



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**MAIN BATTERY 2 RELAY BOX - REMOVAL/INSTALLATION**

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Main Battery 2 Relay Box.
- 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
24-36-03-000-801-A	MAIN BATTERY 2 RELAY BOX - REMOV- AL	ALL
24-36-03-400-801-A	MAIN BATTERY 2 RELAY BOX - INSTAL- LATION	ALL



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TASK 24-36-03-000-801-A

EFFECTIVITY: ALL

2. MAIN BATTERY 2 RELAY BOX - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the Main Battery 2 Relay Box.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 24-36-01-000-801-A/400</a>	MAIN BATTERY - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113DL	Battery 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	At the battery compartment

I. Preparation

**SUBTASK 841-002-A**

- (1) Open access panel 113DL(AMM MPP 06-41-01/100).
- (2) Remove main battery 2 ([AMM TASK 24-36-01-000-801-A/400](#)).

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

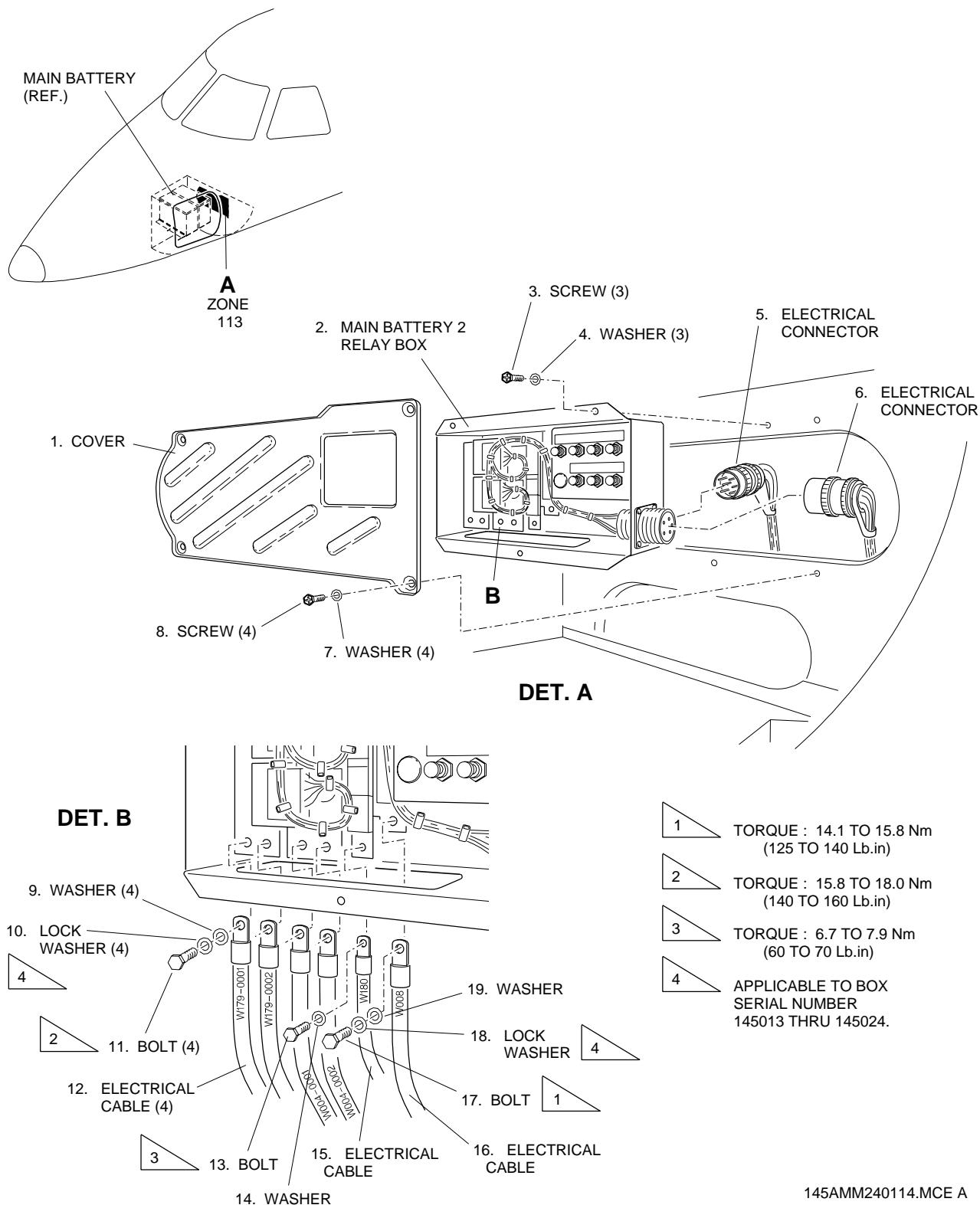
**SUBTASK 020-002-A**

- (1) Disconnect the electrical connector (6) from the main battery 2 relay box (2).
- (2) Remove the four screws (8) and four washers (7) which attach the cover (1) to the aircraft.
- (3) Remove the cover (1).



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- (4) (Applicable to main battery 2 relay box serial numbers 145004 thru 145012 and 145025 and on) Remove the bolt (17) and washer (19) which attach the electrical cable (16) to the main battery 2 relay box (2).
- (5) (Applicable to main battery 2 relay box serial numbers 145013 thru 145024) Remove the bolt (17), lock washer (18) and washer (19) which attach the electrical cable (16) to the main battery 2 relay box (2).
- (6) Disconnect the electrical cable (16) from the main battery 2 relay box (2).  
NOTE: If the electrical cable is without identification code, identify the electrical cable to make the reinstallation easier.
- (7) Remove the bolt (13) and washer (14) which attach the electrical cable (15) to the main battery 2 relay box (2).
- (8) Disconnect the electrical cable (15) from the main battery 2 relay box (2).  
NOTE: If the electrical cable is without identification code, identify the electrical cable to make the reinstallation easier.
- (9) (Applicable to main battery 2 relay box serial number 145004 thru 12 and 145025 and on) Remove the four bolts (11) and four washers (9) which attach the four electrical cables (12) to the main battery 2 relay box (2).
- (10) (Applicable to main battery 2 relay box serial number 145013 thru 145024) Remove the four bolts (11), four lock washers (10) and four washers (9) which attach the four electrical cables (12) to the main battery 2 relay box (2).
- (11) Disconnect the four electrical cables (12) from the main battery 2 relay box (2).  
NOTE: If the electrical cables are without identification code, identify the electrical cables to make the reinstallation easier.
- (12) Remove the three screws (3) and three washers (4) which attach the main battery 2 relay box (2) to the aircraft.
- (13) Pull the main battery 2 relay box (2) sufficiently to disconnect the electrical connector (5).
- (14) Disconnect the electrical connector (5) from the main battery 2 relay box (2).
- (15) Remove the main battery 2 relay box (2).

**EFFECTIVITY: ALL**
**Main Battery 2 Relay Box - Removal/Installation**
**Figure 401**


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# AIRCRAFT MAINTENANCE MANUAL

TASK 24-36-03-400-801-A

EFFECTIVITY: ALL

### 3. MAIN BATTERY 2 RELAY BOX - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the Main Battery 2 Relay Box.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 24-36-00-700-801-A/500</a>	MAIN BATTERY SYSTEM - OPERATIONAL TEST
<a href="#">AMM TASK 24-36-01-400-801-A/400</a>	MAIN BATTERY - INSTALLATION

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113DL	Battery compartment

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (For the torque range, refer to figure 401)	To torque the fasteners correctly	

#### 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	At the battery compartment

#### I. Installation (Figure 401)

##### SUBTASK 420-002-A

- (1) Connect the electrical connector (5) to the main battery 2 relay box (2).
- (2) Put the main battery 2 relay box (2) in its installation position.
- (3) Tighten the three washers (4) and three screws (3) which attach the main battery 2 relay box (2) to the aircraft.
- (4) Connect the electrical cable (16) to the main battery 2 relay box (2).

**CAUTION:** SEE ITS IDENTIFICATION TO MAKE SURE THAT THE ELECTRICAL CABLE IS INSTALLED CORRECTLY AND THAT THE TORQUE VALUE IS APPLIED CORRECTLY. INCORRECT INSTALLATION OF THE CABLE WILL CAUSE SERIOUS PROBLEMS TO THE AIRCRAFT.

- (5) (Applicable to main battery 2 relay box serial numbers 145004 thru 145012 and 145025 and on) Tighten the bolt (17) and washer (19) which attach the electrical cable (16) to the main battery 2 relay box (2).
- (6) (Applicable to main battery 2 relay box serial numbers 145013 thru 145024) Tighten the bolt (17), lock washer (18), and washer (19) which attach the electrical cable (16) to the main battery 2 relay box (2).
- (7) Connect the electrical cable (15) to the main battery 2 relay box (2).

**CAUTION:** SEE ITS IDENTIFICATION TO MAKE SURE THAT THE ELECTRICAL CABLE IS INSTALLED CORRECTLY AND THAT THE TORQUE VALUE IS APPLIED CORRECTLY. INCORRECT INSTALLATION OF THE CABLE WILL CAUSE SERIOUS PROBLEMS TO THE AIRCRAFT.

- (8) Tighten the bolt (13) and washer (14) which attach the electrical cable (15) to the main battery 2 relay box (2).
- (9) Connect the four electrical cables (12) to the main battery 2 relay box (2).

**CAUTION:** SEE THEIR IDENTIFICATION TO MAKE SURE THAT THE ELECTRICAL CABLES ARE INSTALLED CORRECTLY AND THAT THE TORQUE VALUE IS APPLIED CORRECTLY. INCORRECT INSTALLATION OF THE CABLES WILL CAUSE SERIOUS PROBLEMS TO THE AIRCRAFT.

- (10) (Applicable to main battery 2 relay box serial numbers 145004 thru 145012 and 145025 and on) Tighten the four bolts (11) and four washers (9) which attach the four electrical cables (12) to the main battery 2 relay box (2).
- (11) (Applicable to main battery 2 relay box serial numbers 145013 thru 145024) Tighten the four bolts (11), four lock washers (10), and four washers (9) which attach the four electrical cables (12) to the main battery 2 relay box (2).
- (12) Connect the electrical connector (6) to the relay box.
- (13) Put the cover (1) in its installation position.
- (14) Tighten the four screws (8) and four washers (7) which attach the cover (1) to the aircraft.

J. Follow-on

**SUBTASK 842-002-A**

- (1) Install main battery 2 ([AMM TASK 24-36-01-400-801-A/400](#)).
- (2) Do the Operational Test of the Main Battery System ([AMM TASK 24-36-00-700-801-A/500](#)).
- (3) Close access panel 113DL([AMM MPP 06-41-01/100](#)).