



AIRCRAFT MAINTENANCE MANUAL

MAIN BATTERY SYSTEM - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the operational test of the main battery 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
24-36-00-700-801-A	MAIN BATTERY SYSTEM - OPERATION- AL TEST	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 24-36-00-700-801-A

EFFECTIVITY: ALL

2. MAIN BATTERY SYSTEM - OPERATIONAL TEST

A. General

- (1) The function of this test is to make sure that the main battery system operates correctly.
- (2) The operational test is done only with the main-battery system DC.

B. References

REFERENCE	DESIGNATION
AMM SDS 24-36-00/1	
AMM SDS 31-41-00/1	

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	Cockpit

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is deenergized.

NOTE: 1. The main battery must be in good conditions for use.

2. Make sure that the electrical system is in its minimum load configuration.

- (2) On the overhead panel, set the AVIONICS MASTER pushbutton 1 to ON and pushbutton 2 to OFF position or vice versa.

J. Test Procedure ([Figure 501](#))

SUBTASK 710-002-A

- (1) Do the check as follows:

WARNING: DO NOT TOUCH THE PROBES IMMEDIATELY AFTER AIRPLANE POWER UP. DURING FADEC INITIALIZATION ITS SENSORS ARE HEATED FOR 20 SECONDS AND IF YOU TOUCH THEM, THEY CAN CAUSE INJURIES.

- (a) Set the BATT 1 and BATT 2 switches, on the overhead panel, to AUTO.
Result:
1 The EICAS display, MFD 1 (or 2), and PFD 1 (or 2) come on.
- (b) Set the MFD 1 (or 2) to the ELEC page ([AMM SDS 31-41-00/1](#)).
Result:
1 The ELEC page shows the battery 1 and 2 temperature and voltage boxed in green ([AMM SDS 24-36-00/1](#)).
- NOTE:** The minimum voltage is 23.5 V DC.
The ELEC page shows the temperature in these ranges:
Normal value - 40 to 70 degrees Celsius: green.
Abnormal value - Higher than 70 degrees Celsius: red.
- (c) Set the BATT 1 switch to OFF.
Result:
1 The EICAS display shows the BATT 1 OFF BUS caution message.
2 The CAUTION lights flash.
- (d) Push a CAUTION light.
Result:
1 The CAUTION lights go off.
- (e) Set the BATT 1 switch to AUTO.
Result:
1 On the EICAS display, the BATT 1 OFF BUS caution message goes out of view.
- (f) Set the BATT 2 switch to OFF.
Result:
1 The EICAS display shows the BATT 2 OFF BUS caution message.
2 The CAUTION lights flash.
- (g) Push a CAUTION light.
Result:
1 The CAUTION lights go off.
- (h) Set the BATT 2 switch to AUTO.
Result:
1 On the EICAS display, the BATT 2 OFF BUS caution message goes out of view.
- (i) Set the BATT 1 and BATT 2 switches to OFF.



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K. Follow-on

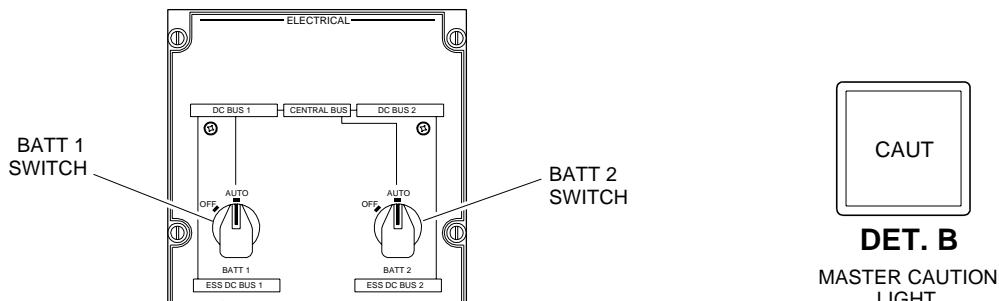
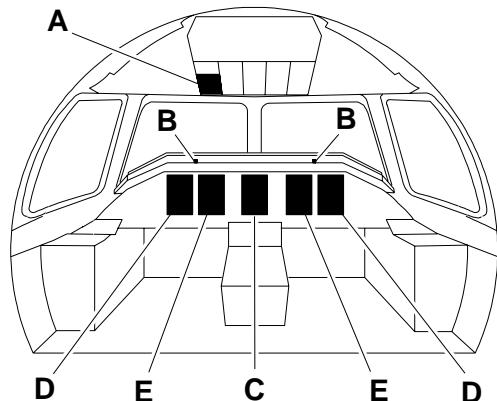
SUBTASK 842-002-A

- (1) On the overhead panel, set the AVIONICS MASTER pushbuttons (1 and 2) to OFF position.

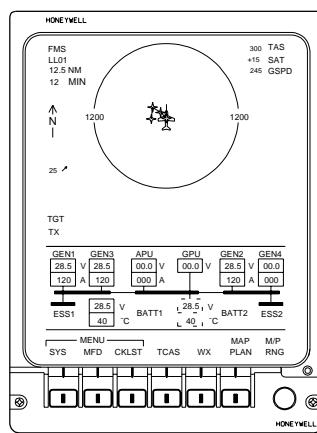
EFFECTIVITY: ALL

Main Battery System Operational Test

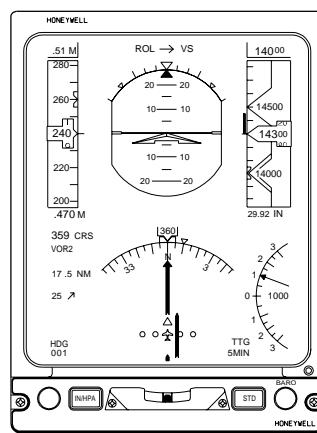
Figure 501



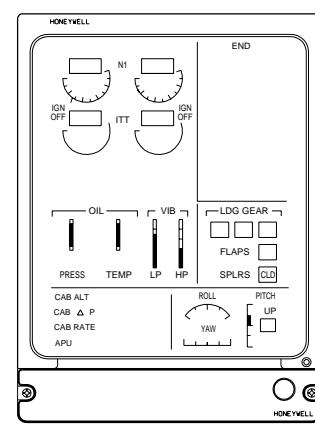
DET. A
ELECTRICAL PANEL



DET. E
MFD



DET. D
PFD



DET. C
EICAS DISPLAY

EM145AMM240017D.DGN

