

# **SERVICE BULLETIN**

**AA-SB-28-003**

## **DISABLING OF FUEL PRESSURE ANNUNCIATOR WARNING**

### **1. Planning Information**

#### **1.1 EFFECTIVITY**

R2000 series with s/n 160A-06001 to 160A-07014 & 160A-0015 & 160Ai-06007 fitted with Electronics International (EI) FP-5L fuel computers.

#### **1.2 CONCURRENT REQUIREMENTS**

**Nil.**

#### **1.3 REASON**

Cases have been reported where the "LOW PRESS" fuel pressure warning light in the annunciator panel illuminated when no problem existed, causing unnecessary pilot confusion and alarm.

The EI FP-5L Fuel Flow/Pressure Instrument has two warning LEDs, one illuminating when the instrument calculates Low Fuel Level and the other illuminating at Low Fuel Pressure. The fuel computer has a single warning signal output triggered by both these conditions.

In the case of the affected aircraft, this external warning signal has been connected to the Annunciator Panel "FUEL PRESS" warning light. This ambiguity makes it possible to get a false "Low Pressure" warning from the Annunciator panel when the fuel computer calculates low fuel level.

#### **1.4 DESCRIPTION**

Both Low Fuel Level and Low Fuel Pressure indications on the Fuel Computer are connected to the Low Fuel Pressure Annunciation Light, causing a potential for misinterpretation of a low fuel warning.

#### **1.5 COMPLIANCE**

**On receipt of this SB, before further flight:**

Install a temporary placard above the "FUEL PRESS" Annunciator Light stating: "CHECK FUEL".

Make an entry in the aircraft Technical Log stating:

"Service Bulletin AA-SB-28-003 pending: 'FUEL PRESS' warning light to be disconnected because it could give false Low Pressure warning when the fuel computer calculates low fuel level. In the meantime, refer to fuel computer when 'FUEL PRESS' illuminates."

Install placard 60-11-111-037 IAW section 3.1.

**Within 50 hours of operation:**

Disconnect wire EF1K20, cap and stow at the connector CA and replace the lens of the "Fuel Press" light on the annunciation panel with a blank lens. Remove temporary "CHECK FUEL" placard if installed. Refer to 3. Accomplishment Instructions.

Incorporate AFM supplement AA/60/0908 (160A) or AA/61/0908 (160Ai).

Make a logbook entry stating compliance with this Service Bulletin and Modification AA/60/0908.

#### **1.6 APPROVAL**

By delegated Authority: Alpha Aviation Design Organisation DO65180 refer COA AA/60/0908.

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### 1.7 WEIGHT AND BALANCE

Not Affected.

### 1.8 REFERENCES

Refer to Section 4 for Schematic.

## 2. Material Information

### 2.1 MATERIALS IDENTIFICATION

Part Number	Description	Quantity
AALWARNING	Spare Red Lens	1
TC-CAPS-4003-2	TC CAPS Heat Shrink	1
60-11-998-001	Temporary Label "CHECK FUEL"	1
60-11-111-037	Placard	1

### 2.2 CONSUMABLES

Cable ties.

### 2.3 OTHER PUBLICATIONS AFFECTED

Flight Manual: Insert Flight Manual supplement AA/60/0908 (160A) or AA/61/0908 (160Ai)

### 2.4 SPECIAL TOOLING

Nil

## 3. Accomplishment Instructions

Refer to the Service Manual. Turn Master Switches OFF and ensure aircraft is in a safe state before commencing work.

### 3.1 INSTALL PLACARD

Install placard 60-11-111-037 to the right of the FP-5L Fuel Computer above the circuit breakers as shown in figure 1 below.

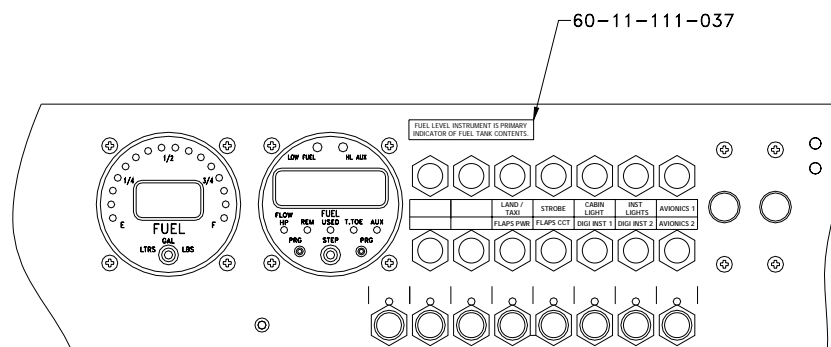


Figure 1

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### **3.2 CAP AND STOW FUEL PRESSURE WIRE TO ANNUNCIATOR PANEL**

With reference to the service manual, remove the access panel item 9 on Fig 2.3.

Locate and identify plug CA in the wiring loom behind the instrument panel. This plug can be found toward the left of the aircraft in the space behind the instrument panel. Figure 2 below shows connector CA:

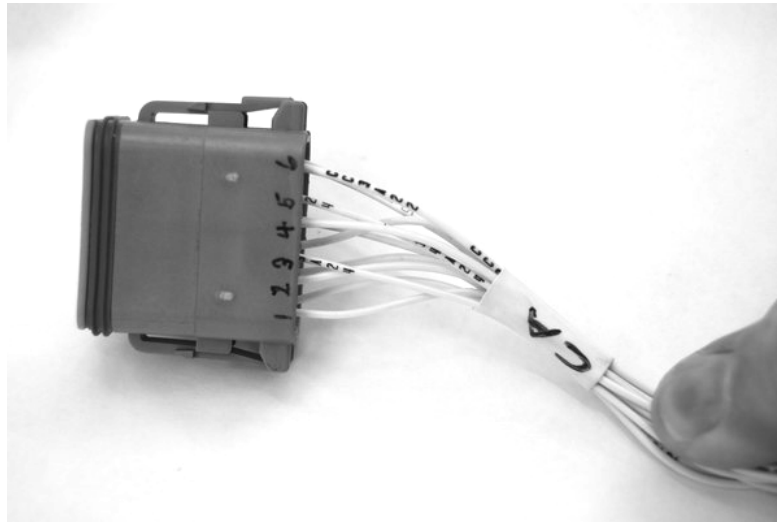


Figure 2: Connector marked CA.

- Identify Pin 1 on the connector. (Connected to wire EF1K20.)
- Disconnect Connector CA.
- Carefully prise off the faceplate of the Connector with a small flat screwdriver.
- With a suitable small screwdriver, push against the base of pin 1 to dislodge it
- Carefully pull on the wire while pushing the pin out. Once the pin starts coming out, pull it free with a set of long nose pliers
- Cap and stow the removed pin and tie the capped wire back to the loom
- Re-connect plug CA.

### **3.3 REPLACE “FUEL PRESS” LENS**

Carefully prise the red lens marked “FUEL PRESS” off the Annunciator panel using 2 small screwdrivers. Replace by snapping on a blank red replacement lens P/N AALWARNING.

### **3.4 FUNCTIONAL TEST**

Carry out a functional test on the Annunciator Panel by turning on the Battery Master and checking if the appropriate warning lights illuminate. The former “FUEL PRESS” light should NOT illuminate. This will confirm that the correct pin has been removed from the plug.

### **3.5 RETURN TO SERVICE**

Replace and seal Access Panel IAW Service Manual.

Remove the “CHECK FUEL” temporary placard, and sign off the Tech Log entry as implemented. Incorporate AFM Supplement AA/60/0908 (160A) or AA/61/0908 (160Ai)

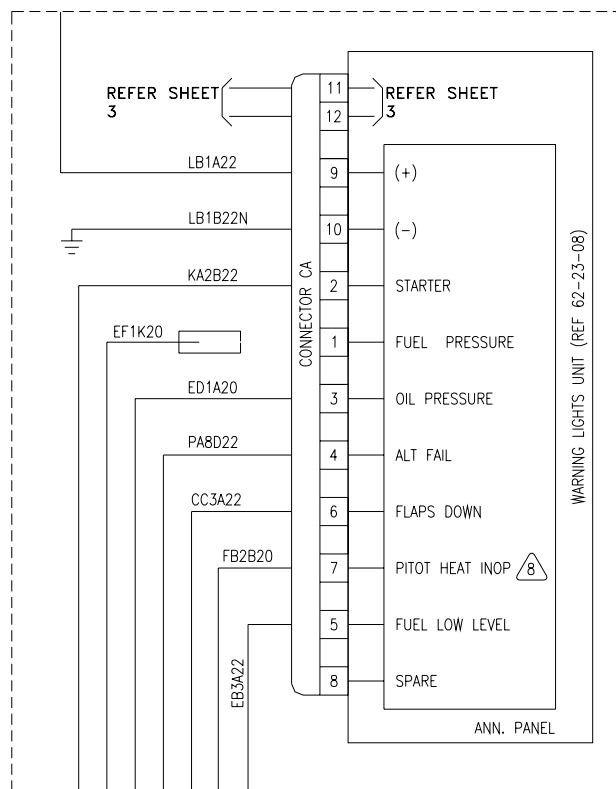
Record accomplishment of this Service Bulletin and Modification AA/60/0908 in the aircraft log book.

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## DISABLING OF FUEL PRESSURE ANNUNCIATOR WARNING

### 4.0 SCHEMATIC



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