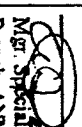


| Revision No. | Description | Affected Pages | Approval |
|--------------|--|----------------|---|
| Original | Complete Flight Manual Supplement for FS-450 | 1 thru 4 |  Mgr. Special Certification Branch, ANM-1905 FAA, Seattle ACO Transport Airplane Directorate Date: Dec. 8, 2000 |

FAA APPROVED

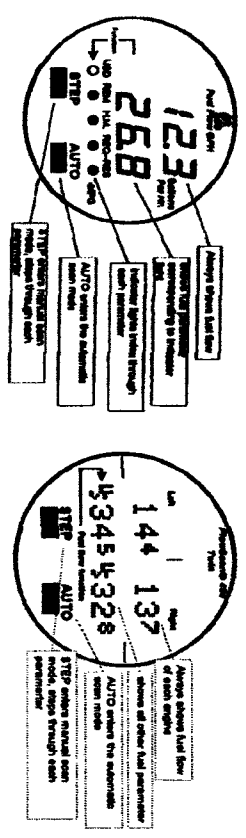
Date: _____

1 GENERAL OPERATION

The FS-450 Fuel Scan uses a small turbine transducer that measures the fuel flowing into the engine. Higher fuel flow causes the transducer turbine to rotate faster which generates a faster pulse rate. Prior to engine start you inform the FS-450 Fuel Scan of the known quantity of fuel aboard, and it will keep track of all fuel used.
Start Up Fuel : After initial self-test, you will be asked to inform the FS-450 of start up fuel. The FS-450 will display **FUEL CR/L** (or **Lb5** or **Lb5**) for one second, and then flash **F L L L** until any button is pressed. Refer to the column in the chart below corresponding to your fuel tank configuration. Tap the AUTO button to select one of the four following fueling choices on the left column of the chart.

| | Main tanks only, no tabs | Main tanks with tabs | Main & Auxiliary tanks |
|-----------------------|--|---|--|
| AUTO to choose | Did not add any fuel since last shutdown. | Did not add any fuel since last shutdown. | Did not add any fuel since last shutdown. |
| F L L L | Topped the main tanks. | Filled only to the tabs. | Topped the main tanks. If some additional fuel is added to the auxiliary tanks, you will input the next when DL CR/L is displayed |
| F L L L | (not available) | Topped the main tanks. | Topped both the main and auxiliary tanks. |
| F L L L | Did not top, but added additional fuel to the aircraft, or removed fuel from the aircraft. | | |

The FS-450 has programmable alarms. When the remaining amount of fuel falls below the alarm limit the bottom display will show the amount of fuel remaining and the specific cue light will flash. When the remaining time falls below the alarm limit the bottom display will show the MINUTES of fuel remaining and the specific cue light will flash. When an alarm is displayed, tapping the STEP button will temporarily disable the alarm indication for the next ten minutes. When an alarm is displayed, holding the STEP button until the word **DF** appears will disable that alarm indication for the remainder of the flight. After initial self-test, you will be asked to inform the FS-450 of start up fuel. The FS-450 will display **FUEL CR/L** (or **Lb5** or **Lb5** pounds) for one second, and then flash **F L L L** until any button is pressed. The display will pause at each parameter for a few seconds in the Automatic Indexing mode. In the Manual Indexing mode, tap the STEP button to advance to next parameter. Holding the STEP button will display the previous parameters in the sequence (rapidly backwards).
 • Digital display for numeric readouts and messages: top display is fuel flow and the lower display for all other parameters.
 • Indicator lights to show what information is being displayed on the digital display



GENERAL OPERATION (CONT.)

| Parameter Description | Example | Comments |
|--|---------|--|
| USD—Total Fuel Used | 38.2 | Since last refueling or trip total. |
| REM—Fuel Remaining | 37.2 | In gallons, liters or pounds |
| H.M.—Time to Empty | 02.45 | Hours. Minutes Remaining at current fuel burn |
| REQ—Fuel required to next GPS WPT or Destination | 25.8 | Present with GPS interface Valid signal and way point |
| RES—Fuel Reserve at next GPS WPT or Destination | 11.3 | Present with GPS interface Valid signal and way point |

II. OPERATING LIMITATIONS

- A. The FS-450 may not replace any existing instrument or indicator required by the aircraft type design or operating limits.
- B. The FS-450 display may not be used in lieu of, or to supersede, engine-operating limitations established by the airframe or engine manufacturer during certification.

III. EMERGENCY PROCEDURES

No change

IV. NORMAL PROCEDURES

CAUTION

Comply with manufacturer's Airplane
Flight Manual leaning procedures.
Do not exceed applicable engine
or aircraft limitations.

Upon starting the engine, the FS-450 will flash, waiting for the pilot to enter the new fuel on board. If no fuel was added, tap the step button, informing the FS-450 no fuel was added. If fuel was added proceed with the fuel add sequence. With the engine running the upper display will show the actual gallons being used per hour. During flight the cue lights will indicate specific functions like REMaining etc. The upper display will always show fuel flow per hour.