

ELECTRICAL FUEL QUANTITY INDICATING - INSPECTION/CHECK

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to do an inspection on the electrical fuel-quantity system.
- 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
28-41-00-200-801-A	FUEL-QUANTITY INDICATION HARNESS - INSPECTION	ACFT MODEL(S) EMB-145

TASK 28-41-00-200-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. FUEL-QUANTITY INDICATION HARNESS - INSPECTION

A. General

- (1) This task gives the procedure to do a general visual inspection on the harnesses of the fuel-quantity indication system.
- (2) You must always do this inspection when you do maintenance in an area near the harnesses of the fuel-quantity indication system. These harnesses extend:
 - from the wing fuel conditioning unit on the cockpit to the tank wall connector;
 - (For aircraft with high-level exceeding indicating system) from the wing level control unit in the cockpit to the tank wall connector.
- (3) The inspection is necessary only in the area to which you got access.
- (4) This task is part of the Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).
- (5) The related harnesses are given in:
 - (For aircraft with high-level exceeding indicating system) WM 28-23-59;
 - WM 28-41-50;
 - WM 28-41-51;
 - WM 28-44-50.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
SB 145-28-0025	-
SWPM 20-21-00	-
WM 28-23-59	-
WM 28-41-50	-
WM 28-41-51	-
WM 28-44-50	-

C. Zones and Accesses

Not Applicable

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	Area that is got access

- I. Preparation
SUBTASK 841-012-B

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) Make sure that the aircraft is safe for maintenance.
- (2) The panels that give access to the fuel-quantity indication harness are given in the tables that follow. Refer to AMM MPP 06-41-01/100 and AMM MPP 06-41-02/100.

- NOTE:**
- It is not necessary to open all panels. Do the inspection only in the area to which you got access.
 - [SB 145-28-0025](#) gives examples of segregation of the fuel-quantity indication harness.

Table 601
EFFECTIVITY: EMB-145LR/LU MODELS

ZONE	PANEL/DOOR	LOCATION
221	221GF	Cockpit Floor
221	221EF	Cockpit Floor
222	222BF	Cockpit Floor
222	222CF	Cockpit Floor
222	222FF	Cockpit Floor
231	231AF	Passenger Cabin Floor
231	231BF	Passenger Cabin Floor
231	231FF	Passenger Cabin Floor
231	231EF	Passenger Cabin Floor
231	231HF	Passenger Cabin Floor
232	232AF	Passenger Cabin Floor
232	232BF	Passenger Cabin Floor
232	232CF	Passenger Cabin Floor

Table 601 (Continued)
EFFECTIVITY: EMB-145LR/LU MODELS

ZONE	PANEL/DOOR	LOCATION
232	232DF	Passenger Cabin Floor
241	241AF	Passenger Cabin Floor
241	241CF	Passenger Cabin Floor
241	241EF	Passenger Cabin Floor
242	242AF	Passenger Cabin Floor
242	242BF	Passenger Cabin Floor
242	242CF	Passenger Cabin Floor
242	242DF	Passenger Cabin Floor
251	251AF	Passenger Cabin Floor
252	252AF	Passenger Cabin Floor
191	191GL	Forward Section of the Wing-To-Fuselage Fairing
191	191ZB	Forward Section of the Wing-To-Fuselage Fairing
192	192LB	Center Section Of The Wing-To-Fuselage Fairing
192	192AL	Center Section Of The Wing-To-Fuselage Fairing
192	192BR	Center Section Of The Wing-To-Fuselage Fairing
155	155DZ	Main-Landing-Gear Compartment Faring
155	155EZ	Main Landing Gear Compartment Faring
156	156DZ	Main Landing Gear Compartment Faring
156	156EZ	Main Landing Gear Compartment Faring

Table 602
EFFECTIVITY: EMB-145ER/EU/EP MODELS

ZONE	PANEL/DOOR	LOCATION
221	221GF	Cockpit Floor
221	221EF	Cockpit Floor
222	222CF	Cockpit Floor
222	222FF	Cockpit Floor
222	222BF	Cockpit Floor
231	231AF	Passenger Cabin Floor
231	231BF	Passenger Cabin Floor
231	231FF	Passenger Cabin Floor

Table 602 (Continued)

EFFECTIVITY: EMB-145ER/EU/EP MODELS

ZONE	PANEL/DOOR	LOCATION
231	231EF	Passenger Cabin Floor
231	231HF	Passenger Cabin Floor
232	232AF	Passenger Cabin Floor
232	232BF	Passenger Cabin Floor
232	232CF	Passenger Cabin Floor
232	232DF	Passenger Cabin Floor
241	241AF	Passenger Cabin Floor
241	241CF	Passenger Cabin Floor
241	241EF	Passenger Cabin Floor
242	242AF	Passenger Cabin Floor
242	242BF	Passenger Cabin Floor
242	242CF	Passenger Cabin Floor
242	242DF	Passenger Cabin Floor
251	251AF	Passenger Cabin Floor
252	252AF	Passenger Cabin Floor
191	191GL	Forward Section of the wing-to-fuselage Fairing
191	191ZB	Forward section of the wing-to-fuselage Fairing
192	192LB	Center Section of the wing-to-fuselage Fairing
192	192AL	Center Section of the wing-to-fuselage Fairing
192	192BR	Center Section of the wing-to-fuselage Fairing

Table 603

EFFECTIVITY: EMB-145MK/MP/MR MODELS

ZONE	PANEL/DOOR	LOCATION
221	221GF	Cockpit Floor
221	221EF	Cockpit Floor
222	222BF	Cockpit Floor
222	222CF	Cockpit Floor
222	222FF	Cockpit Floor
231	231AF	Passenger Cabin Floor
231	231BF	Passenger Cabin Floor
231	231FF	Passenger Cabin Floor
231	231EF	Passenger Cabin Floor
231	231HF	Passenger Cabin Floor

Table 603 (Continued)
EFFECTIVITY: EMB-145MK/MP/MR MODELS

ZONE	PANEL/DOOR	LOCATION
232	232AF	Passenger Cabin Floor
232	232BF	Passenger Cabin Floor
232	232CF	Passenger Cabin Floor
232	232DF	Passenger Cabin Floor
241	241AF	Passenger Cabin Floor
241	241CF	Passenger Cabin Floor
241	241EF	Passenger Cabin Floor
242	242AF	Passenger Cabin Floor
242	242BF	Passenger Cabin Floor
242	242CF	Passenger Cabin Floor
242	242DF	Passenger Cabin Floor
251	251AF	Passenger Cabin Floor
252	252AF	Passenger Cabin Floor
191	191GL	Forward Section of the wing-to-fuselage Fairing
191	191ZB	Forward Section of the wing-to-fuselage Fairing
192	192LB	Center Section of the wing-to-fuselage Fairing
192	192AL	Center Section of the wing-to-fuselage Fairing
192	192BR	Center Section of the wing-to-fuselage Fairing
155	155CZ	Main Landing Gear Compartment
155	155DZ	Main Landing Gear Compartment
155	155EZ	Main Landing Gear Compartment
156	156CZ	Main Landing Gear Compartment
156	156DZ	Main Landing Gear Compartment
156	156EZ	Main Landing Gear Compartment

J. Fuel-Quantity Indication Harness - Inspection

SUBTASK 212-011-B

- (1) Do a general visual inspection on the harnesses that you can see through the open access:

- (a) For correct installation.
 - (b) For integrity of the insulation.
 - (c) To make sure that the harness does not chafe against components and flanges.
 - (d) To make sure that no power cables (W104, W112, and W129 on the LH; W106 and W114 on the RH) are attached to other harnesses and that there is no chafing.
- (2) If repair is necessary, refer to SWPM 20-21-00.

K. Follow-on

SUBTASK 842-012-B

CAUTION: EXAMINE ALL THE WORK AREAS TO MAKE SURE THAT YOU REMOVED ALL TOOLS AND EQUIPMENT AFTER YOU COMPLETED THE WORK. IF YOU DO NOT OBEY THIS PROCEDURE, DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (1) Put the aircraft back to its initial configuration.

