NOTE:

Compliance is mandatory prior to any takeoff in which flap position is other than "O" degrees.

Purpose:

Specific procedures have been developed for use when a careful assessment of conditions indicates that a short field takeoff is desirable. This service release includes a Pilot's Operating Manual or Pilot's Operating Handbook Revision containing short field procedures and provides instructions for modification of flap gauges to permit use of such procedures.

IMPORTANT:

Prior to attempting takeoff using the short field procedure, study and become thoroughly familiar with all associated conditions and techniques stated in the Pilot's Operating Handbook as revised in accordance with this Service Release, and insure compliance with flap gauge modification.

NOTE:

Service Bulletin No. 697 dated August 11, 1980 must be complied with prior to or in conjunction with Service Bulletin No. 708.

Instructions:

- I Install the necessary revision to the Pilot's Operating Handbook as follows:

For PA-31 with Serial Numbers 31-2 through 31-659 and 31-661 through 31-711, PAC Report 1362, Revision 31 (PR 810220 to Pilot's Operating Manual, Part Number 761 456).

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Instructions: (continued)

For PA-31 with wing lockers with Serial Numbers 31-660 and 31-712 through 31-751, PAC Report 1686, Revision 10 (PR 810220 to Pilot's Operating Manual, Part Number 761 483).

For PA-31 without wing lockers with Serial Numbers 31-712 through 31-751, PAC Report 1655, Revision 12 (PR 810220 to Pilot's Operating Manual, Part Number 761 472).

For PA-31 with Serial Numbers 31-752 through 31-7612110, PAC Report 1702, Revision 22 (PR 810220 to Pilot's Operating Manual, Part Number 761 501).

For PA-31 with Serial Numbers 31-7712001 through 31-7912124, PAC Report 2045, Revision 10 (PR 810220 to Pilot's Operating Handbook, Part Number 761 626).

For PA-31 with Serial Numbers 31-8012001 through 31-8112033, PAC Report LK-1206, Revision 5 (PR 810220 to Pilot's Operating Handbook Report LK-1206).

For PA-31-325 with Serial Numbers 31-7300932 through 31-7612110, PAC Report 1860, Revision 12, (PR 810220 to Pilot's Operating Manual, Part Number 761 571).

For PA-31-325 with Serial Numbers 31-7712001 through 31-7912124, PAC Report 1964, Revision 9 (PR 810220 to Pilot's Operating Handbook, Part Number 761 627).

For PA-31-325 with Serial Numbers 31-8012001 through 31-8112033, PAC Report LK-1207, Revision 5 (PR 810220 to Pilot's Operating Handbook Report LK-1207).

II If the flap indicator has a radial line with "15°" marked by it, no further action is required and compliance with this Service Bulletin must be logged in the airplane logbook. If the flap indicator is not so marked, proceed to Step III.

III Mark the flap indicator per A or B below: (See attached sketch.)

A. If the provisions of Service Bulletin No. 697, dated August 11, 1980, have not been complied with, mark the instrument face in white as follows in conjunction with instructions of Service Bulletin No. 697. Service Kit 764 101 provides material for these markings.

1. For indicators of the AC or Rochester type, Part Number 42334-00, 55650-02, or -03, 55564-00, 55567-02 or -03, and 55991-03, -04, -06 or -07, use the following instructions:
 - a. 42334-00, 55564-00, 55567-00 and 55650-00 indicators must have 1/16" by 1/4" radial line placed at the end of the first white arc (15°).
 - b. 55991-06 and -07 indicators must have a 1/16" by 1/4" radial line across the white arc exactly in the middle of the complete white arc (15°).

Instructions: (continued)

- c. All indicators must have the legend "15°" in 1/8" letters added adjacent to the 15° radial, such that it does not interfere with any other legend.
 2. For the indicator of the Hickok type, Part Number 71128-02, -03, -05, -06, -09 or -10, use the following instructions:
 - a. The 71128-02, -03, -05, and -06 indicator face has a wide arc to the 15° position with a wide radial at 15°. Mark a "15°" legend in 1/8" letters adjacent to the 15° radial but in such a position that it does not interfere with any other legend.
 - b. 71128-09 and -10 indicator face has to have a 1/16" wide x 1/4" long radial line placed across the white arc 30° down from the top of the arc and a "15°" legend in white letters must be placed adjacent to the 15° radial but in such a position that it does not interfere with any other legend.
- B. If the provisions of Service Bulletin No. 697, dated August 11, 1980 have been complied with, proceed as follows:
1. Lower the flaps to the 15° position and check in accordance with the Maintenance Manual.
 2. With the flaps at the 15° position, mark the face glass of indicator with the 1/16" wide by 1/4" long white tape supplied in Service Kit 764 101. This tape should be applied in a radial direction at the outer arc over the end of the needle as seen from directly in front of the indicator.
 3. Place the white "15°" legend on the face glass adjacent to the white 15° radial but in such a position that it does not interfere with any other legend.
 4. Place a .06 x .25 inch slip stripe across bezel and edge of face glass to insure markings remain in required position.

IV Upon modification or replacement of Flap Position Indicator and incorporation of Pilot's Operating Handbook Revision, make logbook entry of compliance.

Material Required:

POH Supplement: PR 810220 as required by Instruction I.
Indicator marking Service Kit, 764 101.

Availability of Parts:

POH revision enclosed - additional revisions are available from your Piper Distributor, or Piper Aircraft Corporation, Lock Haven, Pennsylvania 17745 USA.

Service Kits are available from your Piper Field Service Facility.

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Availability of Parts: (continued)

If the flap indicator must be replaced for any reason, the appropriate replacement part numbers are as follows:

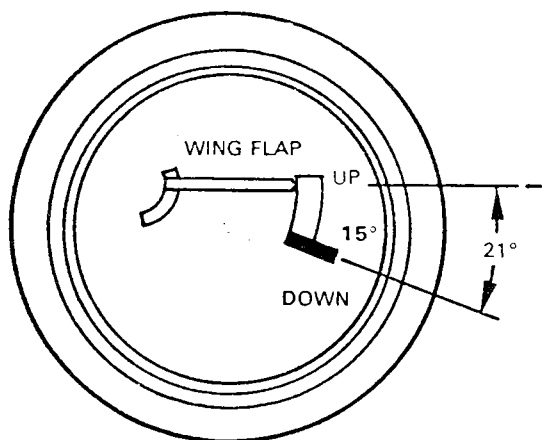
<u>Existing Indicator PAC Part Number</u>	<u>Replacement Indicator PAC Part Number</u>
42334-00	55567-04
55564-00	55567-04
55567-02, or -03	55567-04
55650-02, or -03	55650-04
55991-03, or -06	55991-09
71128-02, -05, or -09	71128-12
55991-04, or -07	55991-10
71128-03, -06, or -10	71128-13

Effectivity Date:

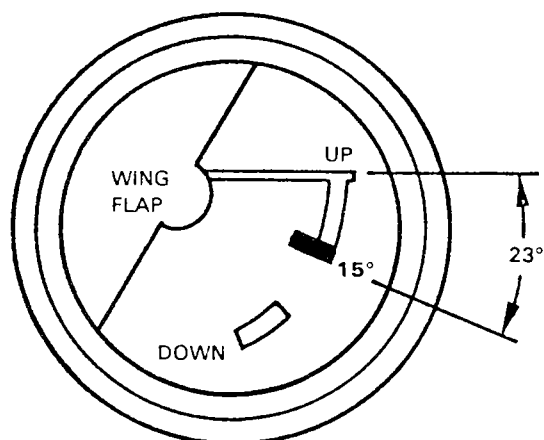
This Service Release is effective upon receipt.

Summary:

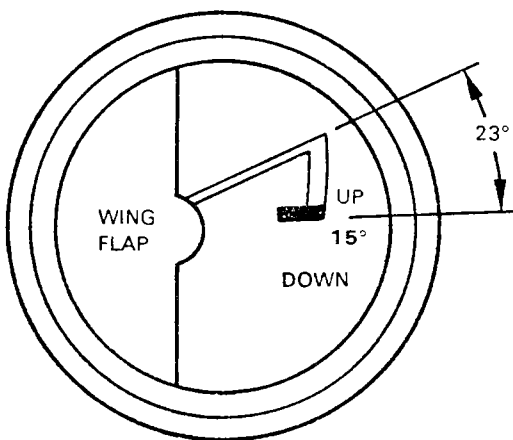
Please contact your local Piper Field Service Facility to make arrangements for compliance with the provisions of this Service Release in accordance with Compliance Time, above.



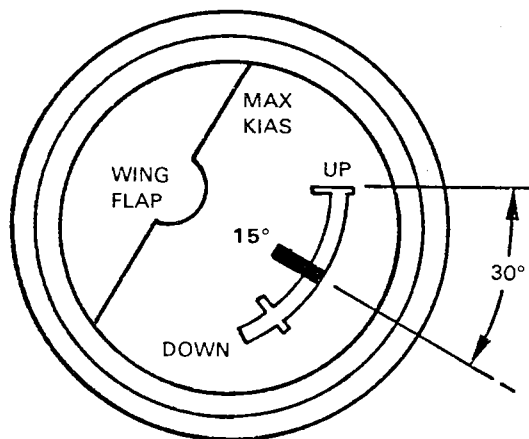
42334



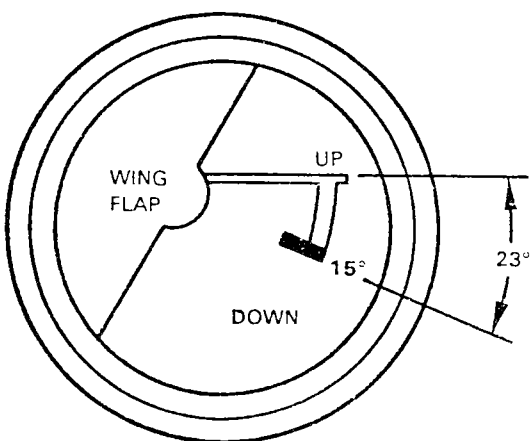
55650 SERIES



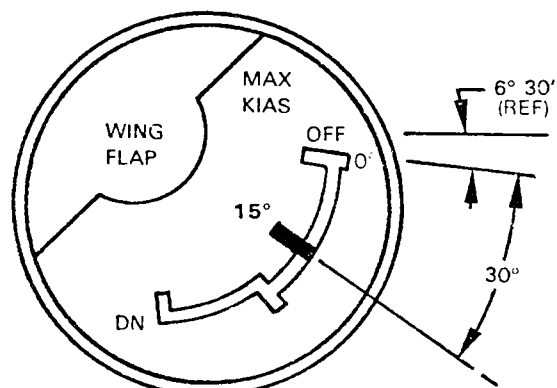
55564



55991 SERIES



55567 SERIES



71128 SERIES (Hickok type)