

The Piper logo consists of the word "PIPER" in a bold, sans-serif font, enclosed within a dark rectangular box with a diagonal line running from the top-left to the bottom-right.

**Customer Services**

Piper Aircraft Corporation

# SERVICE LETTER

**No. 619**

Lock Haven, Pennsylvania, U.S.A.

June 9, 1972

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Subject: Inspection of Piper part number 83302-13 Retainer Spring

Models and Serial Numbers Affected:

Models Affected

PA-23-235, PA-23-250 and PA-23-250

(Six Place) Aztec

PA-31 and PA-31-300 Navajo

Serial Numbers Affected

27-1 and up.

31-2 and up.

Compliance Time: At the next scheduled inspection not to exceed 100 hours of operation.

Purpose: The subject spring, which is a cylindrical - shaped coil tensioning or return spring with attachment hooks on both ends, is used on the above referenced aircraft in the following areas:

<u>Aircraft Type</u>	<u>System</u>	<u>Location</u>
Aztec	Fuel Control Box	Fuel Drain Control Stem
Navajo	Power Plant	Alternate Air Box and Door Assembly

Refer to attached sketch for an illustration of these areas.

Recent reports received from the field describe premature failures of the above referenced springs, occurring on aircraft with relatively low time in operation. The reports indicated that the springs were too brittle for proper function; a subsequent check of existing factory stock of the above referenced spring confirmed the assumption that the springs are subject to "hydrogen embrittlement", which occurs during the manufacturing process and manifests itself in springs which are too brittle - causing premature breakage.

This Service Letter requests the replacement of the subject spring as used in the above described configuration to insure that any defective springs installed in the above referenced aircraft are removed from service.

(over)

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Purpose: (Continued)

NOTE: All subject springs in factory stock have been inspected to insure that springs of proper manufacture are available for replacement purposes.

Instructions:

1. Gain access to the Aztec Fuel Control Box and Navajo Air Filter Plenum Assembly; refer to attached sketch for a general illustration.
2. Remove the spring from the Aztec Fuel Drain Control Stem and Navajo Alternate Air Box Door Assembly and install replacement spring (see Material Required, below).
3. Make appropriate log book entry.

Material Required:

1. Aztec Fuel Control Box: One (1) each (per aircraft) Retainer Spring, part number 83302-13.
2. Navajo Alternate Air Box Door: One (1) each (per Alternate Air Box) Retainer Spring, part number 83302-13.

Availability of Parts:

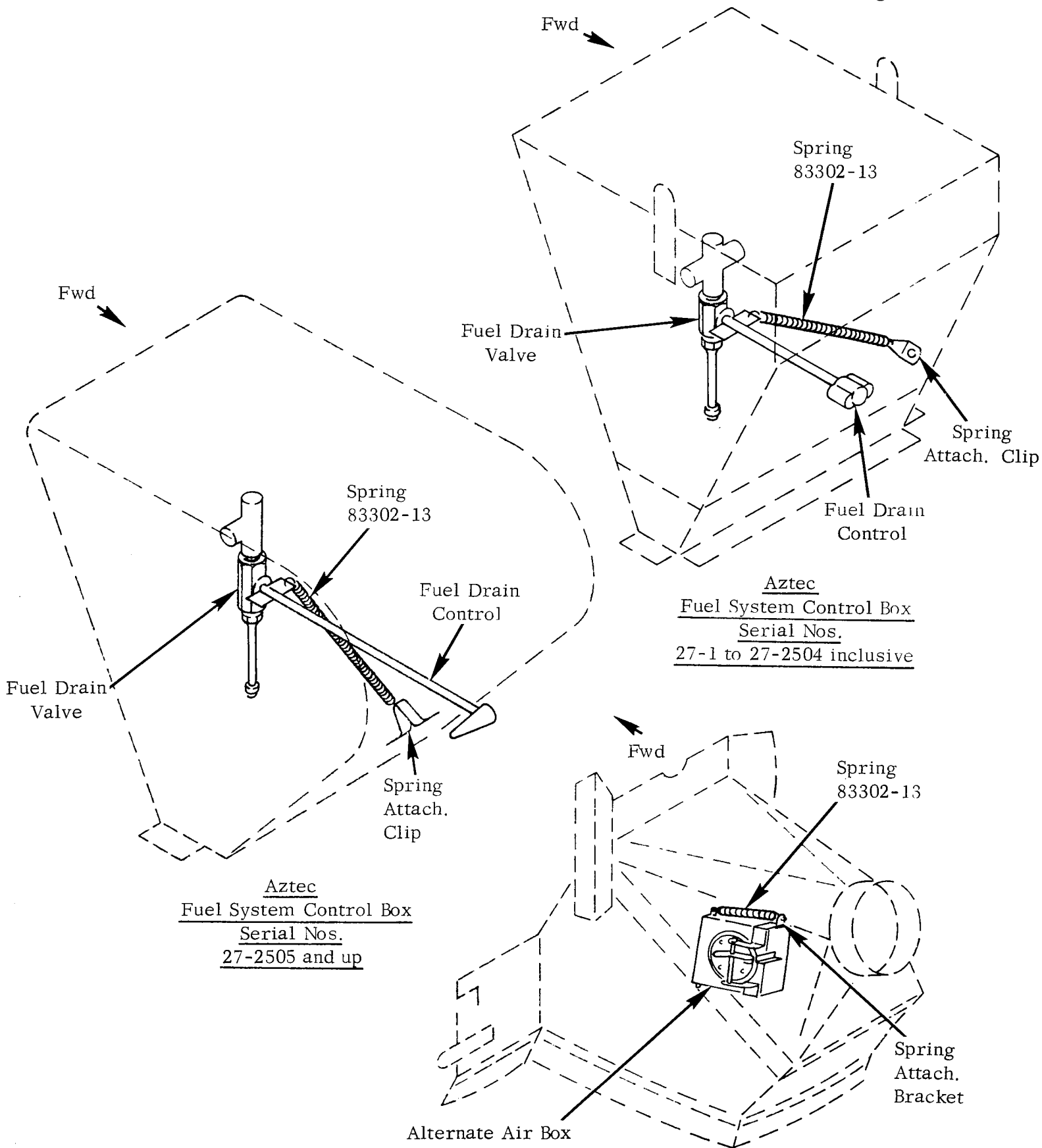
Your Piper Dealer.

Effectivity Date:

This Service Letter is effective June 23, 1972.

Summary:

Please make arrangements with your Piper Dealer to comply with this Service Letter in accordance with the provisions of Compliance Time, above. The necessary replacement material will be provided to you at no charge, and can conveniently be installed during your next regularly scheduled inspection.



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