



SERVICE BULLETIN

No. 455

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA DOA EA-1 Approved"

April 30, 1975

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Subject:

Fuel Selector Valve Inspection

Models Affected:

PA-23-250 (Six Place) Aztec

Serial Numbers Affected:

27-7305127 to 27-7554008 incl.; 27-7554010 to 27-7554069 incl., 27-7554071, 27-7554072, 27-7554075, 27-7554077 to 27-7554080 incl., 27-7554083, 27-7554087, 27-7554088, 27-7554090, 27-7554092, 27-7554098, 27-7554100, 27-7554102 and 27-7554104.

Compliance Time:

- I. Aircraft listed above with fifty (50) hours or more time in operation; at the next scheduled inspection interval (100 hour, annual or Programmed Inspection Event), not to exceed the next 100 hours of operation.
- II. Aircraft listed above with less than fifty (50) hours time in operation; within the next ten (10) hours of operation.

Purpose:

A recent group of Piper part number 492-222 (manufacturers number 3564-00-1), left, and Piper part number 492-223 (manufacturers number 3564-00-2), right Fuel Selector Valves, had several units assembled incorrectly, which could cause a reduced flow of fuel from the tanks or inability to draw fuel from the selected tank.

This service release provides instructions to check the left and right fuel selector valves for proper function, and to replace valve (s), if required.

Instructions:

- A. Inspection of Fuel Selector Valves (installed in aircraft) - with full tanks:
 1. Turn both left and right fuel selector valves to "off" position; cross feed should be "off".
 2. At the right and/or left engine compartment (s), gain access to the main fuel feed line at the engine fire-wall by removing the inboard engine cowl side panels.
 3. Disconnect the fuel line from the fitting at the fire-wall and cap the fuel line to prevent fuel spillage .
 4. Place flexible hose over the firewall fitting and place the opposite end of the hose into a five gallon container.
(over)

Instructions: (Continued)

5. Select the "Inboard - Main Tank" position and turn on Emergency Fuel Pump. Observe flow of fuel into container; flow should be full line capacity, indicating proper selector valve function (i.e., no restriction to flow). Allow approximately five (5) gallons to flow into container.
 6. Check tank to insure that fuel has been drawn from the selected (inboard) tank.
 7. Select "Outboard" tank and repeat step numbers five and six.
 8. If no restriction to fuel flow is observed in either tank position, reconnect fuel lines and repeat steps two through seven (above) on opposite engine. NOTE: Use caution to prevent fuel spillage.
 9. Should there be any indication of restricted fuel flow during the above procedure, replace appropriate Fuel Selector Valve(s).
 10. If valve function is acceptable, paint white dot on (approx 1/4" dia.) valve I.D. plate, signifying compliance with this Service Bulletin.
 11. Make appropriate log book entry.
- B. Inspection of Fuel Selector Valves in field stock (refer to attached illustration):
1. Remove protective caps from the three (3) valve ports.
 2. With the fuel selector lever in "off" position, observe that all three (3) ports are closed.
 3. Select lever to either side against the stop, and observe that the center and one of the side ports are open.
 4. Move lever to full opposite position; observe that the center and the opposite (from step 3, above) ports are open.
 5. If valve is in accordance with above, paint a white dot (approx. 1/4" diameter) on valve I.D. plate, signifying compliance with this Service Bulletin.

Instructions: (Continued)

Material Required:

Availability of Parts:

Effectivity Date:

Summary:

B. 6. If valve fails above check, return to Piper Field Service Facility.

Fuel Selector Valve(s), one each Piper part number 492 222 (left) and/or part number 492 223 (right), if required per Instructions, Item 9, above.

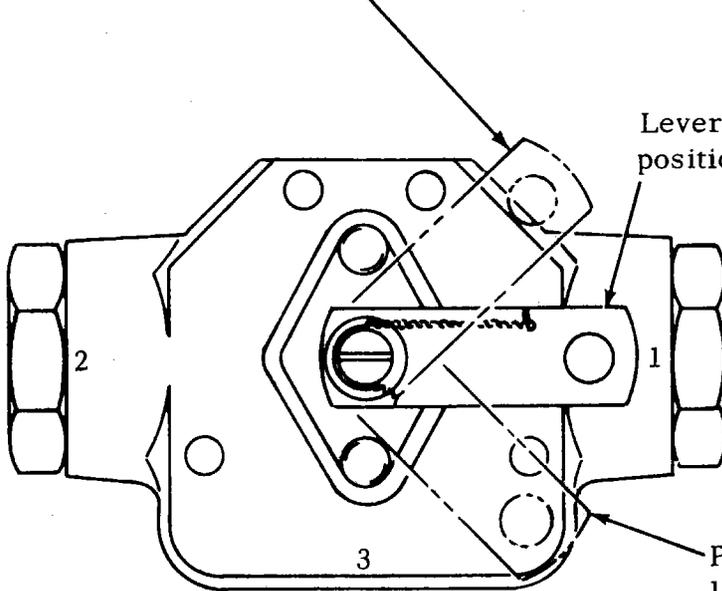
Your Piper Field Service Facility.

This Service Bulletin is effective upon receipt.

Please contact your Piper Field Service Facility to make arrangements for compliance with this service release in accordance with Compliance Time, above. One hour per aircraft (for aircraft specified in Compliance Time II above) labor allowance credit is provided for the inspection described above; should material requirement be required, appropriate valve(s) and three (3) hours labor credit per valve will be available free of charge through your Piper Field Service Facility.

A Service Publication Compliance Form is enclosed with each copy of this service release mailed to affected owners of record; please fill out the form according to instructions on the form reverse side and leave with the Piper Field Service Facility performing the inspection/replacement.

Ports 1 and 3 open with lever in this position.

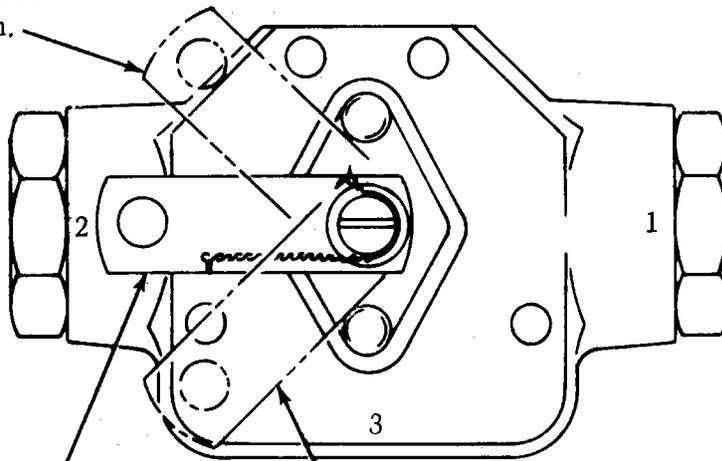


Lever shown in closed position - all three ports closed.

Ports 2 and 3 open with lever in this position.

FUEL SELECTOR VALVE - P/N 492 222 (#3564-00-1)

Ports 2 and 3 open with lever in this position.



Lever shown in closed position - all three ports closed.

Ports 1 and 3 open with lever in this position.

FUEL SELECTOR VALVE - P/N 492 223 (#3564-00-2)