

SUPPLEMENT 2

TO THE AIRPLANE FLIGHT MANUAL (AFM)

DA42 L360

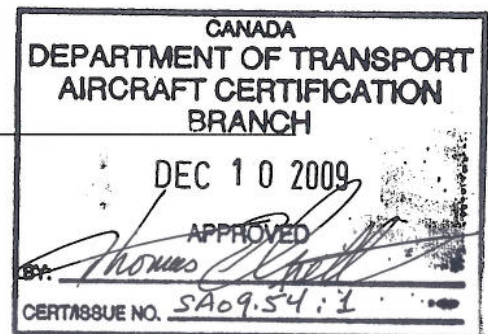
LIGHTED FUEL PUMP SWITCH

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This Flight Manual Supplement 2 has been verified by the Transport Canada Civil Aviation (TCCA) Authority as primary certification authority in accordance with the valid certification procedures and is approved.

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CHAPTER 9

SUPPLEMENT 2

LIGHTED FUEL PUMP SWITCH

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1. GENERAL

This Supplement 2 supplies the information necessary for the efficient operation of the DA42 L360 airplane when the optional FUEL PUMP switch (P/N K1ACBTDADA) is installed. The optional FUEL PUMP switch gives an indication of a fuel pump failure with an amber LED transducer integral to the switch.

The information contained within this Supplement 2 is to be used in conjunction with the complete AFM.

This Supplement 2 to the AFM is provided to acquaint the pilot with the normal operating procedures when the optional FUEL PUMP switch is installed.

This Supplement 2 is a permanent part of this Manual and must remain in this Manual as long as the optional FUEL PUMP switch is installed.

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2. OPERATING LIMITATIONS

No Change.

3. EMERGENCY PROCEDURES

No Change.

4A. NORMAL OPERATING PROCEDURES

No Change.

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4B. ABNORMAL OPERATING PROCEDURES

4B.1 FUEL PUMP SWITCH LIGHT

FUEL PUMP switch illuminates when the fuel pump is activated:

Check for a low fuel pressure indication.

If there is no low fuel pressure indication:

- Expect that it is a false indication. Monitor the engine performance.

If there is a low fuel pressure indication or the engine continues to run rough:

- Carry out procedures as required in Chap 3.5 of the basic DA42 L360 AFM.

CAUTION

THE SWITCH LIGHT ONLY IDENTIFIES A LOSS OF POWER TO THE FUEL PUMP. OTHER ISSUES MAY RESULT IN LOSS OF OPERATION OF THE PUMP AND CAN BE IDENTIFIED BY CONTINUED LOW FUEL PRESSURE WARNING OR OTHER CUES FROM THE ENGINE OPERATION. REFER TO CHAPTER 3.5 OF THE BASIC DA42 L360 AFM.

NOTE

The FUEL PUMP switch will normally not illuminate when the fuel pump has power and is functioning.

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5. **PERFORMANCE**

No Change.

6. **MASS AND BALANCE**

No Change.

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7. DESCRIPTON OF THE AIRPLANE AND SYSTEMS

7.1 POWER PLANT

7.1.1 FUEL SYSTEM

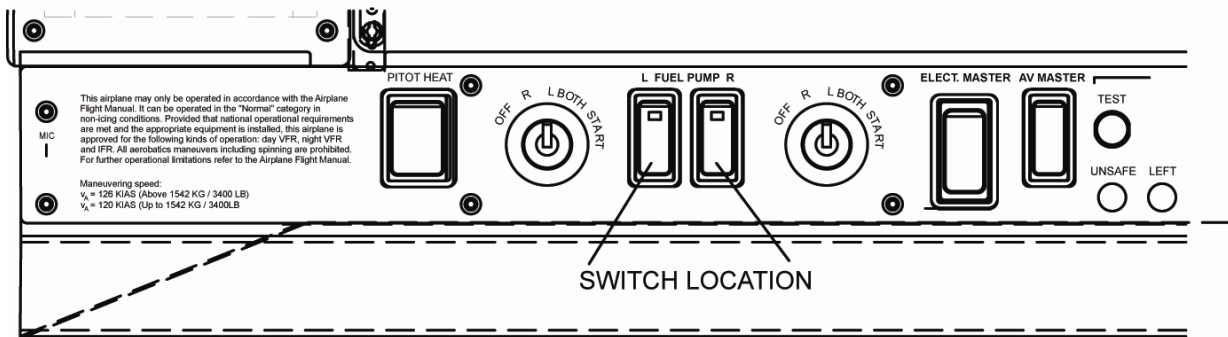
Fuel Pump Switch:

The function of the standard FUEL PUMP switch is to turn the fuel pump on or off. This standard FUEL PUMP switch can be used to turn the fuel pump on or off as required.

The optional FUEL PUMP switch (P/N K1ACBTDADA) is a reed switch with an amber light emitting diode (LED) transducer as part of the switch. This LED amber light will come on if there is a break in current flow to the fuel pump, when the FUEL PUMP switch is selected on. This indicates a possible electrical failure of the fuel pump.

The function of this optional FUEL PUMP switch is to provide an amber light that will come on to inform the pilot of a possible electrical failure of the fuel pump. When the amber light comes on it does not directly indicate that the fuel pump is defective, but it does indicate a break in electrical current within the flow path between the fuel switch and the fuel pump itself.

When the amber light on the FUEL PUMP switch comes on this could be an early indication to an engine problem. Depending on the stage of flight, the pilot should follow the appropriate procedures of sections 3.5 and 4B.3 of the DA42 L360 AFM. These sections deal with engine problems during all phases of flight.



L/R FUEL PUMP SWITCH

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8. **AIRPLANE HANDLING, CARE AND MAINTENANCE**

No Change.

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