FAA APPROVED
AIRPLANE/ROTORCRAFT FLIGHT MANUAL SUPPLEMENT OR
SUPPLEMENTAL AIRPLANE FLIGHT MANUAL (INCLUDING POH AND
FAA AFM)
(FOR THOSE AIRCRAFT WITHOUT A BASIC AIRPLANE FLIGHT
MANUAL)

FS-450 FUEL FLOW INDICATOR
FOR
Single and Twin, Reciprocating Engine Powered Aircraft as listed
On Approved Model List of

STC SA00861SE

REG. NO.__________________

SER. NO.__________________

This Supplement must be attached to the
FAA Approved Airplane/Rotorcraft Flight Manual when the J.P. Instruments FS-450
is installed in accordance with Supplemental Type Certificate SA 00432SE. For those
airplanes without a basic Airplane Flight Manual, the Supplemental AFM must be in the
aircraft when the FS-450 is installed.

The information contained in this Airplane/Rotorcraft Flight Manual Supplement/
Supplemental Aircraft Flight Manual supplements or supersedes the basic manual/
placards only in those areas listed. For limitations, procedures and performance information
not contained in this supplement, consult the basic Airplane Flight manual, Markings and
Placards.

FAA APPROVED:

Manager, Special Certification Branch, ANM-190S
Federal Aviation Administration
Seattle Aircraft Certification Office
Transport Airplane Directorate

Date: December 18, 2000

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I 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 GAL (or Ltrs or Lbs) for one second, and then flash FILL P 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.

<table>
<thead>
<tr>
<th>AUTO to choose</th>
<th>Main tanks only, no tabs</th>
<th>Main tanks with tabs</th>
<th>Main &amp; Auxiliary tanks</th>
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<tr>
<td>FILL P</td>
<td>Did not add any fuel since last shutdown.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FILL 75.</td>
<td>Topped the main tanks.</td>
<td>Filled only to the tabs.</td>
<td>Topped the main tanks. If some additional fuel is added to the auxiliary tanks, you will input this next when 0.0 GAL is displayed</td>
</tr>
<tr>
<td>FILL 120.</td>
<td>(not available)</td>
<td>Topped the main tanks.</td>
<td>Topped both the main and auxiliary tanks.</td>
</tr>
<tr>
<td>FILL Add</td>
<td>Did not top, but added additional fuel to the aircraft, or removed fuel from the aircraft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 OFF 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 GAL (or Ltrs or Lbs) for one second, and then flash FILL P 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.

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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.

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