



AIRCRAFT MAINTENANCE MANUAL

FUSES - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install fuses.
- B. This procedure is not applicable to a specific fuse removal and installation.
- C. 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
20-13-08-000-801-A	FUSES - REMOVAL (TYPICAL)	ALL
20-13-08-400-801-A	FUSES - INSTALLATION (TYPICAL)	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 20-13-08-000-801-A

EFFECTIVITY: ALL

2. FUSES - REMOVAL (TYPICAL)

A. General

- (1) This task gives the typical procedures to remove fuses.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM SDS 24-35-00/1	
AMM SDS 24-40-00/1	

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
-	-	Compartment or area where the related fuse is installed

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	Compartment or area where the related fuse is installed

I. Preparation

SUBTASK 841-002-A

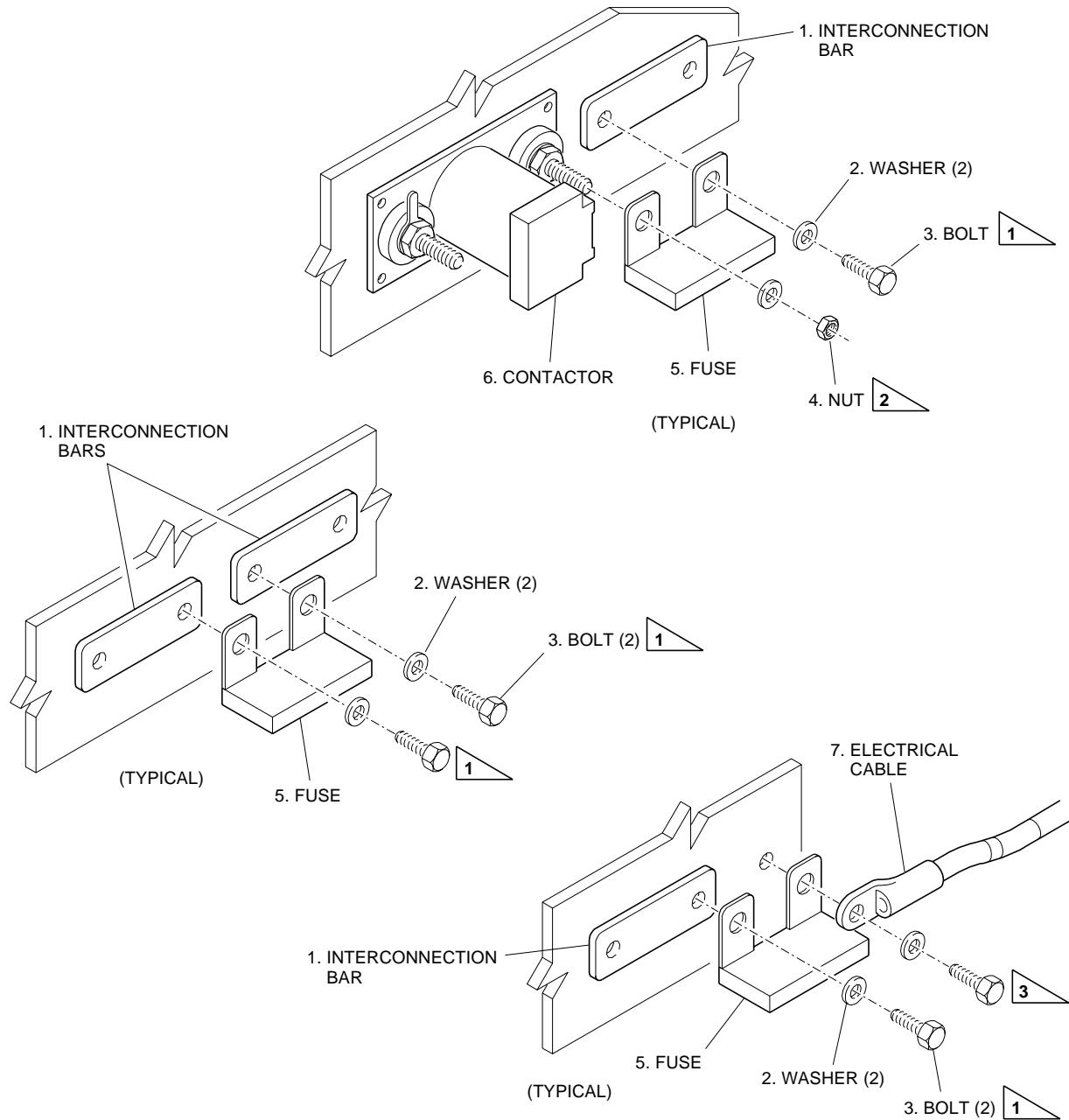
- (1) Make sure that the DC GPU pushbutton, on the electrical panel, on the overhead panel, is set at OFF ([AMM SDS 24-40-00/1](#)).
- (2) Attach a DO-NOT-SET-TO-ON tag to the DC GPU pushbutton.
- (3) Make sure that the BACKUP pushbutton, on the electrical panel, on the overhead panel, is set at OFF ([AMM SDS 24-35-00/1](#)).
- (4) Attach a DO-NOT-SET-TO-ON tag to the BACKUP pushbutton.

- (5) Make sure that the BATT 1 and BATT 2 switches, on the electrical panel, on the overhead panel, are set at OFF.
- (6) Attach a DO-NOT-SET-TO-AUTO tag to the BATT 1 and BATT 2 switches.
- (7) Make sure that the engines and APU are not in operation.
- (8) Open main-battery compartment door 113DL (AMM MPP 06-41-01/100).
- (9) At the main battery compartment, do these steps:
 - (a) Cut the lockwire from the power connectors of the main batteries.
 - (b) Disconnect the power connectors from the main batteries.
- (10) Get access to the compartment or area where the related fuse is installed.

J. Removal (Figure 401)

SUBTASK 020-002-A

- (1) To remove the fuses that are attached to a contactor and to an interconnection bar, do as follows:
 - Remove the nut (4) and the washer (2) that attach the fuse (5) to the contactor (6).
 - Remove the bolt (3) and the washer (2) that attach the fuse (5) to the interconnection bar (1).
- (2) To remove the fuses that are attached to interconnection bars, do as follows:
 - Remove the bolts (3) and the washers (2) that attach the fuse (5) to the interconnection bars (1).
- (3) To remove the fuses that are attached to electrical cable(s) and to an interconnection bar, do as follows:
 - Remove the bolt (3) and the washer (2) that attach the fuse (5) to the electrical cable(s) (7).
 - Remove the bolt (3) and the washer (2) that attach the fuse (5) to the interconnection bar (1).

EFFECTIVITY: ALL
Fuses - Removal/Installation (Typical)
Figure 401


1 IF THE END OF THE FUSE IS ATTACHED TO AN INTERCONNECTION BAR ONLY,
APPLY TORQUE 6.78 TO 7.91 N.m (60 TO 70 lb.in)

2 IF THE END OF THE FUSE IS ATTACHED TO A CONTACTOR (OR OTHER
COMPONENT), REFER TO THE INSTALLATION TASK OF THIS COMPONENT TO
APPLY THE CORRECT TORQUE.

3 IF THE END OF THE FUSE IS ATTACHED TO ELECTRICAL CABLE(S), APPLY
TORQUE 6.78 TO 7.91 N.m (60 TO 70 lb.in).

EM145AMM200054A.DGN



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 20-13-08-400-801-A

EFFECTIVITY: ALL

3. FUSES - INSTALLATION (TYPICAL)

A. General

(1) This task gives the typical procedures to install fuses.

B. References

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

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
-	-	Compartment or area where the related fuse is installed

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (For the torque range, refer to Figure 401)	To torque the bolts or nuts correctly	

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	Compartment or area where the related fuse is installed

I. Installation (Figure 401)

SUBTASK 420-002-A

- WARNING:** • DO NOT ENERGIZE THE AIRCRAFT. MAKE SURE THAT ALL PUSHBUTTONS AND SWITCHES SET TO THE OFF POSITION, IN THE PREPARATION SUBTASK, ARE KEPT IN THIS POSITION.
- MAKE SURE THAT THE ENGINES AND APU ARE NOT IN OPERATION.

(1) To install the fuses that are attached to a contactor and to an interconnection bar, do as follows:

- Put the fuse (5) in position.
- Install the washer (2) and the nut (4) that attach the fuse (5) to the contactor (6).
- Install the washer (2) and the bolt (3) that attach the fuse (5) to the interconnection bar (1).
- Tighten the bolt (3) and the nut (4) to the torque specified in (Figure 401).

- WARNING:** • DO NOT ENERGIZE THE AIRCRAFT. MAKE SURE THAT ALL PUSHBUTTONS AND SWITCHES SET TO THE OFF POSITION, IN THE PREPARATION SUBTASK, ARE KEPT IN THIS POSITION.
- MAKE SURE THAT THE ENGINES AND APU ARE NOT IN OPERATION.

(2) To install the fuses that are attached to interconnection bars, do as follows:

- Put the fuse (5) in position.
- Install the washers (2) and the bolts (3) that attach the fuse (5) to the interconnection bars (1).
- Tighten the bolts (3) to the torque specified in (Figure 401).

- WARNING:** • DO NOT ENERGIZE THE AIRCRAFT. MAKE SURE THAT ALL PUSHBUTTONS AND SWITCHES SET TO THE OFF POSITION, IN THE PREPARATION SUBTASK, ARE KEPT IN THIS POSITION.
- MAKE SURE THAT THE ENGINES AND APU ARE NOT IN OPERATION.

(3) To install the fuses that are attached to electrical cable(s) and to an interconnection bar, do as follows:

- Put the fuse (5) in position.
- Install the washer (2) and the bolt (3) that attach the fuse (5) to the electrical cable(s) (7).
- Install the washer (2) and the bolt (3) that attach the fuse (5) to the interconnection bar (1).



AIRCRAFT MAINTENANCE MANUAL

- Tighten the bolts (3) to the torque specified in (Figure 401).

J. Follow-on

SUBTASK 842-002-A

- (1) At the main battery compartment, do these steps:
 - (a) Connect the power connectors to the main batteries.
 - (b) Use a lockwire to lock the power connectors of the main batteries.
- (2) Close main-battery compartment door 113DL (AMM MPP 06-41-01/100).
- (3) Remove the DO-NOT-SET-TO-AUTO tag from the BATT 1 and BATT 2 switches.
- (4) Remove the DO-NOT-SET-TO-ON tag from the DC GPU pushbutton.
- (5) Remove the DO-NOT-SET-TO-ON tag from the BACKUP pushbutton.
- (6) Do the operational test of the systems which are supplied through the related fuse.
- (7) Close the access to the compartment where the related fuse is installed.

