



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

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**

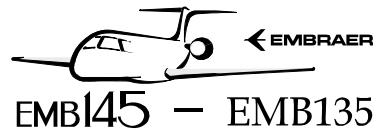
- (1) This task gives the procedure to do the detailed inspection on the tank-units wing fuel tanks, for general conditions. The purpose of this inspection is avoid a failure in these components.
- (2) This task is applicable to the LH and RH wing fuel tanks.

**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



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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

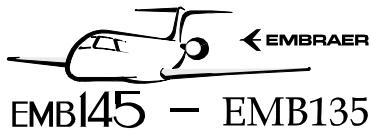
I. Preparation

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.



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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 and RH wing fuel tanks.

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
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**

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
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**

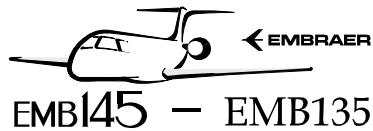
Not Applicable

**E. Auxiliary Items**

Not Applicable

**F. Consumable Materials**

Not Applicable



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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.

