



# SERVICE No. 811A BULLETIN

Piper Aircraft Corporation  
Vero Beach, Florida, U.S.A.

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\* PIPER CONSIDERS \*  
\* COMPLIANCE MANDATORY \*  
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FAA Approved

Date May 12, 1986 S/M

(Service Bulletin No. 811A supersedes and voids Service Bulletin No. 698A, dated August 17, 1982 and Service Bulletin No. 811, dated January 8, 1986)

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This Service Bulletin is divided into Two (2) PARTS. Refer to each PART for specific Purpose, Instructions and Material Required.  
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SUBJECT:

Ammeter Replacement

REASON FOR REVISION:

Add Additional Models Affected, Add Serial Numbers Affected, Add PART II, Revise Summary, and Revise Instructions in PART I.

MODELS AFFECTED:

PA-28-150/160 Cherokee  
PA-28-180 Archer  
PA-28-181 Archer II  
  
PA-28-235 Cherokee  
  
PA-28-236 Dakota  
PA-28-201T Turbo Dakota  
PA-28R-180 Arrow I  
  
PA-28R-200 Arrow II  
  
PA-28R-201 Arrow III  
PA-28R-201T Turbo Arrow III  
PA-28RT-201 Arrow IV  
PA-28RT-201T Turbo Arrow IV  
PA-32-260 Cherokee  
PA-32-300 Cherokee Six  
PA-32R-300 Lance  
PA-32RT-300 Lance II  
PA-32RT-300T Turbo Lance II  
PA-32-301 Saratoga  
PA-32-301T Turbo Saratoga  
PA-32R-301 Saratoga SP  
PA-32R-301T Turbo Saratoga SP  
PA-34-200T Seneca II

SERIAL NUMBERS AFFECTED:

28-3378 through 28-4377  
28-3378 through 28-7505259 and 28-E13  
28-7690001 through 28-8190279,  
28-8290017, 28-8290018, 28-8290028,  
28-8290033, 28-8290034 and 28-8290036  
28-10720 through 28-7710089 and  
28-E11  
28-7911001 through 28-8511020  
28-7921001 through 28-7921091  
28R-30004 through 28R-30481,  
28R-30483 through 28R-7130013  
28R-30482, 28R-35001 through  
28R-7635545  
28R-7737001 through 28R-7837317  
28R-7703001 through 28R-7803373  
28R-7918001 through 28R-8218026  
28R-7931001 through 28R-8631006  
32-1 through 32-7800008  
32-40000 through 32-7940290  
32R-7680001 through 32R-7880068  
32R-7885001 through 32R-7985105  
32R-7787001 through 32R-7987126  
32-8006001 through 32-8106087  
32-8024001 through 32-8124030  
32R-8013001 through 32R-8113094  
32R-8029001 through 32R-8129090  
34-7570001 through 34-8170092

(over)  
ATA: 2430

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PART I

**COMPLIANCE TIME:** Within the next ten (10) hours of operation or to coincide with the next regularly scheduled inspection event, whichever occurs first.

**PURPOSE:** Reports have been received of loose and/or shorting ammeter connections at the ammeter cluster gauge.

If this condition exists and is left uncorrected, damage could occur to the ammeter, its wiring and the cluster, with the possibility of electrical failure and/or fire within the cockpit.

This Service Bulletin announces the availability of a shunted ammeter kit which, when installed, will eliminate full electrical power passing through the ammeter gauge. The use of a remote electrical shunt in the ammeter installation will eliminate the possibility of electrical failure and/or fire associated with a shorted ammeter.

**NOTE:** Service Bulletin No. 811A does not apply to aircraft equipped with ninety (90) ampere alternators.

**INSTRUCTIONS:** All instructions necessary to accomplish this modification are contained in the Ammeter Replacement Kit, Piper Part Number 765-186.

**NOTE:** Upon completion of installation of ammeter in cluster housing, check ammeter studs with ohmmeter to insure they are not grounded to the cluster housing.

**MATERIAL REQUIRED:** One (1) each Ammeter Replacement Kit, Piper Part Number 765-186, per each single engine aircraft. Two (2) each Ammeter Replacement Kit, Piper Part Number 765-186, per each PA-34 Model Aircraft.

**AVAILABILITY OF PARTS:** 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 the provisions of this Service Bulletin in accordance with the compliance time indicated. Credit is available for material only on all affected aircraft when compliance is accomplished at an authorized Piper Field Service Facility. For aircraft in warranty only, credit is available for material and for up to two (2.0) hours labor on single engine aircraft and for up to four (4.0) hours labor on multi-engine aircraft when compliance is accomplished at an authorized Piper Field Service Facility.

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PART II

COMPLIANCE TIME: Within the next ten (10) hours of operation or to coincide with the next regularly scheduled inspection event, whichever occurs first.

PURPOSE: Engineering tests have determined that a number of ammeter gauges shipped in support of Service Bulletin No. 811 were not correctly calibrated. Correctly calibrated gauges may be identified by the presence of a white dot located on the righthand side of the ammeter face, immediately following the word "AMPS". See Sketch "A" attached. Incorrect ammeter indications could lead to inadvertent overcharging and/or depletion of the aircraft's battery with subsequent loss of battery electrical power.

INSTRUCTIONS:

1. All aircraft which have complied with Service Bulletin No. 811 must inspect for the presence of a white dot on the righthand side of the ammeter face. See Sketch "A" attached.
2. If white dot is not present, the ammeter gauge, only, must be replaced with a correctly calibrated gauge.
3. Using applicable instructions for the Ammeter Replacement Kit, Piper Part Number 765-186, replace the newly installed ammeter only, with Ammeter, Piper Part Number 763-053.

NOTE: Upon completion of installation of ammeter in cluster housing, and prior to attaching the wires, check ammeter studs with ohmmeter to insure they are not grounded to the cluster housing.

4. Run engine and check out system.
5. Make appropriate logbook entry of compliance with this Service Bulletin.

MATERIAL REQUIRED: If required by inspection, one (1) each Ammeter Gauge, Piper Part Number 763-053, per affected aircraft.

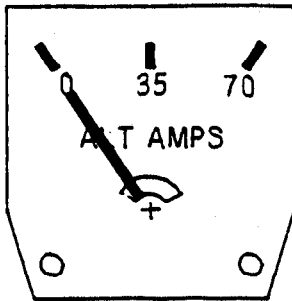
AVAILABILITY OF PARTS: Your Piper Field Service Facility.

EFFECTIVITY DATE: This Service Bulletin is effective upon receipt.

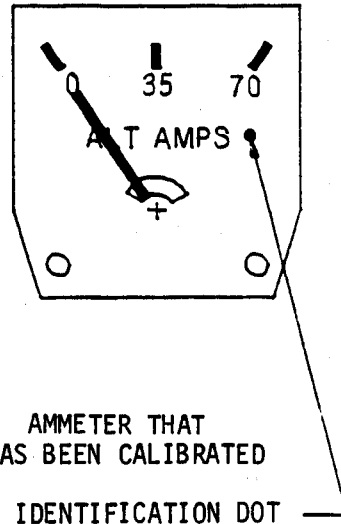
SUMMARY: Please contact your Piper Field Service Facility to make arrangements for compliance with the provisions of this Service Bulletin in accordance with the Compliance Time indicated. Credit is available for material and for up to one (1.0) hour labor on single engine aircraft and for up to one and one-half (1.5) hours labor on multi-engine aircraft when compliance is accomplished at an authorized Piper Field Service Facility.

Any applicable factory participation will remain in effect for a period of time not to exceed 180 days from the date of this Service Bulletin.

NOTE: If you are no longer in possession of this aircraft, please forward this information to the present owner.



AMMETER THAT HAS NOT  
BEEN CALIBRATED.  
NOTE ABSENCE OF IDENTIFICATION DOT



AMMETER THAT  
HAS BEEN CALIBRATED  
IDENTIFICATION DOT

SKETCH "A"