



## AIRCRAFT MAINTENANCE MANUAL

### CENTER FUSELAGE I - PASSENGER CABIN BOTTOM - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: ACFT MODEL(S) EMB-145

#### 1. General

- A. This section gives the procedures to do the visual inspection of center fuselage I - passenger cabin bottom for general condition.
- B. Related Zones: 131/132.
- C. Zone Boundaries: STA X = 4154.5 thru STA X = 7131.0.
- D. 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
05-20-18-200-801-A ♦	CENTER FUSELAGE I - PASSENGER CABIN BOTTOM - INTERNAL GENERAL VISUAL INSPECTION	ACFT MODEL(S) EMB-145



EMB145 - EMB135

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TASK 05-20-18-200-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. CENTER FUSELAGE I - PASSENGER CABIN BOTTOM - INTERNAL GENERAL VISUAL INSPECTION

A. General

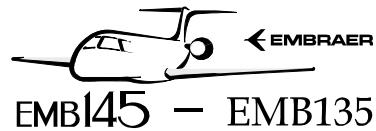
- (1) This procedure obeys the EWIS ICA requirement.
- (2) This task gives instructions to do SMRD Zonal Task 53-Z131-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage I, at zones 131/132, within a touching distance of the items examined.
- (4) The function of the internal general visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.
- (5) Apart from any specific targets defined in the Zonal Inspection task, a General Visual Inspection (GVI) must be conducted of the entire zone specified and includes all installations, components and structures. Refer to INTRODUCTION for zonal inspection criteria.

B. References

REFERENCE	DESIGNATION
AMM TASK 12-23-00-600-801-A/300	-
AMM TASK 25-81-01-000-801-A/400	-
AMM TASK 25-81-01-000-802-A/400	-
AMM TASK 25-81-01-400-801-A/400	-
AMM TASK 25-81-01-400-802-A/400	-
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 53-01-02-000-801-A/400	-
AMM TASK 53-01-02-000-802-A/400	-
AMM TASK 53-01-02-400-801-A/400	-
AMM TASK 53-01-02-400-802-A/400	-
WM 20-22-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
231	231AF	Passenger cabin floor
231	231BF	Passenger cabin floor
231	231CF	Passenger cabin floor
231	231DF	Passenger cabin floor
231	231EF	Passenger cabin floor
231	231FF	Passenger cabin floor
231	231GF	Passenger cabin floor



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ZONE	PANEL/DOOR	LOCATION
231	231HF	Passenger cabin floor
231	231JF	Passenger cabin floor
232	232AF	Passenger cabin floor
232	232BF	Passenger cabin floor
232	232CF	Passenger cabin floor
232	232DF	Passenger cabin floor

**D. Tools and Equipment**

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Ladder	To get access to the inspection area	
Standard	Flashlight	To make the inspection of the area easier	

**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 fuselage I - passenger cabin bottom

**I. Preparation ([Figure 601](#))**

**SUBTASK 841-007-B**

- (1) Use table 601 to remove the passenger-cabin floor panels as applicable from your aircraft (AMM TASK 53-01-02-000-801-A/400) or (AMM TASK 53-01-02-000-802-A/400) ([Figure 601](#)).

**Table 601 - PASSENGER-CABIN FLOOR PANELS**

AIRCRAFT MODELS	PANELS		
	ACFT with any type of main door	ACFT with airstairs main door	ACFT with side- hinged main door
EMB-145 ( )	231AF, 232AF, 231BF, 231FF, 232BF, 232CF, 232DF <sup>[1]</sup> , 231GF, 231EF and 231HF		
EMB-135 ( )		231CF and 231DF	231JF

[1] This floor panel is applicable only to EMB-145 ( ) aircraft models.



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- (2) Remove the thermoacoustic insulation from center fuselage I to zones 131/132 (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400) as applicable.

J. Internal General Visual Inspection ([Figure 602](#))

SUBTASK 212-007-B

- (1) Examine the interior of the zone for loose rivets, skin deformation, nicks, cracks, dents, sealant poor condition, scratches, gouges, creases, erosion, corrosion, deteriorated protective treatment, and foreign objects.
- (2) Examine the interior of the fuselage skin panel at stringers, frames/bulkheads, and longitudinal and circumferential splices for loose rivets, cracks, skin deformation, painting, erosion, corrosion, and deteriorated protective treatment ([Figure 602](#)).
- (3) Examine the interior of the floor beams and columns for loose rivets, cracks, deformation, distortion, wrinkles, erosion, corrosion, and deteriorated protective treatment ([Figure 602](#)).
- (4) Examine the interior of the zone for leakage on the skin, signs of friction, tension, broken strands of the control cables from the rudder, elevator, and aileron, pressurization lines, and signs of overheating caused by leakage at the connection of hydraulic lines and air conditioning ducts.
- (5) Examine drains for signs of corrosion. Also do a check for blockage and correct operation (AMM TASK 12-23-00-600-801-A/300).
- (6) Examine the EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00.

K. Follow-on

SUBTASK 842-007-B

- (1) Install the thermoacoustic insulation to zones 131/132 (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400) as applicable.
- (2) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

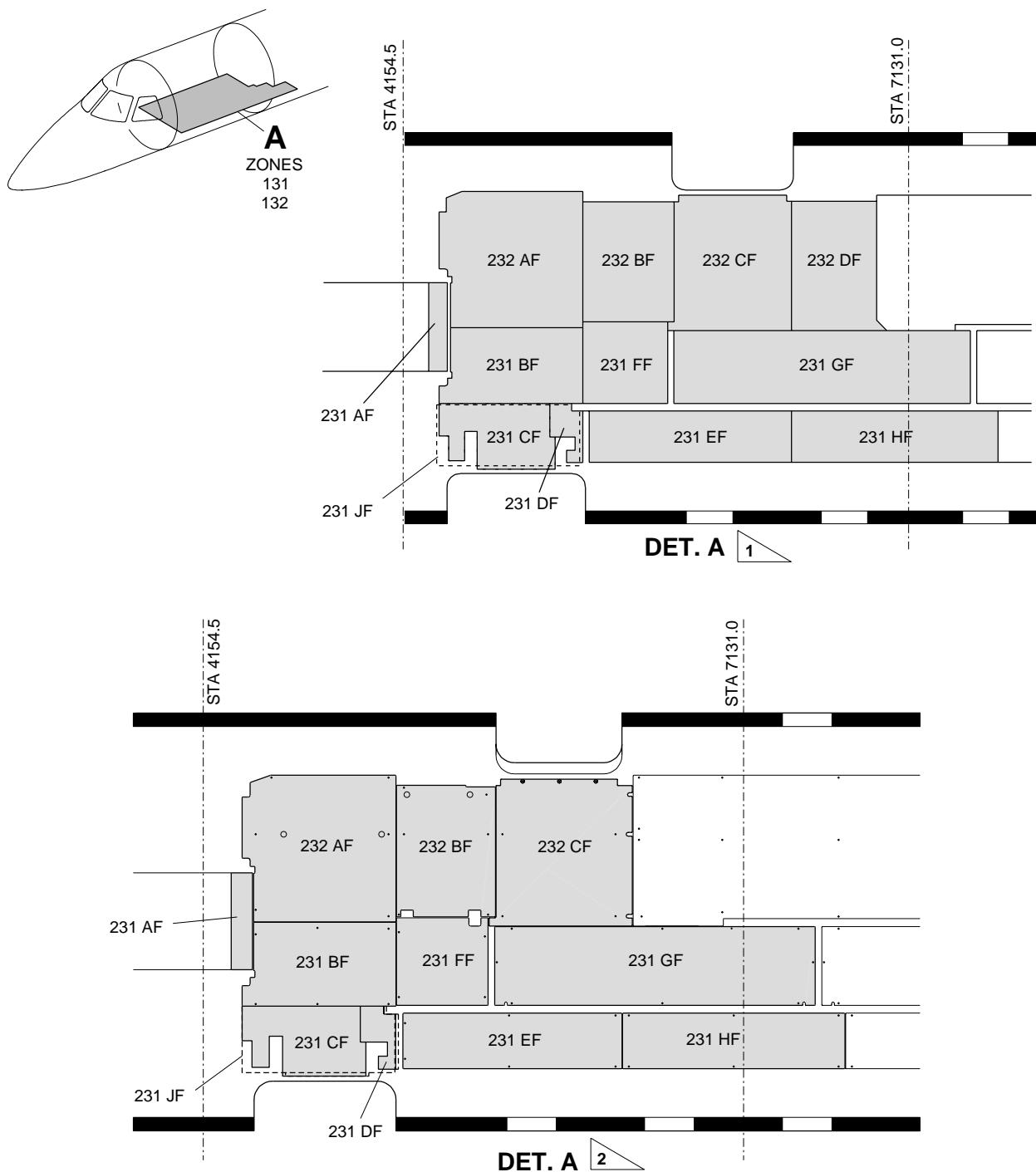
**NOTE:** The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (3) Use table 601 to install passenger-cabin floor panels as applicable to your aircraft (AMM TASK 53-01-02-400-801-A/400) or (AMM TASK 53-01-02-400-802-A/400).

**EFFECTIVITY: ACFT MODEL(S) EMB-145**

Center Fuselage I - Passenger Cabin Bottom - Access Floor Panels

Figure 601



**1** APPLICABLE TO EMB-145 (ALL) MODELS.

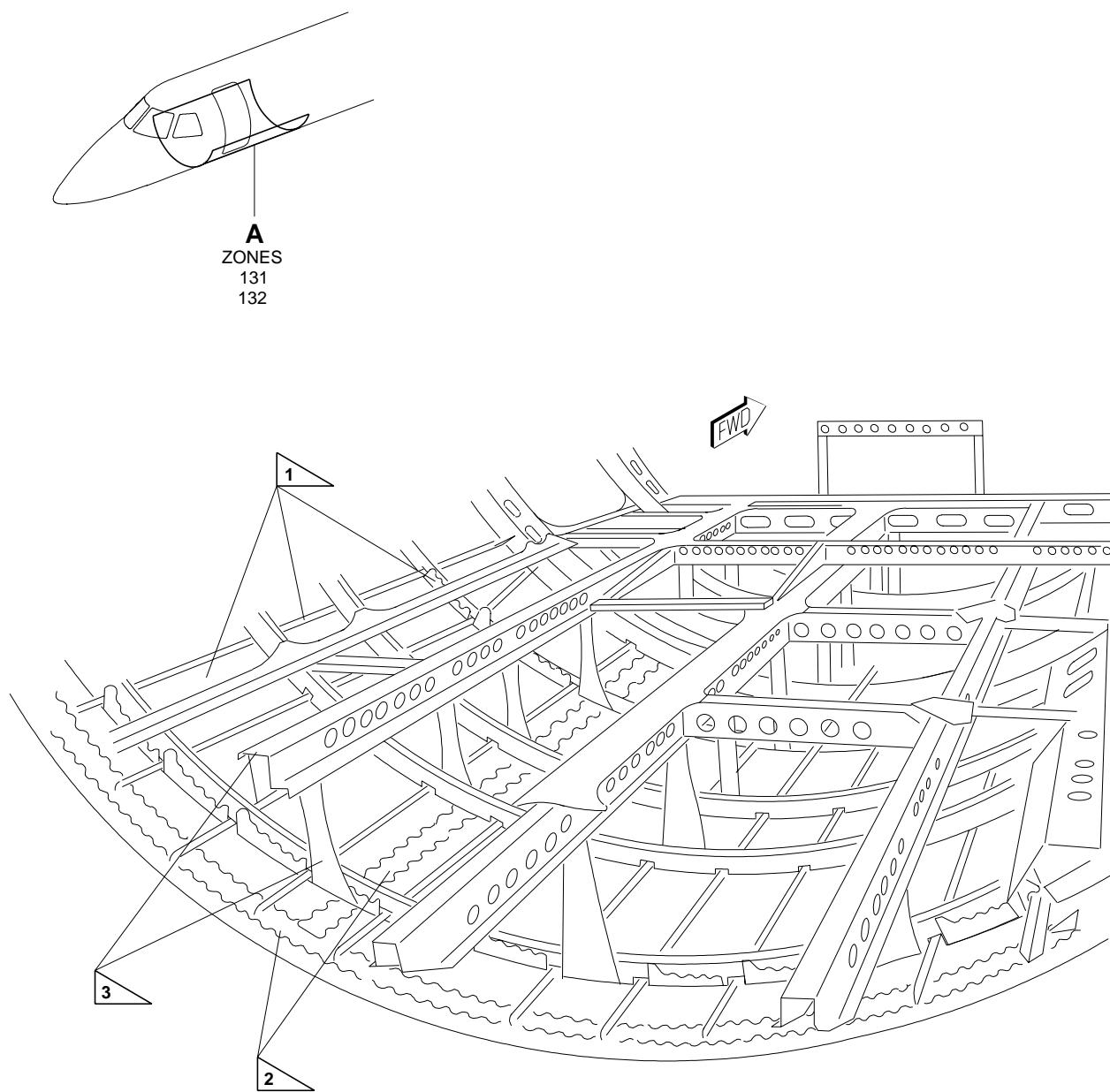
**2** APPLICABLE TO EMB-135 (ALL) MODELS.

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**EFFECTIVITY: ACFT MODEL(S) EMB-145**

Center Fuselage I - Passenger Cabin Bottom - Internal General Visual Inspection

Figure 602



**DET. A**

-  1 INTERNALLY INSPECT THE FUSELAGE SKIN PANEL AT STRINGERS AND FRAMES/BULKHEADS.
-  2 INTERNALLY INSPECT THE FUSELAGE SKIN LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.
-  3 INTERNALLY INSPECT THE PASSENGER CABIN FLOOR BEAMS AND COLUMNS.

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