



FAULT ISOLATION MANUAL

**ON A/C ALL

TASK 26-10-00-810-804

SMOKE (Warning) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the caution and warning panel (CAWP) SMOKE warning light is on.
- B. The CAWP SMOKE warning light comes on when a condition is as follows:
 - BAGGAGE AFT TEST toggle switch is set to the 1 or 2 position
 - BAGGAGE FWD TEST pushbutton switch is pushed
 - BAGGAGE AFT smoke detector No. 1 (FWD) has sensed smoke
 - BAGGAGE AFT smoke detector No. 2 (AFT) has sensed smoke
 - BAGGAGE FWD smoke detector has sensed smoke.

NOTE: The possible causes for the nuisance baggage compartment smoke indication are as follows:

- Leaking aerosol can
- Exhaust from a vehicle
- Dusty environment
- Dirty labyrinth in smoke detector.

NOTE: It is possible that bright sunlight that falls directly on the smoke detector can cause an unwanted effect on the operational test.

NOTE: Unwanted contamination in the smoke detector can cause nuisance alarms. Thus, it is important to keep the smoke detector clean.

- C. The fire protection panel (FPP) can show the related indications that follow:
 - BAGGAGE FWD SMOKE
 - BAGGAGE AFT SMOKE
 - BAGGAGE AFT VENT INLET CLOSED
 - BAGGAGE AFT VENT OTLT CLOSED
 - FIRE BOTTLE AFT ARM
 - FIRE BOTTLE FWD ARM.

2. Job Set-Up Information

Subtask 26-10-00-946-018

- A. Reference Information



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REFERENCE	DESIGNATION
FIM TASK 26-10-00-810-816	SMOKE, BAGGAGE AFT (Warning) – Fault Isolation
FIM TASK 26-10-00-810-817	SMOKE, BAGGAGE FWD (Warning) – Fault Isolation
AMM TASK 26-10-01-000-801	Removal of the Control Amplifier
AMM TASK 26-10-01-400-801	Installation of the Control Amplifier
WM 26-12-00-1	Smoke Detection System
AMM TASK 26-12-06-710-801	Operational Test of the Baggage Smoke Detectors
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

3. Fault Confirmation

Subtask 26-10-00-810-041

A. Confirm the fault as follows:

- (1) Do an operational test of the baggage smoke detectors (Refer to AMM TASK 26-12-06-710-801).
 - (a) If the SMOKE warning light does not come on, then no fault isolation procedure is necessary. Do the Close Out.
 - (b) If the SMOKE warning light does come on, do the Fault Isolation.

4. Fault Isolation

**ON A/C 4001, 4003-4004, 4006, 4008-4140, 4142-4199, 4201-4454, 4456-4457, 4459-4478, 4481-4503, 4507-4518, 4520-4527, 4529, 4531-4544, 4546-4549, 4551-4560, 4562-4563, 4565, 4568, 4571-4573, 4576, 4579, 4622, 4625, 4627

Subtask 26-10-00-810-042

A. Isolate the fault as follows:

- (1) If the SMOKE warning light comes on and the fire protection panel BAGGAGE FWD SMOKE fault indication also comes on, do the fault isolation for BAGGAGE FWD SMOKE (Refer to FIM TASK 26-10-00-810-817). Do the Close Out.
- (2) If the SMOKE warning light comes on and the fire protection panel BAGGAGE AFT SMOKE fault indication also comes on, do the fault isolation for BAGGAGE AFT SMOKE (Refer to FIM TASK 26-10-00-810-816). Do the Close Out.
- (3) If the SMOKE warning light comes on with no other indications, remove and replace the control amplifier (Refer to AMM TASK 26-10-01-000-801 and AMM TASK 26-10-01-400-801).



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- (4) If the fault still continues, remove and replace the CAWP (Refer to AMM TASK 31-51-01-000-801 and AMM TASK 31-51-01-400-801).
- (5) If the fault still continues, do a check of the wiring between the control amplifier and the CAWP (Refer to WM 26-12-00-1):

2600-P2 (Control Amplifier)	3312-P2 (CAWP)
43	18

**ON A/C 4455, 4458, 4479-4480, 4504-4506, 4519, 4528, 4530, 4545, 4550, 4561, 4564, 4566-4567, 4569-4570, 4574-4575, 4577-4578, 4580-4621, 4623-4624, 4626, 4628-4999

Subtask 26-10-00-810-061

B. Isolate the fault as follows:

- (1) If the SMOKE warning light comes on and the fire protection panel BAGGAGE AFT SMOKE fault indication also comes on, do the fault isolation for BAGGAGE AFT SMOKE (Refer to FIM TASK 26-10-00-810-816). Do the Close Out.
- (2) If the SMOKE warning light comes on with no other indications, remove and replace the control amplifier (Refer to AMM TASK 26-10-01-000-801 and AMM TASK 26-10-01-400-801).
- (3) If the fault still continues, remove and replace the CAWP (Refer to AMM TASK 31-51-01-000-801 and AMM TASK 31-51-01-400-801).
- (4) If the fault still continues, do a check of the wiring between the control amplifier and the CAWP (Refer to WM 26-12-00-1):

2600-P2 (Control Amplifier)	3312-P2 (CAWP)
43	18

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5. Task Supporting Data

Subtask 26-10-00-990-003

A. The following task supporting data is included as supplemental information to this task:

- (1) Refer to De Havilland Aircraft of Canada Limited (De Havilland Canada) Service Letter #DH8-400-SL-26-001 Introduction of Kidde Aerospace Service Information Letter (SIL) #03-03 which introduces cleaning intervals for the baggage compartment smoke detectors.



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6. Close Out

Subtask 26-10-00-941-017

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