

January 7, 1981

VENDOR SERVICE PUBLICATION

To: All Piper CORPAC's and Affected Owners/Operators

Subject: Garrett AiResearch Manufacturing Company of California
Service Bulletin No. 5-2294, Revision No. 1, dated December 15, 1980.
("Outflow/Safety Valve - Inspection for Suspected Faulty Poppet")

Models Affected:

PA-31T Cheyenne II

Serial Numbers Affected:

31T-8020001 through 31T-8020087,
31T-8020089 through 31T-8020092,
and 31T-8120001

NOTE: This release affects only those aircraft delivered from the Piper Aircraft Corporation factory at Lock Haven, Pa. on or after January 1, 1980, or those aircraft which have had outflow/safety valve replaced on or after January 1, 1980.

Purpose:

To distribute attached Garrett AiResearch Service Bulletin No. 5-2294, Revision No. 1, to Piper Field Service Facilities and to affected owners/operators.

Detailed instructions are on the attached publication; additional/supplemental data are contained in the following "Special Instructions."

SPECIAL INSTRUCTIONS

1. Refer to PA-31T Maintenance Manual for access, removal and installation procedures.
2. Make aircraft logbook entry relative to Garrett AiResearch Service Bulletin No. 5-2243, Revision No. 1 after appropriate compliance action.
3. For affected aircraft reimbursement is available through the credit application procedures of your Piper Field Service Facility for up to 2.5 hours per valve for removal, inspection, and replacement or reinstallation, and for material if replacement is required. Comply with Piper Product Condition/Compliance Report procedure.

This offer remains in effect until August 31, 1981.



AIRESEARCH MANUFACTURING COMPANY
OF CALIFORNIA

TO: HOLDERS OF SERVICE BULLETIN NO. 5-2294 DATED OCT 20/80

Piper Aircraft

REVISION NO. 1 DATED DEC 15/80

BULLETIN NO. 5-2294

HIGHLIGHTS

Pages which have been revised are outlined below together with the highlights of the revision. NOTE: This is a complete publication; all pages of prior issue are to be removed from files and destroyed.

Bulletin and Page No.	Description of Change	Effectivity
5-2294 Page 1	Revised to update paragraph C, Description.	All Models
5-2294 Pages 2, 3	No change; reprint only.	---
5-2294 Page 4	Revised to update valve replacement instructions.	All Models



AIRESEARCH MANUFACTURING COMPANY
OF CALIFORNIA

SERVICE BULLETIN

OUTFLOW/SAFETY VALVE - Inspection for suspected faulty poppet

SECTION 1

PLANNING INFORMATION

A. Effectivity

This service bulletin is applicable to all 103638 Outflow/Safety Valves used on Piper aircraft.

B. Reason

AiResearch has become aware of a potential problem which may be experienced with the outflow and safety valves listed in this service bulletin.

The problem area is centered around the outflow valve poppet assembly. It is suspected that a small percentage of the poppet assemblies could fracture, and depending upon the type of fracture, could go as an unlisted fault or if a total fracture occurs could lead to a valve closure.

Because of these circumstances, we are alerting our customers to perform the inspection check of the outflow and safety valves which is described in this service bulletin.

C. Description

This service bulletin provides instructions for inspection of outflow/safety valves for a suspected faulty poppet assembly and return of valve to AiResearch Manufacturing Company of California if inspection reveals a functional test date of 1 January 1980 through 31 Aug. 1980 without a date stamp on poppet.

It is recommended by the aircraft manufacturer that inspection of outflow/safety valves be accomplished within 24 flight hours after receipt of this service bulletin.

Warranty replacement of outflow/safety valves under this bulletin will terminate as of 31 August 1981.

D. Approval.

Governmental approval not required.

E. Manpower

Not determined.

F. Materials - Cost and Availability

Replacement of outflow/safety valves are to be handled through normal Piper Aircraft warranty channels.

G. Tooling - Price and Availability

Not applicable.

H. Weight and Balance

None.

I. References

This service bulletin was prepared in accordance with ATA 100 requirements.

J. Other Publications Affected

None.

SECTION 2

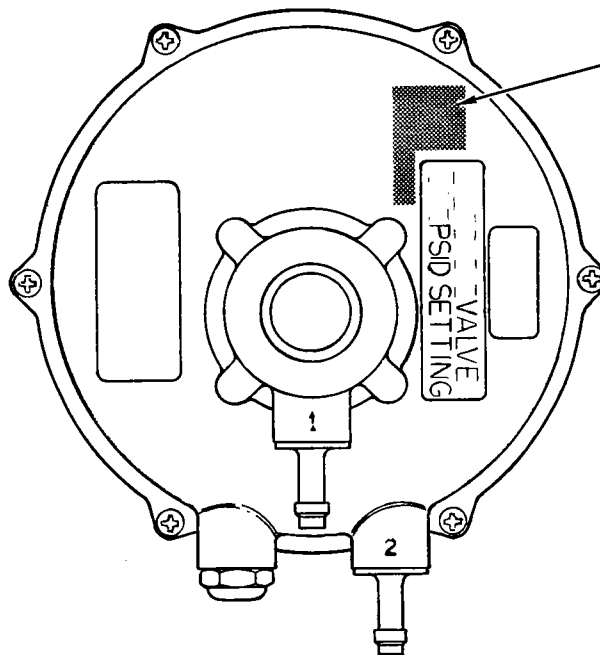
ACCOMPLISHMENT INSTRUCTIONS

A. Access for Inspection

- (1) Determined by Aircraft Manufacturer's procedures.

B. Method of Valve Inspection

- (1) Inspect all installed outflow/safety valves as follows:
 - (a) Visually check the functional test (FT) date appearing on cover of outflow/safety valve (see figure 1) to determine if the FT date falls between 1 January 1980 through 31 Aug. 1980. If the FT date is not within these dates and no physical damage is apparent, no further action is required and outflow/safety valve is considered serviceable.

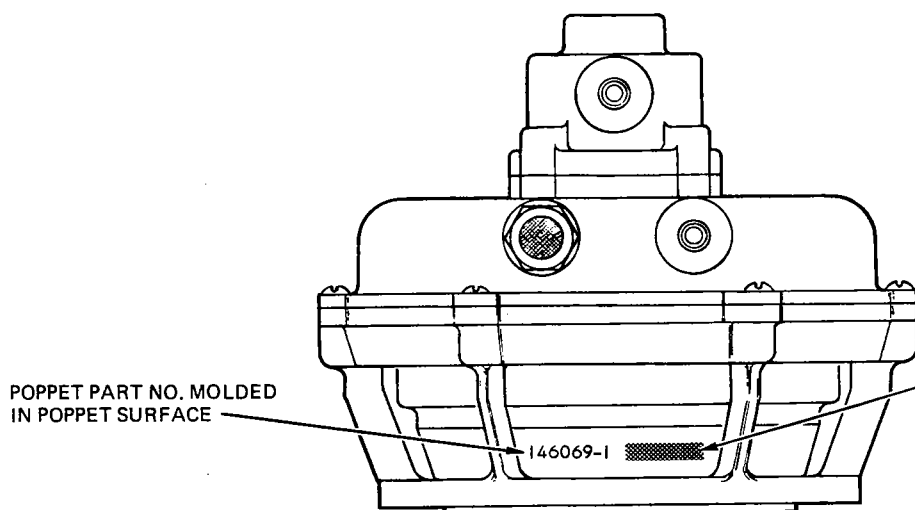


F T INK STAMPED DATE
WILL BE IN THIS AREA.

EXAMPLE: AUG 28 1980

F T
374

IDENTIFICATION OF F T DATE



POPPET PART NO. MOLDED
IN POPPET SURFACE

INK STAMPED DATE WILL BE IN
THIS AREA NEXT TO POPPET PART
NO. OR WILL BE APPROXIMATELY
180° FROM POPPET PART NO.

EXAMPLE: APR 4 1980

IDENTIFICATION OF POPPET DATE

M-11-194

Typical Outflow/Safety Valve
Figure 1

- (b) If check of the FT date is between the specified date of 1 January 1980 and 31 August 1980, perform check of poppet assembly to determine if a date stamp appears on surface of poppet (figure 1), or if poppet is fractured. If poppet does not have a date stamp, remove and replace the outflow/safety valve within 100 flight hours after receipt of this bulletin. If poppet is fractured, remove and replace defective outflow/safety valve prior to next flight. Return outflow/safety valve to Piper Aircraft for replacement.
- (c) If check of poppet assembly reveals a date stamp on poppet, regardless of an FT date within 1 January 1980 through 31 Aug. 1980, the poppet assembly is considered servicable and outflow/safety valve can remain in use.

C. Reidentification Instructions

None.

SECTION 3

MATERIAL INFORMATION

Not applicable.