



Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, FL, U.S.A. 32960

SERVICE NO. 1256 LETTER

Date: July 9, 2019

(S)

SUBJECT:

GASCOLATOR BRACKET ASSEMBLY INSPECTION

MODELS AFFECTED:

PA-28-151 Warrior
PA-28-161 Cadet
PA-28-161 Warrior II

PA-28-161 Warrior III
PA-28-181 Archer II

PA-28-181 Archer III

PA-28-201T Turbo Dakota
PA-28-236 Dakota

PA-28R-201 Arrow III

PA-28R-201T Turbo Arrow III

PA-28RT-201 Arrow IV
PA-28RT-201T Turbo Arrow IV

SERIAL NUMBERS AFFECTED:

28-7415001 through 28-7715314
2841001 through 2841365
28-7716001 through 28-8216300; 28-8316001 through
28-8616057; 2816001 through 2816109
2816110 through 2816119; 2842001 through 2842420
28-7690001 through 28-8690056; 28-8690061,
28-8690062; 2890001 through 2890205
2890206 through 2890231; 2843001 through 2843949;
2881001 through 2881123
28-7921001 through 28-7921095
28-7911001 through 28-8611008; 2811001 through
2811050
28R-7737002 through 28R-7837317; 2837001 through
2837061; 2844001 through 2844181
28R-7703001 through 28R-7803373; 2803001 through
2803012
28R-7918001 through 28R-8218026
28R-7931001 through 28R-8631005; 2831001 through
2831038

COMPLIANCE TIME:

On condition

APPROVAL:

The engineering aspects of this service document have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

PURPOSE:

On some of the affected airplanes, there may not be enough clearance for the gascolator bowl (also known as the fuel strainer or fuel filter bowl) to be removed by lowering it through the gascolator bracket assembly. This lack of clearance would necessitate further disassembly, in order to remove the bowl upward.

If the bowl cannot be lowered, this service letter provides the steps to modify the hole in the filler plate, which is riveted to the gascolator bracket, to allow the proper removal of the bowl.

ATA/JASC: 2821

(OVER)

INSTRUCTIONS:

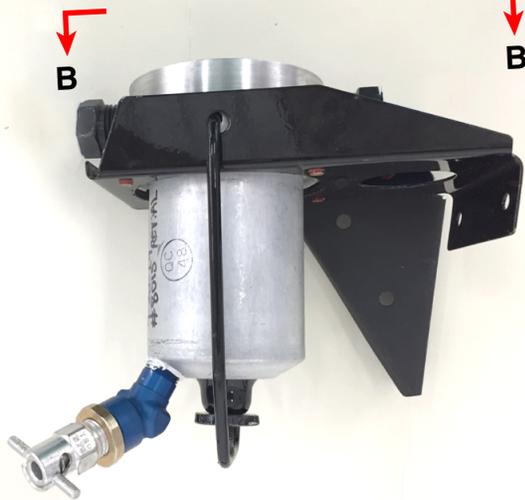
NOTE: The part numbering convention used by Piper has changed over the years. A part number that includes a dash number with a few leading zeros is equivalent to the same part number with a dash number having one or no leading zeros. For example, part number 12345-007 is equivalent to both 12345-07 and 12345-7. All three part numbers identify the same part.

CAUTION: ENSURE THAT THE FUEL SELECTOR (OR FUEL SHUTOFF) VALVE IS IN THE OFF POSITION PRIOR TO STARTING THESE INSTRUCTIONS.

1. Follow the gascolator (aka the fuel strainer or fuel filter bowl) removal procedures in Section 28-20-00 of the appropriate Piper Airplane Maintenance Manual (AMM) or Section IX of the appropriate Piper Service Manual (SM). Also refer to Figure 1.
2. Measure the hole in Gascolator Filler Plate, Piper part number (P/N) 85581-002, which is riveted to the Gascolator Bracket, P/N 35455-000. The diameter of the hole should be 2.125 inches. See Figure 1, View B–B.
3. To modify the filler plate hole to 2.125 inches in diameter, complete the following steps:

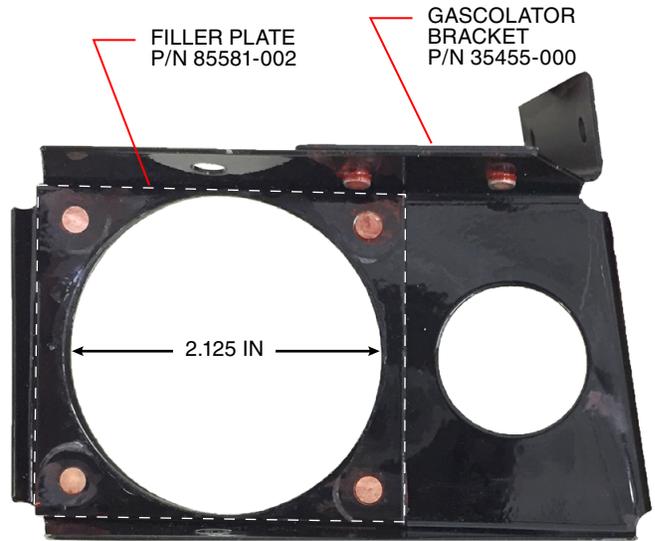
CAUTION: TO AVOID THE RISK OF IGNITING COMBUSTIBLE FUMES, REMOVE METAL PARTS THAT ARE NEAR FUEL SYSTEM COMPONENTS AND PERFORM WORK ON THEM IN A WELL-VENTILATED AREA.

- a. Remove the Gascolator Bracket Assembly, P/N 35454-000 (which comprises the gascolator bracket and filler plate), which is secured to the firewall by screws fastened to nutplates. Retain all hardware (replace any hardware on condition).
 - b. With a rotary tool, file or similar tool, carefully expand the hole in the Gascolator Filler Plate, P/N 85581-002, to a diameter of 2.125 +/- 0.010 inches.
 - c. Remove any burrs or sharp edges from the modified hole. Wipe the surface of the bracket assembly using a soft cloth dampened with isopropyl alcohol, mineral spirits, naphtha, or other suitable cleaning agent.
 - d. Apply primer to the areas where paint was removed using MIL-PRF-85582D primer, or any primer conforming to MIL-PRF-23377 and apply per manufacturer's instructions. Alternatively, Piper P/N 279-108 (AkzoNobel Aerospace Coatings P/N 10P30-5 / EC-275) may be used. Follow up with a coating of glossy or flat black enamel to match existing paint (such as Sherwin Williams F77B2 Flat Black or F77B1 Gloss Black).
 - e. Check that the gascolator bowl can be inserted and removed from the modified bracket assembly.
 - f. Reinstall the Gascolator Bracket Assembly, P/N 35454-000.
4. Reinstall the Gascolator Assembly, P/N 96356-000, per the installation steps in Section 28-20-00 of the appropriate Piper AMM or Section IX of the appropriate Piper SM.
 5. Complete a logbook entry documenting compliance with this service letter.



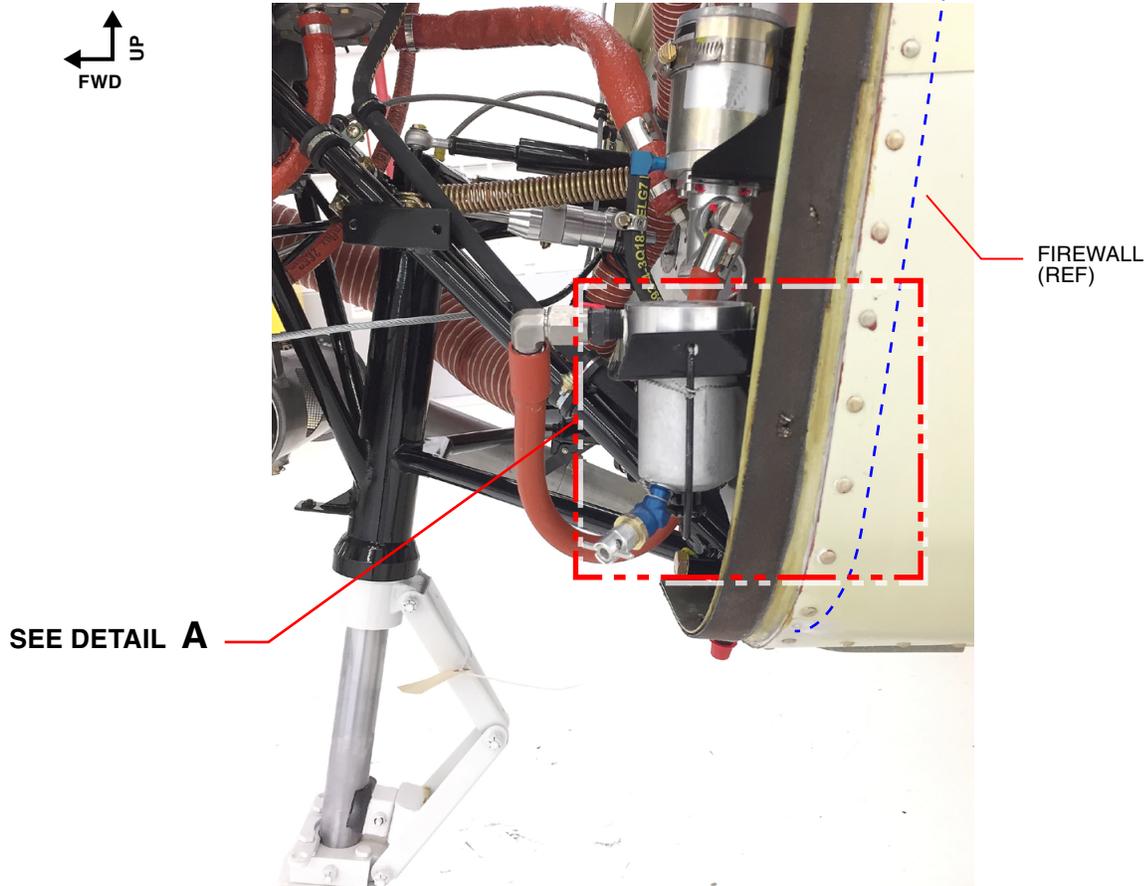
DETAIL A

GASCOLATOR ASSEMBLY (P/N 96356-000) AND
GASCOLATOR BRACKET ASSEMBLY (P/N 35454-000)



VIEW B-B

LOOKING DOWN AT
GASCOLATOR BRACKET ASSEMBLY



GASCOLATOR INSTALLATION
LOOKING INBOARD FROM LEFT SIDE
(SOME COMPONENTS REMOVED FOR CLARITY)

Figure 1
Gascolator Installation

MATERIAL REQUIRED: N/A

AVAILABILITY OF PARTS: N/A

EFFECTIVITY DATE: This service letter is effective upon receipt.

SUMMARY: Please contact your Piper Approved Service Center to make arrangements for compliance with this service letter in accordance with the compliance time indicated.

NOTE: Please notify the factory of any address/ownership corrections. Changes should include aircraft model, serial number, and current owner's name and address.

Corrections and/or changes should be directed to:

PIPER AIRCRAFT, INC.

Att'n: Customer Service

2926 Piper Drive

Vero Beach, FL 32960

or:

CustomerService@piper.com

Please include in subject line: "Aircraft ownership update"