AC STATIC INVERTER - ADJUSTMENT/TEST

EFFECTIVITY: FOR AIRCRAFT WITH AC STATIC INVERTER INSTALLED

1. General

   A. This section gives the procedures to do the operational test of the AC static inverter fan.

   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*
24-20-01-700-801-A	AC STATIC INVERTER FAN - OPERATIONAL TEST	FOR AIRCRAFT WITH AC STATIC INVERTER INSTALLED

TASK 24-20-01-700-801-A
EFFECTIVITY: FOR AIRCRAFT WITH AC STATIC INVERTER INSTALLED

2. AC STATIC INVERTER FAN - OPERATIONAL TEST

A. General

(1) The function of this test is to make sure that the AC static inverter fan operates correctly.

B. References

REFERENCE	*DESIGNATION*
AMM MPP 06-41-01/100	-
AMM SDS 24-20-00/1	
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
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
S.B.145-32-0036	-

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
113	113AZ	Nose-landing-gear compartment

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	Nose-landing-gear compartment
1	Does the task	Cockpit

I. Preparation

SUBTASK 841-002-A

(1) On aircraft PRE-MOD S.B.145-32-0036, make sure that the pressure in hydraulic system 1 is fully released (AMM TASK 29-10-00-860-802-A/200).

(2) On aircraft POST-MOD S.B.145-32-0036, install the safety pin of the NLG door solenoid valve (AMM TASK 32-00-02-910-801-A/200).

(3) Open access panel113AZ (AMM MPP 06-41-01/100).

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

J. Test Procedure (Figure 501)

SUBTASK 710-002-A

(1) Do the task as follows:

(a) Make sure that the AC PWR pushbutton, on the electrical panel, on the overhead panel, is set at AUTO.

(b) (For aircraft with P/N PC-251-123F or SPC-10(Y)) Go near the AC static inverter (AMM SDS 24-20-00/1).

Result:

1 Listen for the operation sound of the AC static inverter fan.

(c) Set the AC PWR pushbutton to OFF.

Result:

1 On the AC PWR pushbutton, the striped bar comes on.

2 The EICAS display shows the 115 V AC BUS OFF, WINDSHEAR INOP, and GPWS INOP caution messages.

3 The master CAUTION lights flash.

(d) Push a master CAUTION light.

Result:

1 The master CAUTION lights go off.

(e) (For aircraft with P/N PC-251-123F or SPC-10(Y)) Go near the AC static inverter.

Result:

1 The AC static inverter fan stops.

(f) Set the AC PWR pushbutton to AUTO.

Result:

1 On the AC PWR pushbutton, the striped bar goes off.

2 On the EICAS display, the 115 V AC BUS OFF, WINDSHEAR INOP, and GPWS INOP caution messages go out of view.

(g) (For aircraft with P/N PC-251-123F or SPC-10(Y)) Go near the AC static inverter.

Result:

1 Listen for the operation sound of the AC static inverter fan.

K. Follow-on

SUBTASK 842-002-A

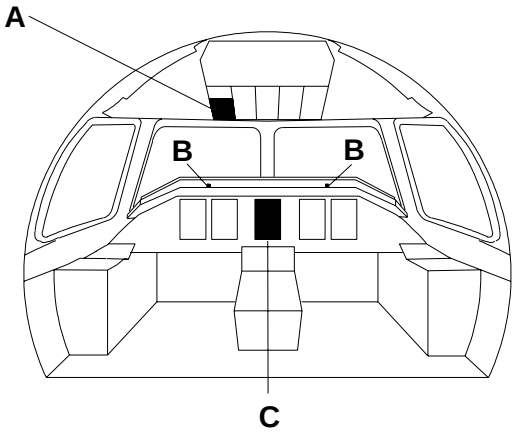
(1) Deenergize the aircraft (AMM TASK 20-40-01-860-801-A/200).

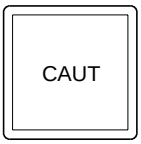
(2) Close access panel113AZ (AMM MPP 06-41-01/100).

(3) On aircraft POST-MOD S.B.145-32-0036, remove the safety pin of the NLG door solenoid valve (AMM TASK 32-00-02-910-801-A/200).

EFFECTIVITY: FOR AIRCRAFT WITH AC STATIC INVERTER INSTALLED

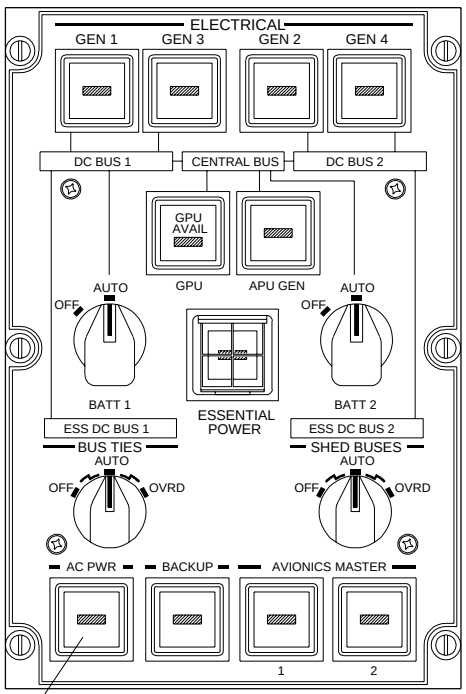
AC Static-Inverter-Fan Operational Test
Figure 501





DET. B

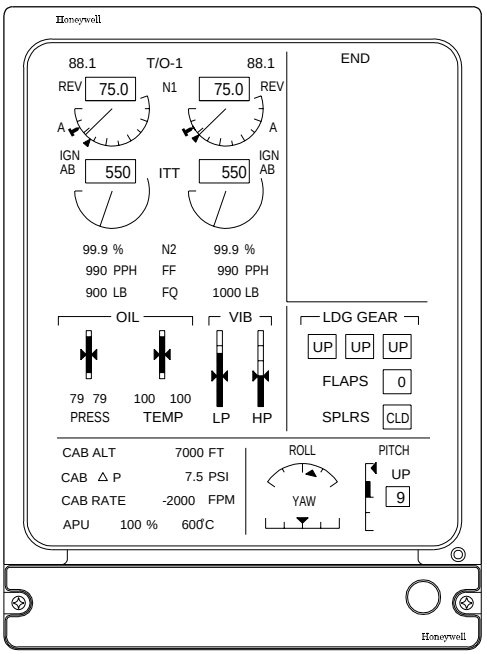
MASTER CAUTION
LIGHT



DET. A

ELECTRICAL PANEL

AC PWR
PUSHBUTTON



DET. C

EICAS DISPLAY

145AMM240019.MCE A