

FIFTY-HERTZ POWER SYSTEM - ADJUSTMENT/TEST

TASK XX-XX-XX-710-801

1. Operational Test of the Residual Current Disrupter (RCD)

A. Reason for the Task

STLMC XX-XX-XX (Chapter 5 Task No. XX-XX-XX-602)

B. Reference Information

Reference	Designation
AMM TASK XX-XX-XX-861-801	Connect Electrical Power to the Aircraft
AMM TASK XX-XX-XX-861-802	Remove the Electrical Power from the Aircraft
AMM TASK XX-XX-XX-910-801	Electrical/Electronic Safety Precautions
AMM TASK XX-XX-XX-010-801	Open the Aircraft Equipment Compartment Door
AMM TASK XX-XX-XX-410-801	Close the Aircraft Equipment Compartment Door

C. Tools and Equipment

Reference	Designation
Commercially available	220VAC Outlet Tester with RCD Test Capability
Commercially available	Wattmeter

NOTE: Refer to the applicable maintenance manual to make sure you use the correct XXX configuration.

D. Setup

CAUTION: TEST PROCEDURE REQUIRES QUALIFIED OPERATORS USING APPROPRIATE AIRCRAFT OPERATIONAL PROCEDURES.

- (1) Observe electrical/electronic safety precautions (AMM TASK XX-XX-XX-910-801).
- (2) Open the aircraft equipment compartment door (AMM TASK XX-XX-XX00-010-801).
- (3) Make sure that all circuit breakers are closed except those necessary for ground safety.
- (4) Connect electrical power to the aircraft (AMM TASK XX-XX-XX-861-801).
 - (a) Make sure that all of the electrical buses are powered by checking on the synoptic page of the Engine Indication and Crew Alerting System (EICAS).

E. Procedure

Refer to [Figure 501](#).

- (1) Set the cockpit Cabin Control Panel DC PWR switch to ON (OFF annunciator extinguishes).
- (2) Set the Cabin Control Panel AC PWR switch to ON (OFF annunciator extinguishes).
- (3) Using the outlet tester and the multimeter, check for 220VAC/50Hz and proper outlet configuration at the outlets that follow:

Ident	Description	Zone
J3002	Outlet, 220VAC/50Hz	Upper Galley
J3003	Outlet, 220VAC/50Hz	Armledge/XXX
J3004	Outlet, 220VAC/50Hz	Armledge/XXX
J3007	Outlet, 220VAC/50Hz	Lavatory Vanities/XXX
J3022	Outlet, 220VAC/50Hz	Armledge/XXX
J4304	Outlet, 220VAC/50Hz	Armledge/XXX

- (4) Press the TEST button on the galley's Residual Current Disrupter (RCD).
- (5) Make sure that power is removed from the galley and cabin outlets listed in step 1.E.(3).
- (6) Reset the galley outlet's RCD by moving the RCD lever to ON.
- (7) Press the TEST button on the lavatory RCD.
- (8) Make sure that power is removed from the lavatory outlet listed in step 1.E.(3).
- (9) Reset the lavatory RCD by moving the RCD lever to ON.
- (10) Make sure that power is present at the galley, cabin, and lavatory outlets listed in step 1.E.(3).
- (11) Connect the outlet tester to a cabin outlet, and test the RCD function of the outlet.
- (12) Make sure that power is removed from the cabin outlets listed in step 1.E.(3).
- (13) Connect the outlet tester to the coffee maker outlet, and test the RCD function of the outlet.
- (14) Make sure that power is removed from the coffee maker outlet listed in step 1.E.(3).
- (15) Connect the outlet tester to the lavatory outlet, and test the RCD function using the outlet tester.
- (16) Make sure that power is removed from the lavatory outlet listed in step 1.E.(3).

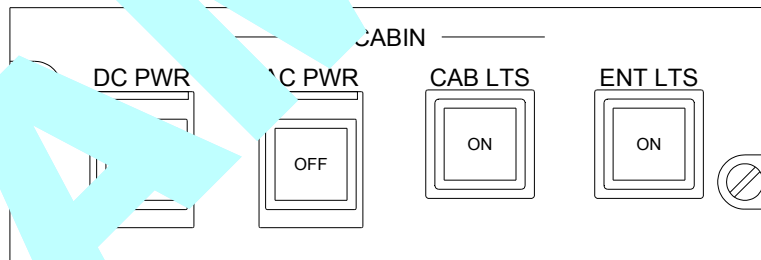
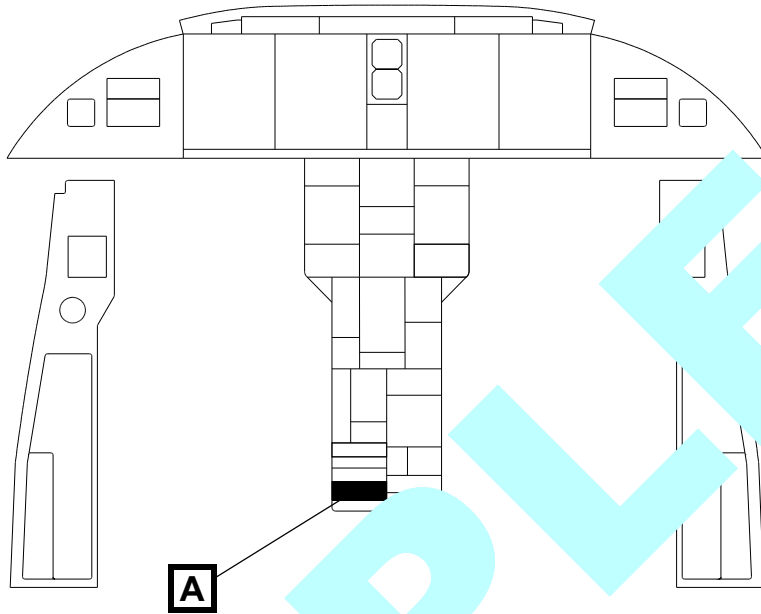
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F. Closeout

- (1) Remove the electrical power from the aircraft (AMM TASK XX-XX-XX-861-802).
- (2) Close the aft equipment compartment door (AMM TASK XX-XX-XX-410-801).
- (3) Remove all tools, equipment, and unwanted materials from the work area.

SAMPLE



CABIN CONTROL PANEL

A

Fifty-Hertz Power System - Adjustment/Test
Figure 501

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