

## TEMPORARY REVISION

### TR 09-02

### LIGHTED FUEL PUMP SWITCH

This Temporary Revision TR 09-02 is approved and is valid in conjunction with the latest revision of the DA42 L360 Airplane Flight Manual (D42L-AFM-002) until this Temporary Revision has been incorporated into the Airplane Flight Manual.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the Airplane Flight Manual.

Doc. No.	Chapter	Affected Pages
D42L-AFM-002, Rev. 5	Chapter 0	Pages 0-5 and 0-6
	Chapter 9	Pages 9-1 and 9-2
	Chapter 9 Supplement 2	Pages 9- S2 -1 to 9- S2 -18

#### Instruction

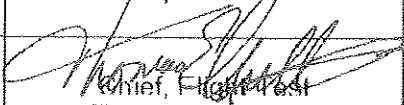
- Print this document on 8.5 x 11 inch yellow paper (double-sided), centered in the landscape orientation. This will print the document 8.5 inches high by 11 inches wide.
- Cut the sheets to make the document 6 inches wide by trimming each side proportionally.
- Punch the holes on the left side of each sheet.
- Insert this cover page as the first page of the AFM.
- Insert the other pages of this Temporary Revision in front of the corresponding AFM pages.

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**RECORD OF REVISIONS**

Rev. No	Affected Pages	Approved	
		Date	Name
Rev. 3	All	16-Jul-09	Chief, Flight Test Transport Canada
Rev. 4	Cover Page, Pages 0-5 to 0-14 Pages 4A-46, 4A-47 Pages 5-1, 5-5, 5-6.	18-Aug-09	Chief, Flight Test Transport Canada
Rev. 5	Cover Page and Back side Pages 0-5 to 0-18 Pages 1-11, 1-12 Pages 2-7, 2-8 Pages 3-23 to 3-24 Pages 3-27 to 3-68 Pages 4A-5 to 4A-10 Pages 4A-21, 4A-22 Pages 4A-35 to 4A-60 Pages 4B-9, 4B-14 Pages 4B-19, 4B-20 Pages 5-1, 5-2 Pages 5-9, 5-10 Pages 5-39 to 5-48 Pages 6-11, 6-12 Pages 7-7, 7-8 Pages 7-21, 7-22 Pages 7-31, 7-32 Pages 7-53 to 7-56	03-Nov-09	Chief, Flight Test Transport Canada
TR 09-01	Pages 0-5 and 0-6 Pages 9-1 and 9-2 Pages 9-S1-1 to 9-S1-26	15-Nov-09	Chief, Flight Test Transport Canada
TR 09-02	Pages 0-5 and 0-6 Pages 9-1 and 9-2 Pages 9-S2-1 to 9-S2-18	10-Dec-09	 Chief, Flight Test Transport Canada

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## CHAPTER 9

### SUPPLEMENTS

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**9.1 INTRODUCTION**

Chapter 9 contains information concerning additional (optional) equipment of the DA42 L360

Unless otherwise stated, the procedures given in the Supplements must be applied in addition to the procedures given in the main part of the Airplane Flight Manual.

All approved supplements are listed in the List of Supplements in this Chapter.

The Airplane Flight Manual contains exactly those Supplements which correspond to the installed equipment according to the Equipment Inventory of Section 6.5.

**9.2 LIST OF SUPPLEMENTS**

Airplane S/N:		Registration:		Date:	
Sup. No.	Title	Rev. No.	Date	Applicable	
				YES	NO
A13	BENDIX/KING KAP 140 AUTOPILOT	0	01-Dec-2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>
S1	NOSE FWD BULKHEAD BALLAST INSTALLATION	0	15-Nov-09	<input checked="" type="checkbox"/>	<input type="checkbox"/>
S2	LIGHTED FUEL PUMP SWITCH	0	10-Dec-09	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>

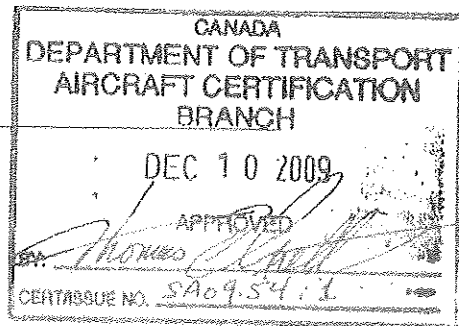
**SUPPLEMENT 2**  
**TO THE AIRPLANE FLIGHT MANUAL (AFM)**  
**DA42 L360**  
**LIGHTED FUEL PUMP SWITCH**

Doc. No. : D42L-AFM-002  
Date of Issue : 10 December 2009

Signature \_\_\_\_\_

Authority \_\_\_\_\_

Date of Approval \_\_\_\_\_



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

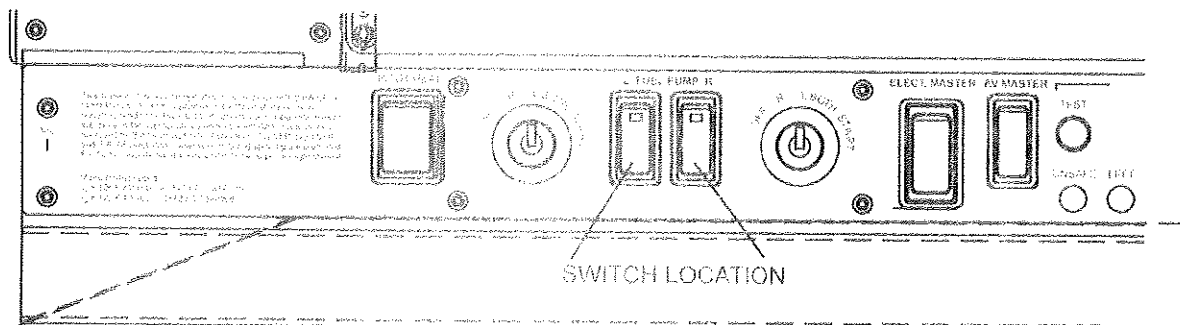
##### Fuel Pump Switch:

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.



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8. AIRPLANE HANDLING, CARE AND MAINTENANCE

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