



SERVICE BULLETIN

No. 533

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"DOA SO-1 Approved"

January 6, 1977

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Subject:

Fuel Gauge Calibration Inspection

Models Affected:

Serial Numbers Affected:

PA-28-140	Cherokee 140.....	28-7225001 to 28-7725086	Inclusive
PA-28-180	Cherokee.....	28-7205001 to 28-7505259	Inclusive
PA-28-151	Cherokee Warrior.....	28-7415001 to 28-7715200	Inclusive
PA-28-181	Cherokee 181.....	28-7690001 to 28-7790192	Inclusive
PA-28-235	Cherokee 235.....	28-7210001 to 28-7610181	Inclusive
PA-28R-200	Cherokee Arrow.....	28R-7235001 to 28R-7635459	Inclusive
PA-32-260	Cherokee Six.....	32-7200001 to 32-7700005	Inclusive
PA-32-300	Cherokee Six.....	32-7240001 to 32-7740012	Inclusive

Compliance Time:

Part I. Within the next 10 hours of operation.

Part II. Within the next 200 hours of operation or 12 months, whichever occurs first, after the effective date of this Service Bulletin.

Purpose:

It has been determined that aircraft in the above specified group may possibly have fuel gauges that indicate a small quantity of fuel in the tank when the tanks are empty.

Part I of this Service Bulletin provides material and instructions to install a warning placard to alert the operator of this possible condition.

Part II provides instruction to inspect the fuel quantity gauges for proper calibration and to remove the warning placard (installed in Part I) if the gauges meet the calibration specification.

Instructions:

Part I. Install warning Placard, Piper Part Number 35669-14V (illustrated below) or a placard fabricated with the warning illustrated below, on the instrument panel in the immediate area of the fuel quantity gauges.

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Instructions: (Continued)

Part I. (continued)

WARNING

FUEL GAUGES MAY INDICATE AS MUCH
AS 2 1/2 GALLONS WHEN TANKS ARE EMPTY.

Note: The above warning statement may be cut from this page and used to satisfy the requirements of Part I of this communication. This part can be accomplished by an owner/operator.

- Part II. 1. Place aircraft on a known level area and approximately static level condition.
(Refer to Section II of Service Manual for proper landing gear strut exposure).
2. Insure a minimum of 5 gallons of fuel in each aircraft fuel tank.
3. Start engine and run at approximately 1000 RPM for two (2) minutes. Aircraft equipped with split master switch, insure Alt. portion of switch is on.
4. Master switch must remain on during and after engine shut down and through steps 5, 6 and 7.
5. Defuel all aircraft fuel tanks.

CAUTION

Insure aircraft and defueling vehicle are properly grounded and proper fire protection is available.

6. Start engine and run at approximately 1000 RPM for two (2) minutes. Aircraft equipped with split master switch, insure Alt. portion of switch is on.

NOTE: There will be sufficient fuel remaining in the fuel system to operate engine.

7. While engine is running, record fuel quantity indication on each gauge.
8. All quantity gauges must indicate zero (0) or below.
9. If gauges indicate within the tolerances of step 8 above, Placard part number 35669-14V or equivalent may be removed and appropriate log book entry made indicating compliance with Part II of this Service Bulletin.

SPECIAL NOTE

The inspection and log book entry of this section through step 9, can be accomplished by the owner/operator.

Instructions: (Continued)

Part II. (Continued)

10. If gauges do not indicate within the tolerances as indicated in step 8 above, they must be calibrated to a zero (0) indication with F.A.A. approved Piper instructions by an F.A.A. approved facility, by an F.A.A. authorized Piper Aircraft employee or replaced with a new service replacement gauge. New replacement gauges will be identified by a white dot in the lower right corner of the instrument face dial. Contact your Piper Distributor for location of the nearest facility authorized to calibrate gauges.
11. After compliance with step 10, remove placard and make log book entry indicating compliance with Part II of this Service Bulletin.

Material Required:

One (1) each per aircraft; Placard Part Number 35669-14V. Fuel gauges as required after inspection in accordance with Part II: refer to Piper Parts Manual for appropriate part numbers.

Material Availability:

Your Piper Field Service Facility.

Effectivity Date:

This Service Bulletin is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to make arrangements for compliance with this Service Bulletin in accordance with Compliance Time, above.