## MAIN GENERATION - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

1. General

A. This section gives the procedures to do the operational check of the main-generation overcurrent-protection circuit, the operational check of the main-generation switching circuit, and the operational test of the main generation 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* |
|---|---|---|
| 24-31-00-700-801-A ♦ | MAIN-GENERATION OVERCURRENT-PROTECTION CIRCUIT - OPERATIONAL CHECK | ALL |
| 24-31-00-700-802-A ♦ | MAIN-GENERATION SWITCHING-CIRCUIT - OPERATIONAL CHECK | ALL |
| 24-31-00-700-803-A | MAIN GENERATION SYSTEM - OPERATIONAL TEST | ALL |

TASK 24-31-00-700-801-A
*EFFECTIVITY: ALL*

2. MAIN-GENERATION OVERCURRENT-PROTECTION CIRCUIT - OPERATIONAL CHECK

A. General

(1) The function of this check is to make sure that the overcurrent-protection circuit operates correctly. This task includes the check of the GEN (1/2/3/4) BRG FAIL advisory messages.

(2) Do the operational check of the main-generation switching circuit to reset the GCU protection circuit after you do this check ( AMM TASK 24-31-00-700-802-A/500).

B. References

| *REFERENCE* | *DESIGNATION* |
|---|---|
| AMM MPP 06-41-01/100 | - |
| AMM MPP 06-41-03/100 | - COMPONENT LOCATION |
| AMM SDS 24-35-00/1 | |
| AMM SDS 24-60-00/1 | |
| AMM SDS 32-63-00/1 | |
| AMM SDS 45-45-00/1 | |
| AMM TASK 20-40-01-860-801-A/200 | ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE |
| AMM TASK 24-31-00-700-802-A/500 | MAIN-GENERATION SWITCHING-CIRCUIT - OPERATIONAL CHECK |
| AMM TASK 29-10-00-860-802-A/200 | HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP |
| AMM TASK 32-00-02-910-801-A/200 | SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL |
| AMM TASK 45-45-00-970-801-A/200 | CMC DOWNLOADING WITH THE MFD |
| SB145-32-0036 | - |
| SB145-45-0001 | - |

C. Zones and Accesses

| *ZONE* | *PANEL/DOOR* | *LOCATION* |
|---|---|---|
| 114 | 114BZ | Nose-Landing-Gear Compartment |
| 223 | 223LZ | 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*

NOTE: • Do not operate the APU and the engines.

• If batteries 1 and 2 do not have sufficient charge, the result of the check will not be satisfactory.

(1) Make sure that the aircraft is on the ground (WOW) (AMM SDS 32-63-00/1) and safe for maintenance.

(2) On aircraft PRE-MOD SB145-32-0036, make sure that the pressure in hydraulic system 1 is fully released ( AMM TASK 29-10-00-860-802-A/200).

(3) On aircraft POST-MOD SB145-32-0036, install the safety pin of the NLG door solenoid valve (AMM TASK 32-00-02-910-801-A/200).

(4) Energize the aircraft with the External DC-Power Supply ( AMM TASK 20-40-01-860-801-A/200).

(5) Open maintenance panel door 114BZ (AMM MPP 06-41-01/100) to get access to the backup-battery relay box.

(6) Open maintenance panel door 223LZ ( AMM MPP 06-41-03/100) to get access to the maintenance panel.

(7) On the LH electrical-power control/distribution box (AMM SDS 24-60-00/1), open the HEATING/TAT 1, HEATING/PITOT 1, and HEATING/AOA 1 circuit breakers and attach DO-NOT-CLOSE tags to them.

(8) On the RH electrical-power control/distribution box (AMM SDS 24-60-00/1), open the HEATING/TAT 2, HEATING/PITOT 2, HEATING/AOA 2, and PITOT HTG 3 circuit breakers and attach DO-NOT-CLOSE tags to them.

J. Operationally Check Main-Generation Overcurrent-Protection Circuit (Figure 501) (Figure 502)

*SUBTASK 710-002-A*

(1) Make sure that all GEN and APU GEN pushbuttons, on the electrical panel, on the overhead panel, are set at ON.

(2) Make sure that the backup battery is installed (AMM SDS 24-35-00/1), in the forward electronic compartment, and that the BACKUP pushbutton, on the electrical panel, on the overhead panel, is set at AUTO.

(3) Make sure that the SHED BUSES switches, on the electrical panel, on the overhead panel, are set at AUTO.

(4) Make sure that the BUS TIES switch, on the electrical panel, on the overhead panel, is set at AUTO.

(5) Make sure that the BATT 1-2 switches, on the electrical panel, on the overhead panel, are set at OFF.

(a) The EICAS display shows the BACKUP BATT OFF BUS caution messages.

(6) (Applicable only to aircraft POST-MOD SB145-45-0001) Set the CMC RESET/ENABLE switch, on the maintenance panel (AMM SDS 45-45-00/1), to ENABLE.

(7) Check the main-generator 1 overcurrent-protection circuit as follows:

(a) Set the GEN 1 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 1 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1), to TEST and hold it.

Result:

1 The MFDs and PFDs go off.

2 After a short time, MFD 1 and PFD 2 come on and the EICAS display shows the DC BUS 1 OFF and SHED BUS 1 OFF caution messages.

3 The master CAUTION lights flash.

4 If necessary, release and push again the ELEC PWR switch to test.

(c) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(d) Release the ELEC PWR switch.

(e) Set the ELEC PWR switch to RESET.

Result:

1 MFD 2 and PFD 1 come on.

2 On the EICAS display, the SHED BUS 1 OFF and DC BUS 1 OFF caution messages go out of view.

(f) Set the GEN 1 pushbutton to ON.

Result:

1 On the GEN 1 pushbutton, the striped bar goes off.

(8) Do a check on the main-generator 3 overcurrent-protection circuit as follows:

(a) Set the GEN 3 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 3 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1), to TEST and hold it.

Result:

1 The MFDs and PFDs go off.

2 After a short time, MFD 1 and PFD 2 come on and the EICAS display shows the DC BUS 1 OFF and SHED BUS 1 OFF caution messages.

3 The master CAUTION lights flash.

4 If necessary, release and push again the ELEC PWR switch to test.

(c) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(d) Release the ELEC PWR switch.

(e) Set the ELEC PWR switch to RESET.

Result:

1 MFD 2 and PFD 1 come on.

2 On the EICAS display, the SHED BUS 1 OFF and DC BUS 1 OFF caution messages go out of view.

(f) Set the GEN 3 pushbutton to ON.

Result:

1 On the GEN 3 pushbutton, the striped bar goes off.

(9) Do a check on the main-generator 2 overcurrent-protection circuit as follows:

(a) Set the GEN 2 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 2 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1), to TEST and hold it.

Result:

1 The MFDs and PFDs go off.

2 After a short time, MFD 2 and PFD 1 come on and the EICAS display shows the DC BUS 2 OFF and SHED BUS 2 OFF caution messages.

NOTE: The MFD 2 display shows a red X.

3 The master CAUTION lights flash.

4 If necessary, release and push again the ELEC PWR switch to test.

(c) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(d) Release the ELEC PWR switch.

(e) Set the ELEC PWR switch to RESET.

Result:

1 MFD 1 and PFD 2 come on.

2 On the EICAS display, the SHED BUS 2 OFF and DC BUS 2 OFF caution messages go out of view.

(f) Set the GEN 2 pushbutton to ON.

Result:

1 On the GEN 2 pushbutton, the striped bar goes off.

(10) Do a check on the main-generator 4 overcurrent-protection circuit as follows:

(a) Set the GEN 4 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 4 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1), to TEST and hold it.

Result:

1 The MFDs and PFDs go off.

2 After a short time, MFD 2 and PFD 1 come on and the EICAS display shows the DC BUS 2 OFF and SHED BUS 2 OFF caution messages.

NOTE: The MFD 2 display shows a red X.

3 The master CAUTION lights flash.

4 If necessary, release and push again the ELEC PWR switch to test.

(c) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(d) Release the ELEC PWR switch.

(e) Set the ELEC PWR switch to RESET.

Result:

1 MFD 1 and PFD 2 come on.

2 On the EICAS display, the SHED BUS 2 OFF and DC BUS 2 OFF caution messages go out of view.

(f) Set the GEN 4 pushbutton to ON.

Result:

1 On the GEN 4 pushbutton, the striped bar goes off.

(11) ON the backup battery relay box (AMM SDS 24-60-00/1), open the O/C RLY 1 and O/C RLY 2 circuit breakers and attach DO-NOT-CLOSE tags to them.

(12) Set MFD 1 to the maintenance page ( AMM TASK 45-45-00-970-801-A/200).

NOTE: Ignore the messages shown.

(13) Do a check on the main-generator 1 BITE messages as follows:

(a) Set the GEN 1 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 1 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1) to do a test and hold it.

Result:

1 The EICAS display shows the GEN 1 BRG FAIL advisory message.

2 The MFD display shows the GEN 1 FAIL and GCU 1 FAIL maintenance messages.

(c) Release the ELEC PWR switch.

Result:

1 ON the EICAS display, the GEN 1 BRG FAIL advisory message goes out of view.

(d) Set the GEN 1 pushbutton to ON.

Result:

1 On the GEN 1 pushbutton, the striped bar goes off.

(14) Do a check on the main-generator 3 BITE messages as follows:

(a) Set the GEN 3 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 3 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1) to do a test and hold it.

Result:

1 The EICAS display shows the GEN 3 BRG FAIL advisory message.

2 The MFD display shows the GEN 3 FAIL and GCU 3 FAIL maintenance messages.

(c) Release the ELEC PWR switch.

Result:

1 ON the EICAS display, the GEN 3 BRG FAIL advisory message goes out of view.

(d) Set the GEN 3 pushbutton to ON.

Result:

1 On the GEN 3 pushbutton, the striped bar goes off.

(15) Do a check on the main-generator 2 BITE messages as follows:

(a) Set the GEN 2 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 2 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1) to do a test and hold it.

Result:

1 The EICAS display shows the GEN 2 BRG FAIL advisory message.

2 The MFD display shows the GEN 2 FAIL and GCU 2 FAIL maintenance messages.

(c) Release the ELEC PWR switch.

Result:

1 ON the EICAS display, the GEN 2 BRG FAIL advisory message goes out of view.

(d) Set the GEN 2 pushbutton to ON.

Result:

1 On the GEN 2 pushbutton, the striped bar goes off.

(16) Do a check on the main-generator 4 BITE messages as follows:

(a) Set the GEN 4 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 4 pushbutton, the striped bar comes on.

(b) Set the ELEC PWR switch, on the maintenance panel (AMM SDS 45-45-00/1), to do a test and hold it.

Result:

1 The EICAS display shows the GEN 4 BRG FAIL advisory message.

2 The MFD display shows the GEN 4 FAIL and GCU 4 FAIL maintenance messages.

(c) Release the ELEC PWR switch.

Result:

1 ON the EICAS display, the GEN 4 BRG FAIL advisory message goes out of view.

(d) Set the GEN 4 pushbutton to ON.

Result:

1 On the GEN 4 pushbutton, the striped bar goes off.

(17) Set the ELEC PWR switch to RESET.

(18) Remove the DO-NOT-CLOSE tags from the O/C RLY 1 and O/C RLY 2 circuit breakers and close them.

(19) (Applicable only to aircraft POST-MOD SB145-45-0001) Set the CMC RESET/ENABLE switch, on the maintenance panel (AMM SDS 45-45-00/1), to the middle position.

(20) Do the task operational check of the main-generation switching circuit to reset the GCU protection circuit ( AMM TASK 24-31-00-700-802-A/500).

K. Follow-on

*SUBTASK 842-002-A*

(1) Close access panel 223LZ ( AMM MPP 06-41-03/100).

(2) Close access panel 114BZ (AMM MPP 06-41-01/100).

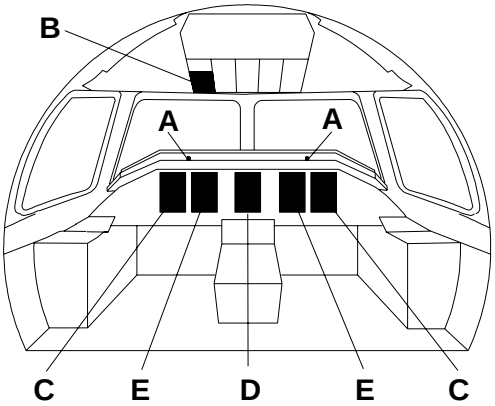
(3) Remove the DO-NOT-CLOSE tags from the HEATING/TAT 1, HEATING/PITOT 1, and HEATING/AOA 1 circuit breakers and close them.

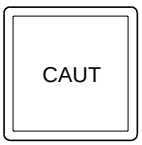
(4) Remove the DO-NOT-CLOSE tags from the HEATING/TAT 2, HEATING/PITOT 2, HEATING/AOA 2, and PITOT HTG 3 circuit breakers and close them.

(5) On aircraft POST-MOD SB145-32-0036, remove the safety pin of the NLG-door solenoid valve (AMM TASK 32-00-02-910-801-A/200).

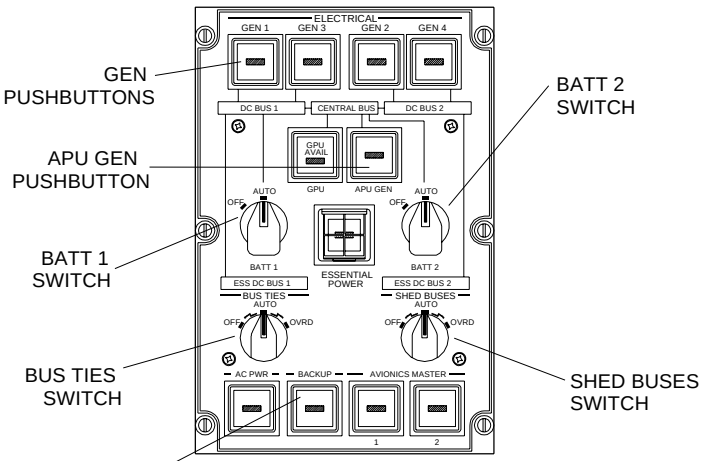
(6) Deenergize the aircraft ( AMM TASK 20-40-01-860-801-A/200).

*EFFECTIVITY: FOR AIRCRAFT WITH AC STATIC INVERTER INSTALLED*
Main-Generation Overcurrent-Protection Circuit - Operational Check
Figure 501

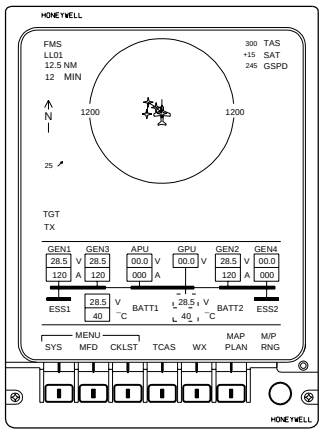


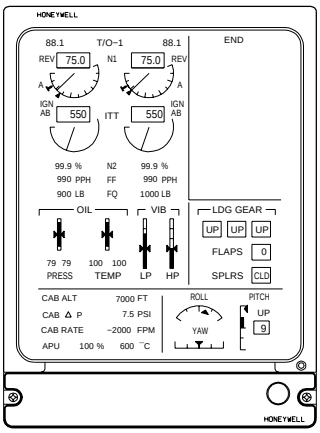

**DET. A**
MASTER CAUTION LIGHT



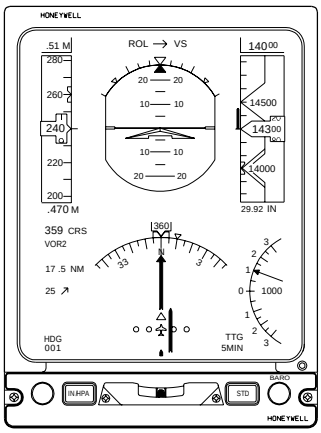

**DET. B**
ELECTRICAL PANEL




**DET. E**
MFD



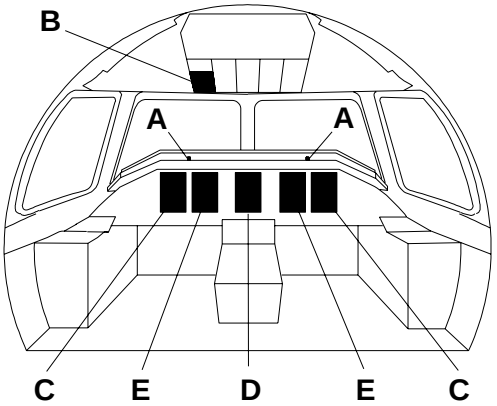

**DET. D**
EICAS DISPLAY

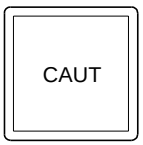



**DET. C**
PFD

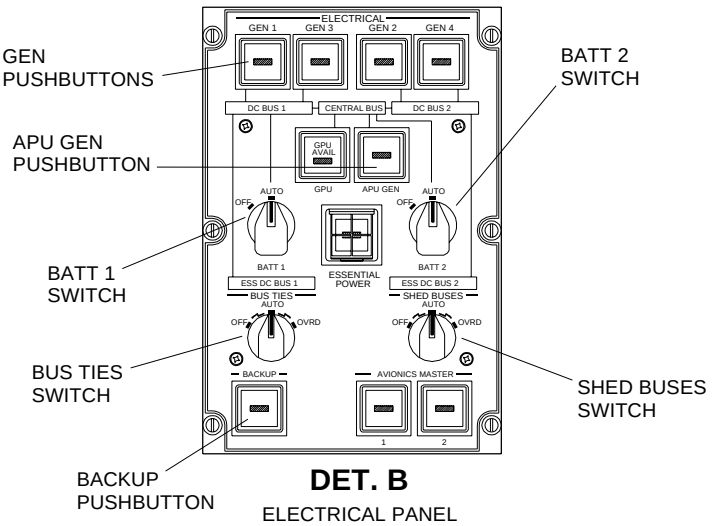
EM145AMM240844A.DGN

*EFFECTIVITY: FOR AIRCRAFT WITH AC STATIC INVERTER NOT INSTALLED*
Main-Generation Overcurrent-Protection Circuit - Operational Check
Figure 502

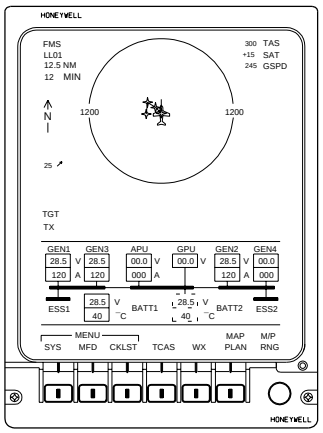


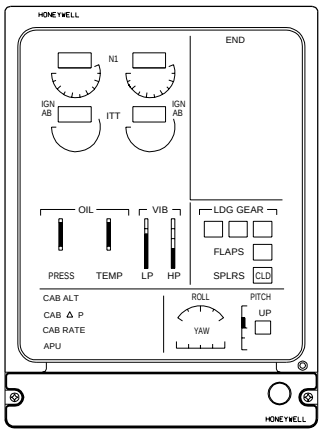

**DET. A**
MASTER CAUTION
LIGHT



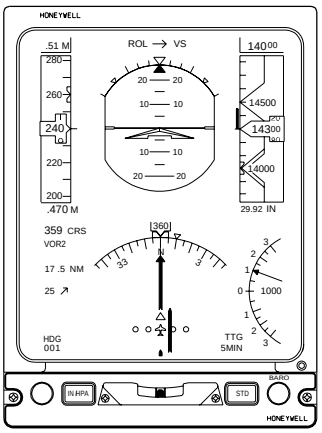

**DET. B**
ELECTRICAL PANEL




**DET. E**
MFD




**DET. D**
EICAS DISPLAY




**DET. C**
PFD

EM145AMM240836A.DGN

TASK 24-31-00-700-802-A
*EFFECTIVITY: ALL*

3. MAIN-GENERATION SWITCHING-CIRCUIT - OPERATIONAL CHECK

A. General

(1) The function of this check is to make sure that the main-generation switching circuit operates correctly.

(2) For this procedure, the engines must be in operation.

B. References

| *REFERENCE* | *DESIGNATION* |
|---|---|
| AMM SDS 24-31-00/1 | |
| AMM SDS 31-41-00/1 | |
| AMM TASK 71-00-01-910-801-A/200 | ENGINE START PROCEDURE (NORMAL) |
| AMM TASK 71-00-01-910-804-A/200 | ENGINE STOP PROCEDURE |

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 841-003-A*

**WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.**

(1) Make sure that the aircraft is safe for maintenance.

(2) Do the steps as follows:

(a) Set the BATT 1 and BATT 2 switches, on the electrical panel, on the overhead panel, to AUTO.

Result:

1 The EICAS display shows the SHED BUS 1-2 OFF caution messages.

2 The master CAUTION lights flash.

(b) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(c) Start the engines ( AMM TASK 71-00-01-910-801-A/200).

NOTE: If you use the APU to start the engines, stop the APU after the engines are in operation.

J. Operationally Check Main-Generation Switching-Circuit (Figure 503)

*SUBTASK 710-003-A*

(1) Do the check as follows:

(a) Set MFD 1 (or 2) to the ELEC page (AMM SDS 31-41-00/1).

Result:

1 The ELEC page shows GEN 1, 2, 3, and 4 nominal current and voltage values boxed in green (AMM SDS 24-31-00/1).

(b) Set the GEN 1-2-3-4 pushbuttons, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 1-2-3-4 pushbuttons, the striped bar comes on.

2 The ELEC page shows the GEN 1-2-3-4 voltage boxed in amber.

3 On the EICAS display, the GEN 1-2-3-4 OFF BUS and SHED BUS 1-2 OFF caution messages come into view.

(c) Set the GEN 1 pushbutton to ON.

Result:

1 On the GEN 1 pushbutton, the striped bar goes off.

2 The ELEC page shows the GEN 1 voltage and current boxed in green.

3 On the EICAS display, the GEN 1 OFF BUS caution message goes out of view.

4 On the EICAS display, the SHED BUS 1-2 OFF and GEN 2-3-4 OFF BUS caution messages stay in view.

(d) Set the GEN 2 pushbutton to ON.

Result:

1 On the GEN 2 pushbutton, the striped bar goes off.

2 The ELEC page shows the GEN 1 and 2 voltage and current boxed in green.

3 On the EICAS display, the GEN 2 OFF BUS caution message goes out of view.

4 On the EICAS display, the SHED BUS 1-2 OFF and GEN 3-4 OFF BUS caution messages stay in view.

(e) Set the GEN 3 pushbutton to ON.

Result:

1 On the GEN 3 pushbutton, the striped bar goes off.

2 The ELEC page shows the GEN 1, 2 and 3 voltage and current boxed in green.

3 On the EICAS display, the SHED BUS 1-2 OFF and GEN 3 OFF BUS caution messages go out of view.

4 On the EICAS display, the GEN 4 OFF BUS caution message stays in view.

(f) Set the GEN 4 pushbutton to ON.

Result:

1 On the GEN 4 pushbutton, the striped bar goes off.

2 The ELEC page shows the GEN 1, 2, 3 and 4 current and voltage boxed in green.

3 On the EICAS display, the GEN 4 OFF BUS caution message goes out of view.

K. Follow-on

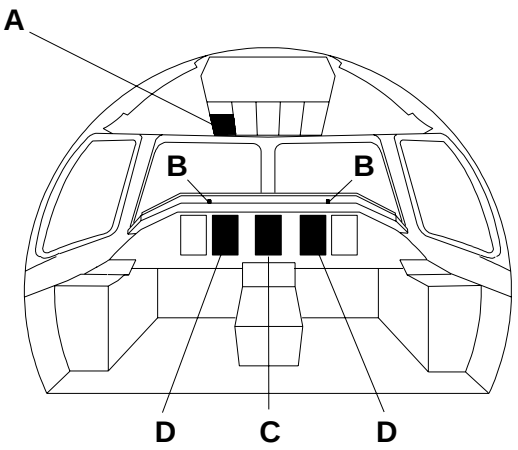
*SUBTASK 842-003-A*

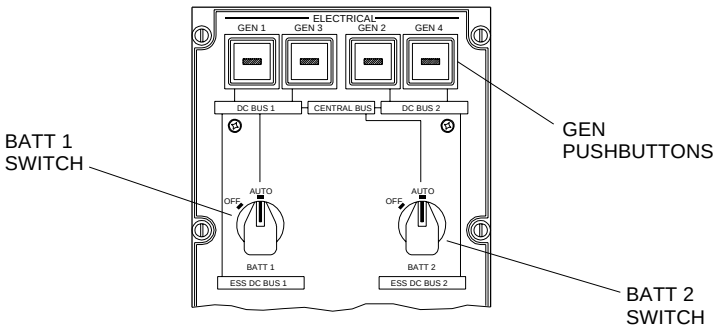
(1) Stop the engines ( AMM TASK 71-00-01-910-804-A/200).

(2) Set the BATT 1 and BATT 2 switches to OFF.

*EFFECTIVITY: ALL*

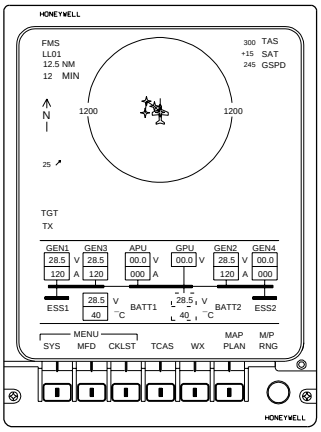
Main-Generation Switching Circuit - Operational Check
Figure 503



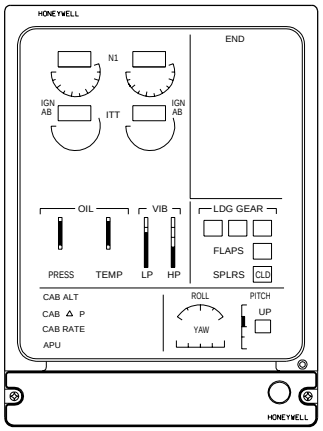




**DET. A**
ELECTRICAL PANEL


**DET. B**
MASTER CAUTION
LIGHT




**DET. D**
MFD




**DET. C**
EICAS DISPLAY

EM145AMM240005C.DGN

TASK 24-31-00-700-803-A
*EFFECTIVITY: ALL*

4. MAIN GENERATION SYSTEM - OPERATIONAL TEST

A. General

(1) The function of this test is to make sure that the main generation operates correctly.

B. References

| *REFERENCE* | *DESIGNATION* |
|---|---|
| AMM SDS 24-31-00/1 | |
| AMM SDS 31-41-00/1 | |
| AMM TASK 71-00-01-910-801-A/200 | ENGINE START PROCEDURE (NORMAL) |
| AMM TASK 71-00-01-910-804-A/200 | ENGINE STOP PROCEDURE |

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 841-004-A*

(1) Make sure that the BATT 1 and BATT 2 switches, on the electrical panel, on the overhead panel, are set at AUTO.

(2) Make sure that the GEN 1 (2, 3 or 4) POR and GEN 1 (2, 3 or 4) OUTVOLT circuit breakers are closed, on the LH/RH Electrical-Power Control/Distribution box.

(3) Start the engines ( AMM TASK 71-00-01-910-801-A/200).

(4) Make sure that the SHED BUSES switch, on the electrical panel, on the overhead panel, is set at AUTO.

NOTE: If you use the APU to start the engines, stop the APU generator after the engines are in operation.

J. Test Procedure (Figure 504)

*SUBTASK 710-004-A*

(1) Do the check as follows:

(a) Set MFD 1 (or 2) to the ELEC page (AMM SDS 31-41-00/1).

Result:

1 The ELEC page shows GEN 1, 2, 3, and 4 nominal current and voltage values boxed in green (AMM SDS 24-31-00/1).

2 The ELEC page shows the buses in green.

(b) Set the GEN 1 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 1 pushbutton, the striped bar comes on.

2 The EICAS display shows the GEN 1 OFF BUS caution message.

3 The master CAUTION lights flash.

4 The ELEC page shows the GEN 1 voltage and current boxed in amber.

(c) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(d) Set the GEN 2 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 2 pushbutton, the striped bar comes on.

2 The EICAS display shows the GEN 1-2 OFF BUS and SHED BUS 1-2 OFF caution messages.

3 The master CAUTION lights flash.

4 The ELEC page shows the GEN 1-2 voltage and current boxed in amber.

(e) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(f) Set the GEN 3 pushbutton, on the electrical panel, on overhead panel, to OFF/RESET.

Result:

1 On the GEN 3 pushbutton, the striped bar comes on.

2 The EICAS display shows the GEN 1-2-3 OFF BUS caution messages.

3 On the EICAS display, the SHED BUS 1-2 OFF caution messages stay in view.

4 The master CAUTION lights flash.

5 The ELEC page shows the GEN 1-2-3 voltage and current boxed in amber.

(g) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(h) Set the GEN 4 pushbutton, on the electrical panel, on the overhead panel, to OFF/RESET.

Result:

1 On the GEN 4 pushbutton, the striped bar comes on.

2 The EICAS display shows the GEN 1-2-3-4 OFF BUS caution messages.

3 On the EICAS display, the SHED BUS 1-2 OFF caution messages stay in view.

4 The ELEC page shows the GEN 1-2-3-4 voltage and current boxed in amber.

5 The master CAUTION lights flash.

(i) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(j) Set the GEN 3 pushbutton to ON.

Result:

1 On the GEN 3 pushbutton, the striped bar goes off.

2 On the EICAS display, the GEN 3 OFF BUS caution message goes out of view.

3 On the EICAS display, the SHED BUS 1-2 OFF caution messages stay in view.

4 The ELEC page shows the GEN 3 voltage and current boxed in green.

(k) Set the GEN 4 pushbutton to ON.

Result:

1 On the GEN 4 pushbutton, the striped bar goes off.

2 On the EICAS display, the GEN 4 OFF BUS caution message goes out of view.

3 On the EICAS display, the SHED BUS 1-2 OFF caution messages stay in view.

4 The ELEC page shows the GEN 4 voltage and current boxed in green.

(l) Set the GEN 1 pushbutton to ON.

Result:

1 On the GEN 1 pushbutton, the striped bar goes off.

2 On the EICAS display, the SHED BUS 1-2 OFF and GEN 1 OFF BUS caution messages go out of view.

3 The ELEC page shows the GEN 1 voltage and current boxed in green.

(m) Set the GEN 2 pushbutton to ON.

Result:

1 On the GEN 2 pushbutton, the striped bar goes off.

2 On the EICAS display, the GEN 2 OFF BUS caution message goes out of view.

3 The ELEC page shows the GEN 2 voltage and current boxed in green.

K. Follow-on

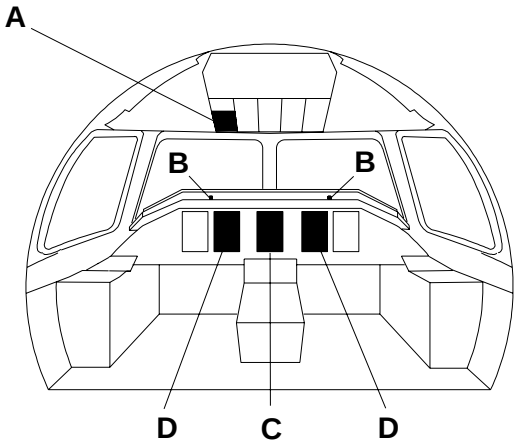
*SUBTASK 842-004-A*

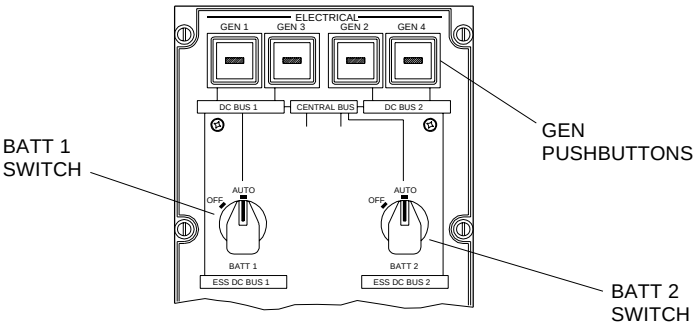
(1) Stop the engines ( AMM TASK 71-00-01-910-804-A/200).

(2) Set the BATT 1 and BATT 2 switches to OFF.

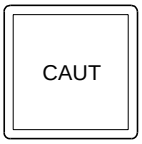
*EFFECTIVITY: ALL*

Main Generation System - Operational Test
Figure 504

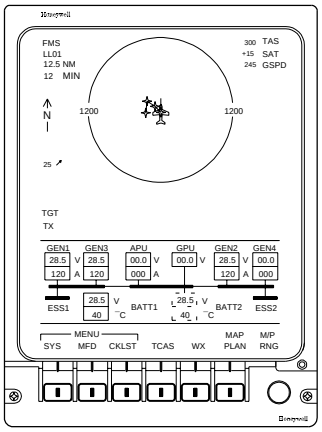


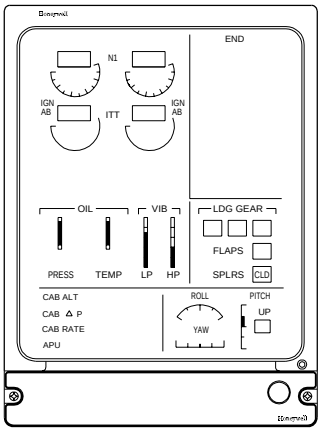

**DET. A**
ELECTRICAL PANEL




**DET. B**
MASTER CAUTION
LIGHT




**DET. D**
MFD




**DET. C**
EICAS DISPLAY

EM145AMM240109C.DGN