



AIRCRAFT
MAINTENANCE MANUAL

FUEL CONDITIONING UNIT (FCU) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the fuel conditioning unit.
- 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
28-41-01-000-801-A	FUEL CONDITIONING UNIT - REMOVAL	ALL
28-41-01-400-801-A	FUEL CONDITIONING UNIT - INSTALLA- TION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 28-41-01-000-801-A

EFFECTIVITY: ALL

2. FUEL CONDITIONING UNIT - REMOVAL

A. General

- (1) Obey the instructions that follow to remove the fuel conditioning unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	221GF	Cockpit
124	221GF	Cockpit

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

I. Preparation

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) On the circuit breaker panel, open the circuit breakers that follow and attach a DO-NOT-CLOSE tag to them:
- REFUELING 1/2/3.
 - FUEL QTY IND 1/2.
 - START 1/2.



AIRCRAFT
MAINTENANCE MANUAL

- (2) Open door 221GF (AMM MPP 06-41-02/100) to get access to the fuel conditioning unit.

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

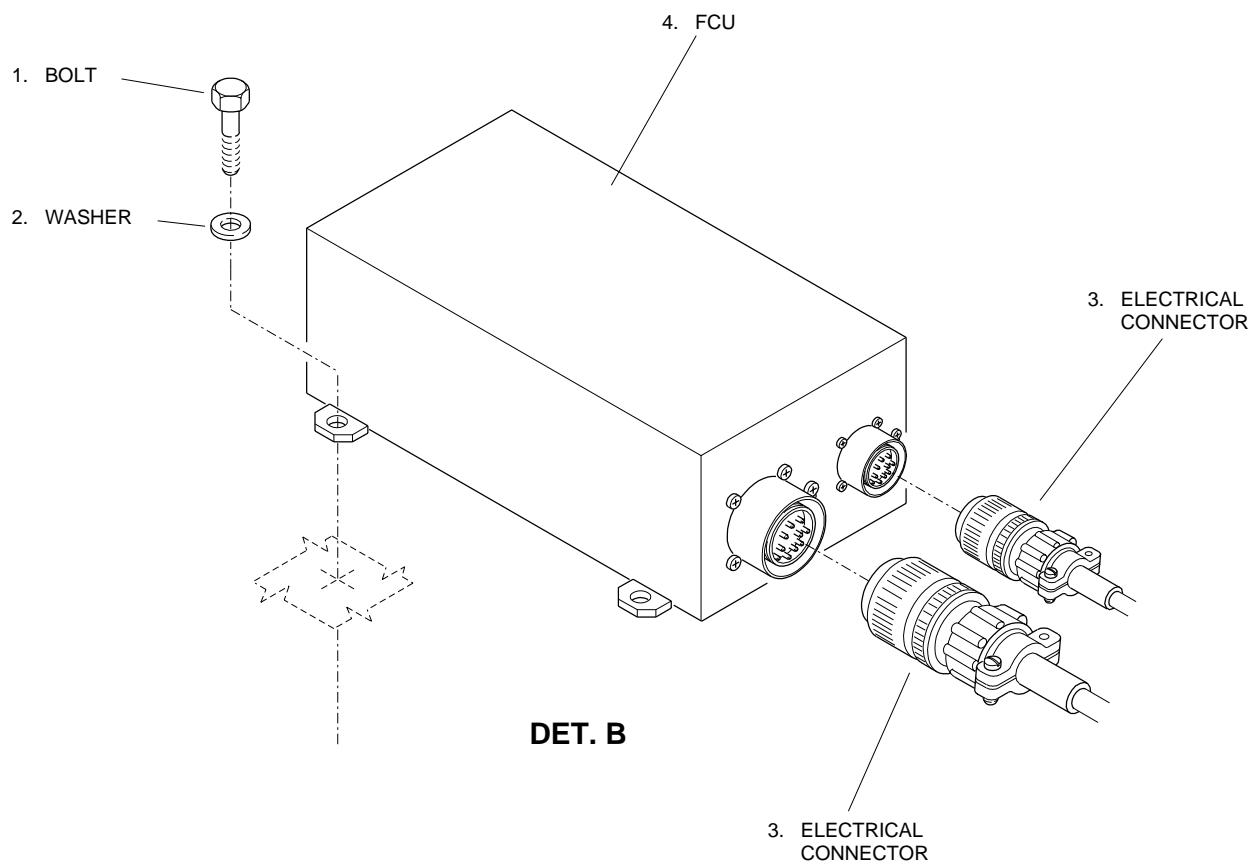
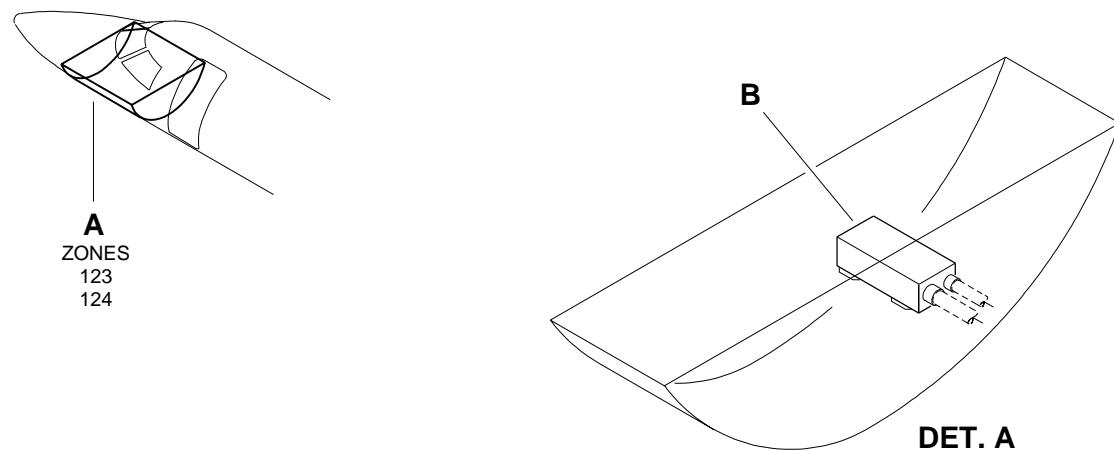
SUBTASK 020-002-A

- (1) Remove bolts (1) and washers (2).
- (2) Disconnect the electrical connectors (3) from the fuel conditioning unit (4).
- (3) Remove the fuel conditioning unit (4).

EFFECTIVITY: ALL

Fuel Conditioning Unit - Removal/Installation

Figure 401





AIRCRAFT
MAINTENANCE MANUAL

TASK 28-41-01-400-801-A

EFFECTIVITY: ALL

3. FUEL CONDITIONING UNIT - INSTALLATION

A. General

- (1) Obey the instructions that follow to install the fuel conditioning unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 28-41-00-700-801-A/500	ELECTRICAL FUEL QUANTITY - OPERATIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	221GF	Cockpit
124	221GF	Cockpit

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

I. Preparation

SUBTASK 841-003-A

- (1) On the circuit breaker panel, make sure that the circuit breakers that follow are open and with a DO-NOT-CLOSE tag attached to them:

- REFUELING 1/2/3.
- FUEL QTY IND 1/2.
- START 1/2.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

J. Installation (Figure 401)

SUBTASK 420-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Put the fuel conditioning unit (4) in position.
- (2) Install the bolts (1) and the washers (2).
- (3) Connect the electrical connectors (3).

NOTE: Make sure the connectors are clean and firmly attached.

K. Follow-on

SUBTASK 842-002-A

- (1) Do the Electrical Fuel-Quantity Operational Check ([AMM TASK 28-41-00-700-801-A/500](#)).

- (2) 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 part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (3) Close access door 221GF (AMM MPP 06-41-02/100).
- (4) On the circuit breaker panel, close the circuit breakers that follow and remove the DO-NOT-CLOSE tag from them:
 - REFUELING 1/2/3.
 - FUEL QTY IND 1/2.
 - START 1/2.