



## FAULT ISOLATION MANUAL

### MAINTENANCE PRACTICES

\*\*ON A/C ALL

#### **TASK 73-10-00-810-801**

#### **#1 FUEL FLTR BYPASS (Caution) – Fault Isolation**

##### 1. General

- A. The fault isolation procedure is for when the caution and warning panel (CAWP) #1 FUEL FLTR BYPASS caution light is on.
- B. The CAWP #1 FUEL FLTR BYPASS caution light comes on when the full authority digital electronic control 1 (FADEC1) senses a condition that follows:
  - Fuel filter fuel pressure is more than 19 psi
  - Fuel pressure crosscheck latched failed for more than 15 seconds.

NOTE: A fuel filter bypass switch fault code is set when a condition is as follows:

- NH is more than 64% and the fuel filter fuel pressure is more than 19 psi
- NH is 0% and the fuel filter fuel pressure is more than 19 psi for more than 15 seconds.

NOTE: The FADEC supplies discrete data through the engine cockpit interface unit (ECIU) to the CAWP for the #1 FUEL FLTR BYPASS caution indication.

- C. The engine display (ED) can show the related fault codes that follow:
  - 766, Fuel filter bypass discrete mismatch fault latched
  - 905, Fuel filter bypass switch fault
  - 906, Fuel filter maintenance request.

##### 2. Job Set-Up Information

Subtask 73-10-00-946-001

##### A. Reference Information

REFERENCE	DESIGNATION
AMM TASK 71-00-00-868-805	Operational Test after a Component Change
AMM TASK 73-11-03-610-801	Servicing after Fuel Strainer Bypass Indicator Extension
AMM TASK 73-11-31-610-801	Servicing after Fuel Filter Bypass Extension.
FIM TASK 73-20-00-810-836	Fuel Filter Impending Bypass Switch Comparison Between Channel A and B – Fault Isolation
FIM TASK 73-20-00-810-865	Replace the Fuel Filter – Fault Isolation
AMM TASK 73-21-00-070-801	FADEC Fault Code Clear
AMM TASK 77-31-00-710-803	Operational Check for Engine Fault Code Indications (MRB# Combined)

PSM 1-84-23  
EFFECTIVITY:  
See First Effectivity on Page 201 of 73-10-00



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### 3. Fault Confirmation

Subtask 73-10-00-810-001

- A. Do the powerplant fault indication retrieval (Refer to AMM TASK 77-31-00-710-803)
- B. Erase the data from the full authority digital electronic controller (FADEC) (Refer to AMM TASK 73-21-00-070-801)
- C. Make sure the differential pressure indicators for the fuel strainer and the fuel filter are not extended (Refer to AMM TASK 73-11-03-610-801 and AMM TASK 73-11-31-610-801).
- D. Do an engine operational test (Refer to AMM TASK 71-00-00-868-805).
  - (1) If the CAWP #1 FUEL FLTR BYPASS caution light does not come on, no maintenance action is necessary. Do the Close Out.
  - (2) If the CAWP #1 FUEL FLTR BYPASS caution light does come on, do the fault indication retrieval again (Refer to AMM TASK 77-31-00-710-803). Do the Fault Isolation.

### 4. Fault Isolation

Subtask 73-10-00-810-002

- A. Isolate the fault as follows:
  - (1) If the fault code is 766, do the fault isolation for fault code 766 (Refer to FIM TASK 73-20-00-810-836). Do the Close Out.
  - (2) If the fault code is 905, do the fault isolation for fault code 905 (Refer to FIM TASK 73-20-00-810-836). Do the Close Out.
- B. If the fault code is 906, replace the fuel filter (Refer to FIM TASK 73-20-00-810-865). Do the Close Out.

### 5. Close Out

Subtask 73-10-00-941-001

- A. Make sure that the CAWP #1 FUEL FLTR BYPASS caution light is not on.
- B. Remove all tools, equipment, and unwanted materials from the work area.