

TANK UNIT - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the inspection of the tank-units.
- 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
28-41-02-200-801-A ◆	TANK-UNITS - INSPECTION	EMB-145LR/LU AND EMB-135LR/KL MOD- ELS
28-41-02-200-802-A ◆	TANK-UNITS - INSPECTION	EMB-145MR/MP/MK/ER /EP/EU AND EMB-135ER/KE MOD- ELS

TASK 28-41-02-200-801-A

EFFECTIVITY: EMB-145LR/LU AND EMB-135LR/KL MODELS

2. TANK-UNITS - INSPECTION

A. General

- (1) This task gives the procedure to do the detailed inspection on the tank-units wing fuel tanks, for general conditions. The purpose of this inspection is avoid a failure in these components.
- (2) This task is applicable to the LH an RH wing fuel tanks.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
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 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 12-11-02-600-802-A/300	FUEL TANK GRAVITY DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
AMM TASK 28-41-00-200-801-A/600	-

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
155	155BZ	Wing stub
156	156BZ	Wing stub
192	192AL	Fuselage external access doors and panels
192	192BR	Fuselage external access doors and panels
531	531AB	Left-wing access doors and panels
531	531CB	Left-wing access doors and panels
531	531DB	Left-wing access doors and panels
531	531EZ	Left-wing access doors and panels
541	541BB	Left-wing access doors and panels
541	541DB	Left-wing access doors and panels
631	631AB	Right-wing access doors and panels
631	631CB	Right-wing access doors and panels
631	631DB	Right-wing access doors and panels
631	631EZ	Right-wing access doors and panels
641	641BB	Right-wing access doors and panels
641	641DB	Right-wing access doors and panels

- 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
2	Do the task	Wing fuel tank

- I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.

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.

- (2) Defuel the tanks ([AMM TASK 12-11-01-600-802-A/300](#)) ([AMM TASK 12-11-02-600-802-A/300](#)).
- (3) On the circuit breaker panel, open the FUEL QTY 1/2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) (For aircraft with HLEIS) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (5) Open access panels (AMM MPP 06-41-01/100), ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-000-801-A/400](#)) shown below to get access to the tank unit harness:
 - (a) LH fuel tank:
 - 155BZ/192AL/531AB/531CB/531DB/531EZ/541BB/541DB.
 - (b) RH fuel tank:
 - 156BZ/192BR/631AB/631CB/631DB/631EZ/641BB/641DB.

J. Tank-Unit - Inspection

SUBTASK 220-002-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 THE MATERIAL.

- (1) Get access to the tank-units.
- (2) Do a detailed inspection on the tank-unit:
 - (a) On the attachment clamps, check for visual damage, correct installation, integrity and make sure that all of them are installed.
 - (b) On the tank-unit body, check for visual damage, sign of corrosion, presence of FOD and contamination.
 - (c) On the terminal attachment points, check for corrosion, chafing and correct installation. Make sure that the tank unit spacer is in correct position.
- (3) Repeat this inspection for all of the left and right tank-units.

K. Follow-on

SUBTASK 842-002-A

- (1) Close access panels (AMM MPP 06-41-01/100), ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-400-801-A/400](#)):
 - (a) LH fuel tank:
 - 155BZ/531AB/531CB/531DB/531EZ/541BB/541DB.
 - (b) RH fuel tank:
 - 156BZ/631AB/631CB/631DB/631EZ/641BB/641DB.
- (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 a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).
- (3) Close access panels 192AL and 192BR (AMM MPP 06-41-01/100).
- (4) On the circuit breaker panel, close the FUEL QTY 1/2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (5) (For aircraft with HLEIS) On the circuit breaker panel, remove the DO-NOT-CLOSE tag and close these circuit breakers:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (6) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)), as applicable.

TASK 28-41-02-200-802-A

EFFECTIVITY: EMB-145MR/MP/MK/ER/EP/EU AND EMB-135ER/KE MODELS

3. TANK-UNITS - INSPECTION

A. General

- (1) This task gives the procedure to do the detailed inspection on the tank-units wing fuel tanks, for general conditions. The purpose of this inspection is avoid a failure in these components.
- (2) This task is applicable to the LH an RH wing fuel tanks.

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 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 12-11-02-600-802-A/300	FUEL TANK GRAVITY DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	Left-wing access doors and panels
531	531CB	Left-wing access doors and panels
531	531DB	Left-wing access doors and panels
531	531EZ	Left-wing access doors and panels
541	541BB	Left-wing access doors and panels
541	541DB	Left-wing access doors and panels
631	631AB	Right-wing access doors and panels
631	631CB	Right-wing access doors and panels
631	631DB	Right-wing access doors and panels
631	631EZ	Right-wing access doors and panels
641	641BB	Right-wing access doors and panels
641	641DB	Right-wing access doors and panels

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
2	Do the task	Wing fuel tank

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM 28-00-00/201 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (2) Defuel the tanks ([AMM TASK 12-11-01-600-802-A/300](#)) ([AMM TASK 12-11-02-600-802-A/300](#)).
- (3) On the circuit breaker panel, open the FUEL QTY 1/2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) (For aircraft with HLEIS) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (5) Open 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 tank unit harness:
 - (a) LH fuel tank:
 - 531AB/531CB/531DB/531EZ/541BB/541DB.
 - (b) RH fuel tank:
 - 631AB/631CB/631DB/631EZ/641BB/641DB.

J. Tank-Unit - Inspection

SUBTASK 220-003-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 THE MATERIAL.

- (1) Get access to the tank-units.
- (2) Do a detailed inspection on the tank-unit:
 - (a) On the attachment clamps, check for visual damage, correct installation, integrity and make sure that all of them are installed.

- (b) On the tank-unit body, check for visual damage, sign of corrosion, presence of FOD and contamination.
- (c) On the terminal attachment points, check for corrosion, chafing and correct installation. Make sure that the tank unit spacer is in correct position.
- (3) Repeat this inspection for all of the left and right tank-units.

K. Follow-on

SUBTASK 842-003-A

- (1) Close access panels ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-400-801-A/400](#)):
 - (a) LH fuel tank:
 - 531AB/531CB/531DB/531EZ/541BB/541DB.
 - (b) RH fuel tank:
 - 631AB/631CB/631DB/631EZ/641BB/641DB.
- (2) On the circuit breaker panel, close the FUEL QTY 1/2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) (For aircraft with HLEIS) On the circuit breaker panel, remove the DO-NOT-CLOSE tag and close these circuit breakers:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (4) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)), as applicable.

