

## FUEL-CROSSFEED VALVE - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to remove/install the crossfeed valve.
- 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
28-21-04-000-801-A	CROSSFEED VALVE - REMOVAL	ACFT WITH WET WINGSTUB
28-21-04-400-801-A	CROSSFEED VALVE - INSTALLATION	ACFT WITH WET WINGSTUB
28-21-04-000-802-A	CROSSFEED VALVE - REMOVAL	ACFT WITH DRY WINGSTUB
28-21-04-400-802-A	CROSSFEED VALVE - INSTALLATION	ACFT WITH DRY WINGSTUB

TASK 28-21-04-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

## 2. CROSSFEED VALVE - REMOVAL

### A. General

(1) Obey the instructions below to remove the crossfeed valve.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM MPP 28-00-00/200</a>	- MAINTENANCE PRACTICES
<a href="#">AMM TASK 12-11-01-600-802-A/300</a>	FUEL-TANK PRESSURE DEFUELING - SERVICING

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155DZ/155EZ	Landing gear bay

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Containers	To collect residual fuel from open lines	AR

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Landing gear bay

### I. Preparation

SUBTASK 841-002-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 28-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) Defuel the tanks ( [AMM TASK 12-11-01-600-802-A/300](#)).
- (2) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:

- FUEL PUMPS 1A/1B/1C.
- FUEL PUMPS 2A/2B/2C.
- START 1/2.
- FUEL CROSS-FEED.

- (3) Open access panel 155DZ/155EZ (AMM MPP 06-41-01/100) to get access to the crossfeed valve.

J. Removal (Figure 401)

*SUBTASK 020-002-A*

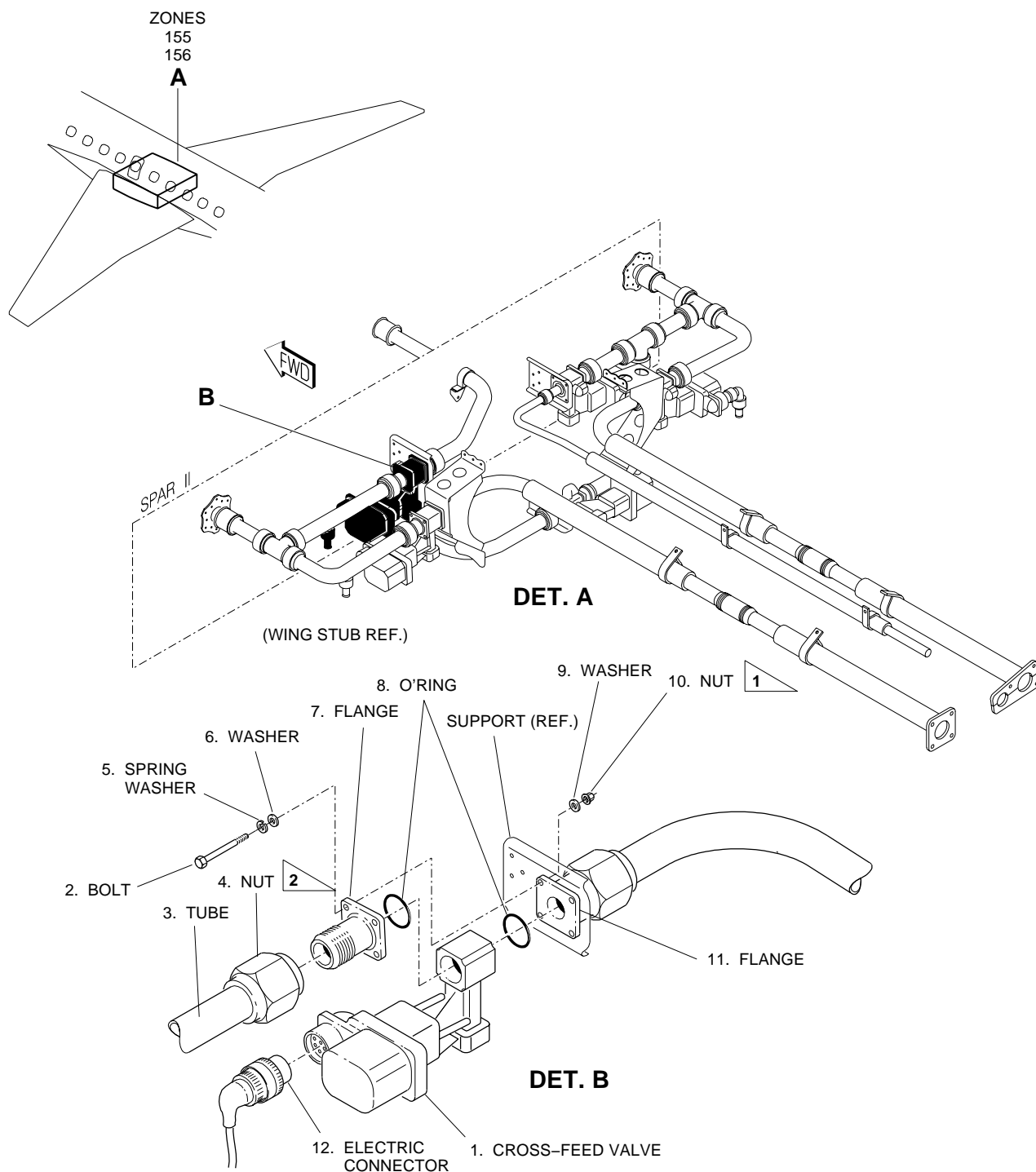
**WARNING: USE APPLICABLE CONTAINERS TO COLLECT THE REMAINING FUEL FROM THE OPEN LINES AND KEEP THE WORK AREA CLEAN AND SAFE.**

- (1) Disconnect the electric connector (12) from the crossfeed valve (1).
- (2) Remove the nuts (10), spring washers (5), washers (6) and (9), and bolts (2).
- (3) Loosen the nut (4).
- (4) Turn the tube (3) and remove the flange (7).
- (5) Remove the crossfeed valve (1).
- (6) Remove and discard the O-rings (8).
- (7) Cover all disconnected points with applicable plugs or caps to prevent contamination.

**EFFECTIVITY: ACFT WITH WET WINGSTUB**

**Cross-Feed Valve - Removal/Installation**

Figure 401



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TASK 28-21-04-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

### 3. CROSSFEED VALVE - INSTALLATION

#### A. General

(1) Obey the instructions below to install the crossfeed valve.

#### B. References

REFERENCE	DESIGNATION
28-23-00	-
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM MPP 28-11-01/400	- REMOVAL/INSTALLATION
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-10-00-910-801-A/200	WING-TO-WING FUEL TRANSFER
AMM TASK 28-21-04-700-801-A/500	FUEL CROSSFEED VALVE - OPERATIONAL CHECK
AMM TASK 28-21-11-700-801-A/500	FUEL-FEED-LINE LEAK TEST - OPERATIONAL TEST
AMM TASK 28-41-00-200-801-A/600	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155DZ/155EZ	Landing gear bay

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the attachment nuts	

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light	Lubricant	AR

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	28-23-00	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Landing gear bay

I. Preparation

*SUBTASK 841-003-A*

- (1) On the circuit breaker panel, make sure that the circuit breakers below are open and with a DO-NOT-CLOSE tag attached to them:
  - FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.
  - FUEL CROSS-FEED.
- (2) Remove the protection caps or plugs from the disconnected points, if applicable.
- (3) Lightly apply Molykote lubricant to the O-rings (8).

J. Installation (Figure 401)

*SUBTASK 420-002-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) Install the O-rings (8) to the flanges (7) and (11).
- (2) Install the crossfeed valve (1) between the flanges (7) and (11).
- (3) Install the bolts (2), spring washers (5), washers (6) and (9), and nuts (10).
- (4) Turn the tube (3) and install the nut (4) to the flange (7).
- (5) Tighten the nuts (4) and (10).
- (6) Install the electric connector (12) on the crossfeed valve (1).

K. Follow-on

*SUBTASK 842-002-A*

- (1) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
  - FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.
  - FUEL CROSS-FEED.

- (2) Refuel the tanks ( [AMM TASK 12-11-01-600-801-A/300](#)).
- (3) Do the Fuel-Feed-Line Leak Test ( [AMM TASK 28-21-11-700-801-A/500](#)), and examine the fuel crossfeed valve and connections for leakage. Correct as required.
- (4) Do the crossfeed valve adjustment/test ( [AMM TASK 28-21-04-700-801-A/500](#)) and the maintenance practice ( [AMM TASK 28-10-00-910-801-A/200](#)).
- (5) 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 a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (6) Install access panels 155DZ/155EZ (AMM MPP 06-41-01/100 and [AMM MPP 28-11-01/400](#)).

TASK 28-21-04-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

#### 4. CROSSFEED VALVE - REMOVAL

##### A. General

(1) Obey the instructions below to remove the crossfeed valve.

##### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM MPP 28-00-00/200</a>	- MAINTENANCE PRACTICES
<a href="#">AMM TASK 12-11-01-600-802-A/300</a>	FUEL-TANK PRESSURE DEFUELING - SERVICING

##### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing

##### D. Tools and Equipment

Not Applicable

##### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Containers	To collect residual fuel from open lines	AR

##### F. Consumable Materials

Not Applicable

##### G. Expandable Parts

Not Applicable

##### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Center lower fairing

##### I. Preparation

SUBTASK 841-004-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 28-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) Defuel the tanks ( [AMM TASK 12-11-01-600-802-A/300](#)).
- (2) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:



- FUEL PUMPS 1A/1B/1C.
- FUEL PUMPS 2A/2B/2C.
- START 1/2.
- FUEL CROSS-FEED.

- (3) Open access panel 192AL (AMM MPP 06-41-01/100) to get access to the crossfeed valve.

J. Removal ([Figure 402](#))

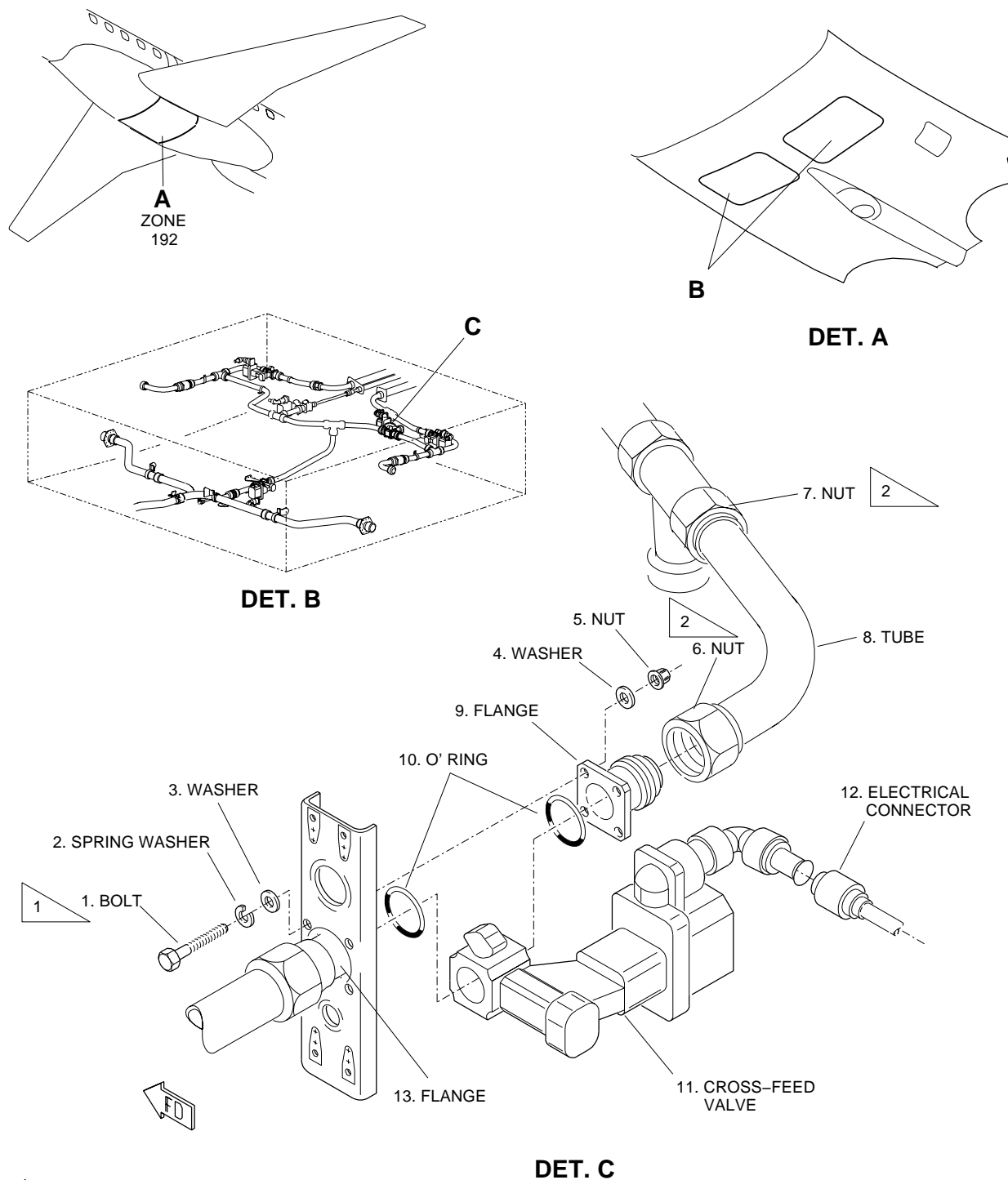
*SUBTASK 020-003-A*

- (1) Remove the bolts (1), spring washers (2), washers (3) and (4), and nuts (5).
- (2) Loosen the nuts (6) and (7).
- (3) Turn the tube (8) and remove the flange (9).
- (4) Remove and discard the O-rings (10).
- (5) Remove the crossfeed valve (11).
- (6) Disconnect the electrical connector (12) from the crossfeed valve (11).
- (7) Cover all disconnected points with applicable plugs or caps to prevent contamination.

**EFFECTIVITY: ACFT WITH DRY WINGSTUB**

**Crossfeed Valve - Removal/Installation**

**Figure 402**



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TASK 28-21-04-400-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

5. CROSSFEED VALVE - INSTALLATION

A. General

(1) Obey the instructions below to install the crossfeed valve.

B. References

REFERENCE	DESIGNATION
28-23-00	-
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM MPP 28-11-01/400	- REMOVAL/INSTALLATION
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-10-00-910-801-A/200	WING-TO-WING FUEL TRANSFER
AMM TASK 28-21-04-700-802-A/500	FUEL CROSSFEED VALVE - OPERATIONAL CHECK
AMM TASK 28-21-11-700-802-A/500	FUEL-FEED-LINE LEAK TEST - OPERATIONAL TEST
AMM TASK 28-41-00-200-801-A/600	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the attachment nuts	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light	Lubricant	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	28-23-00	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Center lower fairing

I. Preparation

*SUBTASK 841-005-A*

- (1) On the circuit breaker panel, make sure that the circuit breakers below are open and with a DO-NOT-CLOSE tag attached to them:
  - FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.
  - FUEL CROSS-FEED.
- (2) Remove the protection caps or plugs from the disconnected points, if applicable.
- (3) Lightly apply Molykote lubricant to the O-rings (10).

J. Installation (Figure 402)

*SUBTASK 420-003-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) Install the O-rings (10) to the flanges (9) and (13).
- (2) Install the crossfeed valve (11) between the flanges (9) and (13).
- (3) Install the bolts (1), spring washers (2), washers (3) and (4), and nuts (5).
- (4) Turn the tube (8) and install the nut (6) to the flange (9).
- (5) Tighten the nuts (6) and (7).
- (6) Remove the protection cap from the electrical connector (12) and connect it to the crossfeed valve (11).

K. Follow-on

*SUBTASK 842-003-A*

- (1) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
  - FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.
  - FUEL CROSS-FEED.

- (2) Refuel the tanks ( [AMM TASK 12-11-01-600-801-A/300](#)).
- (3) Do the Fuel-Feed-Line Leak Test ([AMM TASK 28-21-11-700-802-A/500](#)), and examine the fuel crossfeed valve and connections for leakage. Correct as necessary.
- (4) Do the crossfeed valve adjustment/test ([AMM TASK 28-21-04-700-802-A/500](#)) and the maintenance practice ( [AMM TASK 28-10-00-910-801-A/200](#)).
- (5) 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 a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (6) Close access panel 192AL (AMM MPP 06-41-01/100 and [AMM MPP 28-11-01/400](#)).

