

## 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

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.

K. Follow-on

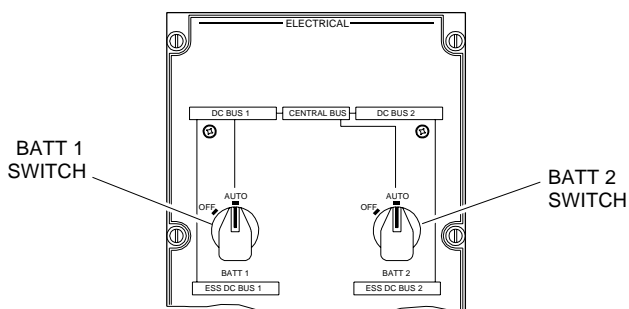
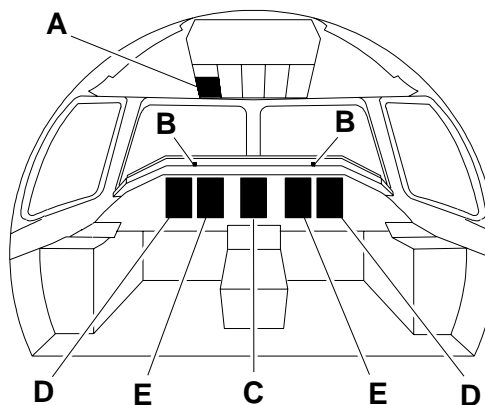
*SUBTASK 842-002-A*

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

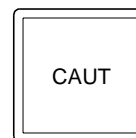
EFFECTIVITY: ALL

Main Battery System Operational Test

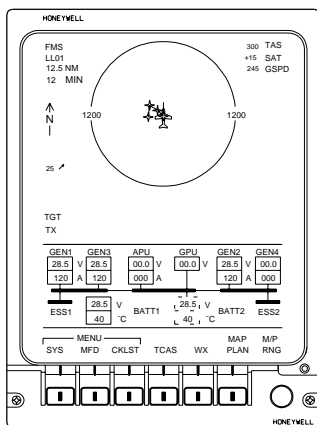
Figure 501



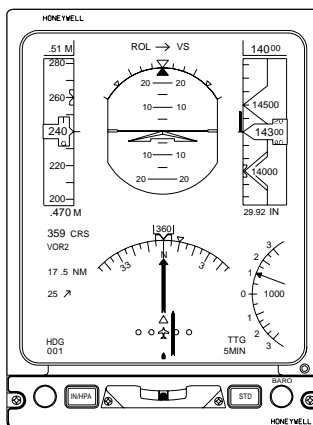
**DET. A**  
ELECTRICAL PANEL



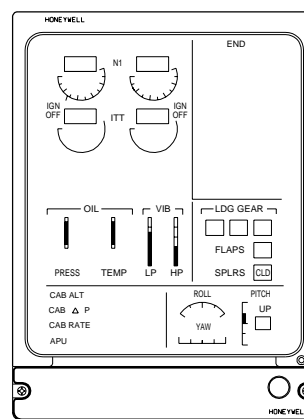
**DET. B**  
MASTER CAUTION  
LIGHT



**DET. E**  
MFD



**DET. D**  
PFD



**DET. C**  
EICAS DISPLAY

EM145AMM240017D.DGN

