

ELECTRICAL CONTROL PANEL - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove / install the electrical power control panel.
- 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
24-00-01-000-801-A	ELECTRICAL POWER CONTROL PANEL - ALL REMOVAL	
24-00-01-400-801-A	ELECTRICAL POWER CONTROL PANEL - ALL INSTALLATION	

TASK 24-00-01-000-801-A
EFFECTIVITY: ALL

2. ELECTRICAL POWER CONTROL PANEL - REMOVAL

A. General

(1) This task gives the procedures to remove the Electrical Power Control Panel.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

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 engines are not in operation.
- (2) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (3) Make sure that the GPU is not connected to the DC external power receptacle.

J. Removal ([Figure 401](#)) ([Figure 402](#))

SUBTASK 020-002-A

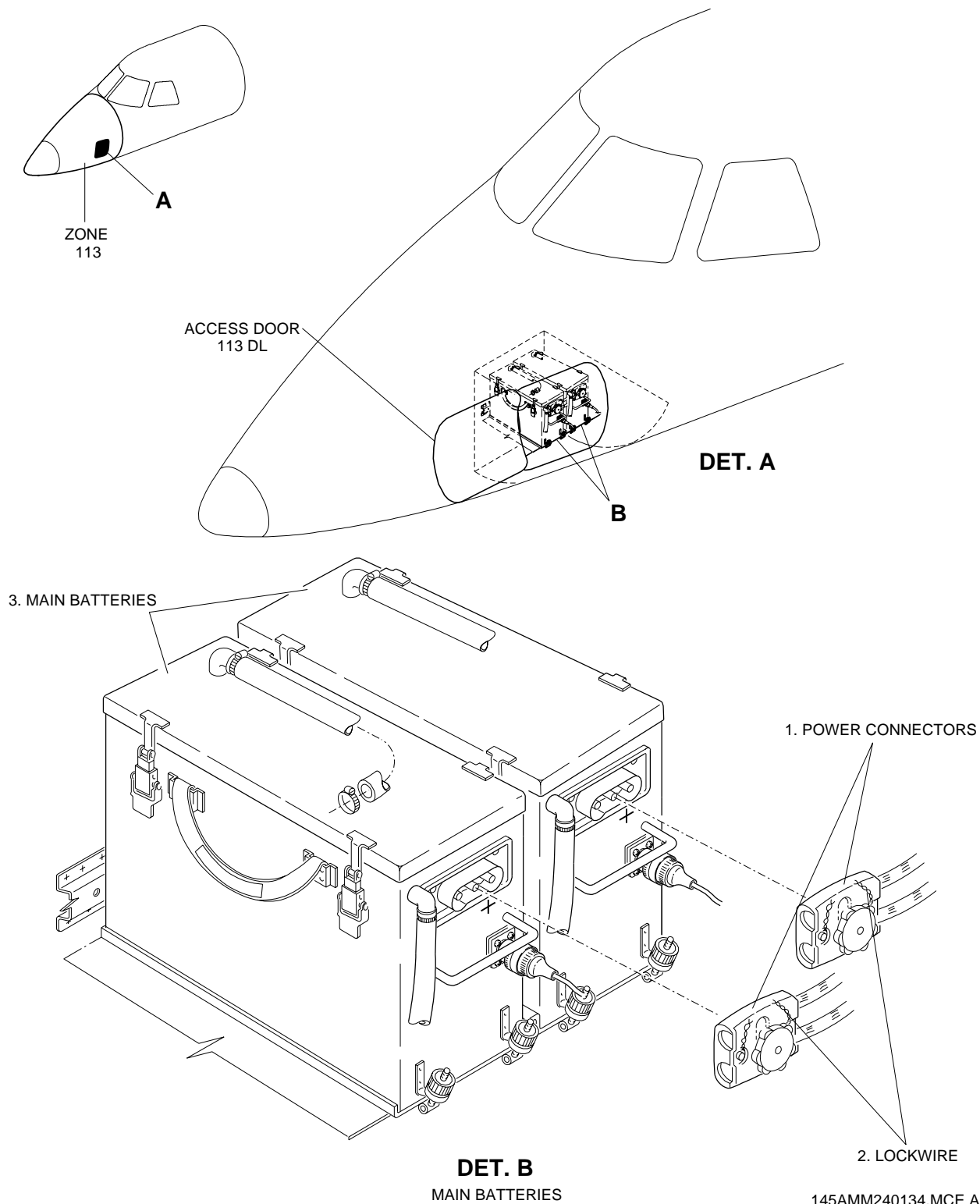
- (1) Refer to [Figure 401](#) and do as follows:
 - (a) Cut the Lockwire (2) from the power connectors (1) of the main batteries (3).
 - (b) Disconnect the power connectors (1) from the main batteries (3).
- (2) Refer to [Figure 402](#) and do as follows:

- (a) Loosen the Dzus fasteners (1) that attach the electrical power control panel (2) to the panel.
- (b) Carrefully pull the electrical control panel (2) from its housing to get access to the electrical connectors (3).
- (c) Disconnect the electrical connectors (3) from the electrical control panel.
- (d) Put ESD protective caps on the electrical connectors (3).

EFFECTIVITY: ALL

Power Control/Distribution Box - Removal/Installation

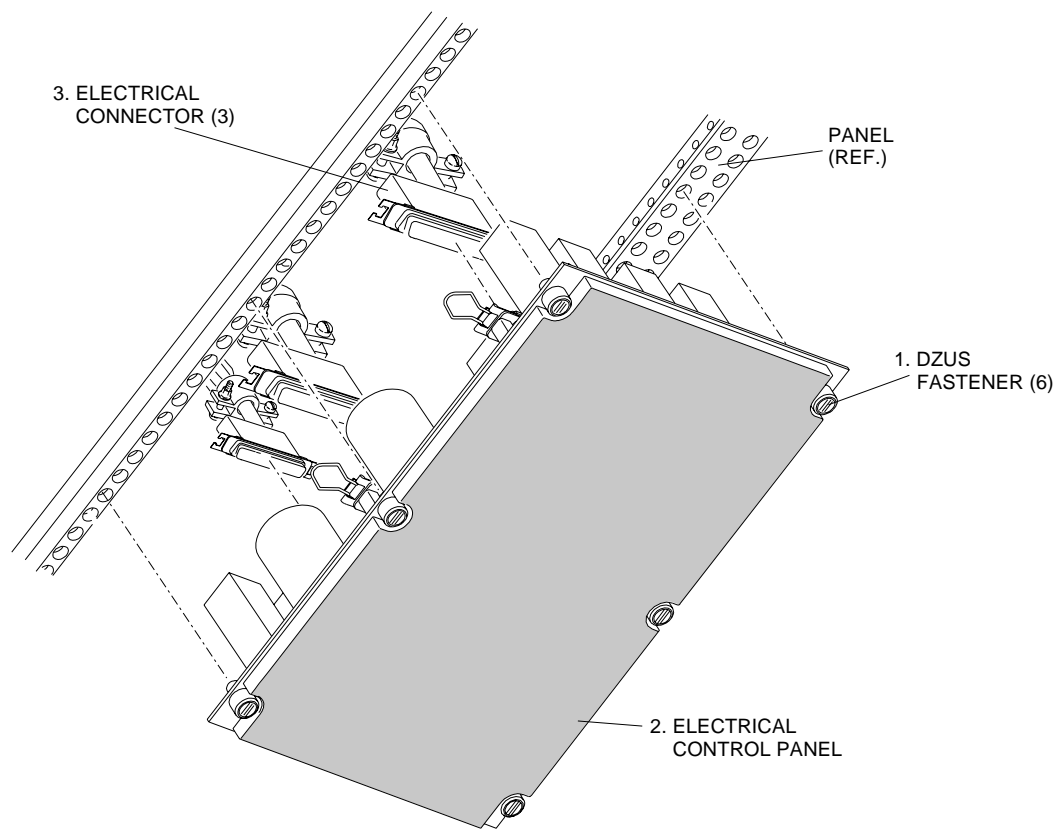
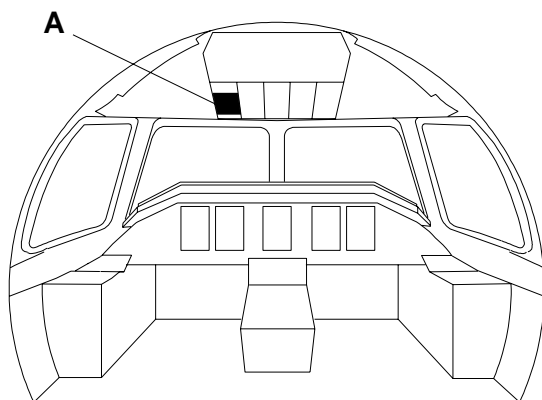
Figure 401



EFFECTIVITY: ALL

Electrical Power Control Panel - Removal/Installation

Figure 402



DET. A

EM145AMM240604A.DGN

TASK 24-00-01-400-801-A

EFFECTIVITY: ALL

3. ELECTRICAL POWER CONTROL PANEL - INSTALLATION

A. General

(1) This task gives the procedures to install the electrical power control panel.

B. References

REFERENCE	DESIGNATION
AMM TASK 24-20-00-700-801-A/500	AC GENERATION SYSTEM - OPERATIONAL TEST
AMM TASK 24-31-00-700-803-A/500	MAIN GENERATION SYSTEM - OPERATIONAL TEST
AMM TASK 24-34-00-700-803-A/500	APU GENERATION SYSTEM - OPERATIONAL TEST
AMM TASK 24-60-00-700-801-A/500	ELECTRICAL EMERGENCY TRANSFER CIRCUIT - OPERATIONAL CHECK
AMM TASK 24-62-00-700-801-A/500	AVIONICS MASTER SYSTEM - OPERATIONAL TEST

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM B 134-(OS)	Lockwire - Annealed Brass C26000, .012 in	400 (mm)

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit

I. Installation (Figure 402)

SUBTASK 420-002-A

- (1) Refer to Figure 402 and do as follows:
 - (a) Remove the ESD protective caps from the electrical connectors (3).
 - (b) Connect the electrical connectors (3) to the electrical control panel (2).

- (c) Carefully put the electrical control panel (2) in its installation position.
- (d) Tighten the Dzus fasteners (1).
- (e) Connect the power connectors to the main batteries.
- (f) Use a lockwire (2) to lock the power connectors (1) of the main batteries (3).

J. Follow-on

SUBTASK 842-002-A

- (1) Do the main generation system operational test ([AMM TASK 24-31-00-700-803-A/500](#)).
- (2) Do the APU generation system operational test ([AMM TASK 24-34-00-700-803-A/500](#)).
- (3) Do the electrical emergency transfer circuit operational test ([AMM TASK 24-60-00-700-801-A/500](#)).
- (4) Do the AC generation system operational test ([AMM TASK 24-20-00-700-801-A/500](#)).
- (5) Do the avionics master system operational test ([AMM TASK 24-62-00-700-801-A/500](#)).

