



AIRCRAFT  
MAINTENANCE MANUAL

**ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - REMOVAL/INSTALLATION**

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the Essential Interconnection Contactor (EIC).
- B. The EIC is installed on the right electrical-power control/distribution box.
- C. You can get access to the EIC through access panel 224NZ on the right side of the Cockpit in Forward Fuselage Section II.
- 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
24-60-04-000-801-A	ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - REMOVAL	ALL
24-60-04-400-801-A	ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - INSTALLATION	ALL



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TASK 24-60-04-000-801-A

EFFECTIVITY: ALL

2. ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - REMOVAL

A. General

- (1) This task gives the procedure to remove the EIC.

B. References

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

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
220	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 - RH

I. Preparation

SUBTASK 841-002-A

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



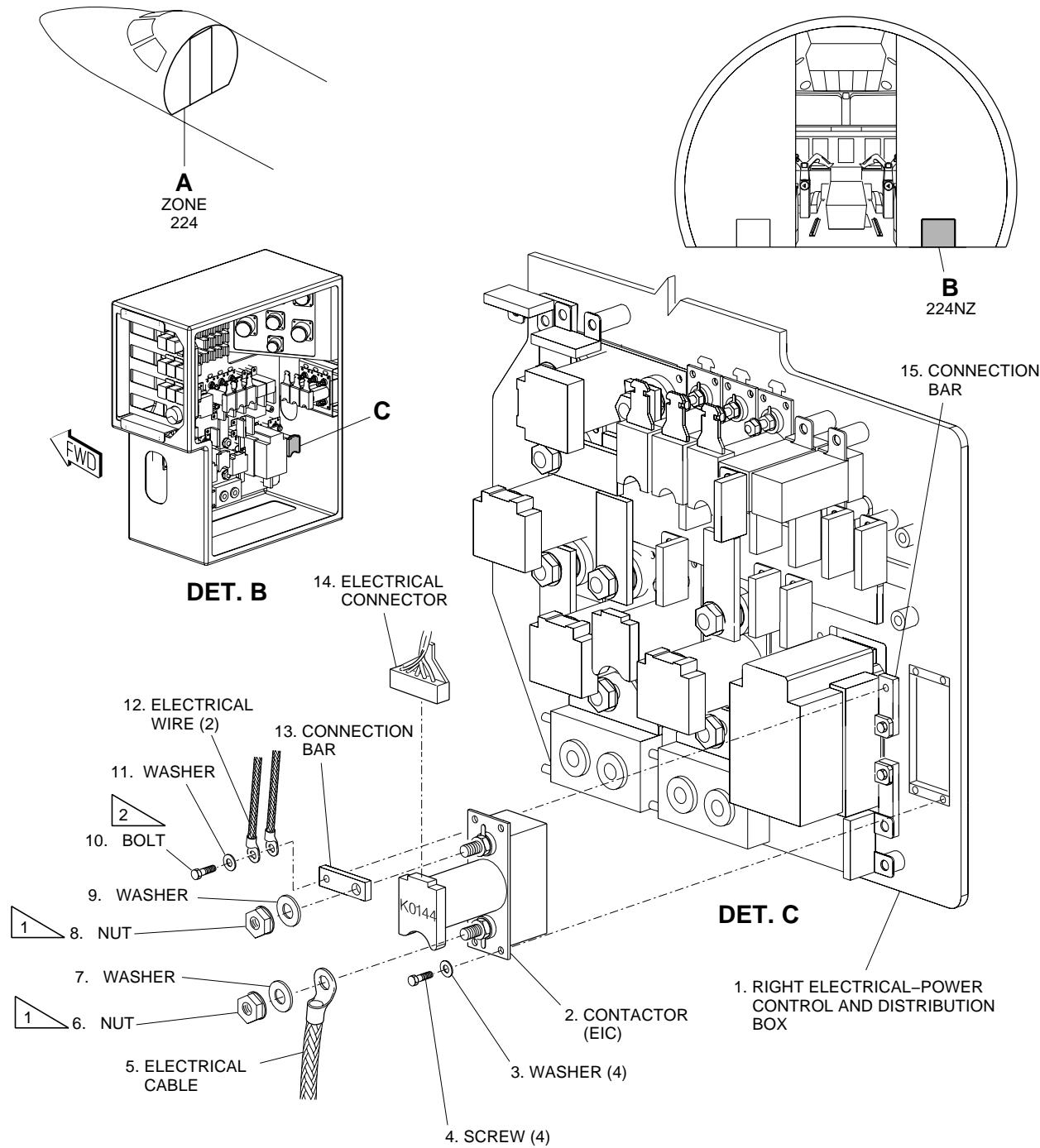
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J. Removal ([Figure 401](#))

SUBTASK 020-002-A

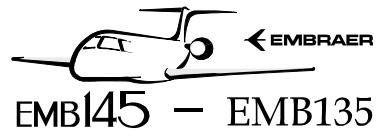
- (1) Disconnect the electrical connector (14) from EIC (2).
- (2) Remove the bolt (10) and washer (11) which attach the connection bar (13) and the two electrical wires (12) to the connection bar (15).
- (3) Release the two electrical wires (12).
- (4) Remove the nut (8) and washer (9) which attach the connection bar (13) to EIC (2).
- (5) Remove the connection bar (13).
- (6) Remove the nut (6) and washer (7) from the EIC (2).
- (7) Release the electrical cable (5).
- (8) Remove the four screws (4) and four washers (3) which attach the EIC (2) to the right electrical-power control/distribution box (1).
- (9) Remove EIC (2).

**EFFECTIVITY: ALL**
**Essential Interconnection Contactor (EIC) - Removal/Installation**
**Figure 401**


 1 TORQUE: 3.8 TO 4.6 Nm (34 TO 41 lbf.in).

 2 TORQUE: 6.7 TO 7.9 N.m (60 TO 70 lbf.in).

**EM145AMM240848A.DGN**



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TASK 24-60-04-400-801-A

EFFECTIVITY: ALL

3. ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - INSTALLATION

A. General

- (1) This task gives the procedure to install the EIC.

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
220	224NZ	Cockpit - RH

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	Cockpit - RH

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put EIC (2) in its installation position.
- (2) Tighten the four screws (4) and four washers (3) which attach the EIC (2) to the right electrical-power control/distribution box (1).
- (3) Put the connection bar (13) in its installation position.
- (4) Tighten the nut (8) and washer (9) which attach the connection bar (13) to EIC (2).

- (5) Connect the two electrical wires (12).
- (6) Tighten the bolt (10) and washer (11) which attach the connection bar (13) and the two electrical wires (12) to the connection bar (15).
- (7) Connect the electrical cable (5) to the EIC (2).
- (8) Tighten the nut (6) and washer (7) which attach the EIC (2) to the right electrical-power control/distribution box (1)
- (9) Connect the electrical connector (14).

J. Follow-on

**SUBTASK 842-002-A**

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