



AIRCRAFT MAINTENANCE MANUAL

RELIEF VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the check/relief 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
28-21-03-000-801-A	CHECK/RELIEF VALVE - REMOVAL	ACFT WITH WET WINGSTUB
28-21-03-400-801-A	CHECK/RELIEF VALVE - INSTALLATION	ACFT WITH WET WINGSTUB
28-21-03-000-802-A	CHECK/RELIEF VALVE - REMOVAL	ACFT WITH DRY WINGSTUB
28-21-03-400-802-A	CHECK/RELIEF VALVE - INSTALLATION	ACFT WITH DRY WINGSTUB



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TASK 28-21-03-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. CHECK/RELIEF VALVE - REMOVAL

A. General

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

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH Wing stub undersurface
156	156BZ	RH Wing stub undersurface
192	192AL	Center lower fairing
192	192BR	Center lower fairing

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	Wing stub undersurface

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](#)).



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- (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.
- (3) Remove the access panels (AMM MPP 06-41-01/100) and ([AMM TASK 28-11-01-000-801-A/400](#)) shown below to get access to the Check/Relief Valves:
 - (a) Center lower fairing:
 - 192AL/192BR.
 - (b) LH fuel tank:
 - 155BZ.
 - (c) RH fuel tank:
 - 156BZ.

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

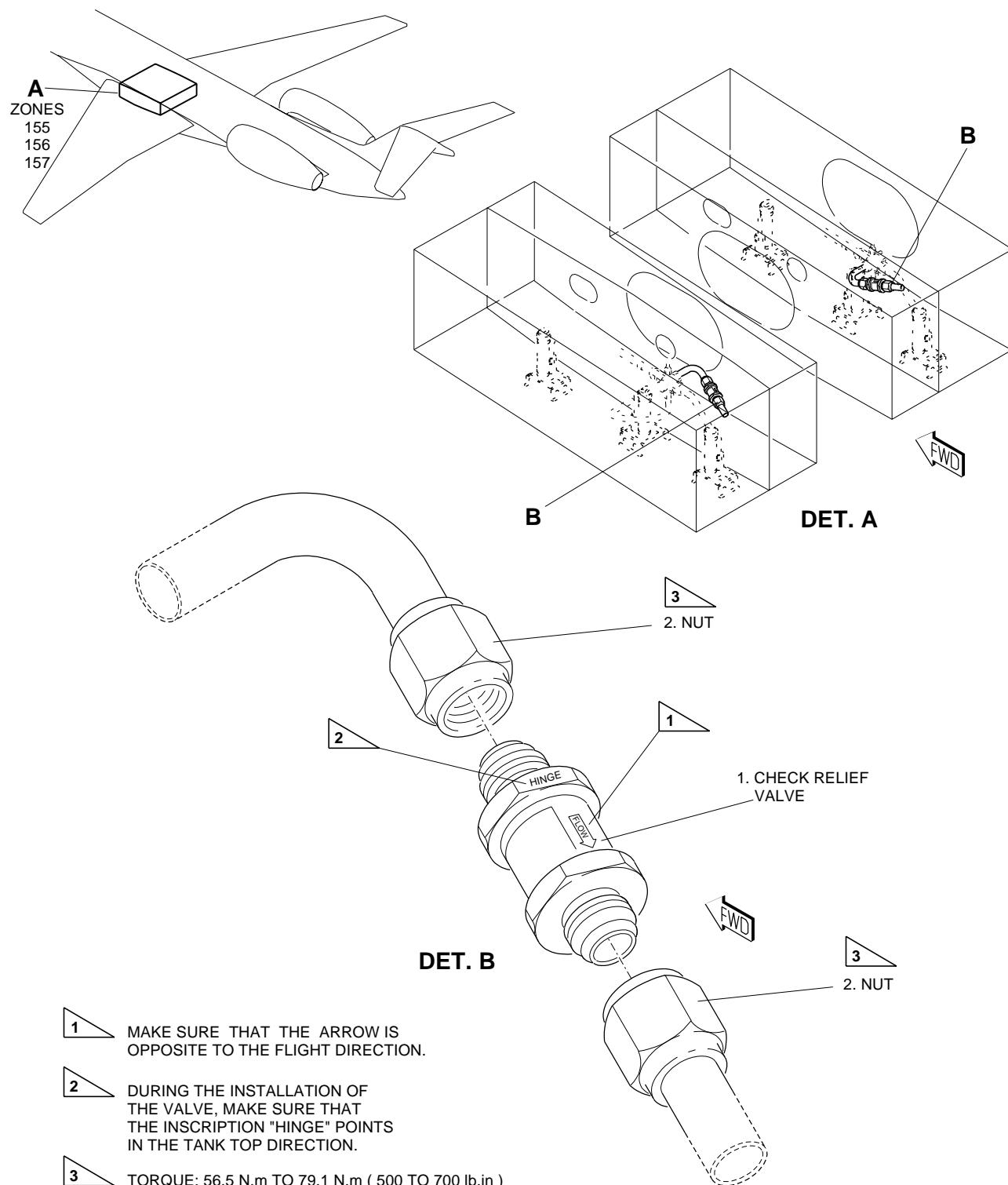
SUBTASK 020-002-A

- (1) Loosen the nuts (2) and remove the Check/Relief Valve (1).
- (2) Put applicable plugs or caps at all disconnected points to prevent contamination.

EFFECTIVITY: ACFT WITH WET WINGSTUB

Check/Relief Valve - Removal/Installation

Figure 401



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TASK 28-21-03-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

3. CHECK/RELIEF VALVE - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
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 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-41-00-200-801-A/600	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH Wing stub undersurface
156	156BZ	RH Wing stub undersurface
192	192AL	Center lower fairing
192	192BR	Center lower fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

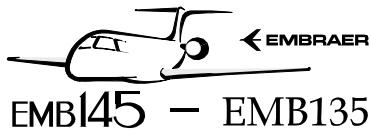
H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing stub undersurface

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.



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- (1) 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.
- (2) Remove the protection caps or plugs from the disconnected points, if applicable.

J. Installation (Figure 401)

SUBTASK 420-002-A

- CAUTION:**
- MAKE SURE THAT THE ARROW OF THE VALVE IS OPPOSITE TO THE FLIGHT DIRECTION.
 - DURING THE INSTALLATION OF THE VALVE, MAKE SURE THAT THE INSCRIPTION "HINGE" POINTS IN THE TANK TOP DIRECTION.
 - MAKE SURE THAT THE LINE FITTINGS ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.

- (1) Install and tighten the nut (2) to the Check/Relief Valve (1).

K. Follow-on

SUBTASK 842-002-A

- (1) Install the access panels below (AMM MPP 06-41-01/100) and ([AMM TASK 28-11-01-000-801-A/400](#)):
 - (a) LH fuel tank:
 - 155BZ.
 - (b) RH fuel tank:
 - 156BZ.
- (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 on the wing stub undersurface.
- (4) 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).

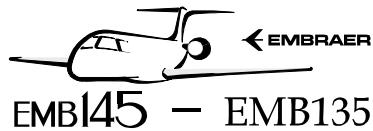
- (5) Install access panels 192AL/192BR (AMM MPP 06-41-01/100 and [AMM MPP 28-11-01/400](#)).
- (6) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:



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



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TASK 28-21-03-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

4. CHECK/RELIEF VALVE - REMOVAL

A. General

- (1) Obey the instructions below to remove the Check/Relief Valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing
192	192BR	Center lower fairing

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	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 LH or RH tank as applicable ([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.



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

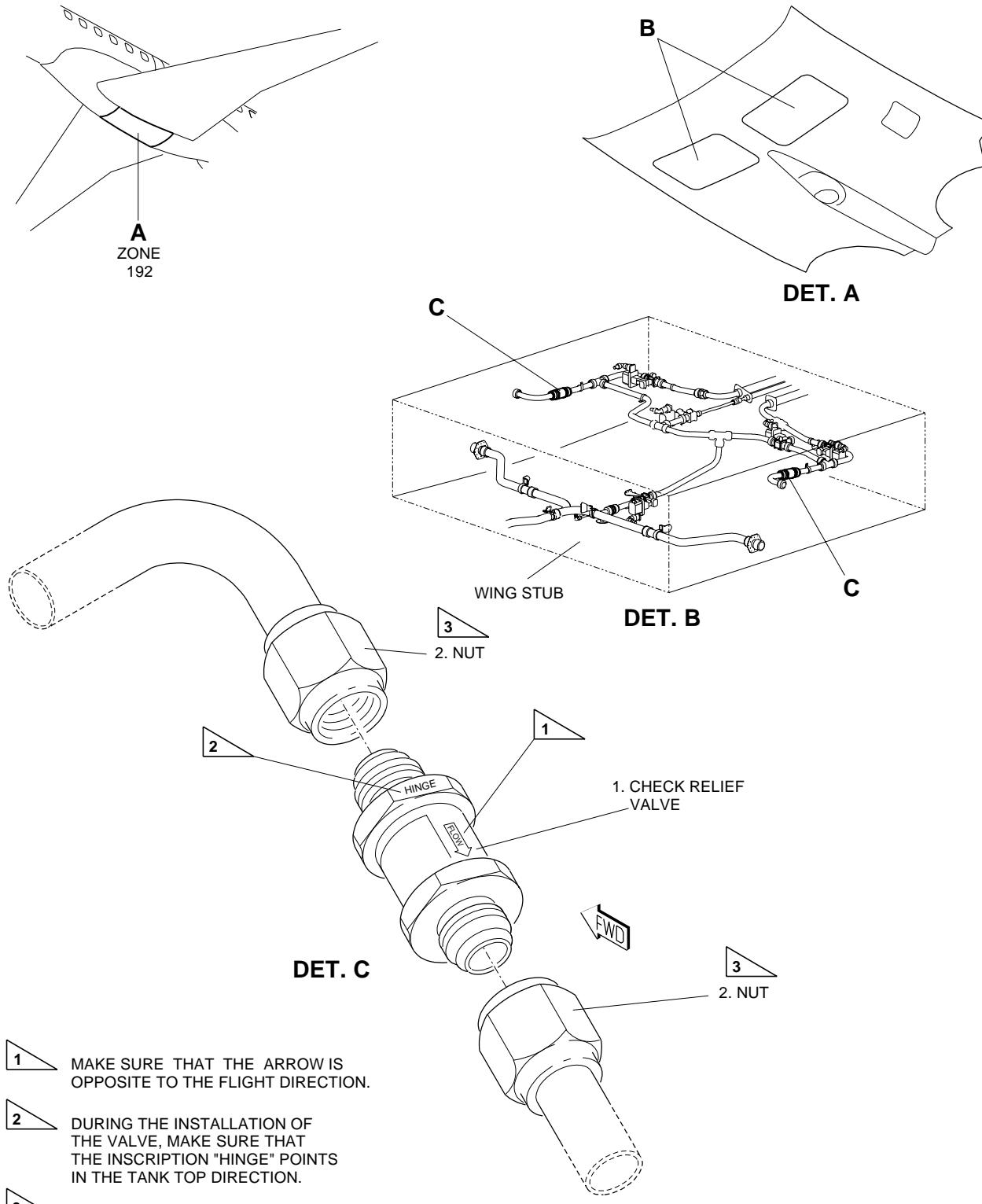
(3) Open access panels 192AL and 192BR (AMM MPP 06-41-01/100) to get access to the Check/Relief Valves.

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

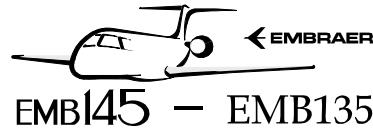
SUBTASK 020-003-A

- (1) Loosen the nuts (2) and remove the Check/Relief Valve (1).
- (2) Put applicable plugs or caps at all disconnected points to prevent contamination.

EFFECTIVITY: ACFT WITH DRY WINGSTUB
 Check/Relief Valve - Removal/Installation
 Figure 402



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TASK 28-21-03-400-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

5. CHECK/RELIEF VALVE - INSTALLATION

A. General

- (1) Obey the instructions below to install the Check/Relief Valve.

B. References

REFERENCE	DESIGNATION
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 28-41-00-200-801-A/600	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing
192	192BR	Center lower fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

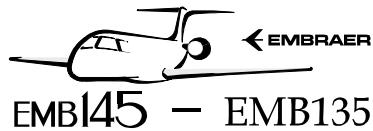
QTY	FUNCTION	PLACE
1	Does the task	Center lower fairing

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) 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.

(2) Remove the protection caps or plugs from the disconnected points, if applicable.

J. Installation (Figure 402)

SUBTASK 420-003-A

- CAUTION:**
- MAKE SURE THAT THE ARROW OF THE VALVE IS OPPOSITE TO THE FLIGHT DIRECTION.
 - DURING THE INSTALLATION OF THE VALVE, MAKE SURE THAT THE INSCRIPTION "HINGE" POINTS IN THE TANK TOP DIRECTION.
 - MAKE SURE THAT THE LINE FITTINGS ARE CLEAN TO PREVENT AN UNSATISFACTORY ELECTRICAL BONDING.

(1) Install and tighten the nut (2) to the Check/Relief Valve (1).

K. Follow-on

SUBTASK 842-003-A

(1) 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).

(2) Install access panels 192AL and 192BR (AMM MPP 06-41-01/100 and [AMM MPP 28-11-01/400](#)).

(3) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)) as applicable.

(4) Examine for fuel leakage the access panels which were removed on the Center Lower Fairing.

(5) 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.