

## TEMPERATURE CONTROL - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to do the operational check of the temperature control system of the cockpit and passenger cabin independently.
- 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
21-60-00-700-801-A ◆	TEMPERATURE CONTROL SYSTEM - OPERATIONAL CHECK	ALL

TASK 21-60-00-700-801-A

EFFECTIVITY: ALL

## 2. TEMPERATURE CONTROL SYSTEM - OPERATIONAL CHECK

### A. General

- (1) This task gives the procedures to do the operational test of the Temperature Control System.
- (2) The Temperature Control System adjusts the environment in the aircraft. There are two temperature controlled zones: the cockpit and the passenger cabin.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM SDS 34-22-00/1	
AMM TASK 36-00-00-860-801-A/200	PNEUMATIC ENERGY - AIR BLEED THROUGH ONE OF THE ENGINES
AMM TASK 36-00-00-860-802-A/200	PNEUMATIC ENERGY - AIR BLEED THROUGH THE APU
AMM TASK 53-01-02-000-802-A/400	-
AMM TASK 53-01-02-400-802-A/400	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
241	241DF	Passenger cabin floor
251	251BF	Passenger cabin floor

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Thermogun	To make the temperature sensor hot	

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic ice bag	To make the temperature sensor cold	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	A - Does the task	Cockpit
1	B - Helps technician A	Cockpit and passenger cabin

I. Preparation

**SUBTASK 841-002-A**

- (1) Remove floor access panel 251BF or 241DF, as applicable (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-000-802-A/400).
- (2) Supply pneumatic energy ( [AMM TASK 36-00-00-860-801-A/200](#)) or ( [AMM TASK 36-00-00-860-802-A/200](#)).
- (3) Set the ECS page on MFD1 (2) ([AMM SDS 34-22-00/1](#)).
- (4) Set these switches as follows:
  - (a) RECIRC switch - OFF.
  - (b) GASPER switch - OFF.

J. Operationally Check Temperature Control ([Figure 501](#)) ([Figure 502](#)) ([Figure 503](#))

**SUBTASK 710-002-A**

- (1) The steps below refer to the operational check of the cockpit temperature control.
- (2) Set the PACK 1 switch to ON.
- (3) Set the CKPT temperature selector to MAN.
  - (a) Turn the CKPT temperature selector knob clockwise up to 1 - 3 o'clock position, and keep it in this position for 2 minutes.  
NOTE: Do not turn the selector knob further 3 o'clock position or fully clockwise to prevent incorrect behavior/results on the operational test.  
 Result:  
 1 The air flow through the general outlets becomes hot.
  - (b) Turn the CKPT temperature selector knob fully counterclockwise and keep it in this position for 2 minutes.  
 Result:  
 1 The air flow through the general outlets becomes cold.
- (4) Set the CKPT temperature selector to AUTO.
  - (a) With an ice bag, decrease the temperature of the cockpit temperature sensor down to less than 18°C (64.4°F) (See on the ECS page, on the MFD).
  - (b) Turn the CKPT temperature selector knob fully clockwise and keep it in this position for 2 minutes.  
 Result:  
 1 The air flow through the general outlets becomes hot.

- (c) With a thermogun, increase the temperature of the cockpit temperature sensor to more than 30°C (86°F) (See on the ECS page, on the MFD).
- (d) Turn the CKPT temperature selector knob fully counterclockwise and keep it in this position for 2 minutes.

Result:

- 1 The air flow through the general outlets becomes cold.

- (5) Set the PACK 1 switch to OFF.
- (6) Set the CKPT temperature selector to the intermediate position.
- (7) The steps below refer to the operational check of the passenger-cabin temperature control.

NOTE: In the passenger cabin, the cold air flows through the outlets in the upper position and the hot air flows through the outlets in the lower position.

- (8) Set the PACK 2 switch to ON.
- (9) Set the PASS CABIN temperature selector to MAN.
  - (a) Turn the PASS CABIN temperature selector knob clockwise up to 1 - 3 o'clock position, and keep it in this position for 2 minutes.

NOTE: Do not turn the selector knob further 3 o'clock position or fully clockwise to prevent incorrect behavior/results on the operational test.

Result:

- 1 The air flow through the lower outlets becomes hot.

- (b) Turn the PASS CABIN temperature selector knob fully counterclockwise and keep it in this position for 2 minutes.

Result:

- 1 The air flow through the upper outlets becomes cold.

- (10) Set the PASS CABIN temperature selector to AUTO.
  - (a) With an ice bag, decrease the temperature of the passenger-cabin temperature sensor down to less than 18°C (64.4°F) (See on the ECS page, on the MFD).
  - (b) Turn the PASS CABIN temperature selector knob fully clockwise and keep it in this position for 2 minutes.

Result:

- 1 The air flow through the lower outlets becomes hot.

- (c) With a thermogun, increase the temperature of the passenger-cabin temperature sensor to more than 30°C (86°F) (See on the ECS page, on the MFD).
- (d) Turn the PASS CABIN temperature selector knob fully counterclockwise and keep it in this position for 2 minutes.

Result:

- 1 The air flow through the upper outlets becomes cold.

- (11) Set the PASS CABIN temperature selector to the ATTD position.

- (12) With the passenger-cabin temperature control on the flight attendant panel (CABIN TEMP CONTROL light (2) ON):
- (a) With an ice bag, decrease the temperature of the passenger-cabin temperature sensor down to less than 18°C (64.4°F) (See on the ECS page, on the MFD).
  - (b) Move the CABIN TEMP CONTROL knob (1) fully to the HOT position and keep it in this position for 2 minutes.  
Result:  
1 The air flow through the lower outlets becomes hot.
  - (c) With a thermogun, increase the temperature of the passenger-cabin temperature sensor to more than 30°C (86°F) (See on the ECS page, on the MFD).
  - (d) Move the CABIN TEMP CONTROL knob (1) fully to the COLD position and keep it in this position for 2 minutes.  
Result:  
1 The air flow through the upper outlets becomes cold.
- (13) Set the PACK 2 switch to OFF.
- (14) Set the PASS CABIN temperature selector to the intermediate position.

K. Follow-on

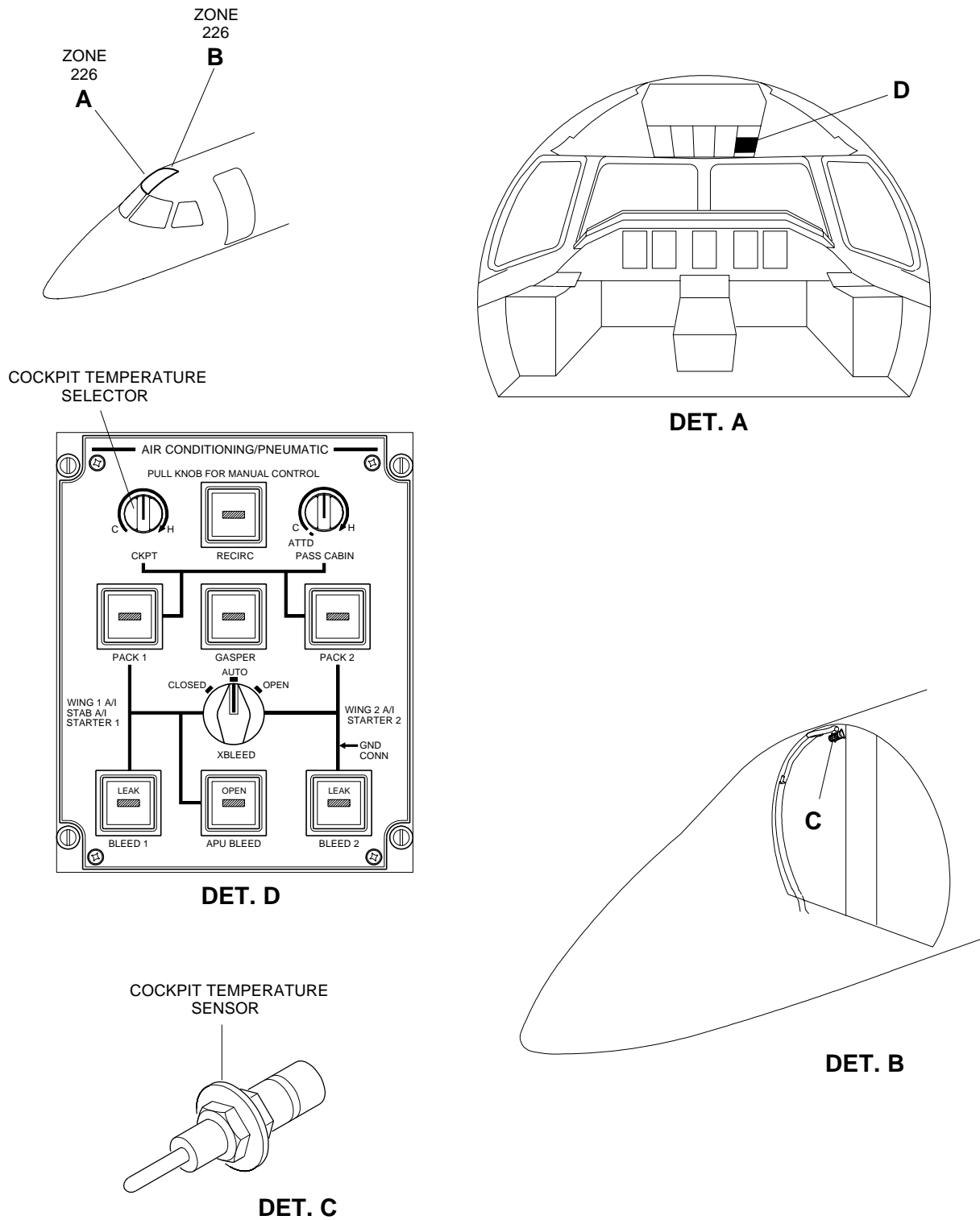
*SUBTASK 842-002-A*

- (1) Shut off the pneumatic energy ( [AMM TASK 36-00-00-860-801-A/200](#)) or ( [AMM TASK 36-00-00-860-802-A/200](#)).
- (2) Install floor access panel 251BF or 241DF, as applicable (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-400-802-A/400).

EFFECTIVITY: ALL

Cockpit Temperature Control - Location

Figure 501

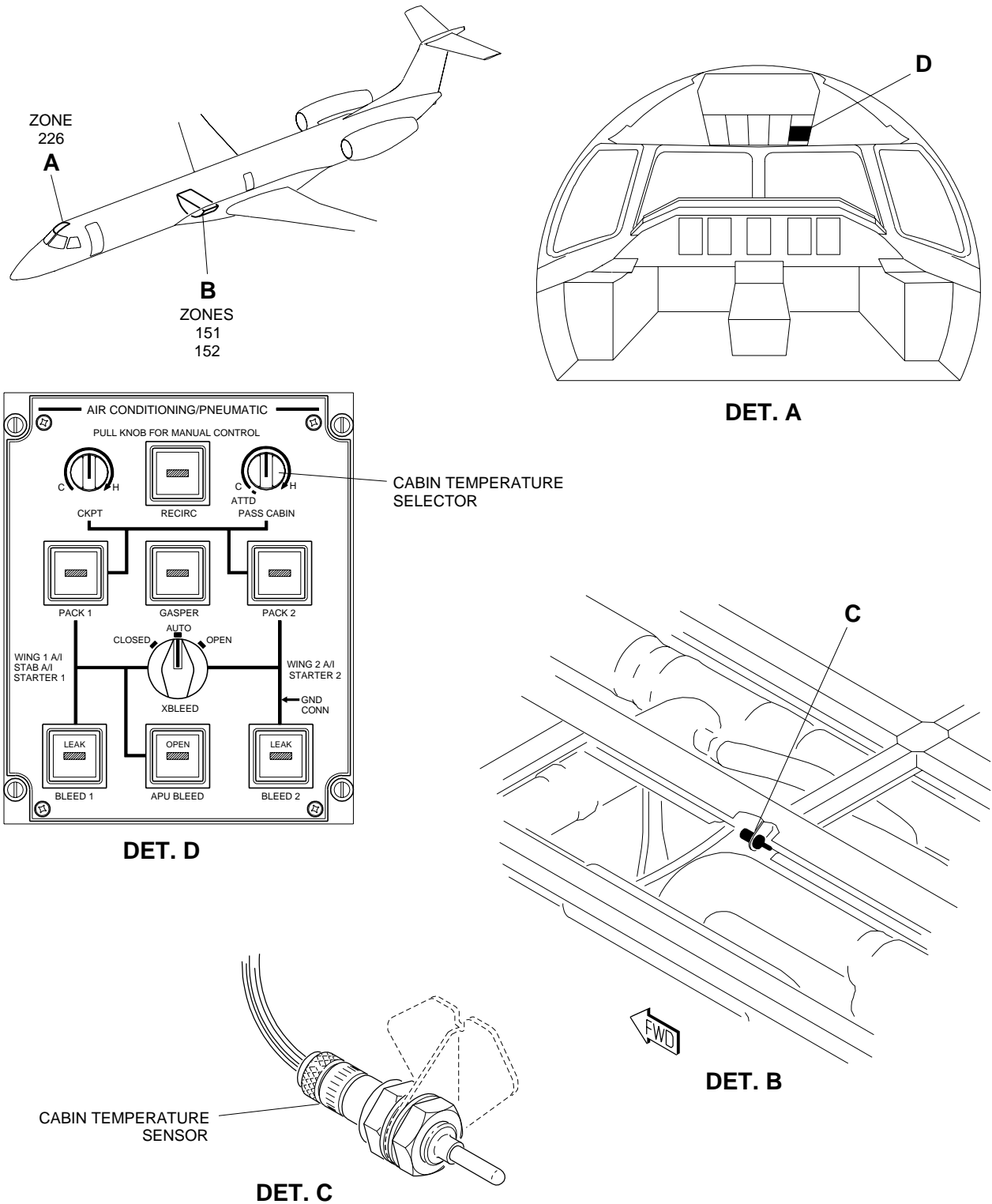


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EFFECTIVITY: ALL

Passenger-Cabin Temperature Control - Location

Figure 502

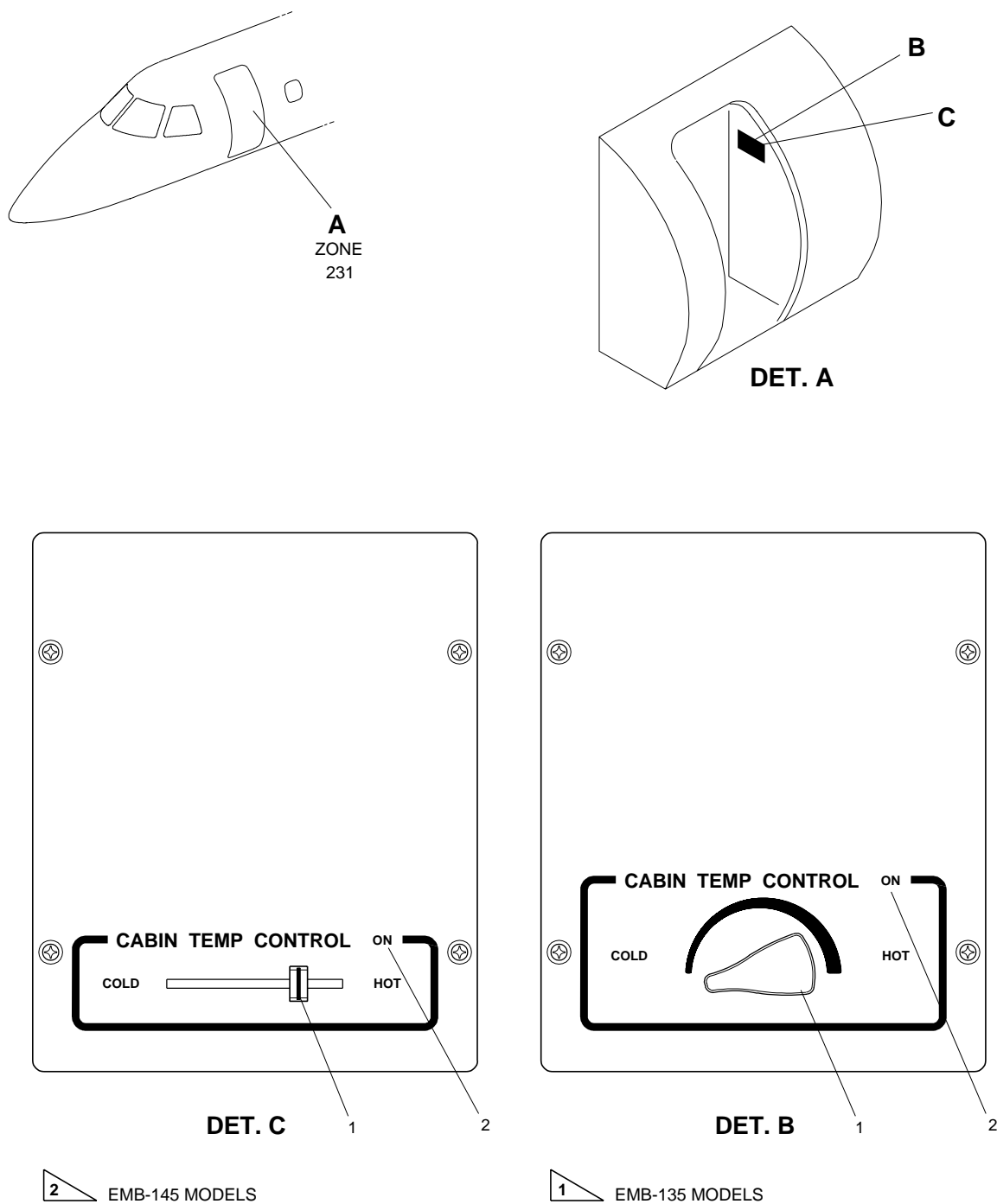


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EFFECTIVITY: ALL

Passenger-Cabin Temperature Control - Flight Attendant Panel - Location

Figure 503



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