



SERVICE LETTER

No. 559

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

August 3, 1970

Subject: Inspection of Alternate Air System

Models Affected: PA-23-250 (Six Place) and PA-E23-250 (Six Place) Aztec "D" (Lycoming Turbocharged only)

Serial Numbers Affected: 27-4053, 27-4226 to 27-4443 incl., 27-4445 to 27-4456 incl., 27-4458 to 27-4485 incl., 27-4488 to 27-4490 incl., 27-4492 to 27-4496 incl., 27-4498 to 27-4500 incl., 27-4502 to 27-4521 incl. (Lycoming Turbocharged only)

Compliance Time: Prior to but not later than the next 100 hours of operation.

Purpose: To inspect the Alternate Air System on the above referenced aircraft to insure proper rigging and operation of the alternate air control and alternate air valve assembly.

Instructions: A sketch of the Alternate Air System is provided on the reverse side of this letter containing inspection and adjustment procedures to insure proper operation of the alternate air control and alternate air valve assembly.

Material Required: Part number 32343-00 Alternate Air Valve Arm Assembly, as required per the instructions contained on the sketch on the reverse side of this letter.

Availability of Parts: Piper Dealer.

Material Allowance: Part number 32343-00 Alternate Air Valve Arm Assembly, as required per instructions contained on sketch on the reverse side of this letter, comply with Service Publication Compliance/Credit Request procedure.

Labor Allowance: One (1) hour for reinstallation of each alternate air valve and/or replacement of alternate air arm assembly, as required per instructions contained on the reverse side of this letter; comply with Service Publication Compliance/Credit Request procedure.

Disposition of Parts in Stock: Not applicable.

(over)

Disposition of Replaced Parts:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty. Per Aircraft</u>	<u>Code</u>
32343-00	Arm Assembly - Alternate Air Valve	Two Each	C; as required per instructions specified below.

● INSTRUCTIONS

1. Remove the necessary cowling from the engines to gain access to the air filter and remove the air filter by removing the two attachment brackets.
2. With the alternate air cable disconnected, ascertain that the valve is fully open when the arm is against the stop as shown in Figure 2, and that the valve is properly installed in the induction tube as shown in Detail A.
3. If the valve is fully open as in Figure 2, but not installed in accordance with Detail A, disassemble the valve from the arm assembly by drilling out the four rivets and re-install in accordance with Detail A using new Rivets MS20470AD3-8.
4. If the valve is not fully open as shown in Figure 2, it will be necessary to disassemble the valve from the arm assembly and replace the existing arm with a new arm assembly, P/N 32343-00 and reassemble per Figure 2 and Detail A.
5. Connect the alternate air cable to the arm and rig cable with 1/32" max. spring back in the "OFF" position (valve open) and make certain that the valve closes fully in the "ON" position as shown in Figure 3.

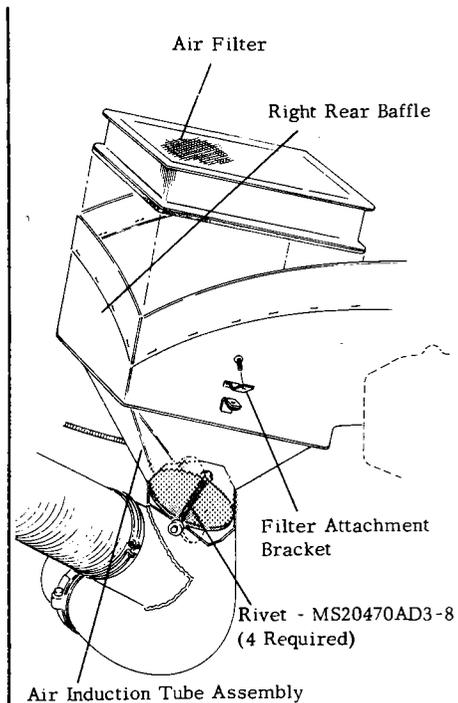


Figure 1
(Alternate Air Valve Shown Closed)

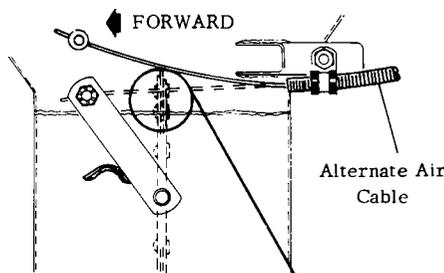


Figure 2

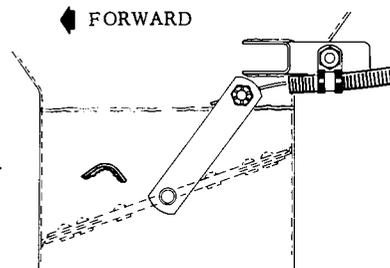
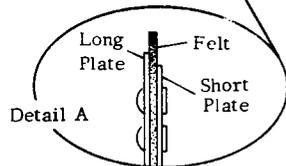


Figure 3



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