

## 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
<a href="#">24-60-04-000-801-A</a>	ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - REMOVAL	ALL
<a href="#">24-60-04-400-801-A</a>	ESSENTIAL INTERCONNECTION CONTACTOR (EIC) - INSTALLATION	ALL

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
<a href="#">AMM MPP 06-41-03/100</a>	- 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](#)).

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

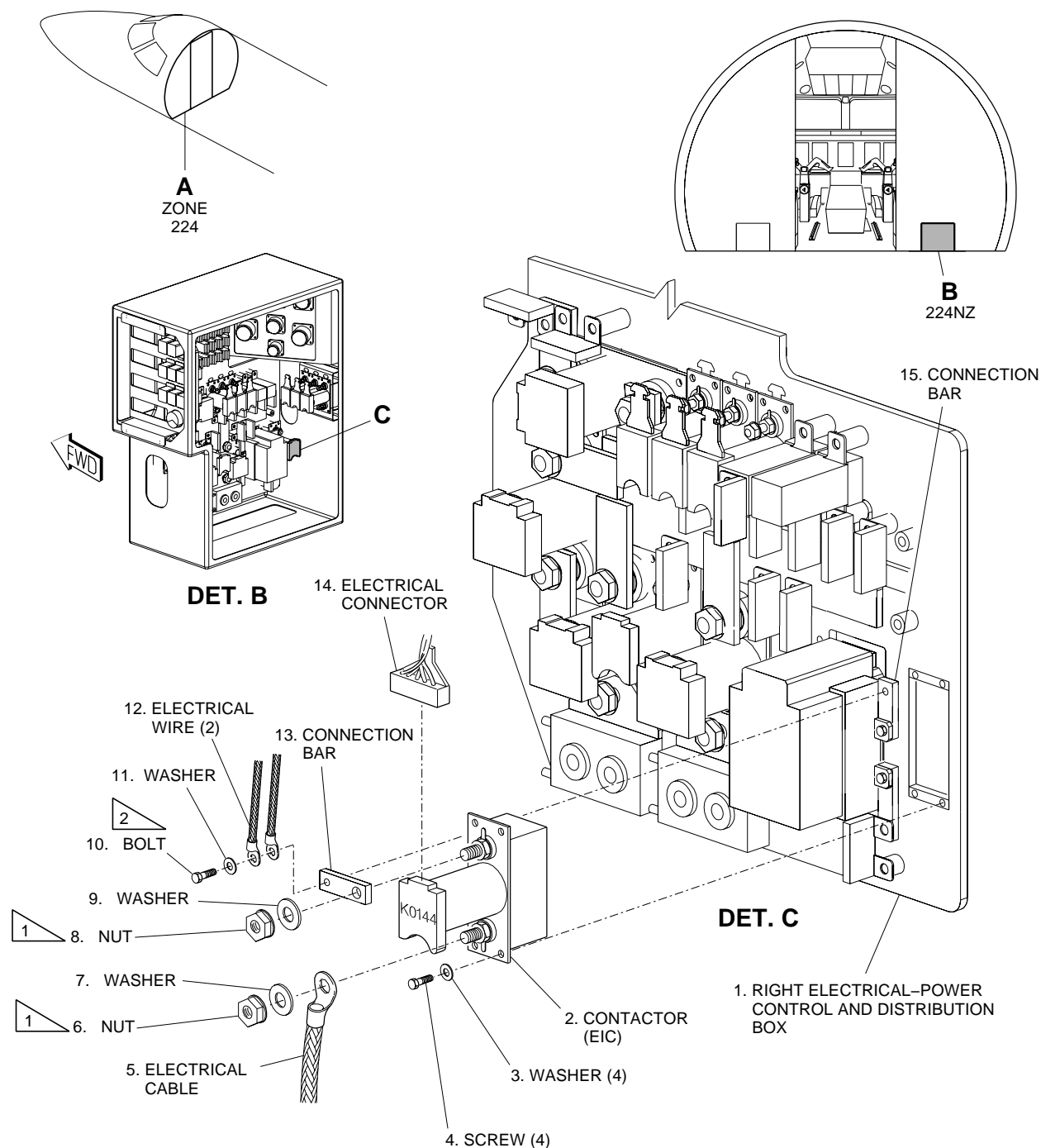
*SUBTASK 020-002-A*

- (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

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](#)).