



AIRCRAFT MAINTENANCE MANUAL

ESSENTIAL BUS CONTACTOR (EBC) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the Essential Bus Contactor (EBC).
- B. EBC 1 is installed in the left electrical-power control/distribution box.
- C. EBC 2 is installed in the right electrical-power control/distribution box.
- D. You can get access to EBC 1 through access panel 223UZ on the left side of the Cockpit in Forward Fuselage Section II.
- E. You can get access to EBC 2 through access panel 224NZ on the right side of the Cockpit in Forward Fuselage Section II.
- F. 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
24-60-03-000-801-A	ESSENTIAL BUS CONTACTOR (EBC) - REMOVAL	ALL
24-60-03-400-801-A	ESSENTIAL BUS CONTACTOR (EBC) - IN-STALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 24-60-03-000-801-A

EFFECTIVITY: ALL

2. ESSENTIAL BUS CONTACTOR (EBC) - REMOVAL

A. General

- (1) This task gives the procedures to remove the Essential Bus Contactor (EBC).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223UZ	Cockpit - LH
224	224NZ	Cockpit - RH

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 in forward fuselage section II

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the GPU pushbutton, on the electrical panel, on the overhead panel, is in the OFF position (The striped bar is off).
- (2) Make sure that the BATT 1 and BATT 2 switches, on the electrical panel, on the overhead panel, are in the OFF position.
- (3) Attach a DO-NOT-SET-ON tag to the GPU pushbutton.
- (4) Remove the life vest compartment and open access panel 223UZ ([AMM MPP 06-41-03/100](#)) to remove EBC 1.
- (5) Open access panel 224NZ ([AMM MPP 06-41-03/100](#)) to remove EBC 2.



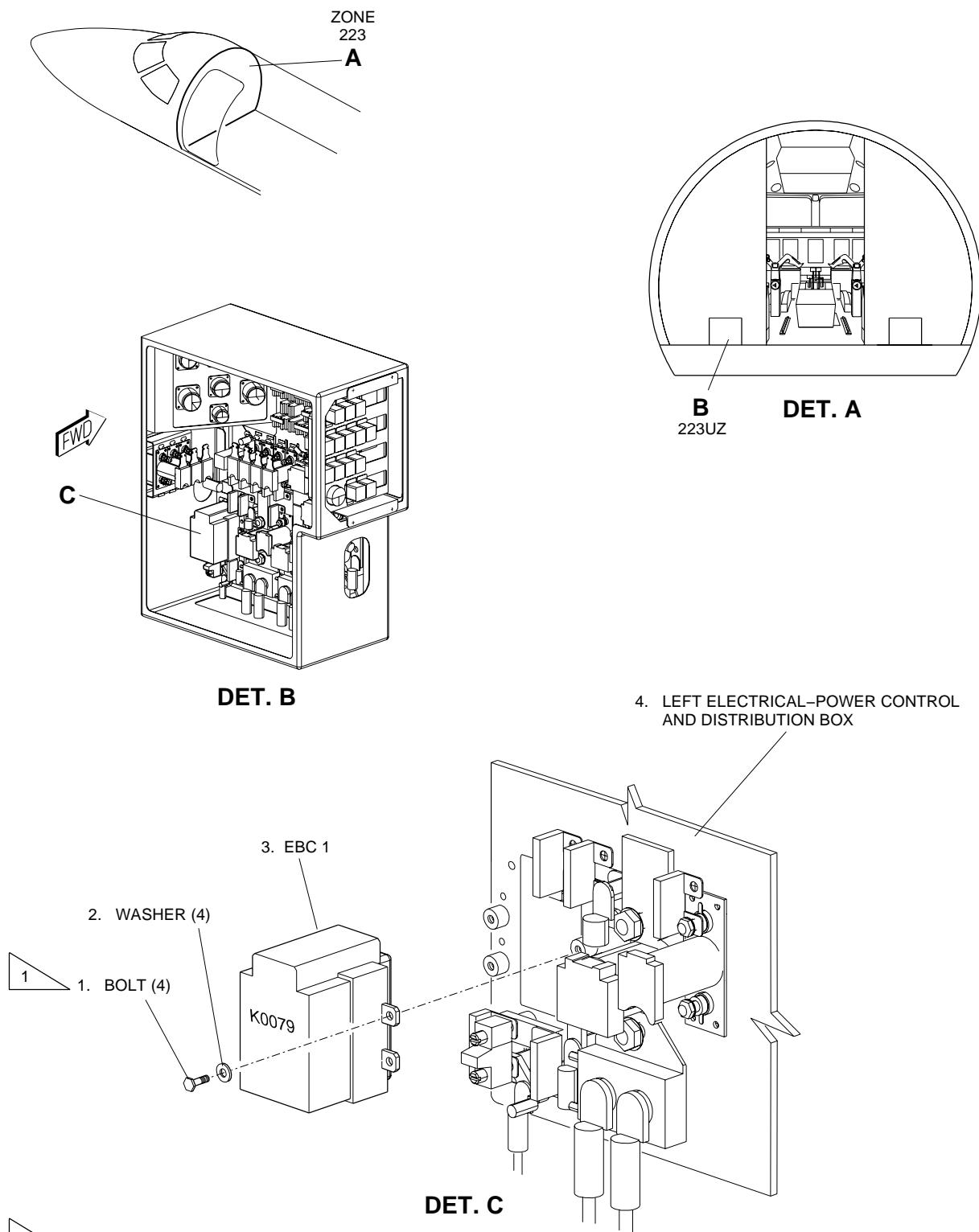
EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

J. Removal

SUBTASK 020-002-A

- (1) Remove EBC 1 as follows ([Figure 401](#)):
 - (a) Remove the four bolts (1) and four washers (2) which attach EBC 1 (3) to the left electrical-power control/distribution box (4).
 - (b) Remove EBC 1 (3).
- (2) Remove EBC 2 as follows ([Figure 402](#)):
 - (a) Remove the four bolts (1) and four washers (2) which attach EBC 2 (3) to the right electrical-power control/distribution box (4).
 - (b) Remove EBC 2 (3).

EFFECTIVITY: ALL
Essential Bus Contactor 1 (EBC 1) - Removal/Installation
Figure 401


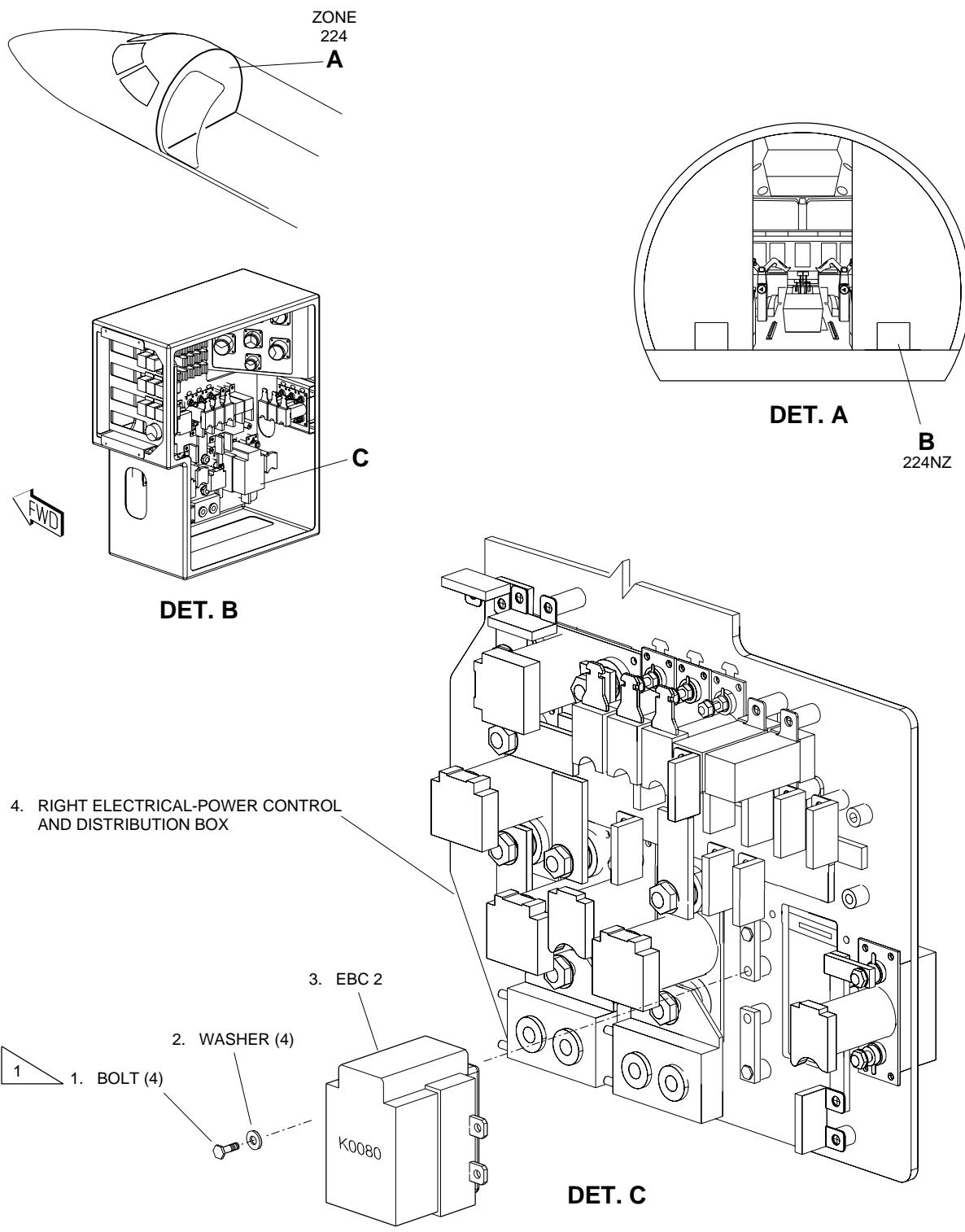
TORQUE : 1.4 TO 1.7 Nm (13.0 TO 15.5 lbf.in)

EM145AMM240847A.DGN

EFFECTIVITY: ALL

Essential Bus Contactor 2 (EBC 2) - Removal/Installation

Figure 402



1 TORQUE : 1.4 TO 1.7 Nm (13.0 TO 15.5 lbf.in)

145AMM240099.MCE C



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 24-60-03-400-801-A

EFFECTIVITY: ALL

3. ESSENTIAL BUS CONTACTOR (EBC) - INSTALLATION

A. General

- (1) This task gives the procedure to install the Essential Bus Contactor (EBC).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 24-60-00-700-801-A/500	ELECTRICAL EMERGENCY TRANSFER CIRCUIT - OPERATIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223UZ	Cockpit - LH
224	224NZ	Cockpit - RH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (For the torque range, refer to Figures 401 and 402)	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	Cockpit in forward fuselage section II

I. Installation

SUBTASK 420-002-A

- (1) Install EBC 1 as follows (Figure 401):
- Put EBC 1 (3) in its installation position.
 - Tighten the four bolts (1) and four washers (2) which attach EBC 1 (3) to the left electrical-power control/distribution box (4).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (2) Install EBC 2 as follows (Figure 402):
 - (a) Put EBC 2 (3) in its installation position.
 - (b) Tighten the four bolts (1) and four washers (2) which attach EBC 2 (3) to the right electrical-power control/distribution box (4).

J. Follow-on

SUBTASK 842-002-A

- (1) Close access panel 223UZ or access panel 224NZ ([AMM MPP 06-41-03/100](#)) as applicable.
- (2) Remove the DO-NOT-SET-ON tag from the GPU pushbutton.
- (3) Do the Operational Check of the Electrical Emergency Transfer Circuit ([AMM TASK 24-60-00-700-801-A/500](#)).

