

## ELECTRONIC FLIGHT INSTRUMENT SYSTEM - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to do the test of the Integrated Display 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
34-22-00-700-801-A ◆	ELECTRONIC FLIGHT INSTRUMENT SYSTEM - OPERATIONAL CHECK	ALL

TASK 34-22-00-700-801-A

EFFECTIVITY: ALL

## 2. ELECTRONIC FLIGHT INSTRUMENT SYSTEM - OPERATIONAL CHECK

### A. General

- (1) This task gives the procedure to do the Operational Check of the Electronic Flight Instrument System (EFIS).

### B. References

REFERENCE	DESIGNATION
AMM SDS 23-12-00/1	
AMM SDS 23-51-00/1	
AMM SDS 23-81-00/1	
AMM SDS 31-41-00/1	
AMM SDS 31-42-00/1	
AMM SDS 32-30-00/1	
AMM SDS 34-15-00/1	
AMM SDS 34-21-00/1	
AMM SDS 34-22-00/1	
AMM SDS 34-27-00/1	
AMM SDS 34-31-00/1	
AMM SDS 34-32-00/1	
AMM SDS 34-43-00/1	
AMM SDS 34-51-00/1	
AMM SDS 34-52-00/1	
AMM SDS 34-53-00/1	
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Cockpit

### 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) Energize the aircraft with the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Make sure that the Systems below are operational and on:
  - Air Data System ([AMM SDS 34-15-00/1](#)).
  - VHF System ([AMM SDS 23-12-00/1](#)).
  - Airborne Audio System ([AMM SDS 23-51-00/1](#)).
  - Radio Management System ([AMM SDS 23-81-00/1](#)).
  - EICAS ([AMM SDS 31-41-00/1](#)).
  - Integrated Computer System ([AMM SDS 31-42-00/1](#)).
  - EFIS ([AMM SDS 34-22-00/1](#)).
  - Radio Altimeter System ([AMM SDS 34-31-00/1](#)).
  - VOR/ILS System ([AMM SDS 34-32-00/1](#)).
  - TCAS ([AMM SDS 34-43-00/1](#)).
  - DME System ([AMM SDS 34-51-00/1](#)).
  - Mode-S Transponder ([AMM SDS 34-52-00/1](#)).
  - ADF System ([AMM SDS 34-53-00/1](#)).
  - AHRS ([AMM SDS 34-21-00/1](#)) or IRS ([AMM SDS 34-27-00/1](#)).
- (3) Put the aircraft in the ground configuration ([AMM SDS 32-30-00/1](#)).

J. Operationally Check Electronic Flight Instrument System Reversion Function ([Figure 501](#)) ([Figure 502](#)) ([Figure 503](#)) ([Figure 504](#)) ([Figure 505](#)) ([Figure 506](#))

*SUBTASK 710-002-A*

- (1) Do the test of the Display System as follows:
  - (a) Push and hold the RA test button on DC-550 1.  
Result:
    - 1 The test indications of PFD 1 (first level), MFD 1, and EICAS come into view.

- 2 After a short time, PFD 1 shows the Honeywell test page (second level), with the messages of IC-600 IBIT and their status.

**NOTE:** You must keep the RA test button on DC-550 pushed until the status message changes from FAIL to PASS (around 25 seconds). If the message status stays as FAIL, you must repair the failure.

- (b) Release the RA test button on DC-550 1.
- (c) Push and hold the RA test button on DC-550 2.

Result:

- 1 The test indications of PFD 2 (first level) and MFD 2 come into view.
- 2 After a short time, PFD 2 shows the Honeywell test page (second level), with the messages of IC-600 IBIT and their status.

**NOTE:** You must keep the RA test button on DC-550 pushed until the status message changes from FAIL to PASS (around 25 seconds). If the message status stays as FAIL, you must repair the failure.

- (d) Release the RA test button on DC-550 2.

- (2) Do a check of the EFIS display reversion function as follows:

- (a) Turn the MFD rotate switch, on the left reversionary panel, to the PFD position.

Result:

- 1 MFD 1 is configured to operate, as a PFD 1.

- (b) Turn the MFD rotate switch, on the left reversionary panel, to the NORM position.

Result:

- 1 PFD 1 goes back to the normal indication.
- 2 MFD 1 goes back to the normal indication.

- (c) Turn the MFD rotate switch, on the left reversionary panel, to the EICAS position.

Result:

- 1 MFD 1 is configured to work as an EICAS.

- (d) Turn the MFD rotate switch, on the left reversionary panel, to the NORM position.

Result:

- 1 The EICAS goes back to the normal indication.
- 2 MFD 1 goes back to the normal indication.

- (e) Turn the MFD rotate switch, on the right reversionary panel, to the PFD position.

Result:

- 1 MFD 2 is configured to operate as a PFD 2.

- (f) Turn the MFD rotate switch, on the right reversionary panel, to the NORM position.

Result:

- 1 PFD 2 goes back to the normal indication.
- 2 MFD 2 goes back to the normal indication.

- (g) Turn the MFD rotate switch, on the right reversionary panel, to the EICAS position.

Result:

1 MFD 2 is configured to operate as an EICAS.

- (h) Turn the MFD rotate switch, on the right reversionary panel, to the NORM position.

Result:

1 The EICAS goes back to the normal indication.

2 MFD 2 goes back to the normal indication.

- (3) Do a check of the EFIS source reversion function as follows:

- (a) Push the ADC pushbutton, on the pilot reversionary panel.

Result:

1 PFD 1 shows ADC 2 (amber).

- (b) Push the ADC pushbutton, on the copilot reversionary panel.

Result:

1 PFD 2 shows ADC 1 (amber).

- (c) Push the ADC pushbutton again, on the pilot and copilot reversionary panels.

Result:

1 The PFDs go back to the normal configuration.

- (d) Push the SG pushbutton, on the pilot reversionary panel.

Result:

1 PFD 1 shows SG 2 (amber).

- (e) Push the SG pushbutton again, on the pilot reversionary panel.

Result:

1 PFD 1 goes back to the normal configuration.

- (f) Push the SG pushbutton, on the copilot reversionary panel.

Result:

1 PFD 2 shows SG 1 (amber).

- (g) Push the SG pushbutton again, on the copilot reversionary panel.

Result:

1 The PFD 2 goes back to the normal configuration.

- (h) Push the AHRS (or IRS) pushbutton, on the pilot reversionary panel.

Result:

1 (Aircraft with AHRS) PFD 1 shows MAG 2 or DG2 (amber) and ATT 2 (amber).

2 (Aircraft with Dual IRS) PFD 1 shows MAG 2 (amber) and ATT 2 (amber).

- (i) Push the AHRS (or IRS) pushbutton, on the copilot reversionary panel.

Result:

1 (Aircraft with AHRS) PFD 2 shows MAG 1 or DG1 (amber) and ATT 1 (amber).

2 (Aircraft with Dual IRS) PFD 2 shows MAG 1 (amber) and ATT 1 (amber).

- (j) Push the AHRS (or IRS) pushbutton again, on the pilot and copilot reversionary panel.

Result:

- 1 The PFDs go back to the normal configuration.

K. Follow-on

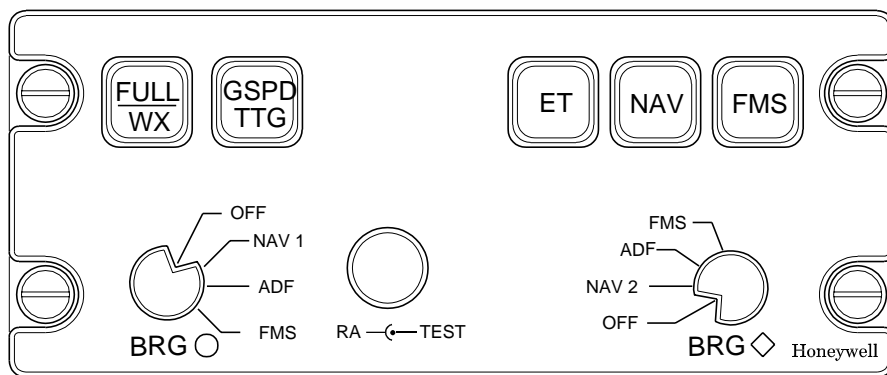
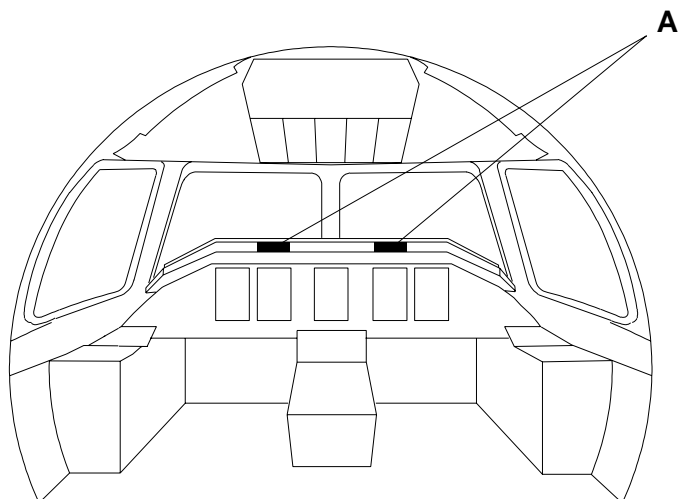
*SUBTASK 842-002-A*

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

EFFECTIVITY: ALL

DC-550

Figure 501



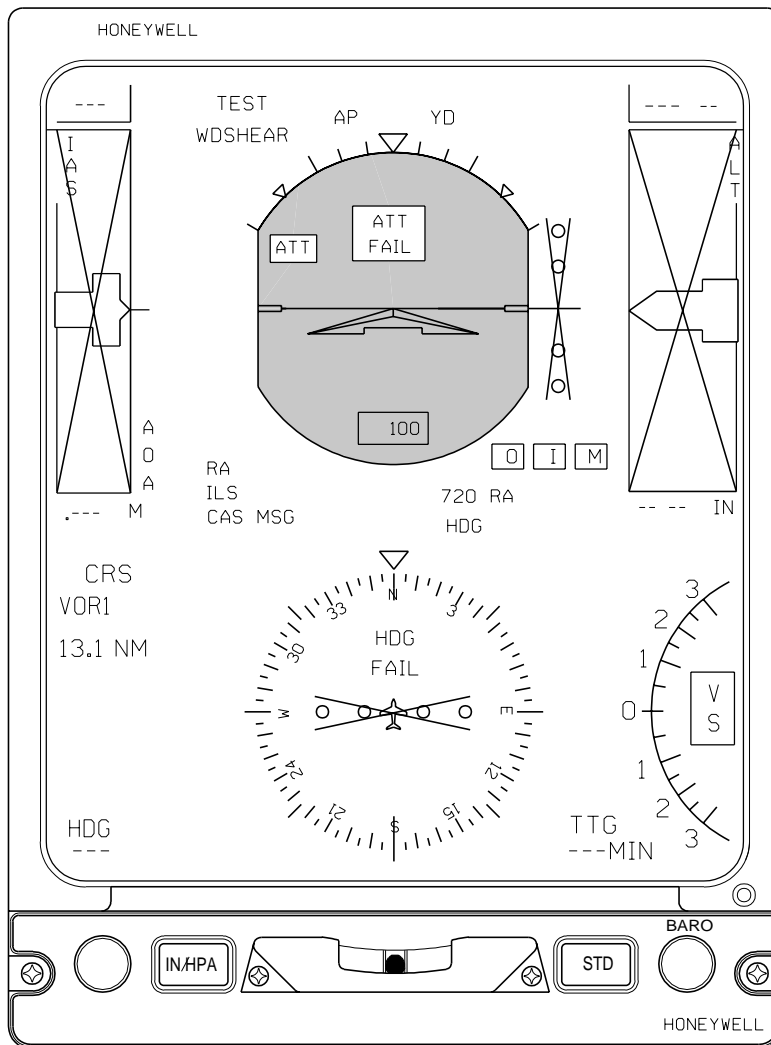
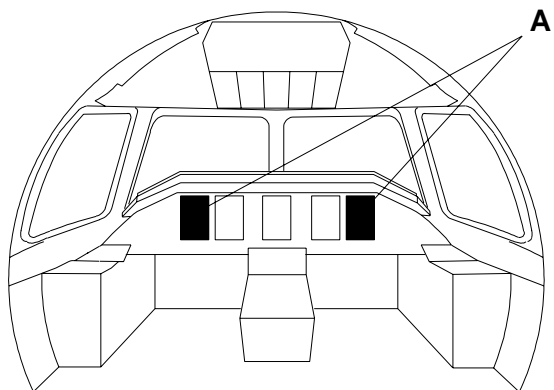
**DET. A**

145AMM340021.MCE A

EFFECTIVITY: ALL

PFDs Test Indication - First Level

Figure 502



DET. A

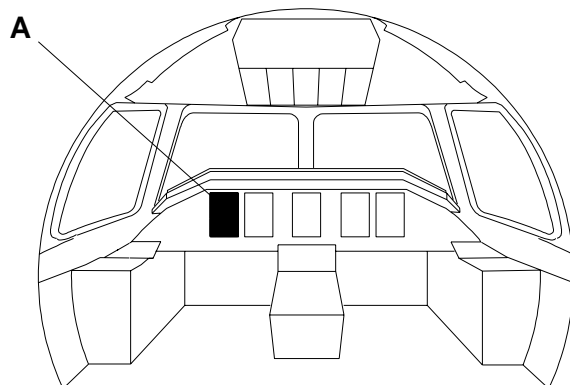
145AMM310060.MCE A



EFFECTIVITY: ALL

PFD 1 Test Indication - Second Level

Figure 503



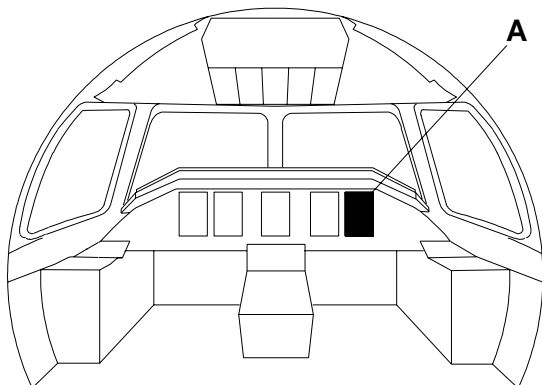
DET. A

EM145AMM310627A.DGN

EFFECTIVITY: ALL

PFD 2 Test Indication - Second Level

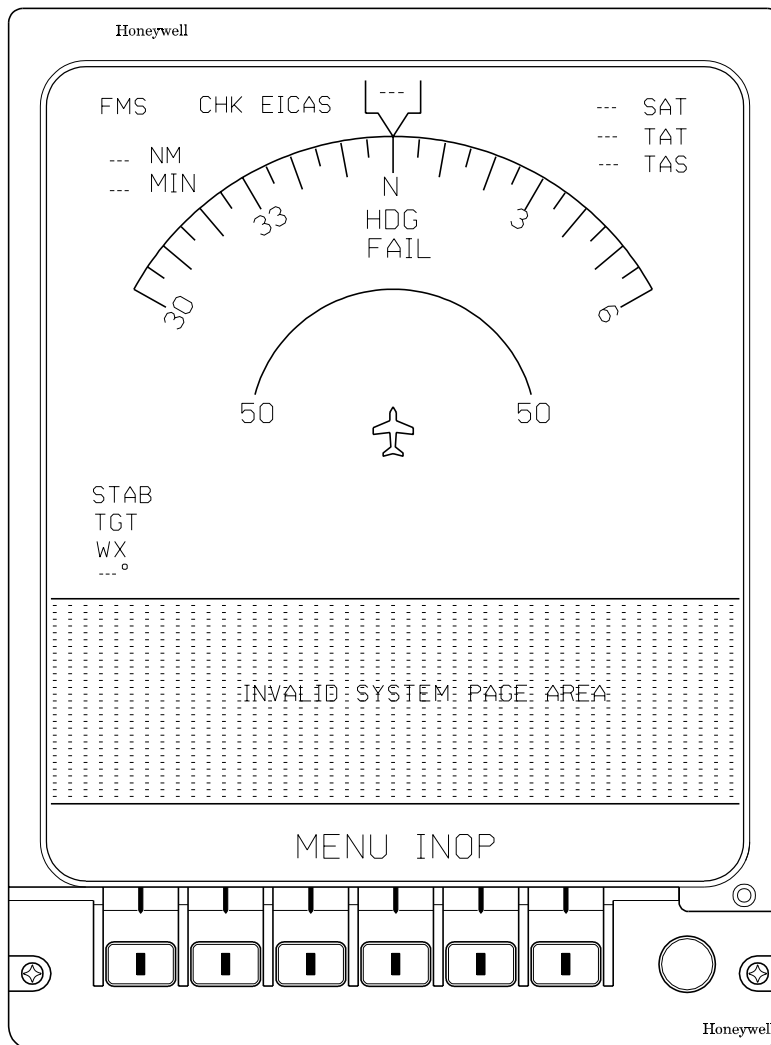
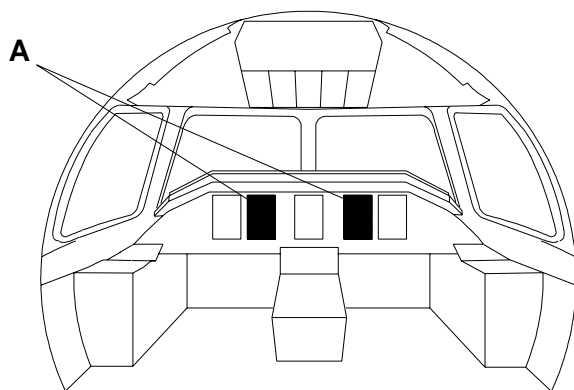
Figure 504



DET. A

145AMM310062.MCE A

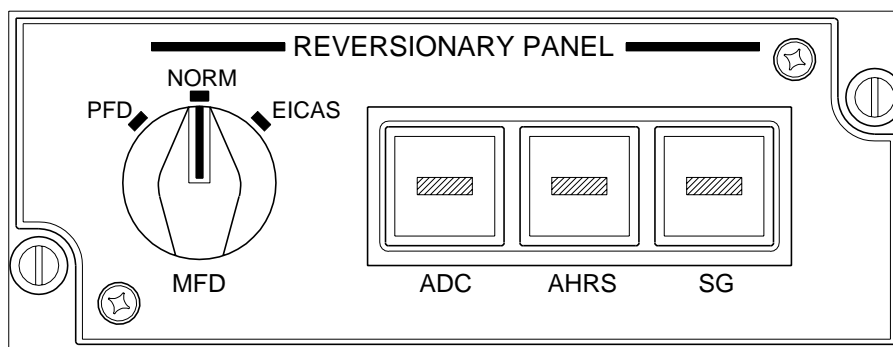
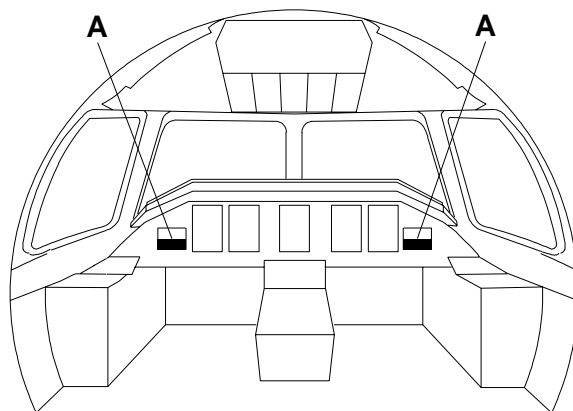
EFFECTIVITY: ALL  
MFDs Test Indication  
Figure 505



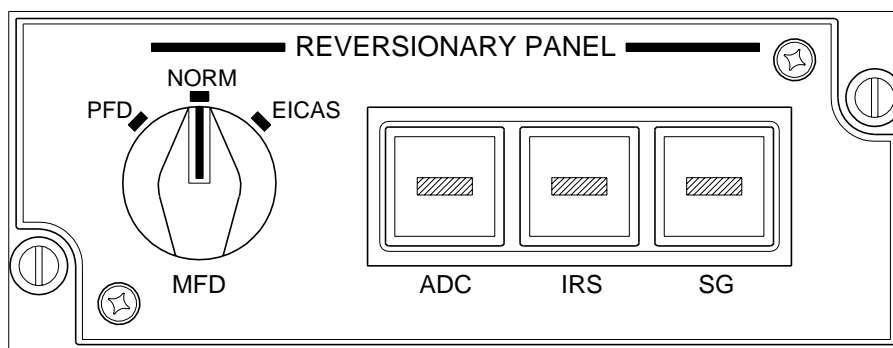
DET. A

145AMM310063.MCE A

EFFECTIVITY: ALL  
Reversionary Panel  
Figure 506



DET. A 1



DET. A 2

1 AIRCRAFT WITH AHRS.

2 AIRCRAFT WITH DUAL IRS

145AMM340193.MCE A