



FAULT ISOLATION MANUAL

MAINTENANCE PRACTICES

**ON A/C ALL

TASK 26-10-00-810-801

CHECK FIRE DET (Warning) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the caution and warning panel (CAWP) CHECK FIRE DET warning light is on.
- B. The CHECK FIRE DET warning light comes on for one or more of the conditions that follow:
 - The TEST DETECTION switch is set to the ENGINE 1 or ENGINE 2 position
 - The APU FIRE TEST pushbutton switch is pushed
 - The engine primary zone advanced pneumatic detector has sensed fire
 - The propeller electronic control advanced pneumatic detector has sensed fire
 - The MLG primary zone advanced pneumatic detector has sensed fire
 - The auxiliary power unit (APU) compartment advanced pneumatic detector has sensed fire
 - The engine primary zone advanced pneumatic detector has malfunctioned
 - The propeller electronic control advanced pneumatic detector has malfunctioned
 - The MLG primary zone advanced pneumatic detector has malfunctioned
 - The APU compartment advanced pneumatic detector has malfunctioned
 - The fire control amplifier has malfunctioned.
 - The caution and warning panel (CAWP) has malfunctioned.
 - The forward or aft nacelle fire extinguisher bottle pressure is less than 225 psig
 - The APU fire extinguisher bottle pressure is less than 225 psig
 - The forward baggage compartment high rate fire extinguisher bottle pressure is less than 110 psig
 - The aft baggage compartment high rate fire extinguisher bottle pressure is less than 225 psig
 - The low rate fire extinguisher bottle pressure is less than 110 psig.
- C. The fire protection panel (FPP) can show the related indications that follow:
 - ENGINE 1 PULL FUEL/HYD OFF
 - ENGINE 2 PULL FUEL/HYD OFF
 - APU FIRE
 - APU EXTG
 - ENGINE 1 FAULT A
 - ENGINE 1 FAULT B
 - ENGINE 2 FAULT A



FAULT ISOLATION MANUAL

- ENGINE 2 FAULT B
- APU FAULT
- ENGINE BTL LOW
- APU BTL LOW
- FIRE BOTTLE AFT LOW
- FIRE BOTTLE FWD LOW
- FIRE BOTTLE AFT LOW and FIRE BOTTLE FWD LOW on at the same time
- The left and right glareshield assembly panel can also show a related ENGINE FIRE PUSH TO RESET indication
- The fire warning bell can also sound.

2. Job Set-Up Information

Subtask 26-10-00-946-001

A. Reference Information

REFERENCE	DESIGNATION
AMM TASK 26-10-01-000-801	Removal of the Control Amplifier
AMM TASK 26-10-01-400-801	Installation of the Control Amplifier
AMM TASK 26-11-00-710-801	Operational Test of the Nacelle Fire Detection System
AMM TASK 26-13-00-710-801	Operational Test of the APU Fire Detection System
AMM TASK 26-22-00-720-801	Functional Test of the Baggage Fire Extinguishing System
AMM TASK 31-51-01-000-801	Removal of the Caution and Warning Panel
AMM TASK 31-51-01-400-801	Installation of the Caution and Warning Panel
FIM TASK 26-10-00-810-802	FAULT A, ENGINE 1 – Fault Isolation
FIM TASK 26-10-00-810-803	FAULT B, ENGINE 1 – Fault Isolation
FIM TASK 26-10-00-810-806	APU FAULT (Warning) – Fault Isolation
FIM TASK 26-10-00-810-807	LOW, AFT FIRE BOTTLE (Caution) – Fault Isolation
FIM TASK 26-10-00-810-811	BTL LOW, Engine (Caution) – Fault Isolation
FIM TASK 26-10-00-810-812	FAULT A, ENGINE 2 (Caution) – Fault Isolation
FIM TASK 26-10-00-810-813	FAULT B, ENGINE 2 (Caution) – Fault Isolation
FIM TASK 26-10-00-810-814	LOW, FWD FIRE BOTTLE (Caution) – Fault Isolation
FIM TASK 26-10-00-810-815	LOW, FWD and AFT FIRE BOTTLE (Caution) – Fault Isolation
FIM TASK 26-23-00-810-802	BTL LOW, APU (Caution) – Fault Isolation

PSM 1-84-23
EFFECTIVITY:
See First Effectivity on Page 201 of 26-10-00

26-10-00 Page 202
Nov 05/2021



FAULT ISOLATION MANUAL

REFERENCE	DESIGNATION
WM 31-41-00	Flight Data Processing System (FDPS)
WM 31-51-00	Caution and Warning Lights System
WM 31-51-01	Caution and Warning Lights System (with Dual Master Caution Switch)

3. Fault Confirmation

Subtask 26-10-00-810-001

A. Confirm the fault as follows:

- (1) Do an operational test of the nacelle fire detection system (Refer to AMM TASK 26-11-00-710-801).
 - (a) If the CHECK FIRE DET warning light does not come on, continue with the Fault Confirmation.
 - (b) If the CHECK FIRE DET warning light does come on, do the Fault Isolation.
- (2) Do the operational test of the APU fire detection system (Refer to AMM TASK 26-13-00-710-801).
 - (a) If the CHECK FIRE DET warning light does not come on, continue with the Fault Confirmation.
 - (b) If the CHECK FIRE DET warning light does come on, do the Fault Isolation.
- (3) Do the functional test of the baggage fire detection system (Refer to AMM TASK 26-22-00-720-801).
 - (a) If the CHECK FIRE DET warning light does not come on, no fault isolation procedure is necessary. Do the Close Out.
 - (b) If the CHECK FIRE DET warning light does come on, do the Fault Isolation.

4. Fault Isolation

Subtask 26-10-00-810-028

A. Isolate the fault as follows:

- (1) If the CHECK FIRE DET and the FAULT A, ENGINE 1 indication comes on, do the fault isolation for FAULT A, ENGINE 1 (Refer to FIM TASK 26-10-00-810-802). Do the Close Out.
- (2) If the CHECK FIRE DET and the FAULT B, ENGINE 1 indication comes on, do the fault isolation for FAULT B, ENGINE 1 (Refer to FIM TASK 26-10-00-810-803). Do the Close Out.
- (3) If the CHECK FIRE DET and the FAULT A, ENGINE 2 indication comes on, do the fault isolation for FAULT A, ENGINE 2 (Refer to FIM TASK 26-10-00-810-812). Do the Close Out.



FAULT ISOLATION MANUAL

- (4) If the CHECK FIRE DET and the FAULT B, ENGINE 2 indication comes on, do the fault isolation for FAULT B, ENGINE 2 (Refer to FIM TASK 26-10-00-810-813). Do the Close Out.
- (5) If the CHECK FIRE DET and the (ENGINE 1 ENGINE 2) BTL LOW indication comes on, do the fault isolation for (ENGINE 1 ENGINE 2) BTL LOW (Refer to FIM TASK 26-10-00-810-811). Do the Close Out.
- (6) If the CHECK FIRE DET and the APU FAULT indication also comes on, do the fault isolation for APU FAULT (Refer to FIM TASK 26-10-00-810-806). Do the Close Out.
- (7) If the CHECK FIRE DET and the APU BTL LOW indication comes on, do the fault isolation for APU BTL LOW (Refer to FIM TASK 26-23-00-810-802). Do the Close Out.
- (8) If the CHECK FIRE DET and the LOW, AFT FIRE BOTTLE indication comes on, do the fault isolation for LOW, AFT FIRE BOTTLE (Refer to FIM TASK 26-10-00-810-807). Do the Close Out.
- (9) If the CHECK FIRE DET and the LOW, FWD FIRE BOTTLE indication comes on, do the fault isolation for LOW, FWD FIRE BOTTLE (Refer to FIM TASK 26-10-00-810-814). Do the Close Out.
- (10) If the CHECK FIRE DET and the LOW, FWD and AFT FIRE BOTTLE indication comes on, do the fault isolation for LOW, FWD and AFT FIRE BOTTLE (Refer to FIM TASK 26-10-00-810-815). Do the Close Out.
- (11) If the CHECK FIRE DET and no other indication comes on do the procedure that follows:
 - (a) Replace the control amplifier (Refer to AMM TASK 26-10-01-000-801 and AMM TASK 26-10-01-400-801).
 - (b) If the fault still continues, replace the caution and warning panel (CAWP) (Refer to AMM TASK 31-51-01-000-801 and AMM TASK 31-51-01-400-801).
 - (c) If the fault still continues, do a test of the wiring between the fire control amplifier and the CAWP (Refer to WM 31-51-00 or WM 31-51-01 and WM 31-41-00):

3312-P4 (CAWP)	3140-P10-A1 (IOM1)
28	314

- (c)
 - (d) If the fault still continues, do a test of the wiring between the fire control amplifier and the CAWP (Refer to WM 31-51-00 or WM 31-51-01 and WM 31-41-00):

3312-P4 (CAWP)	3140-P10-A2 (IOM2)
28	314



DE HAVILLAND AIRCRAFT
OF CANADA LIMITED

FAULT ISOLATION MANUAL

5. Close Out

Subtask 26-10-00-941-001

- A. Make sure that the CAWP CHECK FIRE DET warning light is not on.
- B. Remove all tools, equipment, and unwanted materials from the work area.

PSM 1-84-23
EFFECTIVITY:
See First Effectivity on Page 201 of 26-10-00

26-10-00 Page 205
Nov 05/2021