



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

COCKPIT DC/DC CONVERTER - REMOVAL/INSTALLATION

EFFECTIVITY: FOR AIRCRAFT WITH DC/DC POWER CONVERSION SYSTEM

1. General

- A. This section gives the procedures to remove and install the Cockpit DC/DC Converter.
- 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
24-37-01-000-801-A	COCKPIT DC/DC CONVERTER - REMOVAL	FOR AIRCRAFT WITH DC/DC POWER CONVERSION SYSTEM
24-37-01-400-801-A	COCKPIT DC/DC CONVERTER - INSTALLATION	FOR AIRCRAFT WITH DC/DC POWER CONVERSION SYSTEM



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TASK 24-37-01-000-801-A

EFFECTIVITY: FOR AIRCRAFT WITH DC/DC POWER CONVERSION SYSTEM

2. COCKPIT DC/DC CONVERTER - REMOVAL

A. General

- (1) This task gives the procedures to remove the Cockpit DC/DC Converter.
- (2) The Cockpit DC/DC Converter is installed on the support between frames 10 and 12, below the cockpit floor on the RH side.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 25-11-01-000-801-A/400	PILOT SEAT - REMOVAL
AMM TASK 53-01-01-000-801-A/400	COCKPIT FLOOR PANELS - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
124	222BF	Cockpit RH/Floor panel

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	Area below the cockpit floor, on the RH side

I. Preparation

SUBTASK 841-003-A

- (1) On the circuit breaker panel, open the Mobile Phone Charger circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Remove the copilot seat ([AMM TASK 25-11-01-000-801-A/400](#)).
- (3) Remove floor panel 222BF (AMM MPP 06-41-02/100) and ([AMM TASK 53-01-01-000-801-A/400](#)) to get access to the Cockpit DC/DC Converter.



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

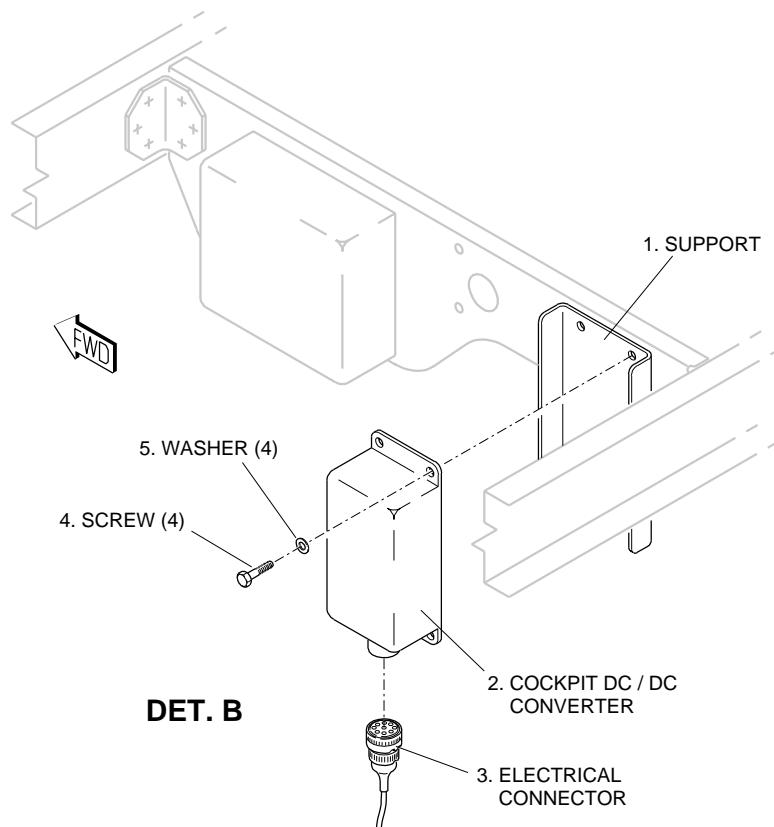
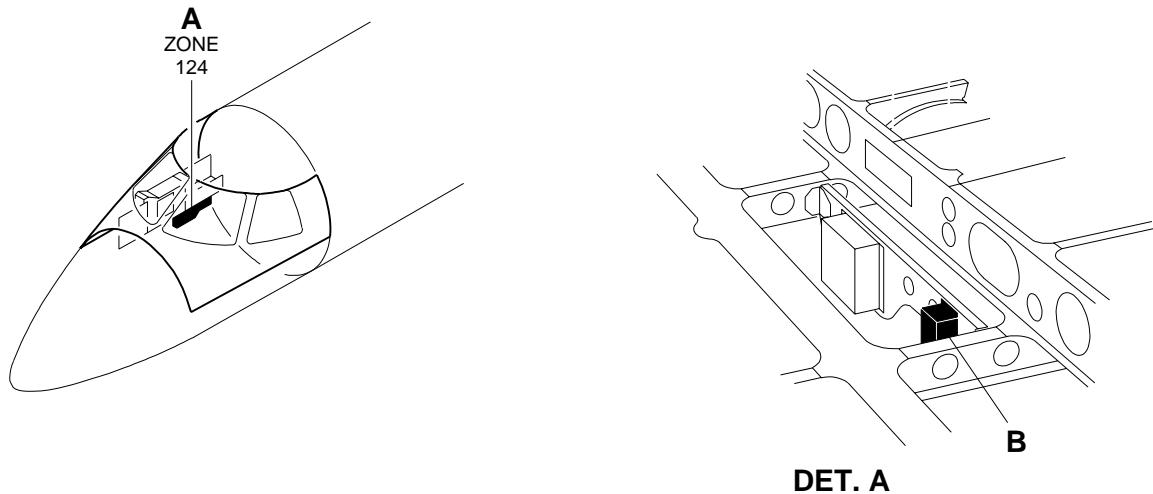
SUBTASK 020-003-A

- (1) Disconnect the electrical connector (3) from the Cockpit DC/DC Converter (2).
- (2) Remove the screws (4) and washers (5) that attach the Cockpit DC/DC Converter (2) to the support (1).
- (3) Remove the Cockpit DC/DC Converter (2) from the support (1).
- (4) Install the protection cap on the electrical connector (3).

EFFECTIVITY: FOR AIRCRAFT WITH DC/DC POWER CONVERSION SYSTEM

Cockpit DC/DC Converter - Removal/Installation

Figure 401



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TASK 24-37-01-400-801-A

EFFECTIVITY: FOR AIRCRAFT WITH DC/DC POWER CONVERSION SYSTEM

3. COCKPIT DC/DC CONVERTER - INSTALLATION

A. General

- (1) This task gives the procedures to install the Cockpit DC/DC Converter.
- (2) The Cockpit DC/DC Converter is installed on the support between frames 10 and 12 below the cockpit floor on the RH side.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 24-37-00-700-801-A/500	-
AMM TASK 25-11-01-400-801-A/400	PILOT SEAT - INSTALLATION
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 53-01-01-400-801-A/400	COCKPIT FLOOR PANELS - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
124	222BF	Cockpit RH/Floor panel

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	Area below the cockpit floor, on the RH side

I. Installation (Figure 401)

SUBTASK 420-003-A

- (1) Remove the protection cap from the electrical connector (3).
- (2) Put the Cockpit DC/DC Converter (2) in position and install the washers (5) and screws (4) that attach the Cockpit DC/DC Converter (2) to the support (1).



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- (3) Connect the electrical connector (3) to the Cockpit DC/DC Converter (2).

J. Follow-on

SUBTASK 842-003-A

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).

- (2) Close floor panel 222BF (AMM MPP 06-41-02/100) and (AMM TASK 53-01-01-400-801-A/400).

- (3) Install the copilot seat ([AMM TASK 25-11-01-400-801-A/400](#)).

- (4) On the circuit breaker panel, close the Mobile Phone Charger circuit breaker and remove the DO-NOT-CLOSE tag from it.

- (5) Do the DC/DC Power Conversion System - Functional Test (AMM TASK 24-37-00-700-801-A/500).