

## BATTERY POWER SUPPLY - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to remove and install the Battery Power Supply.
- B. The Battery Power Supply gives DC power supply to the electrically-illuminated-emergency exit signal and lights when the normal electrical power supply is lost.
- C. The Battery Power Supply includes a battery pack and an electronic assembly mounted on a chassis.
- D. There are four Battery Power Supplies installed on the aircraft as follows:
  - (1) Battery Power Supply 1 - Installed on the right side of the fuselage, between the TCAS computer and the cockpit wall.
  - (2) Battery Power Supply 2 - Installed at the ceiling, above the service door.
  - (3) Battery Power Supply 3 - Installed below the floor panel (on the single-passenger seat side).
  - (4) Battery Power Supply 4 - Installed at the ceiling (third passenger window, after the emergency exit).
- E. 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
33-50-04-000-801-A	BATTERY POWER SUPPLY - REMOVAL	ALL
33-50-04-400-801-A	BATTERY POWER SUPPLY - INSTALLATION	ALL
33-50-04-000-802-A	BATTERY PACK - REMOVAL	ALL
33-50-04-400-802-A	BATTERY PACK - INSTALLATION	ALL

TASK 33-50-04-000-801-A

EFFECTIVITY: ALL

## 2. BATTERY POWER SUPPLY - REMOVAL

### A. General

(1) This task gives the procedures to remove the Battery Power Supply.

### B. References

REFERENCE	DESIGNATION
AMM TASK 25-21-01-000-801-A/400	-
AMM TASK 25-22-04-000-801-A/400	-
AMM TASK 25-22-04-000-802-A/400	-
AMM TASK 25-81-01-000-801-A/400	-
AMM TASK 25-81-01-000-802-A/400	-
<a href="#">AMM TASK 33-50-04-000-802-A/400</a>	BATTERY PACK - REMOVAL
AMM TASK 53-01-02-000-801-A/400	-
AMM TASK 53-01-02-000-802-A/400	-
<a href="#">S.B.145-25-0325</a>	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	251JF	Wing stub - LH
232		Aft wardrobe
234		Passenger cabin ceiling - RH
253		Passenger cabin ceiling - LH

### 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	In the passenger cabin

I. Preparation

*SUBTASK 841-002-A*

- (1) On the circuit breaker panel, open the EMERG circuit breaker and attach a DO-NOT-CLOSE tag to it (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).
- (2) For Battery Power Supply 1:
  - (a) Remove the internal access panel from the wardrobe.
  - (b) (PRE-MOD. [S.B.145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (3) For Battery Power Supply 2:
  - (a) Remove the headliner. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
  - (b) (PRE-MOD. [S.B.145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (4) Battery Power Supply 3:
  - (a) Remove the passenger seat installed on floor panel 251JF (AMM TASK 25-21-01-000-801-A/400), if applicable.
  - (b) Remove passenger-cabin floor panel 251JF. Refer to (AMM TASK 53-01-02-000-801-A/400) or (AMM TASK 53-01-02-000-802-A/400), as applicable.
- (5) Battery Power Supply 4:
  - (a) Remove the headliner. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
  - (b) (PRE-MOD. [S.B.145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.

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

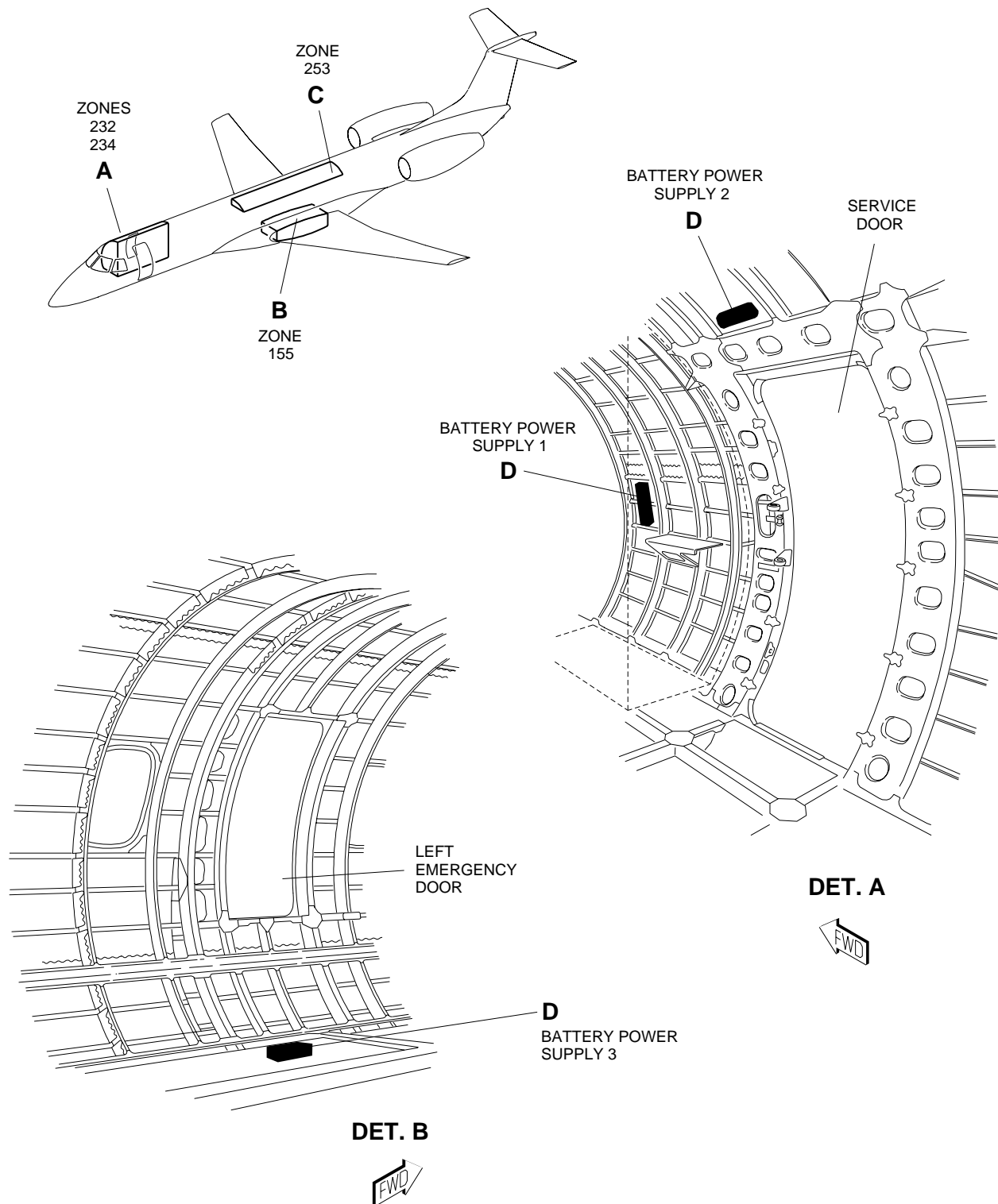
*SUBTASK 020-002-A*

- (1) Remove the battery pack ( [AMM TASK 33-50-04-000-802-A/400](#)).
- (2) Remove the bolts (5) that attach the chassis assembly (6).
- (3) (PRE-MOD. [S.B.145-25-0325](#)) Remove the chassis assembly (6).
- (4) (POST-MOD. [S.B.145-25-0325](#)) Remove the chassis assembly (6), the bonding strap (4), and the spacers (3).

**EFFECTIVITY: ALL**

**Battery Power Supply - Removal/Installation**

**Figure 401 - Sheet 1**

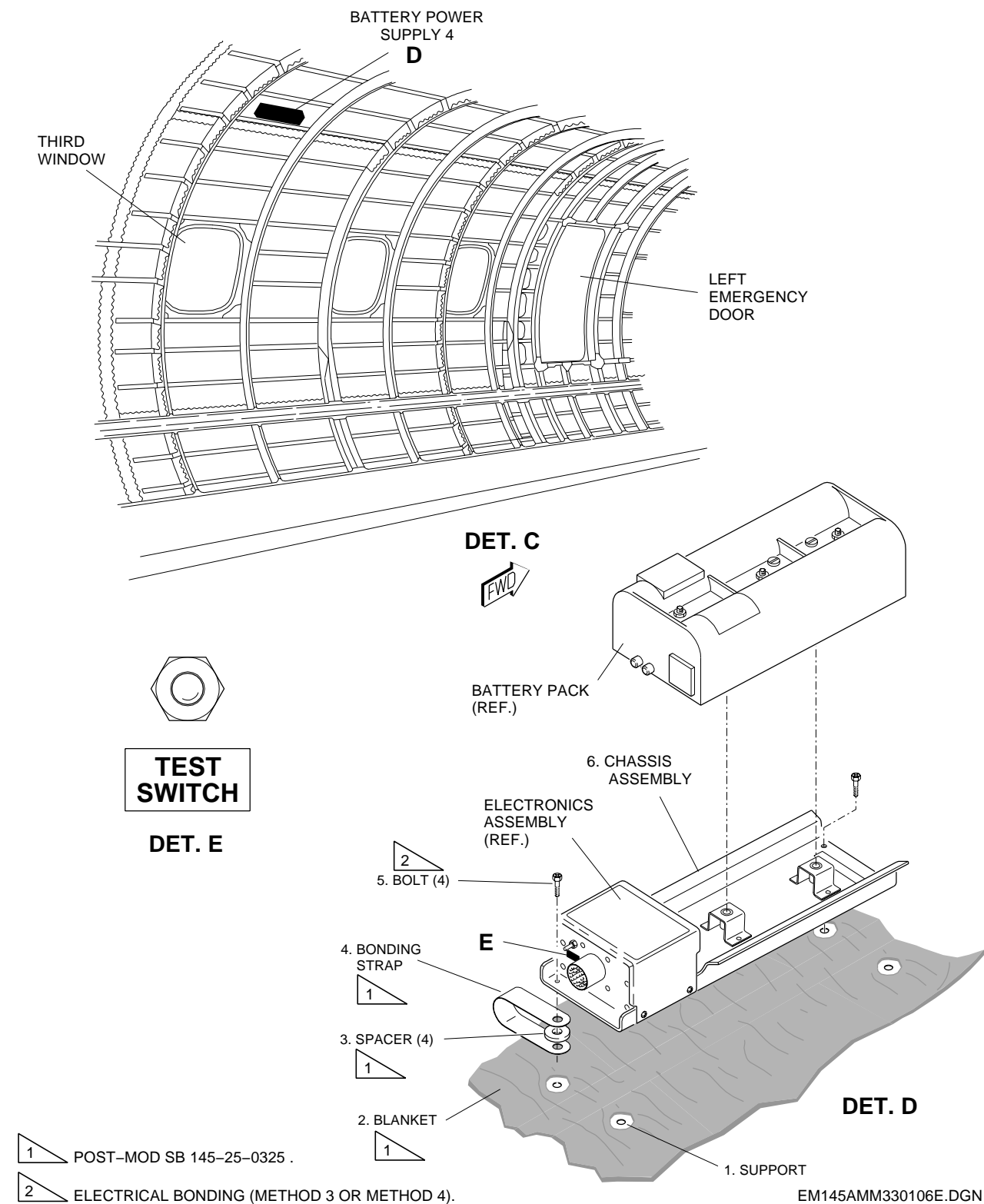


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EFFECTIVITY: ALL

Battery Power Supply - Removal/Installation

Figure 401 - Sheet 2



TASK 33-50-04-400-801-A  
EFFECTIVITY: ALL

### 3. BATTERY POWER SUPPLY - INSTALLATION

#### A. General

(1) This task gives the procedures to install the Battery Power Supply.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-13-21-700-801-A/200</a>	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
<a href="#">AMM TASK 20-13-21-910-801-A/200</a>	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
<a href="#">AMM TASK 20-13-21-910-802-A/200</a>	ELECTRICAL BONDING PROTECTION - STANDARD PROCEDURES
AMM TASK 25-21-01-400-801-A/400	-
AMM TASK 25-22-04-400-801-A/400	-
AMM TASK 25-22-04-400-802-A/400	-
AMM TASK 25-81-01-400-801-A/400	-
AMM TASK 25-81-01-400-802-A/400	-
<a href="#">AMM TASK 33-50-00-700-801-A/500</a>	EMERGENCY LIGHTS - OPERATIONAL CHECK
<a href="#">AMM TASK 33-50-04-400-802-A/400</a>	BATTERY PACK - INSTALLATION
AMM TASK 53-01-02-400-801-A/400	-
AMM TASK 53-01-02-400-802-A/400	-
<a href="#">S.B.145-25-0325</a>	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	251JF	Wing stub - LH
232		Wardrobe
234		Passenger cabin ceiling - RH
253		Passenger cabin ceiling - LH

#### 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	In the passenger cabin

I. Installation (Figure 401)

*SUBTASK 420-002-A*

- (1) (PRE-MOD. [S.B.145-25-0325](#)) To install the battery power supply, do as follows:
  - (a) Do the bonding procedures, method 3 ([AMM TASK 20-13-21-910-801-A/200](#)).
  - (b) Put the chassis assembly (6) in its installation position.
  - (c) Install the bolts (5) to attach the chassis assembly (6).
  - (d) Do the bonding test ([AMM TASK 20-13-21-700-801-A/200](#)).
  - (e) Do the bonding protection ( [AMM TASK 20-13-21-910-802-A/200](#)).
  - (f) Install the battery pack ( [AMM TASK 33-50-04-400-802-A/400](#)).
- (2) (POST-MOD. [S.B.145-25-0325](#)) To install the battery power supply, do as follows:
  - (a) Do the bonding procedures, method 4 ([AMM TASK 20-13-21-910-801-A/200](#)).  
NOTE: Use the best joining point to prepare and to do the bonding procedures.
  - (b) Put the blanket (2), bonding strap (4), spacers (3), and the chassis assembly (6) in their positions.
  - (c) Install the bolts (5) to attach the chassis assembly (6), spacers (3), and bonding strap (4) to their support (1).
  - (d) Do the bonding test ([AMM TASK 20-13-21-700-801-A/200](#)).
  - (e) Do the bonding protection ( [AMM TASK 20-13-21-910-802-A/200](#)).
  - (f) Install the battery pack ( [AMM TASK 33-50-04-400-802-A/400](#)).

J. Follow-on

*SUBTASK 842-002-A*

- (1) For Battery Power Supply 1:
  - (a) (PRE-MOD. [S.B.145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
  - (b) Install the internal access panel to the wardrobe.
- (2) For Battery Power Supply 2:
  - (a) (PRE-MOD. [S.B.145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.

- (b) Install the headliner. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (3) For Battery Power Supply 3:
  - (a) Install passenger-cabin floor panel 251JF. Refer to (AMM TASK 53-01-02-400-801-A/400) or (AMM TASK 53-01-02-400-802-A/400), as applicable.
  - (b) Install the passenger seat installed on floor panel 251JF (AMM TASK 25-21-01-400-801-A/400), if applicable.
- (4) For Battery Power Supply 4:
  - (a) (PRE-MOD. [S.B.145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
  - (b) Install the headliner. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (5) On the circuit breaker panel, close the EMERG circuit breaker and remove the DO-NOT-CLOSE tag from it (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).
- (6) Do the Emergency-Lighting-System operational check ( [AMM TASK 33-50-00-700-801-A/500](#)).



TASK 33-50-04-000-802-A

EFFECTIVITY: ALL

#### 4. BATTERY PACK - REMOVAL

##### A. General

(1) This task gives the procedures to remove the Battery Pack.

##### B. References

REFERENCE	DESIGNATION
AMM TASK 25-21-01-000-801-A/400	-
AMM TASK 25-22-04-000-801-A/400	-
AMM TASK 25-22-04-000-802-A/400	-
AMM TASK 25-81-01-000-801-A/400	-
AMM TASK 25-81-01-000-802-A/400	-
AMM TASK 53-01-02-000-801-A/400	-
AMM TASK 53-01-02-000-802-A/400	-
<a href="#">S.B.145-25-0325</a>	-

##### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	251JF	Wing stub - LH
232		Aft wardrobe
234		Passenger cabin ceiling - RH
253		Passenger cabin ceiling - LH

##### 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	In the passenger cabin

I. Preparation

SUBTASK 841-003-A

- (1) On the circuit breaker panel, open the EMERG circuit breaker and attach a DO-NOT-CLOSE tag to it (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).
- (2) For Battery Power Supply 1:
  - (a) Remove the internal access panel from the wardrobe.
  - (b) (PRE-MOD. [S.B.145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (3) For Battery Power Supply 2:
  - (a) Remove the headliner. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
  - (b) (PRE-MOD. [S.B.145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (4) Battery Power Supply 3:
  - (a) Remove the passenger seat installed on floor panel 251JF (AMM TASK 25-21-01-000-801-A/400), if applicable.
  - (b) Remove passenger-cabin floor panel 251JF. Refer to (AMM TASK 53-01-02-000-801-A/400) or (AMM TASK 53-01-02-000-802-A/400), as applicable.
- (5) Battery Power Supply 4:
  - (a) Remove the headliner. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
  - (b) (PRE-MOD. [S.B.145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.

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

SUBTASK 020-003-A

- (1) Release the two Dzus fasteners (1).

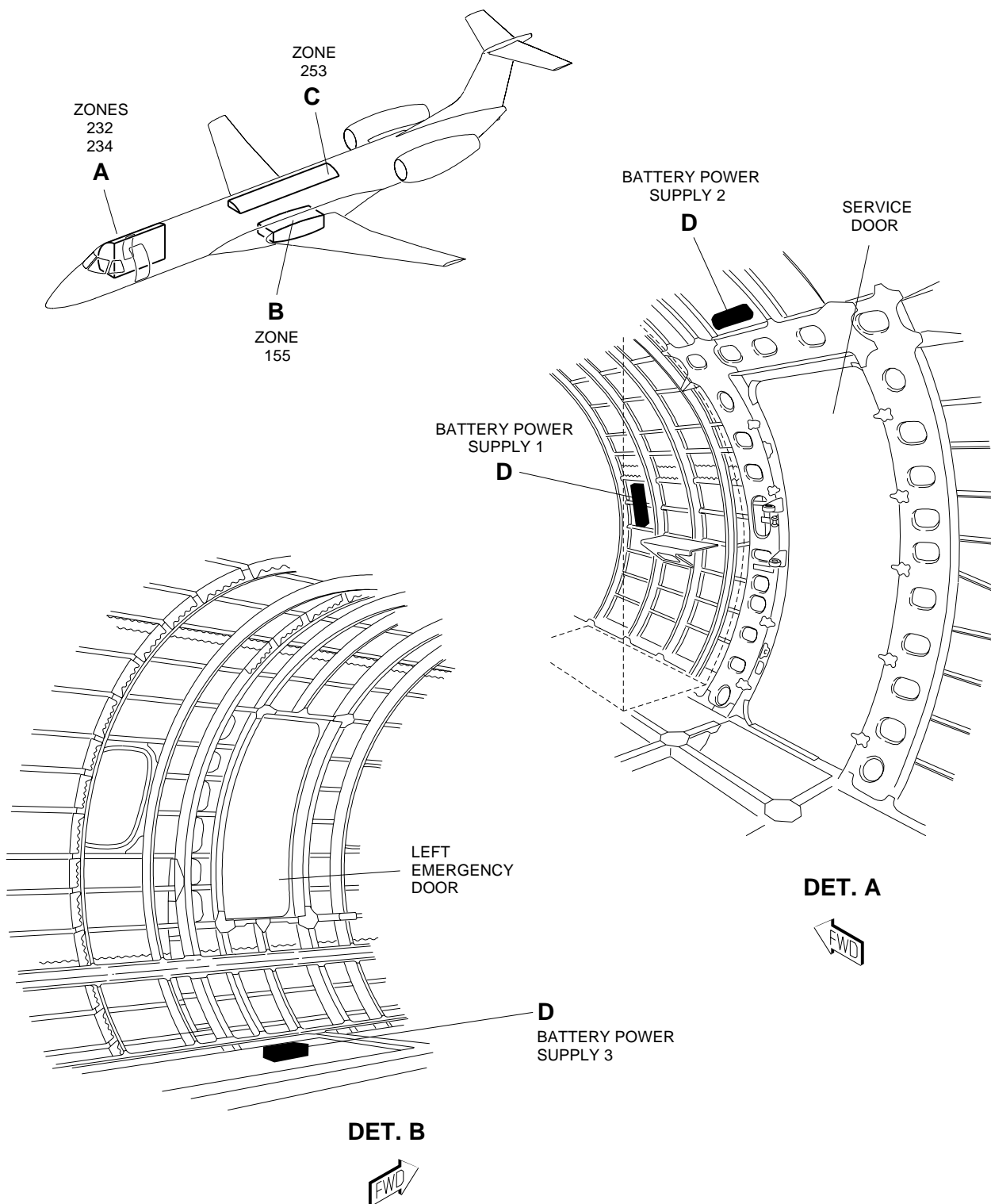
**CAUTION:** DO NOT LIFT THE BATTERY PACK (2) BEFORE YOU MOVE IT AWAY FROM THE ELECTRONIC ASSEMBLY. THIS IS TO PREVENT DAMAGE TO THE PIN-TYPE CONTACTS OF THE ELECTRONIC ASSEMBLY.

- (2) Carefully move the battery pack (2) rearward to disconnect it.
- (3) Remove the battery pack (2).

EFFECTIVITY: ALL

Battery Pack - Removal/Installation

Figure 402 - Sheet 1

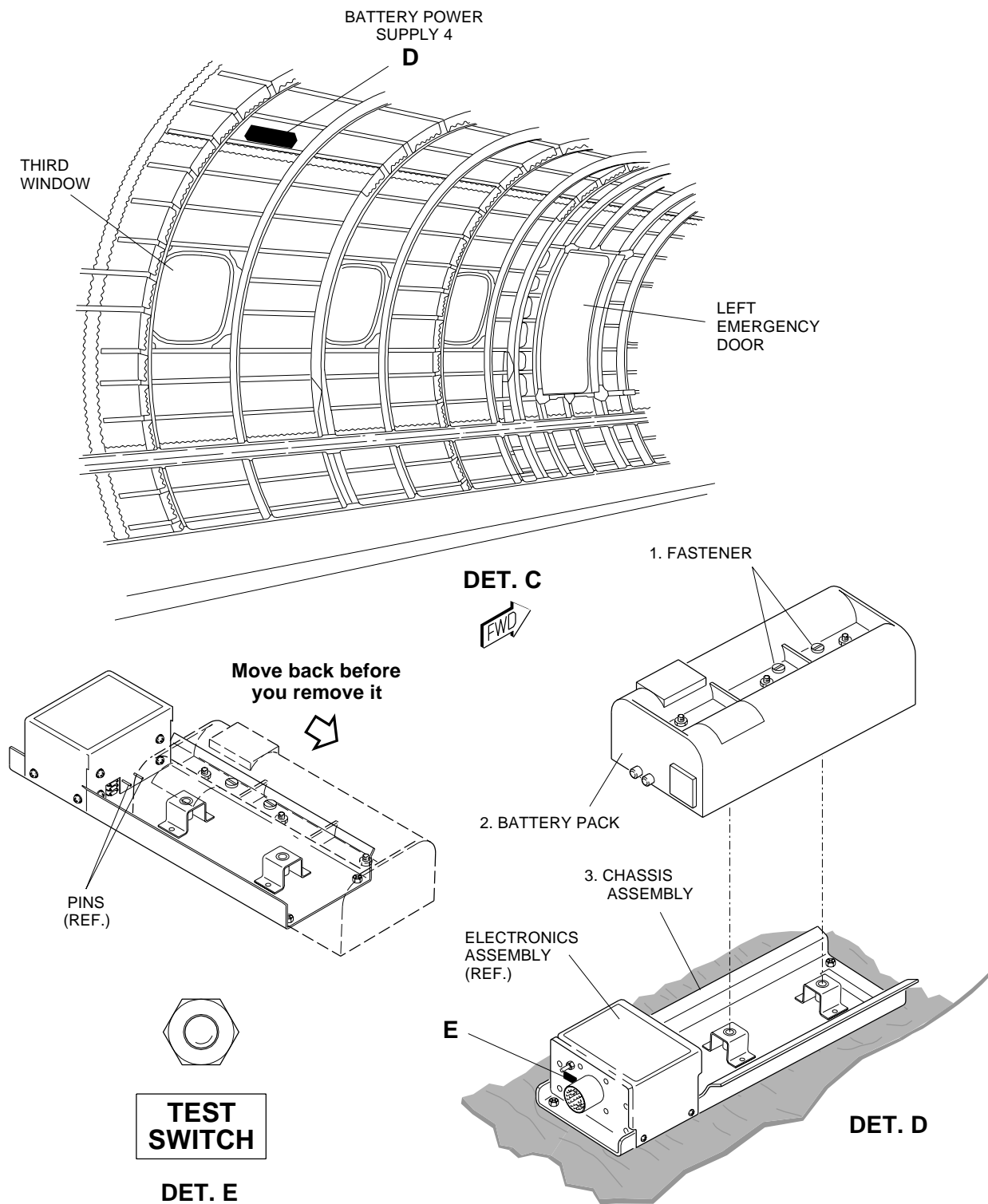


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EFFECTIVITY: ALL

Battery Pack - Removal/Installation

Figure 402 - Sheet 2



EM145AMM330921C.DGN

TASK 33-50-04-400-802-A  
EFFECTIVITY: ALL

5. BATTERY PACK - INSTALLATION

A. General

(1) This task gives the procedures to install the Battery Pack.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-21-01-400-801-A/400	-
AMM TASK 25-22-04-400-801-A/400	-
AMM TASK 25-22-04-400-802-A/400	-
AMM TASK 25-81-01-400-801-A/400	-
AMM TASK 25-81-01-400-802-A/400	-
<a href="#">AMM TASK 33-50-00-700-801-A/500</a>	EMERGENCY LIGHTS - OPERATIONAL CHECK
AMM TASK 53-01-02-400-801-A/400	-
AMM TASK 53-01-02-400-802-A/400	-
<a href="#">S.B.145-25-0325</a>	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	251JF	Wing stub - LH
232		Wardrobe
234		Passenger cabin ceiling - RH
253		Passenger cabin ceiling - LH

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	In the passenger cabin

I. Installation (Figure 402)

SUBTASK 420-003-A

**CAUTION:** DO NOT LIFT THE BATTERY PACK (2) AFTER YOU MATE THE PIN-AND-SOCKET-TYPE CONTACTS. THIS IS TO PREVENT DAMAGE TO THE PIN CONTACTS OF THE ELECTRONIC ASSEMBLY.

- (1) Put the battery pack (2) in its installation position on the chassis assembly (3).
- (2) Push the battery pack (2) forward to connect it.
- (3) Attach the two Dzus fasteners (1).

J. Follow-on

SUBTASK 842-003-A

- (1) For Battery Power Supply 1:
  - (a) (PRE-MOD. [S.B.145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
  - (b) Install the internal access panel to the wardrobe.
- (2) For Battery Power Supply 2:
  - (a) (PRE-MOD. [S.B.145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
  - (b) Install the headliner. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (3) For Battery Power Supply 3:
  - (a) Install passenger-cabin floor panel 251JF. Refer to (AMM TASK 53-01-02-400-801-A/400) or (AMM TASK 53-01-02-400-802-A/400), as applicable.
  - (b) Install the passenger seat installed on floor panel 251JF (AMM TASK 25-21-01-400-801-A/400), if applicable.
- (4) For Battery Power Supply 4:
  - (a) (PRE-MOD. [S.B.145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
  - (b) Install the headliner. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (5) On the circuit breaker panel, close the EMERG circuit breaker and remove the DO-NOT-CLOSE tag from it (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).
- (6) Do the Emergency-Lighting-System operational check ( [AMM TASK 33-50-00-700-801-A/500](#)).