



AIRCRAFT MAINTENANCE MANUAL

FIRE DETECTION SYSTEM - ADJUSTMENT/TEST

EFFECTIVITY: ACFT MODEL(S) EMB-135

1. General

- A. This section gives the procedures to do the check of the fire detection 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
26-10-00-700-802-A	FIRE DETECTION SYSTEM - OPERATIONAL CHECK	ACFT MODEL(S) EMB-135



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TASK 26-10-00-700-802-A

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2. FIRE DETECTION SYSTEM - OPERATIONAL CHECK

A. General

- (1) These procedures permit you to do the operational check of the fire detection system at the engines, APU, pylons, and smoke detection system at the baggage compartment.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
220	-	Cockpit
270	-	Baggage compartment

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 check	Cockpit
1	To make sure that the baggage compartment fan is off	Baggage compartment

I. Preparation

SUBTASK 841-008-A

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

J. Fire Detection System - Operational Check ([Figure 501](#)) ([Figure 502](#))

SUBTASK 710-008-A

- (1) Do the check as follows:

NOTE: • If the BAGG EXTG switch comes on with the energization of the aircraft, push the FIRE TEST switch for two seconds at least, and then release it to cause the switch light to go off.

- When the FIRE TEST switch is pushed for more than 10 seconds while the APU is in operation, the APU stops.

(a) Push the FIRE TEST switch and hold it for at least two seconds.

1 The EICAS display shows these messages and indications:

- ENG 1-2 FIRE (Warning).
- APU FIRE (Warning).
- BAGG SMOKE (Warning).
- E1/E2 FIREDET FAIL (Caution).
- APU FIREDET FAIL (Caution).

2 The fire handles come on.

3 The BAGG EXTG switch comes on.

4 The Warning/Caution lights flash.

5 The aural warning operates (Bell).

6 The baggage compartment fan is off.

NOTE: When the baggage-compartment fan is off, the check valve stays closed, as shown in figure 501.

(b) Release the FIRE TEST switch.

1 The messages below go out of view on the EICAS display:

- ENG 1-2 FIRE.
- APU FIRE.
- BAGG SMOKE.
- E1/E2 FIREDET FAIL.
- APU FIREDET FAIL.

2 The lights of the fire handles go off.

3 The BAGG EXTG switch light goes off.

4 The baggage compartment fan starts to operate again.

NOTE: When the baggage-compartment fan is on, the check valve stays open and permits you to see the movement of the fan blades, as shown in figure 501.



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- (2) Push one of the master warning lights to stop the lights.

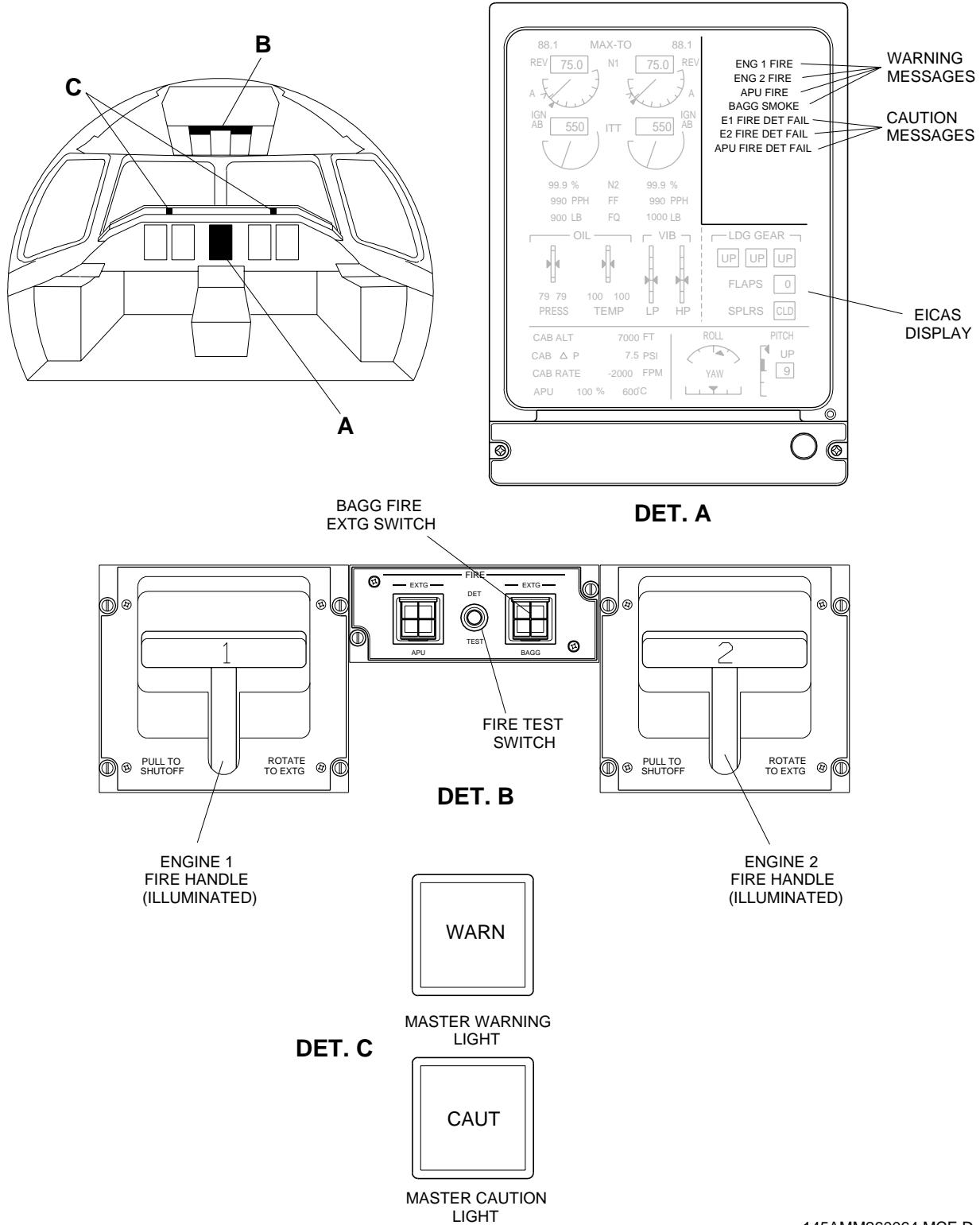
NOTE: If it is necessary to do the test again, wait 6 seconds for the system to reset.

K. Follow-on

SUBTASK 842-008-A

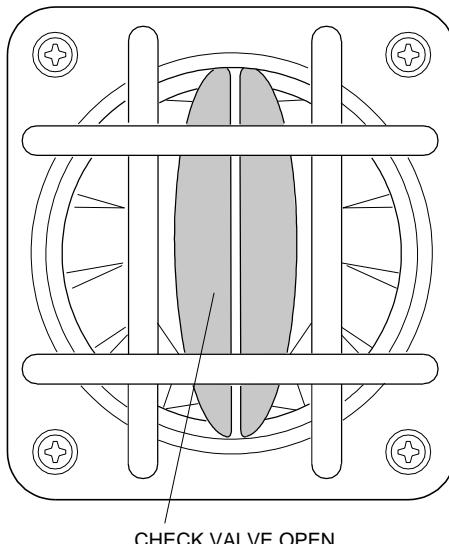
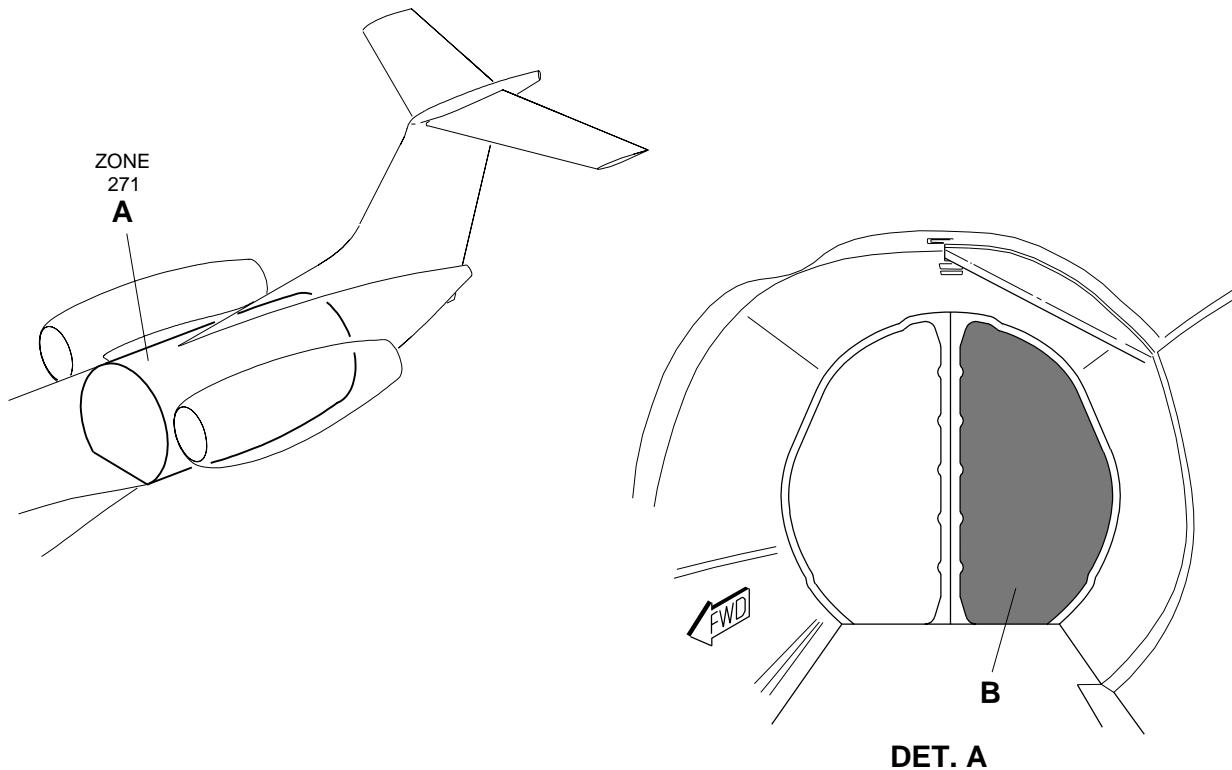
- (1) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

EFFECTIVITY: ACFT MODEL(S) EMB-135
Fire Detection System - Component Locations
Figure 501 - Sheet 1



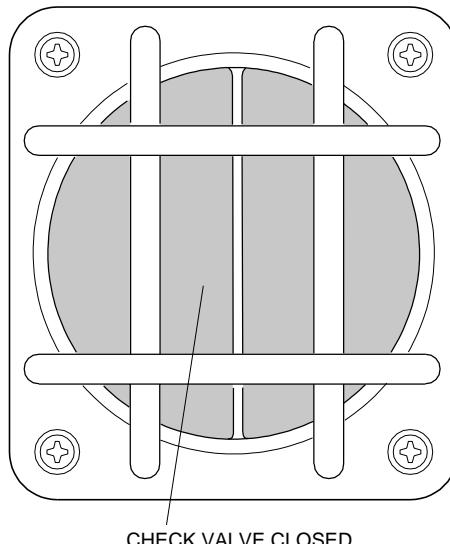
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EFFECTIVITY: ACFT MODEL(S) EMB-135
Fire Detection System - Component Locations
Figure 501 - Sheet 2



CHECK VALVE OPEN

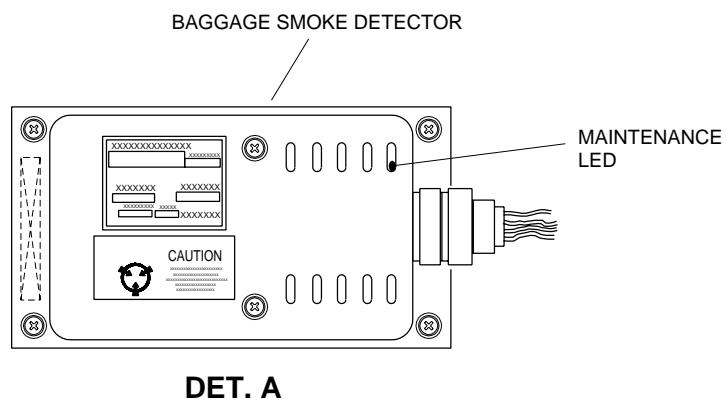
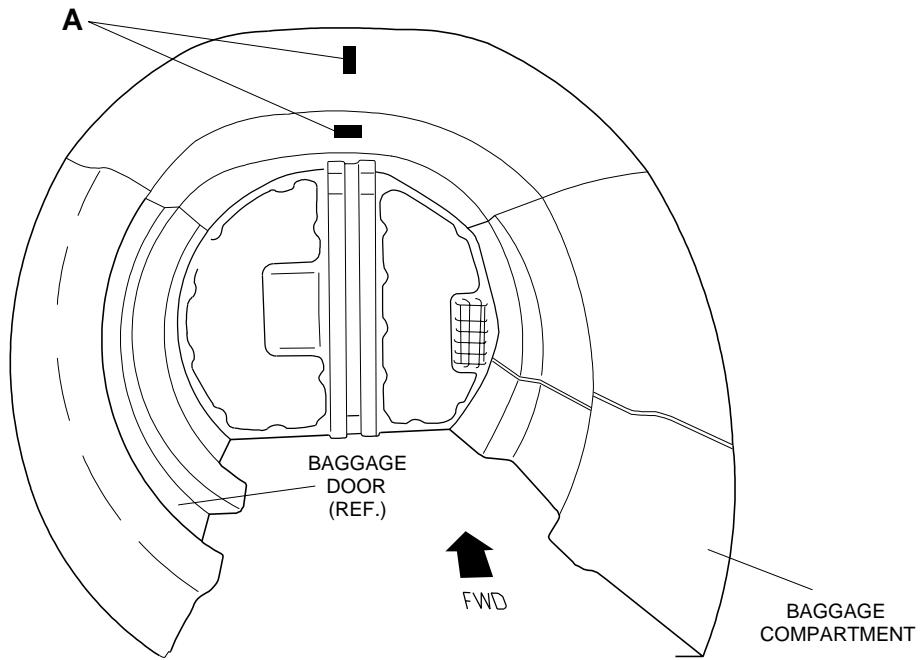
DET. B



CHECK VALVE CLOSED

DET. B

EFFECTIVITY: BAGGAGE COMPARTMENT WITH WALTER KIDDE AEROSPACE SMOKE DETECTORS
 Fire Detection System - Component Locations
 Figure 502



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