

## LAVATORY SMOKE DETECTION SYSTEM - ADJUSTMENT/TEST

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

### 1. General

- A. This section gives the procedures to do the operational check of the lavatory smoke-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
26-14-00-700-801-A ◆	LAVATORY SMOKE-DETECTION SYSTEM - OPERATIONAL CHECK	ACFT MODEL(S) EMB-145
26-14-00-700-803-A ◆	LAVATORY SMOKE-DETECTION SYSTEM - OPERATIONAL TEST	POST-MOD SB 145-26-0014

TASK 26-14-00-700-801-A

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

**2. LAVATORY SMOKE-DETECTION SYSTEM - OPERATIONAL CHECK**

**A. General**

(1) To do the procedure, obey the instructions in the paragraphs below.

**B. References**

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

**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	Galley
1	Does the task	Cockpit

**I. Preparation**

*SUBTASK 841-008-B*

(1) Make sure that the aircraft is safe for maintenance.

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

**J. Operationally Check Lavatory Smoke-Detection System ([Figure 501](#))**

*SUBTASK 710-010-B*

*EFFECTIVITY: PRE-MOD SB 145-26-0014*

(1) Make sure that the LAV SMOKE warning message is out of view on the EICAS display.

(2) Make sure that the green light stays ON on the lavatory smoke-detector panel.

(3) Do the operational check as follows:

(a) Open the guard and push the TEST pushbutton for 5 seconds minimum.

Result:

- 1 The LAV SMOKE warning message comes into view on the EICAS display.
- 2 The aural warning will operate.
- 3 The master warning light will come ON.
- 4 The horns on the lavatory smoke-detector panel and on the last passenger cabin ceiling panel. Push the horn reset switch, on the lavatory smoke-detector panel, to cancel the horns.
- 5 The red light, on the lavatory smoke-detector panel, comes on and flashes.
- 6 The green light, on the lavatory smoke-detector panel, goes out of view.

- (b) Push the master warning lights.

Result:

- 1 The warning lights go out.
- 2 The aural warning stops.

- (c) Release the TEST pushbutton.

Result:

- 1 The LAV SMOKE warning message goes out of view on the EICAS display.
- 2 If in operation the horns on the lavatory smoke-detector panel and on the last passenger-cabin ceiling panel will stop.
- 3 The red light, on the lavatory smoke-detector panel, goes out of view.
- 4 The green light, on the lavatory smoke-detector panel, comes on.

K. Operationally Check Lavatory Smoke-Detection System ([Figure 502](#))

*SUBTASK 710-011-B*

*EFFECTIVITY: POST-MOD SB 145-26-0014*

- (1) Make sure that the LAV SMOKE warning message is out of view on the EICAS display.
- (2) Do the operational check as follows:

- (a) Push the TEST button for 5 seconds minimum.

Result:

- 1 The red light, on the lavatory smoke-detector panel, turns on and flashes.
- 2 The horn, on the lavatory smoke-detector panel, sounds.
- 3 The LAV SMOKE warning message comes into view on the EICAS display.

- (b) Push the HORN OFF button.

Result:

- 1 The red light, on the lavatory smoke-detector panel, continues flickering.
- 2 The horn, on the lavatory smoke-detector panel, stops, if it was in operation.
- 3 The LAV SMOKE warning message remains into view on the EICAS display.

- (c) Push the RESET button, on the lavatory smoke-detector panel.

Result:

- 1 The flickering red light, on the lavatory smoke-detector panel, turns off.

2 The LAV SMOKE warning message goes out of view on the EICAS display.

L. Follow-on

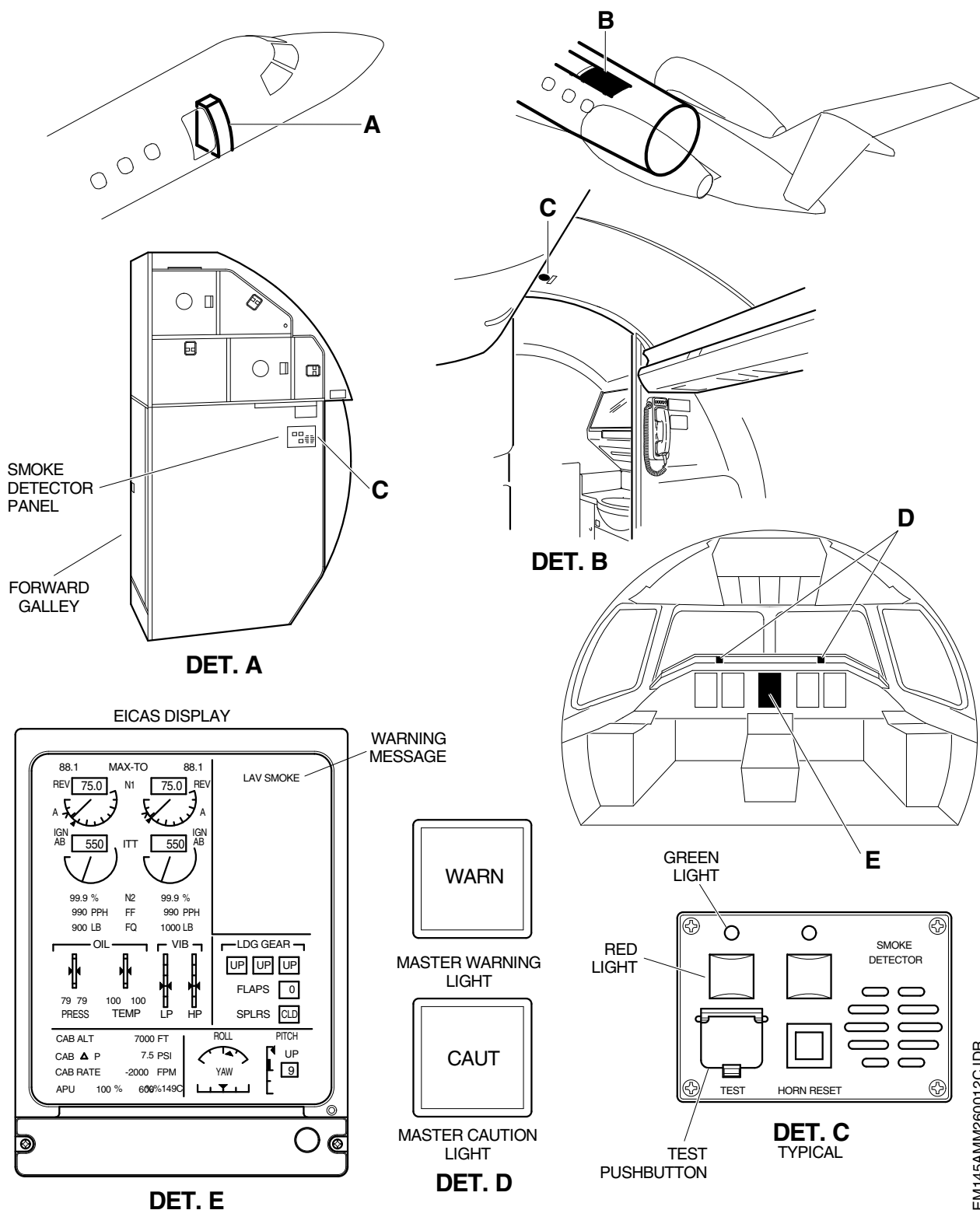
*SUBTASK 842-008-B*

- (1) Remove the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)) from the aircraft.

EFFECTIVITY: PRE-MOD SB 145-26-0014

Lavatory Smoke-Detector System - Component Locations

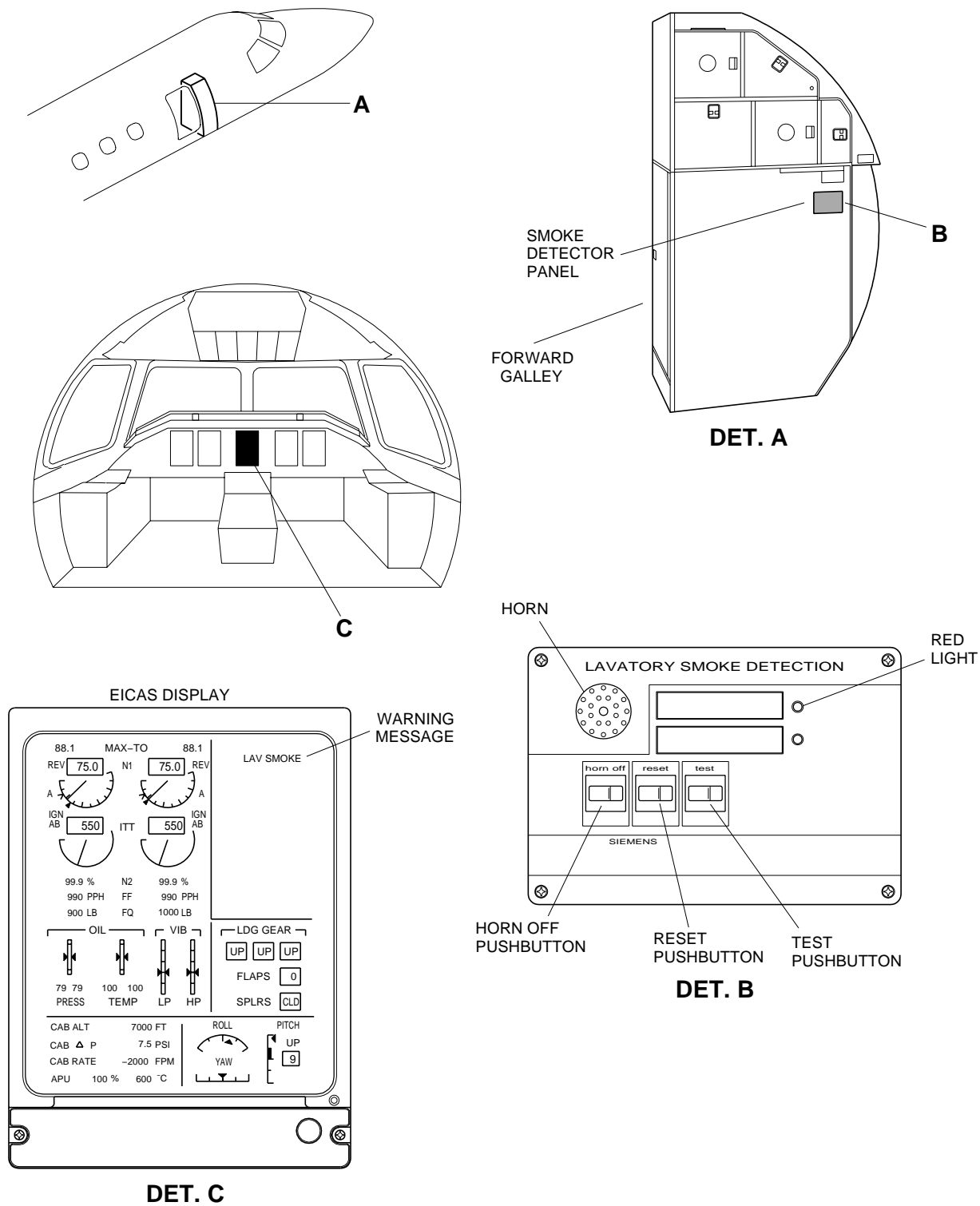
Figure 501



EFFECTIVITY: POST-MOD SB 145-26-0014

Lavatory Smoke-Detector System - Component Locations

Figure 502



EM145AMM260274A.DGN

TASK 26-14-00-700-803-A

EFFECTIVITY: POST-MOD SB 145-26-0014

### 3. LAVATORY SMOKE-DETECTION SYSTEM - OPERATIONAL TEST

#### A. General

(1) To do the procedure, obey the instructions in the paragraphs below.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

#### C. Zones and Accesses

Not Applicable

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Smoke Detector Tester Model SOLO A4 - SDI (spray can)	AR
Commercially available	Smoke Detector Tester Ref 8-S Test Gas - Siemens Schweiz AG, Building Technologies Group (spray can)	AR

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Lavatory
1	Does the task	Cockpit

#### I. Preparation

**SUBTASK 841-009-B**

(1) Make sure that the aircraft is safe for maintenance.

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

#### J. Operationally Test Lavatory Smoke-Detection System (Figure 502)

**SUBTASK 710-012-B**

(1) Make sure that the LAV SMOKE warning message is out of view on the EICAS display.

**WARNING:** DO NOT LET THE EXHAUST GASES TOUCH YOUR EYES AND SKIN AND DO NOT BREATHE THEM. IF YOU DO NOT OBEY THESE PRECAUTIONS, RESPIRATORY IRRITATION CAN OCCUR.

**WARNING:** OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE CHEMICAL PRODUCTS. THESE PRODUCTS ARE TOXIC AND CAN CAUSE INJURIES TO YOU.

**WARNING:** PUT ON GLOVES WHEN YOU USE THE SMOKE-DETECTOR TESTER. A CONTINUOUS CONTACT CAN CAUSE SKIN IRRITATION AND CAN CAUSE INJURIES TO YOU.

**WARNING:** PUT ON EAR PROTECTORS WHEN YOU DO THIS TEST. THE SMOKE DETECTOR SOUND IS DANGEROUS TO YOUR HEALTH. IF YOU DO NOT OBEY THIS PRECAUTION, INJURY TO YOU CAN OCCUR.

(2) Do the operational test as follows:

- (a) Hold the smoke-detector-tester can at a minimum of 8 inches away from the smoke detector and apply the smoke-detector-tester spray to the smoke detector.

Result:

- 1 The red light, on the lavatory smoke-detector panel, turns on and flashes.
- 2 The horn, on the lavatory smoke-detector panel, sounds.
- 3 The LAV SMOKE warning message comes into view on the EICAS display.

- (b) After the lavatory smoke detector is clear of smoke:

Result:

- 1 The red light, on the lavatory smoke-detector panel, continues flickering.
- 2 The horn, on the lavatory smoke-detector panel, stops, if it was in operation.
- 3 The LAV SMOKE warning message remains into view on the EICAS display.

- (c) Push the RESET button, on the lavatory smoke-detector panel.

Result:

- 1 The flickering red light, on the lavatory smoke-detector panel, turns off.
- 2 The LAV SMOKE warning message goes out of view on the EICAS display.

K. Follow-on

*SUBTASK 842-009-B*

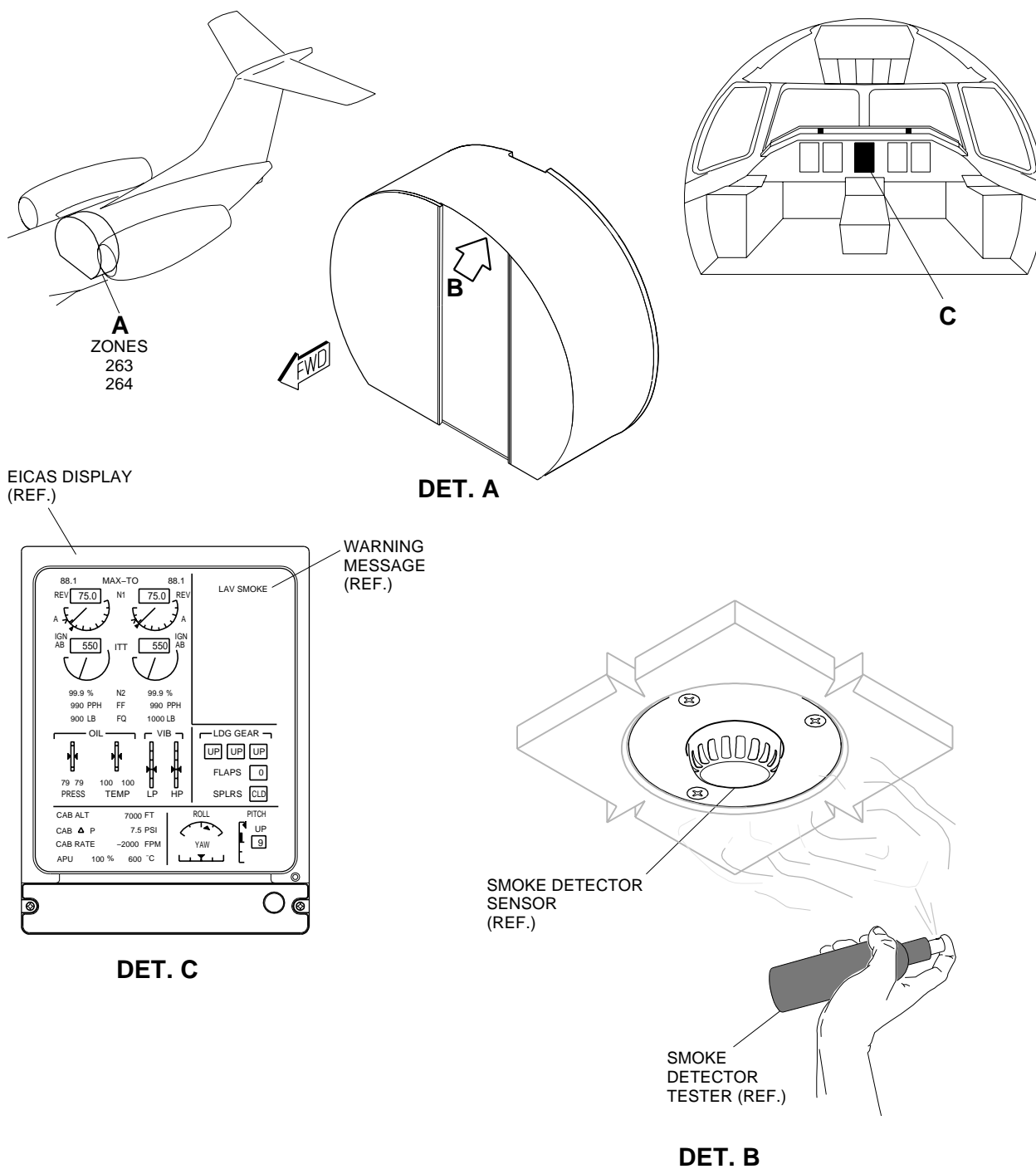
- (1) Remove the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)) from the aircraft.



EFFECTIVITY: POST-MOD SB 145-26-0014

Lavatory Smoke-Detector System - Component Locations

Figure 503



EM145AMM260303A.DGN

