

## MOTIVE-FLOW CHECK VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures to remove/install the motive-flow check 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
28-21-12-000-801-A	MOTIVE-FLOW CHECK VALVE - REMOV- AL	ACFT WITH WET WINGSTUB
28-21-12-400-801-A	MOTIVE-FLOW CHECK VALVE - INSTAL- LATION	ACFT WITH WET WINGSTUB
28-21-12-000-802-A	MOTIVE-FLOW CHECK VALVE - REMOV- AL	ACFT WITH DRY WINGSTUB
28-21-12-400-802-A	MOTIVE-FLOW CHECK VALVE - INSTAL- LATION	ACFT WITH DRY WINGSTUB

TASK 28-21-12-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

## 2. MOTIVE-FLOW CHECK VALVE - REMOVAL

### A. General

(1) This task is applicable to the LH fuel tank and RH fuel tank.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM MPP 06-44-00/100</a>	- COMPONENT LOCATION
<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
<a href="#">AMM TASK 28-11-01-000-801-A/400</a>	FUEL-TANK ACCESS PANELS - REMOVAL

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	LH Underwing area
631	631AB	RH Underwing area

### 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	Fuel tanks

### 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 these circuit breakers and attach a DO-NOT-CLOSE tag to them:

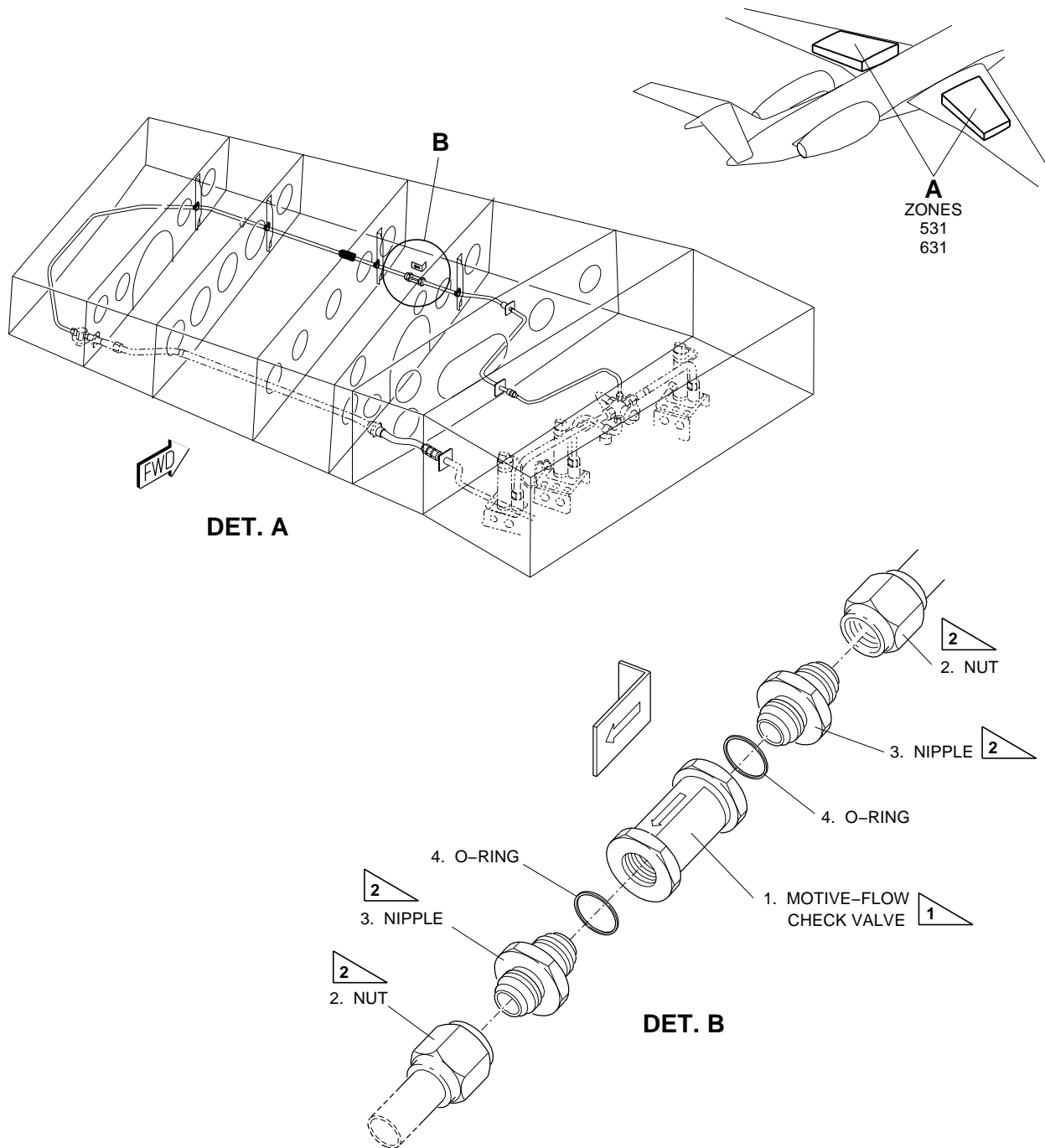
- FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.
- (3) Remove the access panels ( [AMM MPP 06-44-00/100](#)) and ( [AMM TASK 28-11-01-000-801-A/400](#)) shown below to get access to the motive-flow check valves:
- (a) LH fuel tank:
- 531AB.
- (b) RH fuel tank:
- 631AB.

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

*SUBTASK 020-002-A*

- (1) Loosen the nuts (2) and remove the motive-flow check valve (1).
- (2) Put applicable plugs or caps at all disconnected points to prevent contamination.
- (3) Remove the nipples (3) from the motive-flow check valve.
- (4) Discard the O-rings (4).

**EFFECTIVITY: ACFT WITH WET WINGSTUB**  
Motive-Flow Check Valve - Removal/Installation  
Figure 401



**1** DURING THE INSTALLATION OF THE VALVE, MAKE SURE THAT THE ARROW IS IN THE OUTBOARD DIRECTION

**2** TORQUE: 26.0 N.m TO 29.4 N.m ( 230 TO 260 lb.in )

EM145AMM281614A.DGN

TASK 28-21-12-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

### 3. MOTIVE-FLOW CHECK VALVE - INSTALLATION

#### A. General

(1) This task is applicable to the LH fuel tank and RH fuel tank.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
IPC 28-21-00	SUPPLY SYSTEM

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	LH Underwing area
631	631AB	RH Underwing area

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light or equivalent	Grease	AR

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 28-21-00	2/LRU

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuel tanks

I. Preparation

*SUBTASK 841-003-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) Remove the protection caps or plugs from the disconnected points, if applicable.
- (2) Lubricate with Molykote DC-33 light grease and install the new O-rings (4) on the nipples (3).
- (3) Install the nipples (4) on the motive-flow check valve (1).

J. Installation (Figure 401)

*SUBTASK 420-002-A*

**CAUTION:** • DURING THE INSTALLATION OF THE VALVE, MAKE SURE THAT THE ARROW IS IN THE OUTBOARD DIRECTION.

- MAKE SURE THAT THE LINE FITTINGS ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.

- (1) Install and tighten the nuts (2) to the motive-flow check valve (1).

K. Follow-on

*SUBTASK 842-002-A*

- (1) Install the access panels shown below ( [AMM MPP 06-44-00/100](#)) and ( [AMM TASK 28-11-01-400-801-A/400](#)):
  - (a) LH fuel tank:
    - 531AB.
  - (b) RH fuel tank:
    - 631AB.
- (2) Refuel the tanks ( [AMM TASK 12-11-01-600-801-A/300](#)) as applicable.
- (3) Examine for fuel leakage the access panels which were removed. Correct as necessary.
- (4) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
  - FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.

TASK 28-21-12-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

#### 4. MOTIVE-FLOW CHECK VALVE - REMOVAL

##### A. General

(1) This task is applicable to the LH fuel tank and RH fuel tank.

##### B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 28-11-01-000-802-A/400	FUEL-TANK ACCESS PANELS - REMOVAL

##### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	LH Underwing area
631	631AB	RH Underwing area

##### 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	Fuel tanks

##### 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 these circuit breakers and attach a DO-NOT-CLOSE tag to them:

- FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.
- (3) Remove the access panels ( [AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-000-802-A/400](#)) shown below to get access to the motive-flow check valves:
- (a) LH fuel tank:
    - 531AB.
  - (b) RH fuel tank:
    - 631AB.

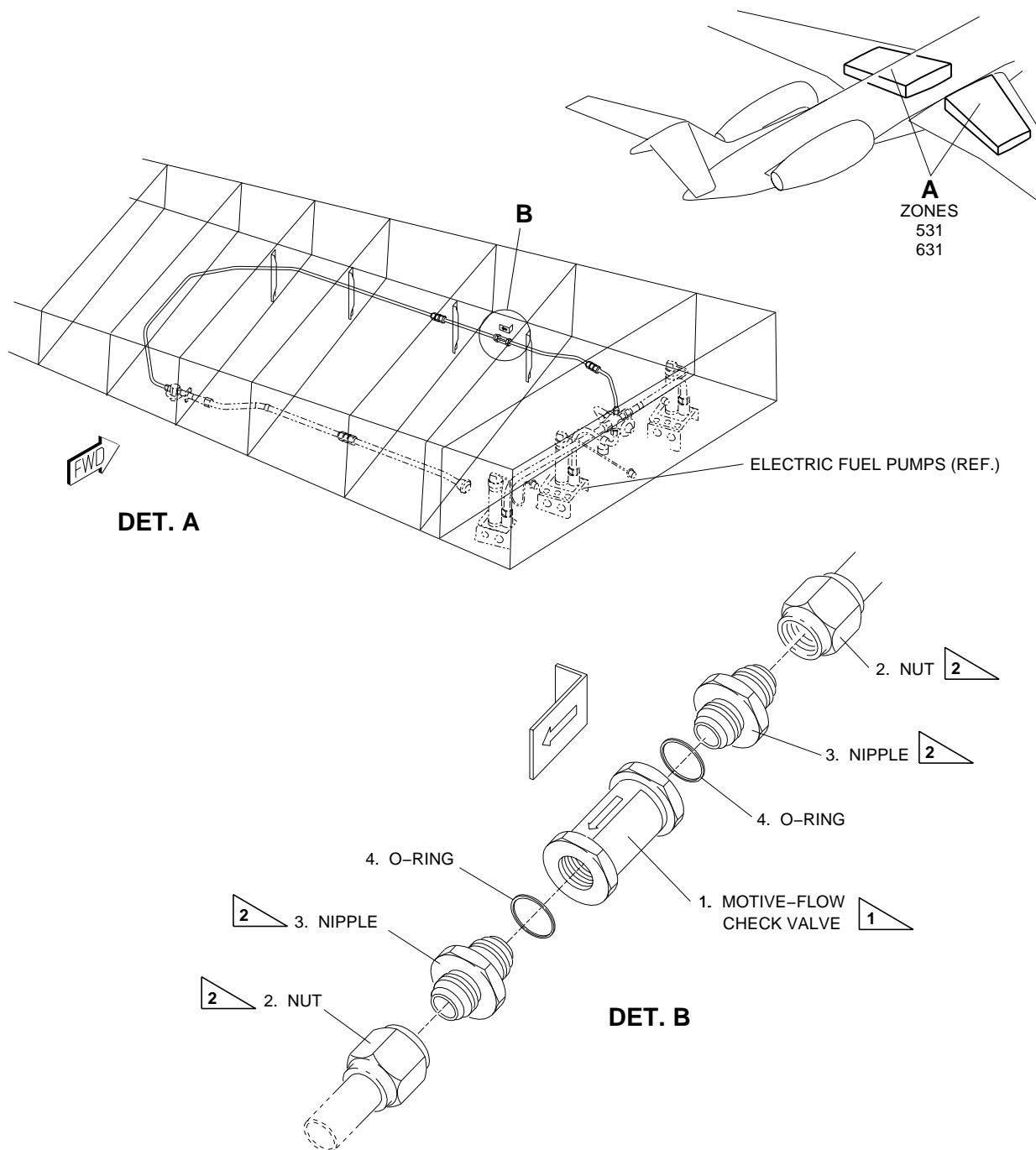
J. Removal ([Figure 402](#))

*SUBTASK 020-003-A*

- (1) Loosen the nuts (2) and remove the motive-flow check valve (1).
- (2) Put applicable plugs or caps at all disconnected points to prevent contamination.
- (3) Remove the nipples (3) from the motive-flow check valve.
- (4) Discard the O-rings (4).



**EFFECTIVITY: ACFT WITH DRY WINGSTUB**  
Motive-Flow Check Valve - Removal/Installation  
Figure 402



**1** DURING THE INSTALLATION OF THE VALVE, MAKE SURE THAT THE ARROW IS IN THE OUTBOARD DIRECTION

**2** TORQUE: 26.0 N.m TO 29.4 N.m ( 230 TO 260 lb.in )

145AMM280207.MCE B

TASK 28-21-12-400-802-A

*EFFECTIVITY: ACFT WITH DRY WINGSTUB*

5. MOTIVE-FLOW CHECK VALVE - INSTALLATION

A. General

(1) This task is applicable to the LH fuel tank and RH fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-11-01-400-802-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
IPC 28-21-00	SUPPLY SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	LH Underwing area
631	631AB	RH Underwing area

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light or equivalent	Grease	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 28-21-00	2/LRU

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuel tanks

I. Preparation

*SUBTASK 841-005-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) Remove the protection caps or plugs from the disconnected points, if applicable.
- (2) Lubricate with Molykote DC-33 light grease and install the new O-rings (4) on the nipples (3).
- (3) Install the nipples (4) on the motive-flow check valve (1).

J. Installation (Figure 402)

*SUBTASK 420-003-A*

**CAUTION:** • DURING THE INSTALLATION OF THE VALVE, MAKE SURE THAT THE ARROW IS IN THE OUTBOARD DIRECTION.

• MAKE SURE THAT THE LINE FITTINGS ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.

- (1) Install and tighten the nuts (2) to the motive-flow check valve (1).

K. Follow-on

*SUBTASK 842-003-A*

- (1) Install the access panels shown below ( [AMM MPP 06-44-00/100](#) ) and ( [AMM TASK 28-11-01-400-802-A/400](#) ):
  - (a) LH fuel tank:
    - 531AB.
  - (b) RH fuel tank:
    - 631AB.
- (2) Refuel the tanks ( [AMM TASK 12-11-01-600-801-A/300](#) ) as applicable.
- (3) Examine for fuel leakage the access panels which were removed. Correct as necessary.
- (4) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
  - FUEL PUMPS 1A/1B/1C.
  - FUEL PUMPS 2A/2B/2C.
  - START 1/2.

