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SERVICE BULLETIN

SB064-0802

Subject: Lancair Legacy Fuel Selector Valve
Date: 08-10-02
Ref: Construction Manual, Figure 14:G:1
Pages: 1
Status: Mandatory Inspection and Change as Necessary

Background:

It has recently come to our attention that the fuel selector valve handle installation as shown in Figure 14:G:1 of the construction manual may be incorrect. Depending on the clocking of the spindle to the selector the actual orientation of the selector may vary. If installed incorrectly the fuel selector will not function properly. This may restrict or completely block the fuel, causing engine failure.

Action:

1. Disconnect the fuel line at the fuel pickup at each of the two wings.
2. Disconnect the fuel line at the gascolator (or anywhere downstream of the fuel selector valve).
3. Move the fuel selector to the left position. Note that the fuel selector valve has a positive detent in the "LEFT" position, in the "RIGHT" position, and in the "OFF" position. When the fuel selector valve is operating properly you must be able to positively feel the detent.
4. With the fuel selector valve in the left position blow through the fuel line that you disconnected at the left wing. Have a helper check that air is exiting at the gascolator and that there is no air exiting at the right wing.
5. Repeat for the right tank.
6. With the fuel selector valve in the "OFF" position attempt to blow through the fuel lines from both the "LEFT" and the "RIGHT" wing. You should not be able to blow any air through the lines.

As necessary, reposition the fuel selector valve handle as outlined above.

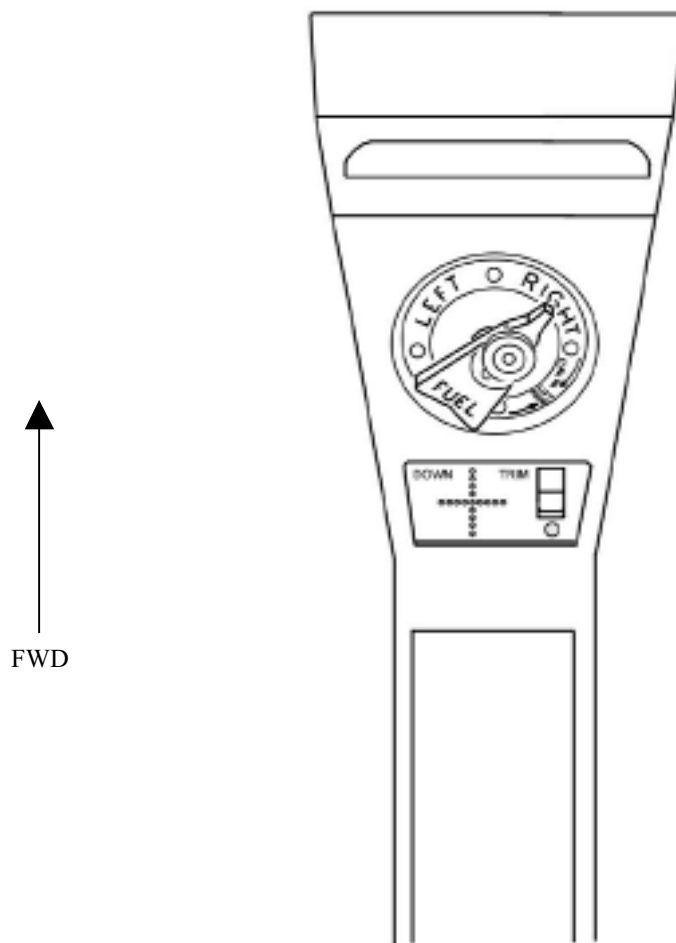
Depending on the clocking of the fuel selector handle to fuel selector the actual orientation of the fuel selector handle may vary. All recent fuel selector valves for both the Lycoming and the Continental are clocked such that the "LEFT" tank position is 45 degrees off to the left side. The "RIGHT" tank will be 45 degrees off to the right side. The "OFF" position will be at approximately 4 o'clock.

RUN THE ENGINE ON THE GROUND WITH THE FUEL SELECTOR VALVE AT HIGH POWER SETTINGS IN BOTH THE LEFT AND THE RIGHT TANK POSITIONS PRIOR TO FLIGHT.

Fuel Selector Valve Handle

Fig. 1

TOP VIEW



Typical orientation shown. As shown, the fuel selector valve handle is positioned such that left is 45° to the right.