

MAIN BATTERY - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the main batteries.
- B. There are two main batteries. The main batteries are installed on the left side of forward fuselage section I.
- C. You can get access to the main batteries through access door 113DL on the left side of forward fuselage section I.
- D. 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
24-36-01-000-801-A	MAIN BATTERY - REMOVAL	ALL
24-36-01-400-801-A	MAIN BATTERY - INSTALLATION	ALL

TASK 24-36-01-000-801-A

EFFECTIVITY: ALL

2. MAIN BATTERY - REMOVAL

A. General

(1) This task gives the procedure to remove the main batteries.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113DL - Main battery compartment door	Forward fuselage section I

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 055	Battery Lift	To help you to lift the main battery from/to the main battery compartment	

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	LH Forward fuselage section I

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the GPU pushbutton, on the electrical panel, installed on the overhead panel, is set at OFF (the striped bar is off).
- (2) Attach a DO-NOT-SET-TO-ON tag to the GPU pushbutton.
- (3) Make sure that the BATT 1 and BATT 2 switches, on the electrical panel, installed on the overhead panel, are set at OFF.
- (4) Attach a DO-NOT-SET-TO-AUTO tag to the BATT 1 and BATT 2 switches.
- (5) Open main battery compartment door 113DL (AMM MPP 06-41-01/100).

J. Removal (Figure 401)

SUBTASK 020-002-A

- (1) Loosen the clamp (7) of the front ventilation hose (8).
- (2) Disconnect the front ventilation hose (8) from the main battery (1).
- (3) Disconnect the clamps (9) that hold the power connector cables of the main battery 1.
- (4) Cut the lockwire (11) from the power connector (12).
- (5) Disconnect the power connector (12) from the main battery (1).
- (6) To prevent damage to the power connector of main battery 1, do as follows, if you will remove only main battery 2:
 - (a) Cut the lockwire (11) from the power connector (12) from the main battery 1.
 - (b) Disconnect the power connector (12) from the main battery 1.
- (7) Disconnect the connector of the temperature sensors (6) from the main battery (1).
- (8) Loosen the self-locking retainers (10).
- (9) Loosen the clamp (2) of the upper ventilation hose (3).
- (10) Disconnect the upper ventilation hose (3) from the main battery (1).
- (11) Pull the main battery (1) to get access to the clamp (4) of the upper ventilation hose (5).
- (12) Loosen the clamp (4) of the upper ventilation hose (5).
- (13) Disconnect the upper ventilation hose (5) from the main battery (1).

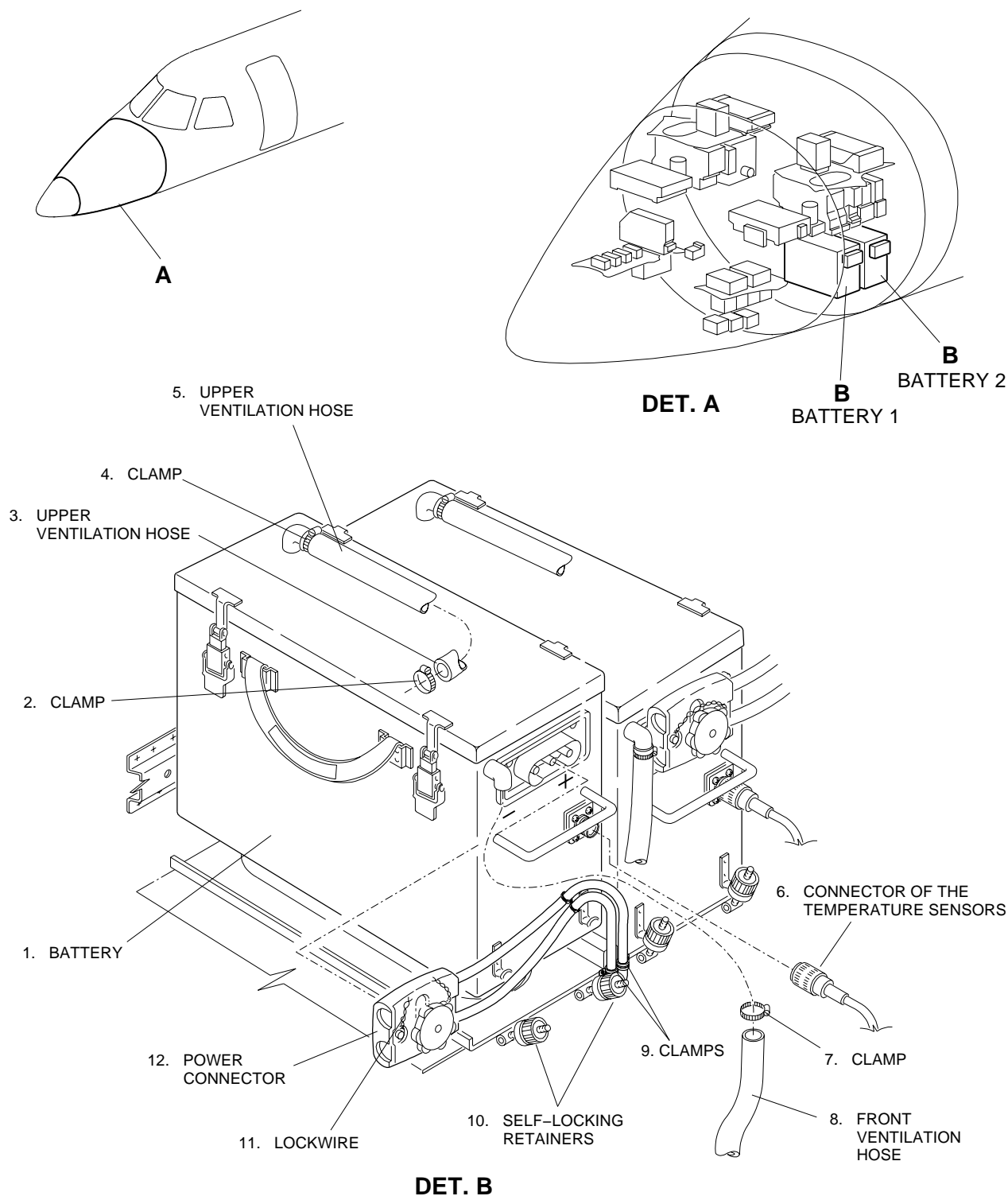
WARNING: THE BATTERY WEIGHT IS 37,0KG (81.571 LB). EMBRAER DOES NOT HAVE TECHNICAL OBJECTION TO THE PERFORMANCE OF THIS TASK WITHOUT GSE 055. BE VERY CAREFUL WHEN YOU MOVE OR LIFT THE BATTERY. IF YOU DO NOT OBEY THIS INSTRUCTIONS, INJURY TO PEOPLE AND/OR DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (14) Use GSE 055 (Battery Lift) to remove the main battery (1).

EFFECTIVITY: ALL

Main Batteries - Removal/Installation

Figure 401



EM145AMM240012C.DGN

TASK 24-36-01-400-801-A
EFFECTIVITY: ALL

3. MAIN BATTERY - INSTALLATION

A. General

(1) This task gives the procedure to install the main batteries.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 24-36-00-700-801-A/500	MAIN BATTERY SYSTEM - OPERATIONAL TEST

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113DL - Main battery compartment door	Forward fuselage section I

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 055	Battery Lift	To help you to remove/install the main battery from/to the main battery compartment	

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	LH Forward fuselage section I

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Connect the upper ventilation hose (5) to the main battery (1).
- (2) Tighten the clamp (4) of the upper ventilation hose (5).

WARNING: THE BATTERY WEIGHT IS 37,0KG (81.571 LB). EMBRAER DOES NOT HAVE TECHNICAL OBJECTION TO THE PERFORMANCE OF THIS TASK WITHOUT GSE 055. BE VERY CAREFUL WHEN YOU MOVE OR LIFT THE BATTERY. IF YOU DO NOT OBEY THIS INSTRUCTIONS, INJURY TO PEOPLE AND/OR DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (3) Use GSE 055 (Battery Lift) to put the main battery (1) back in the compartment.
- (4) Connect the upper ventilation hose (3) to the main battery (1).
- (5) Tighten the clamp (2) of the upper ventilation hose (3).
- (6) Push the main battery (1) into position.
- (7) Tighten the self-retainers (10).
- (8) Connect the front ventilation hose (8) to the main battery (1).
- (9) Tighten the clamp (7) of the front ventilation hose (8).
- (10) Connect the connector of the temperature sensors (6) to the main battery (1).
- (11) Connect the power connector (12) to the main battery (1).
- (12) Use a lockwire (11) to safety the power connector (12).
- (13) Connect the power connector (12) of the other main battery, if applicable.
- (14) Use a lockwire (11) to safety the power connector (12) of the other main battery, if applicable.
- (15) Connect the clamps (9) to hold the power connector cables of the main battery 1.

J. Follow-on

SUBTASK 842-002-A

- (1) Close main battery compartment door 113DL (AMM MPP 06-41-01/100).
- (2) Remove the DO-NOT-SET-TO-ON tag from the GPU pushbutton.
- (3) Remove the DO-NOT-SET-TO-AUTO tag from the BATT 1 and BATT 2 switches.
- (4) Do the operational test of the main battery system ([AMM TASK 24-36-00-700-801-A/500](#)).