



AIRCRAFT MAINTENANCE MANUAL

OVENS - ADJUSTMENT/TEST

EFFECTIVITY: AIRCRAFT WITH OVEN

1. General

- A. This section gives the procedures to adjust/test the ovens and the procedures to manually reset the temperature overheat thermostat.
- 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
25-31-03-700-801-A	OVEN - TEST	AIRCRAFT WITH OVEN
25-31-03-700-802-A	OVERHEAT THERMOSTAT RESET	AIRCRAFT WITH OVEN

TASK 25-31-03-700-801-A
EFFECTIVITY: AIRCRAFT WITH OVEN
2. OVEN - TEST
A. General

- (1) This task gives the procedures to test the ovens to make sure that they operate correctly.

B. References

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

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Thermometer 233°C (450°F)	To measure the temperature	

E. Auxiliary Items

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Heat-resistant gloves	To prevent damage	1 pairs
Commercially available	ceramic coffee cup	To put in the oven to do the test	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Outboard galley

I. Preparation (Figure 501)
SUBTASK 841-002-A

- (1) Energize the aircraft with the external DC power supply (AMM TASK 20-40-01-860-801-A/200).
- (2) Make sure that the timer (1) of the oven controllers is set to zero and the temperature control (2) is in its the least possible value.

- (3) Turn the timer on, set the temperature control, and make sure that the POWER ON lamp (red) (3) and HEATER ON lamp (amber) (4) come on.

- (4) Make sure that the grills (7) are into the ovens.

J. Ovens - Functional Test (Figure 501)

SUBTASK 720-002-A

CAUTION: DO THE TEST OF ONLY ONE OVEN AT A TIME TO PREVENT A SYSTEM OVERLOAD.

- (1) On the first oven controller panel, set the timer (1) to 15 minutes and the temperature control (2) to 0°C (0°F).
- (2) Open the oven door, push the shaft extender (5), and make sure that the blower wheel (6) rotates anticlockwise.
- (3) Install the temperature sensor into the middle of the oven and close the door.
- (4) On the first oven controller panel, set the temperature control (2) to 177°C (350°F). The POWER ON lamp (3) and HEATER ON lamp (4) come on.
- (5) After the HEATER ON lamp (4) comes off, see the oven cavity temperature: it must be $177^{\circ}\text{C} \pm 6^{\circ}\text{C}$ ($350^{\circ}\text{F} \pm 10^{\circ}\text{F}$).

CAUTION: INTERIOR OVEN SURFACE ARE NOW DANGEROUSLY HOT.

- (6) See the temperature in the oven, after the HEATER ON lamp (4) comes on: it must be $166^{\circ}\text{C} \pm 6^{\circ}\text{C}$ ($330^{\circ}\text{F} \pm 10^{\circ}\text{F}$).
- (7) Do steps 5 and 6 again three times minimum until the timer (1) count decreases to zero. Make sure that the timer bell rings and the POWER ON lamp (3) goes off.

CAUTION: INTERIOR OVEN SURFACES ARE NOW DANGEROUSLY HOT. BE PLEASE USE APPROPRIATE PRECAUTION FOR REMOVE THE TEMPERATURE SENSOR.

- (8) Do all the steps again for the other ovens and oven controllers.

K. Follow-on

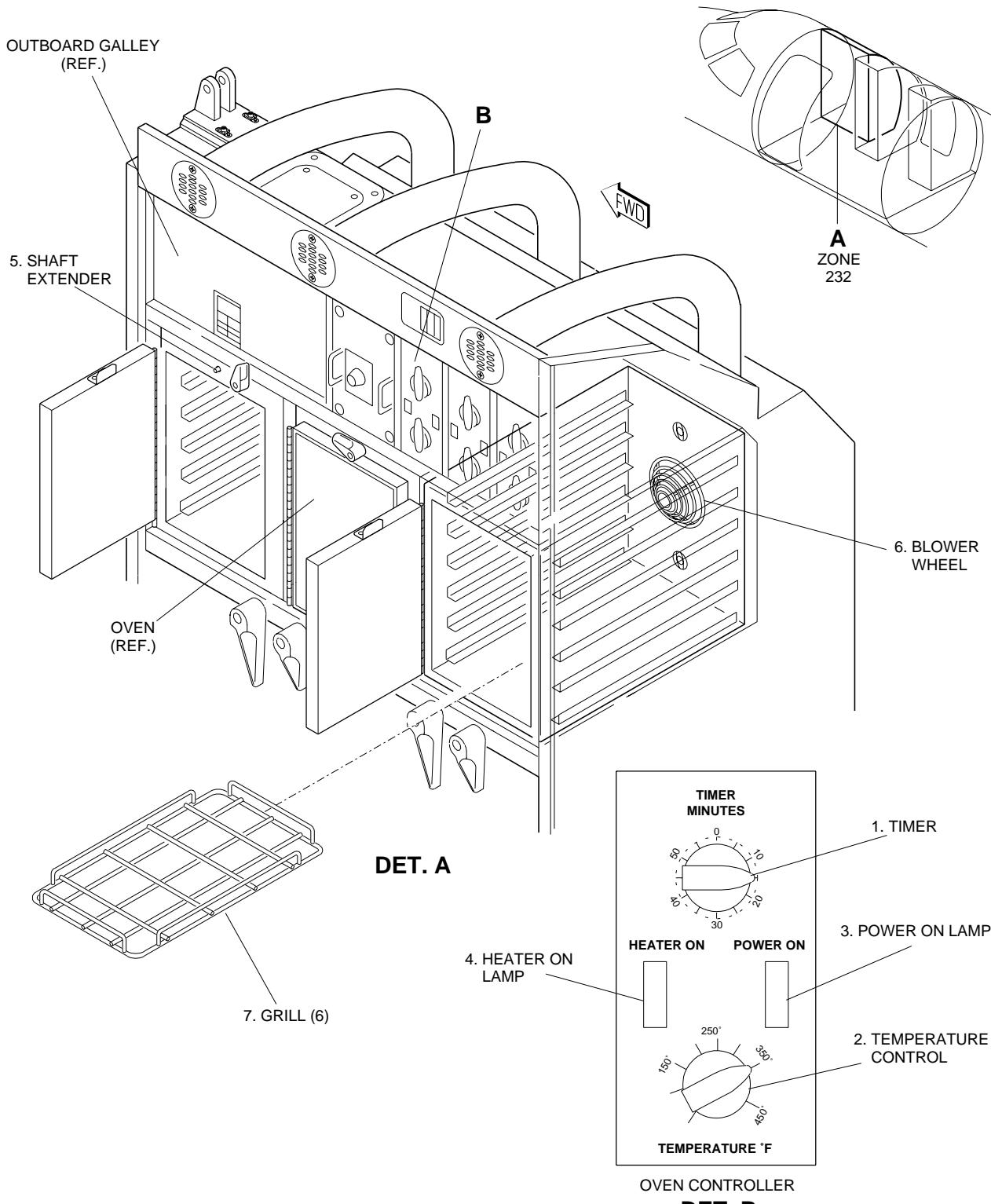
SUBTASK 842-002-A

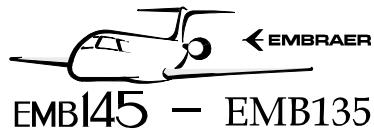
- (1) Remove the power supply from the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

EFFECTIVITY: AIRCRAFT WITH OVEN

Ovens - Functional Test

Figure 501





EMB145 – EMB135

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TASK 25-31-03-700-802-A

EFFECTIVITY: AIRCRAFT WITH OVEN

3. OVERHEAT THERMOSTAT RESET

A. General

- (1) This task gives the procedures to manually reset the overheat thermostat.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Outboard galley

H. Preparation ([Figure 502](#))

SUBTASK 841-003-A

- (1) Release the ovens (1) from the outboard galley as follows:

- (a) Remove the screws (2) for each oven (1).
(b) Pull the oven (1) carefully.

NOTE: Do not disconnect the oven (1) from the electrical connector (3).

I. Overheat Thermostat Reset Procedure ([Figure 502](#))

SUBTASK 710-002-A

- (1) Remove the overheat thermostat cover (4).

NOTE: After the black plug is removed, the overheat thermostat (5) is accessible for reset purposes.

CAUTION: THE OVERHEAT THERMOSTAT IS AN INTEGRAL PART OF THE SAFETY FEATURES OF THIS OVEN. THE THERMOSTAT CAN BE RESET AS NECESSARY, IF THE OPERATOR IS CONFIDENT THAT THE OVERHEAT CONDITION IS NOT AN INDICATION OF AN OVEN FAULT.

- (2) Push the overheat thermostat reset button (5).



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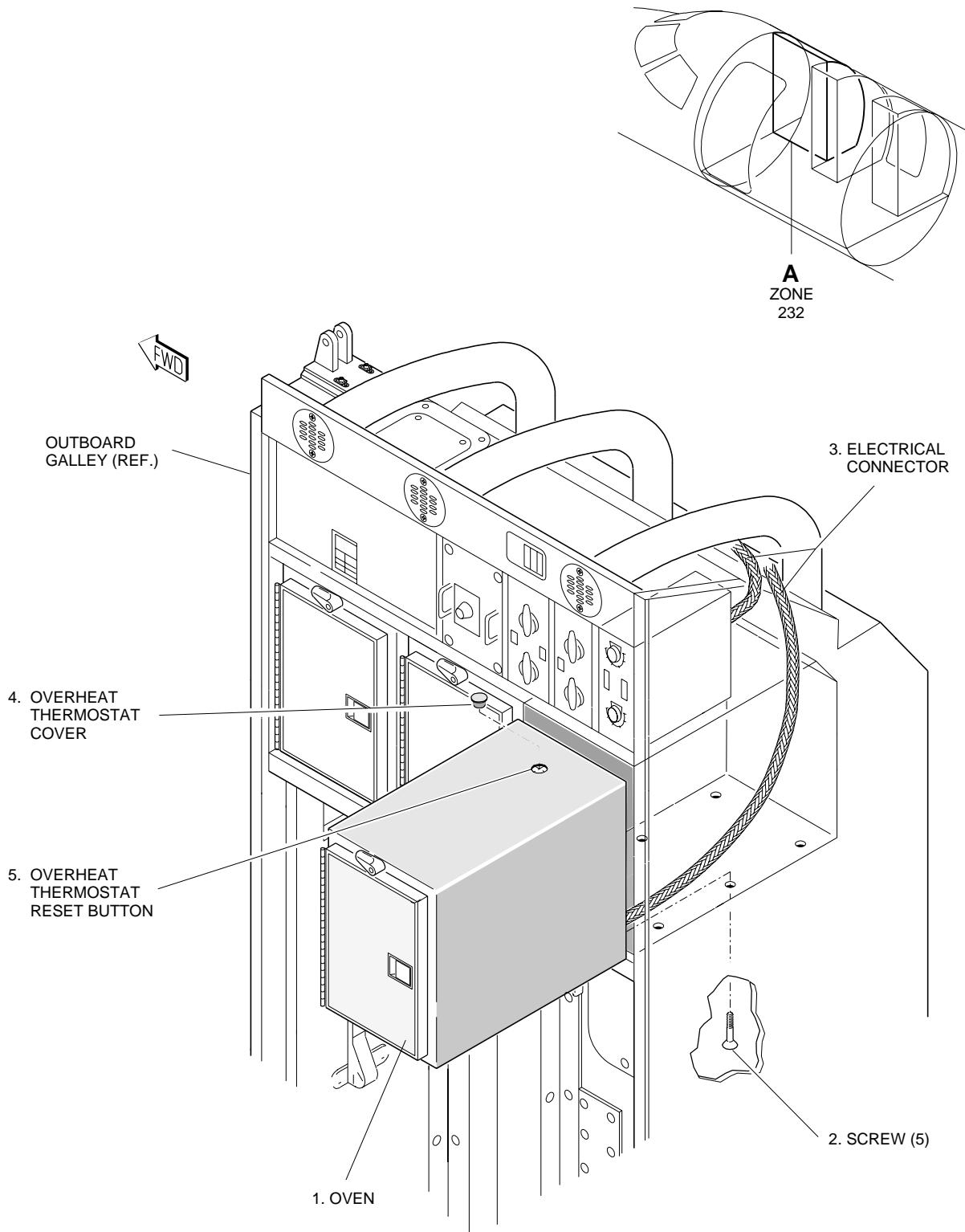
AIRCRAFT
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NOTE: Use the tip of a pen or some such device to push the button on the thermostat to manually reset it and put the oven back into operation.

J. Follow-on ([Figure 502](#))

SUBTASK 842-003-A

- (1) Attach the ovens (1) to the outboard galley.
- (2) Install the screws (2) for each oven (1).

EFFECTIVITY: AIRCRAFT WITH OVEN
Overheat Thermostat Reset
Figure 502


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