



AIRCRAFT  
MAINTENANCE MANUAL

FUEL LOW PRESSURE WARNING - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the check of the fuel low-pressure warning system.
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
28-45-00-700-801-A ♦	FUEL LOW-PRESSURE WARNING SYSTEM - OPERATIONAL CHECK	ALL



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 28-45-00-700-801-A

EFFECTIVITY: ALL

2. FUEL LOW-PRESSURE WARNING SYSTEM - OPERATIONAL CHECK

A. General

- (1) To do the check, it is necessary to operate the engines and the APU.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 49-10-00-910-802-A/200	APU - START
AMM TASK 49-10-00-910-803-A/200	APU - SHUTDOWN
AMM TASK 49-13-00-910-802-A/200	APU - START
AMM TASK 49-13-00-910-803-A/200	APU - SHUTDOWN
AMM TASK 71-00-01-910-801-A/200	ENGINE START PROCEDURE (NORMAL)
AMM TASK 71-00-01-910-804-A/200	ENGINE STOP PROCEDURE

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit

I. Preparation

*SUBTASK 841-002-A*

- (1) Energize the aircraft with an External DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Set the MFD to the fuel page.

**CAUTION:** DAMAGE TO THE FUEL PUMP WILL OCCUR IF IT OPERATES WITH NO FUEL (DRY OPERATION). THUS, CHECK THE FUEL LEVEL IN THE FUEL TANKS BEFORE YOU TURN ON THE FUEL PUMP.

- (3) Start the APU ( [AMM TASK 49-10-00-910-802-A/200](#) for APU T-62T-40C11 or [AMM TASK 49-13-00-910-802-A/200](#) for APU T-62T-40C14).
- (4) Start the engines ( [AMM TASK 71-00-01-910-801-A/200](#)) and keep the thrust levers in the IDLE position.
- (5) Make sure that the XFEED switch is in the OFF position.
- (6) Make sure that the PUMP PWR TANK 1 and TANK 2 switches are in the ON position.

**J. Operationally Check Low Pressure Warning System ([Figure 501](#))**

**SUBTASK 710-002-A**

- (1) Do the fuel pump automatism and fuel pump indication checks as follows:
    - (a) Set the fuel pump switches to 1A (2A).  
Result:  
1 The MFD shows A for TANK 1 (TANK 2).
    - (b) On the circuit breaker panel, open the FUEL PUMP 1A (2A) circuit breaker.  
Result:  
1 On the MFD, the indication of the related tank changes to B, C, and OFF intermittently.
- NOTE:** The messages E1 (E2) FUEL LO PRESS or /and APU FUEL LO PRESS can come into view on the EICAS.
- (c) On the circuit breaker panel, close the circuit breaker FUEL PUMP 1A (2A).  
Result:  
1 The A indication comes into view on the MFD again.
  - (d) Set the fuel pump switch to 1B (2B).  
Result:  
1 The MFD shows B for TANK 1 (TANK 2).
  - (e) On the circuit breaker panel, open the FUEL PUMP 1B (2B) circuit breaker.  
Result:  
1 On the MFD, the indication of the related tank changes to A, C, and OFF intermittently.
- NOTE:** The messages E1 (E2) FUEL LO PRESS or /and APU FUEL LO PRESS can come into view on the EICAS.
- (f) On the circuit breaker panel, close the FUEL PUMP 1B (2B) circuit breaker.  
Result:  
1 The B indication comes into view on the MFD again.
  - (g) Set the fuel pump switch to 1C (2C).  
Result:  
1 The MFD display shows C for TANK 1 (TANK 2).
  - (h) On the circuit breaker panel, open the FUEL PUMP 1C (2C) circuit breaker.  
Result:  
1 On the MFD, the indication of the related tank changes to A, B, and OFF intermittently.

**NOTE:** The messages E1 (E2) FUEL LO PRESS or /and APU FUEL LO PRESS can come into view on the EICAS.

- (i) On the circuit breaker panel, close the FUEL PUMP 1C (2C) circuit breaker.

Result:

- 1 The indication C comes into view on the MFD again.

- (j) On the fuel control panel, set the fuel pump switches to 1A and 2A.

Result:

- 1 The MFD display shows A for TANK 1 and TANK 2.

- (2) Do the EICAS message check as follows:

- (a) Set the PUMP PWR TANK 1 and TANK 2 switches to the OFF position.

Result:

- 1 The MFD shows OFF.

- 2 The messages E1 and E2 FUEL LO PRESS (caution) come into view on the EICAS.

- 3 The message APU FUEL LO PRESS (caution) comes into view on the EICAS.

**NOTE:** The messages come into view on the EICAS after approximately seven (7) seconds.

- 4 The aural caution alarm (bell) operates.

- 5 The master caution lights blink.

**NOTE:** Push one of the caution light switches to cancel the blinking of the lights.

- (b) Set the PUMP PWR TANK 1 and TANK 2 switches to the ON position.

Result:

- 1 The CAUTION E1, E2 FUEL LO PRESS and APU FUEL LO PRESS messages go out of view on the EICAS display.

- 2 The MFD display shows A for TANK 1 and TANK 2.

**K. Follow-on**

**SUBTASK 842-002-A**

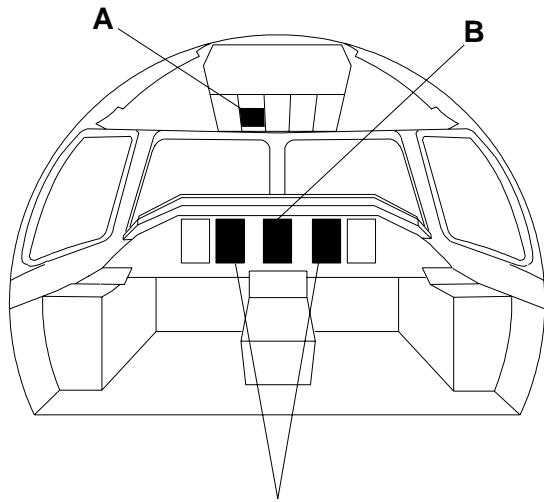
- (1) Stop the engines ( [AMM TASK 71-00-01-910-804-A/200](#)).

- (2) Stop the APU ( [AMM TASK 49-10-00-910-803-A/200](#) for APU T-62T-40C11 or [AMM TASK 49-13-00-910-803-A/200](#) for APU T-62T-40C14).

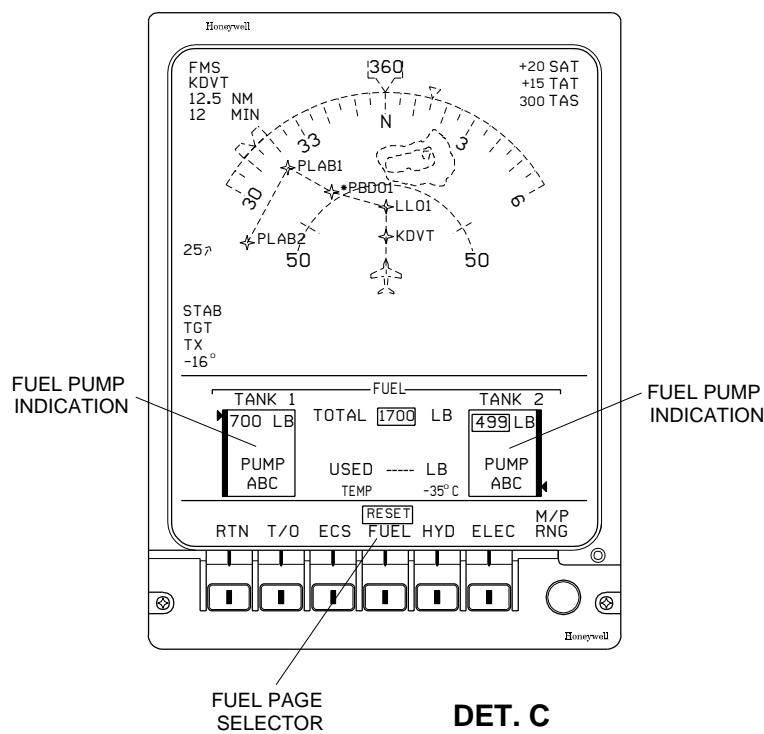
- (3) Deenergize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#)).

**EFFECTIVITY: ALL**

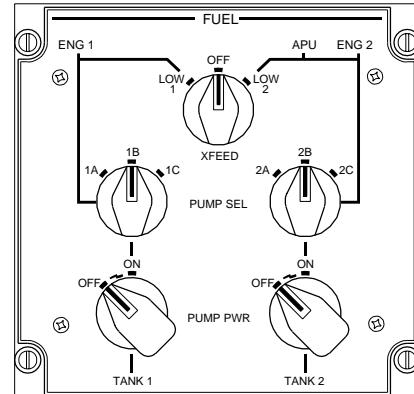
Fuel Low-Pressure Warning System - Component Locations  
Figure 501



MFD



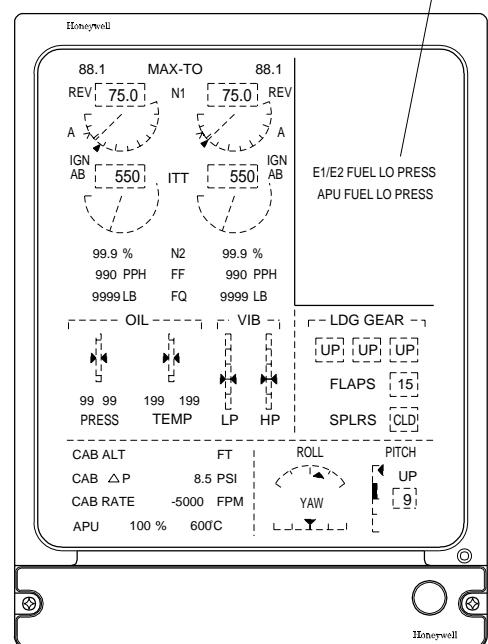
**FUEL PUMP PANEL**



**DET. A**

CAUTION  
MESSAGE

**EICAS DISPLAY**



**DET. B**

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