



SERVICE BULLETIN

No. 612

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA/DOA SO-1 Approved

October 25, 1978

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Subject:

Fuel Gascolator Assembly Inspection

Models Affected:

Serial Numbers Affected:

PA-28-161 Cherokee Warrior II

28-7816002 to 28-7816553 Inclusive, 28-7816554, 28-7816556 to 28-7816564 Inclusive, 28-7816566 to 28-7816597 Inclusive, 28-7816599 to 28-7816607 Inclusive, 28-7816609 to 28-7816634 Inclusive, 28-7816636 to 28-7816643 Inclusive

PA-28R-201T Cherokee Turbo Arrow III

28R-7803002 to 28R-7803294 Inclusive, 28R-7803296 to 28R-7803308 Inclusive, 28R-7803310, 28R-7803311, 28R-7803315, 28R-7803317 to 28R-7803321 Inclusive, 28R-7803323 to 28R-7803325 Inclusive

PA-28R-201 Cherokee Arrow III

28R-7837002 to 28R-7837232 Inclusive, 28R-7837234, 28R-7837236, 28R-7837238 to 28R-7837241 Inclusive, 28R-7837243 to 28R-7837245 Inclusive, 28R-7837248 to 28R-7837250 Inclusive, 28R-7837253 to 28R-7837257 Inclusive, 28R-7837260, 28R-7837262 to 28R-7837264 Inclusive, 28R-7837266 to 28R-7837270 Inclusive, 28R-7837272 to 28R-7837275 Inclusive.

Compliance Time: Within the next twenty-five (25) hours of operation or at the next regularly scheduled inspection or annual inspection, whichever occurs first.

Purpose: It has been determined that the fuel gascolator assembly could be installed with the fuel line connections reversed. If this condition exists, the gascolator will not effectively filter the fuel. This Service Release provides instructions for the inspection and modification, if required.

Instructions:

INSPECTION:

1. Remove top cowl (201 and 201T) or open top left cowl (161).
2. Remove lower cowl attaching hardware on left side only.
3. Pull lower cowl outward just enough to expose the fuel gascolator assembly.

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Instructions: (continued)

INSPECTION: (continued)

4. Viewing the top of the gascolator housing, the outlet port (forward) should have the boss extending beyond the perimeter of the housing. The inlet boss (adjacent to the firewall) is flush with the perimeter and has the letters "IN" on top of the housing.
5. If the position of the gascolator is as described in Instruction 4 above, no further action is required.
6. If the gascolator is not installed as described in Instruction 4 above, proceed with MODIFICATION Instructions below.

MODIFICATION:

1. Remove lower cowling.
2. Place the fuel selector valve in the "OFF" position.
3. Cut safety wire on the gascolator bowl bail. Remove the filter bowl, gasket and screen from the gascolator. Clean any deposits that may be on the screen and/or the bowl.
4. Carefully spread the bail wire where it enters the housing until the bail can be removed.
5. Supporting the fittings in the gascolator housing with an open end wrench, remove the inlet and outlet "B" nuts. It will facilitate the removal and re-installation of the gascolator assembly if the fuel line is loosened at the electric fuel pump inlet.
6. On the PA-28-161 only, it will be necessary to disconnect the primer line directly on top of the gascolator housing.
7. The gascolator assembly may now be removed from the attaching bracket and turned 180°, positioning as described in Instruction 4 of the INSPECTION.
8. If the line assembly does not reach the inlet fitting, it will be necessary to remove the forward left hand upholstery panel and straighten any bends that may be in the line between the fuel selector valve and the gascolator.
CAUTION: Pulling the line into position with the "B" nut may cause damage to the flare.
9. Re-assemble in the reverse order of Instructions 2 through 6 above.
10. Turn on the aircraft power and the fuel boost pump and check for any fuel leaks. Correct any discrepancies found.
11. Replace lower cowl.
12. Enter compliance in appropriate log book.

Material Required: Not applicable.

Availability of Parts: Not applicable.

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 Release.