



SERVICE BULLETIN

No. 623

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA/DOA SO-1 Approved

November 1, 1978 S

Subject:

Diode Assembly Inspection,
(Circuit Breaker Cooler)

Models Affected:

PA-28-140 Cherokee Cruiser
PA-28-151 Cherokee Warrior
PA-28-161 Cherokee Warrior II
PA-28-180 Cherokee Archer
PA-28-181 Cherokee Archer II
PA-28-235 Cherokee Pathfinder
PA-28R-200 Cherokee Arrow
PA-28R-201 Cherokee Arrow III
PA-28R-201T
Cherokee Turbo Arrow III

Serial Numbers Affected:

28-7525001 to 28-7725290 Inclusive
28-7515001 to 28-7715314 Inclusive
28-7716001 to 28-7816613 Inclusive
28-7505001 to 28-7505259 Inclusive
28-7690001 to 28-7890494 Inclusive
28-7510001 to 28-7710089 Inclusive
28R-7535001 to 28R-7635545 Inclusive
28R-7737001 to 28R-7837265 Inclusive

28R-7703001 to 28R-7803310 Inclusive

Compliance Time:

Within the next fifty (50) hours of operation or at the next progressive 100 hour or annual inspection, whichever occurs first.

Purpose:

It has come to our attention that there may be an incorrectly installed washer (or washers) under the head of the screw(s) or the nut(s), depending on the model affected, which secure the diode assembly to the airframe. The washer(s) may intermittently come in contact with the diode assembly which would cause a temporary short circuit and demand maximum output from the alternator. This Service Release provides a sketch which indicates the correct hardware installation and instructions to remove any incorrectly installed washer(s) to prevent possible electrical system malfunction.

Instructions:

1. Disconnect the battery cables.
2. Locate and identify the Diode, Circuit Breaker Cooler Assembly, Part Number 79412-02. It may be necessary to remove the Cover - Diode Cooler to gain full access to the Diode Assembly.

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Instructions: (continued)

NOTE

The Diode, Circuit Breaker Cooler Assembly is located under the rear seats floorboard on the PA-28-140/151/161 models. On all other models the Diode is located on the battery shelf aft of the rear cabin bulkhead closeout.

3. Inspect the four (4) screws securing the Diode Assembly to the airframe. Use the attached sketch to insure that there are no washers installed near the diode and that the Hardware is installed exactly as shown. If correct no further action is required. Proceed with Instruction 5.
4. If any washers are found under the screw head(s) or nut(s) installed incorrectly, they are to be removed and the screws reinstalled to secure the Diode assembly.
5. Reinstall the Cover-Diode Cooler if removed in Instruction Number 2 and reconnect the battery cables.
6. Make an appropriate log book entry that this Service Release has been complied with.

Material Required:

Not applicable.

Availability of Parts:

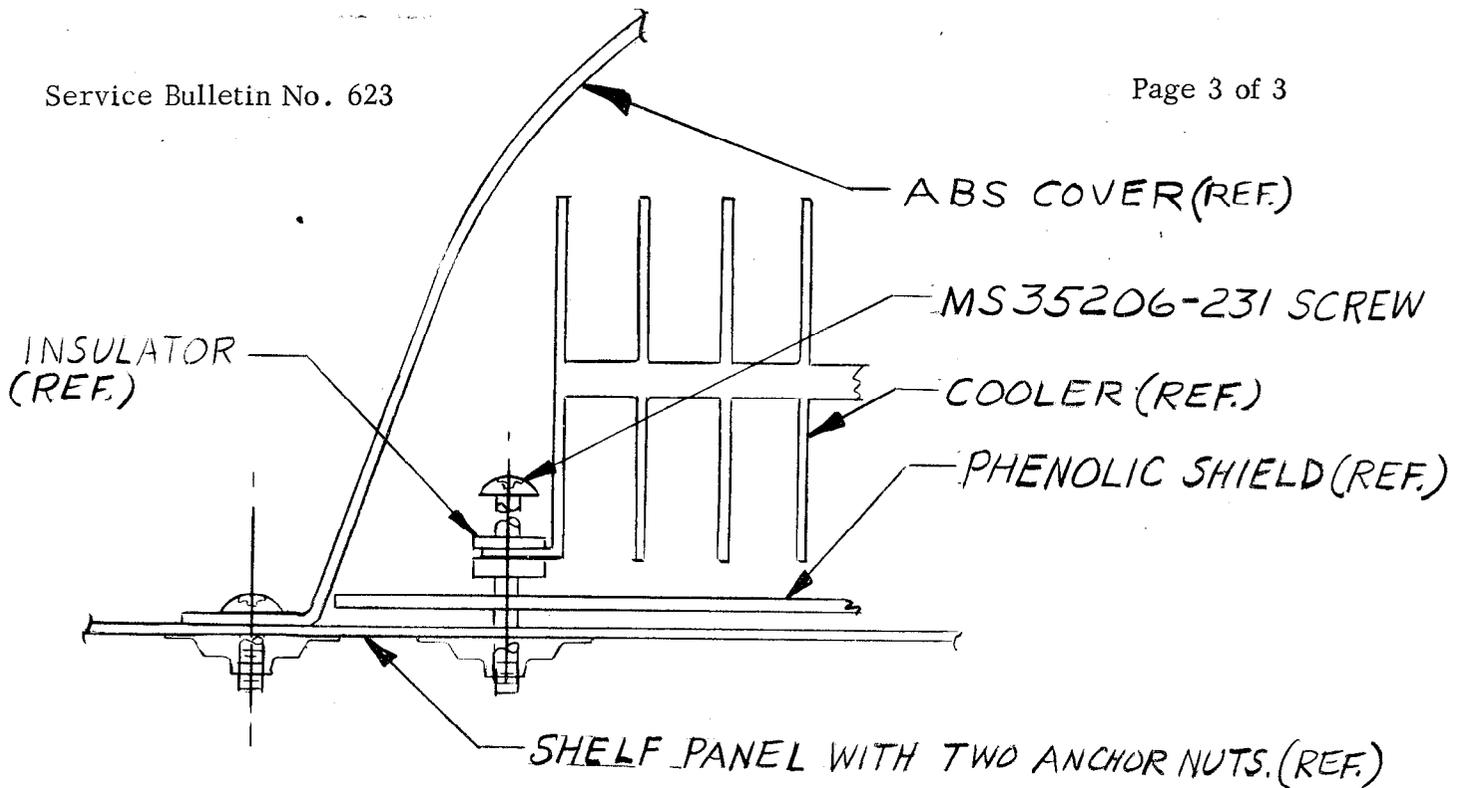
Not applicable.

Effectivity Date:

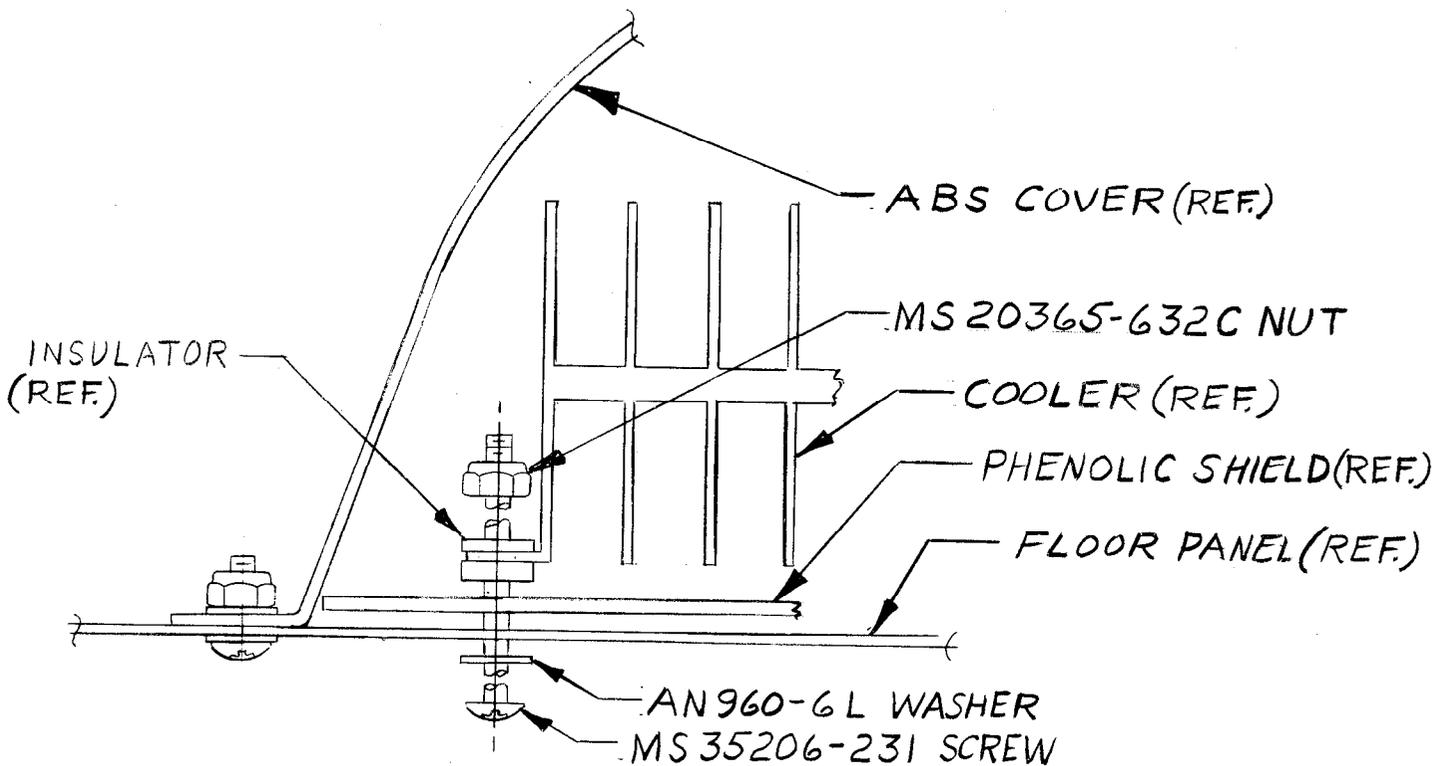
This Service Release is effective upon receipt.

Summary:

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



INST'L. ON PA28-180/181/235 PA28R-200/-201/-201T



INST'L. ON PA28-140/-151/-161