



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

PASSENGER CABIN BOTTOM - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: EMB-145LR/LU/MR/MP/MK AND EMB-135LR/KE/KL MODELS

1. General

- A. This section gives the procedures to do the visual inspection of center fuselage III - passenger cabin bottom for general condition.
- B. Zones: 151/152/153/154/155/156/157.
- C. Zone Boundaries (EMB-145): STA X = 11990.0 thru STA X = 13601.0 and STA X = 16783.0 thru STA X = 17727.0.  
Zone Boundaries (EMB-135): STA X = 9984.0 thru STA X = 11595.0 and STA X = 14777.5 thru STA X = 15721.0.
- 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
05-20-67-200-801-A ♦	CENTER FUSELAGE III - PASSENGER CABIN BOTTOM - INTERNAL GENERAL VISUAL INSPECTION	EMB-145LR/LU/MR/MP/ MK AND EMB-135LR/KE/KL MODELS

**TASK 05-20-67-200-801-A**
**EFFECTIVITY: EMB-145LR/LU/MR/MP/MK AND EMB-135LR/KE/KL MODELS**
**2. CENTER FUSELAGE III - PASSENGER CABIN BOTTOM - INTERNAL GENERAL VISUAL INSPECTION**
**A. General**

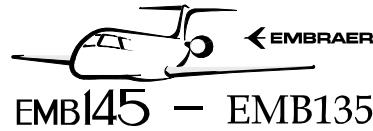
- (1) This procedure obeys the EWIS ICA requirement.
- (2) This task gives the instructions to do SMRD Zonal Task 53-Z151-214-002-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage III, zones 151/152/153/154/155/156/157, at a distance from which you can touch the items that you will examine.
- (4) The function of the internal general visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.
- (5) After you complete the procedures given in the Zonal Inspection task, you must do a General Visual Inspection (GVI) in all of the specified zones. The inspection must include all installations, components, and structures. Refer to the INTRODUCTION for zonal inspection criteria.

**B. References**

REFERENCE	DESIGNATION
AMM TASK 21-23-04-200-801-A/600	-
AMM TASK 21-23-04-200-802-A/600	-
<b>AMM TASK 21-24-02-200-801-A/600</b>	RECIRCULATION SYSTEM - GENERAL VISUAL INSPECTION
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
241	241DF	Passenger cabin floor
251	251AF	Passenger cabin floor
251	251BF	Passenger cabin floor
251	251CF	Passenger cabin floor



## AIRCRAFT MAINTENANCE MANUAL

(Continued)

ZONE	PANEL/DOOR	LOCATION
251	251DF	Passenger cabin floor
251	251EF	Passenger cabin floor
251	251FF	Passenger cabin floor
251	251GF	Passenger cabin floor
251	251HF	Passenger cabin floor
251	251JF	Passenger cabin floor
252	252AF	Passenger cabin floor
252	252BF	Passenger cabin floor
252	252CF	Passenger cabin floor
252	252DF	Passenger cabin floor

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
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 III - passenger cabin bottom

### I. Preparation (Figure 601) (Figure 602)

#### SUBTASK 841-007-B

- (1) Use table 601 to remove passenger-cabin floor panels as applicable to 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	PANELS
EMB-145	251AF, 251BF, 252AF, 252BF, 251DF, 251CF, 251JF, 251EF, 251FF, 252CF, 252DF, 251HF and 251GF
EMB-135	251AF, 241DF, 251CF, 251JF, 251DF, 252AF, 252BF, 252CF, 251FF, 252DF, 251HF and 251GF

- (2) Use table 602 to remove passenger-cabin floor panels as applicable to your aircraft (AMM TASK 53-01-02-000-802-A/400) ([Figure 602](#)).

Table 602 - PASSENGER-CABIN FLOOR PANELS

<b>AIRCRAFT</b>	<b>PANELS</b>
Aircraft for 16 passengers	251AF, 251BF, 251CF, 251DF, 251EF, 251FF, 251GF, 251HF, 251JF, 252AF, 252BF, 252CF and 252DF

- (3) Remove the thermoacoustic insulation from center fuselage III, zones 151/152/153/154/155/156/157 (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 603](#)) ([Figure 604](#))**

**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, painting condition, 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 603](#)).
- (3) Examine the control cables from rudder and elevator and hydraulic lines for attachment, cracks, crushing, deformation, broken strands, deterioration, friction, and overheating.
- (4) Examine the mufflers, muffler screens, bleed air ducts, and air conditioning ducts and outlets for attachment, cracks, crushing, deformation, deterioration, signs of leakage, and overheating at the connections ([Figure 604](#)).
- (5) Do an inspection of the inlet muffler of the gasper system (AMM TASK 21-23-04-200-801-A/600) or (AMM TASK 21-23-04-200-802-A/600), as applicable and of the inlet muffler of the recirculation system ([AMM TASK 21-24-02-200-801-A/600](#)) for dirt and/or obstruction.
- (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 151/152/153/154/155/156/157 (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 Aircraft Maintenance Program.



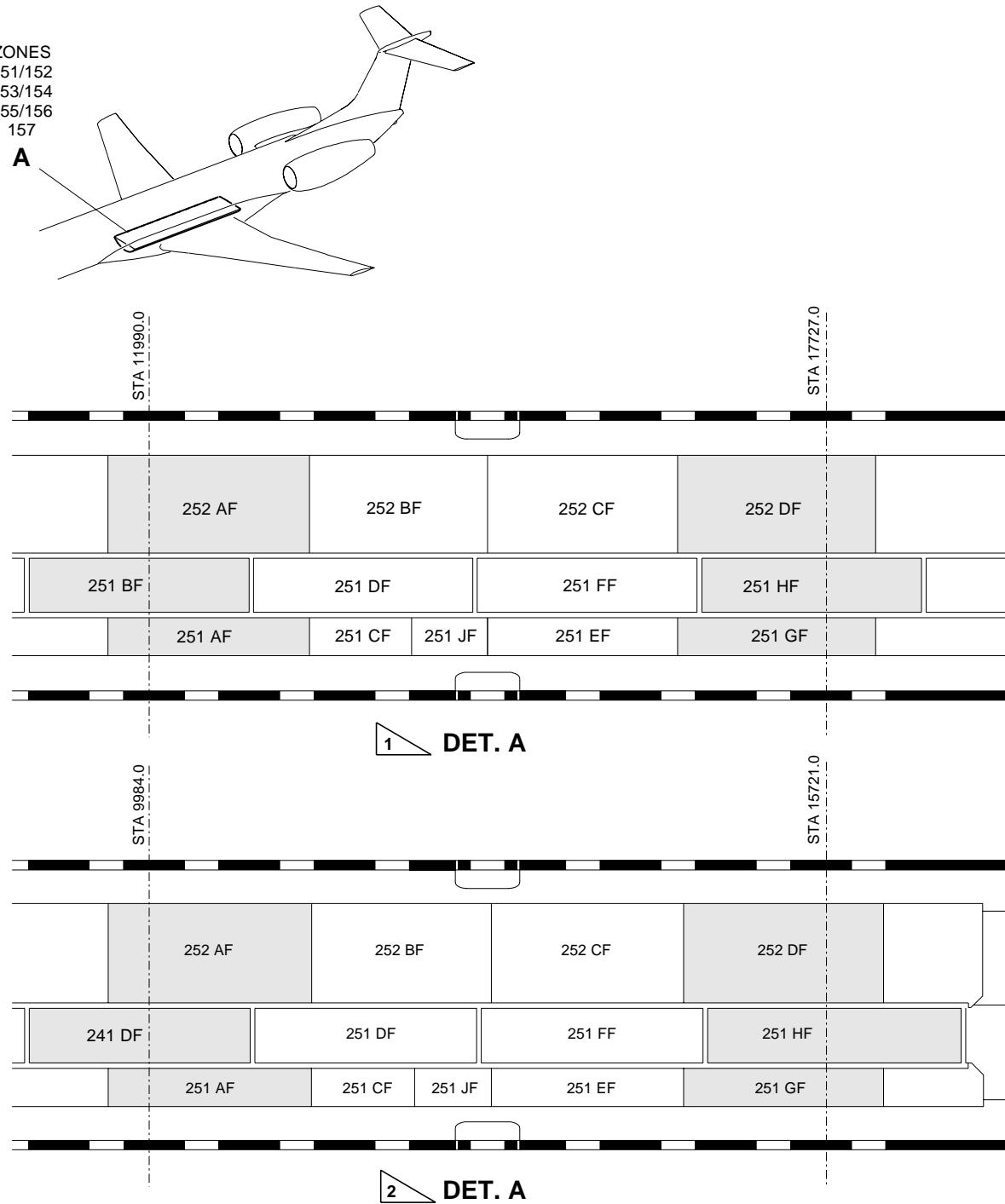
AIRCRAFT  
MAINTENANCE MANUAL

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- (3) Use table 601 or table 602, as applicable, 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: EMB-145LR/LU/MR/MP/MK AND EMB-135LR/KE/KL MODELS**

Center Fuselage III - Passenger Cabin Bottom - Floor Panels

Figure 601

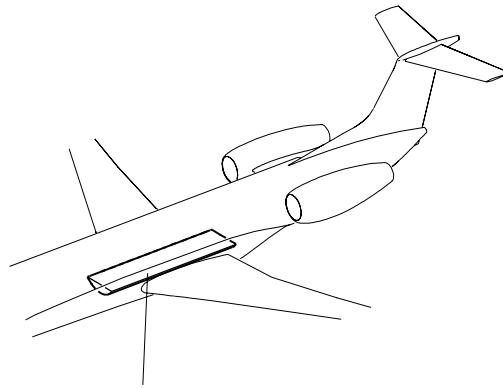


**1** APPLICABLE TO EMB-145 (ALL) MODELS

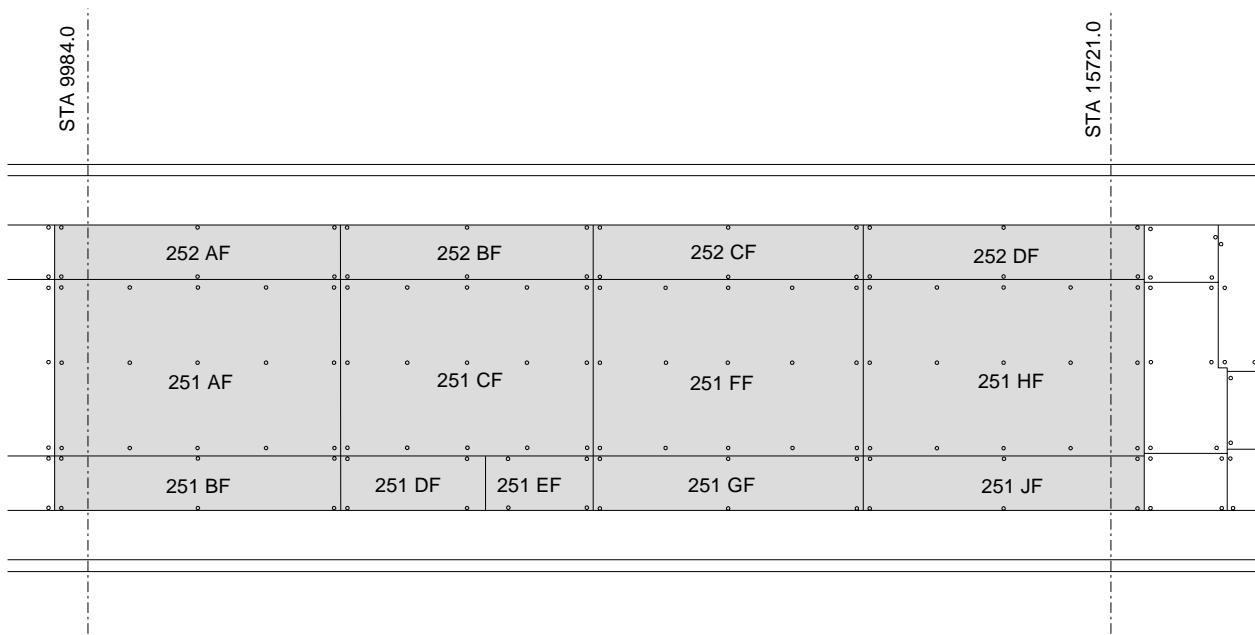
**2** APPLICABLE TO EMB-135 (ALL) MODELS

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**EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS**  
**Center Fuselage III - Passenger Cabin Bottom - Floor Panels**  
**Figure 602**



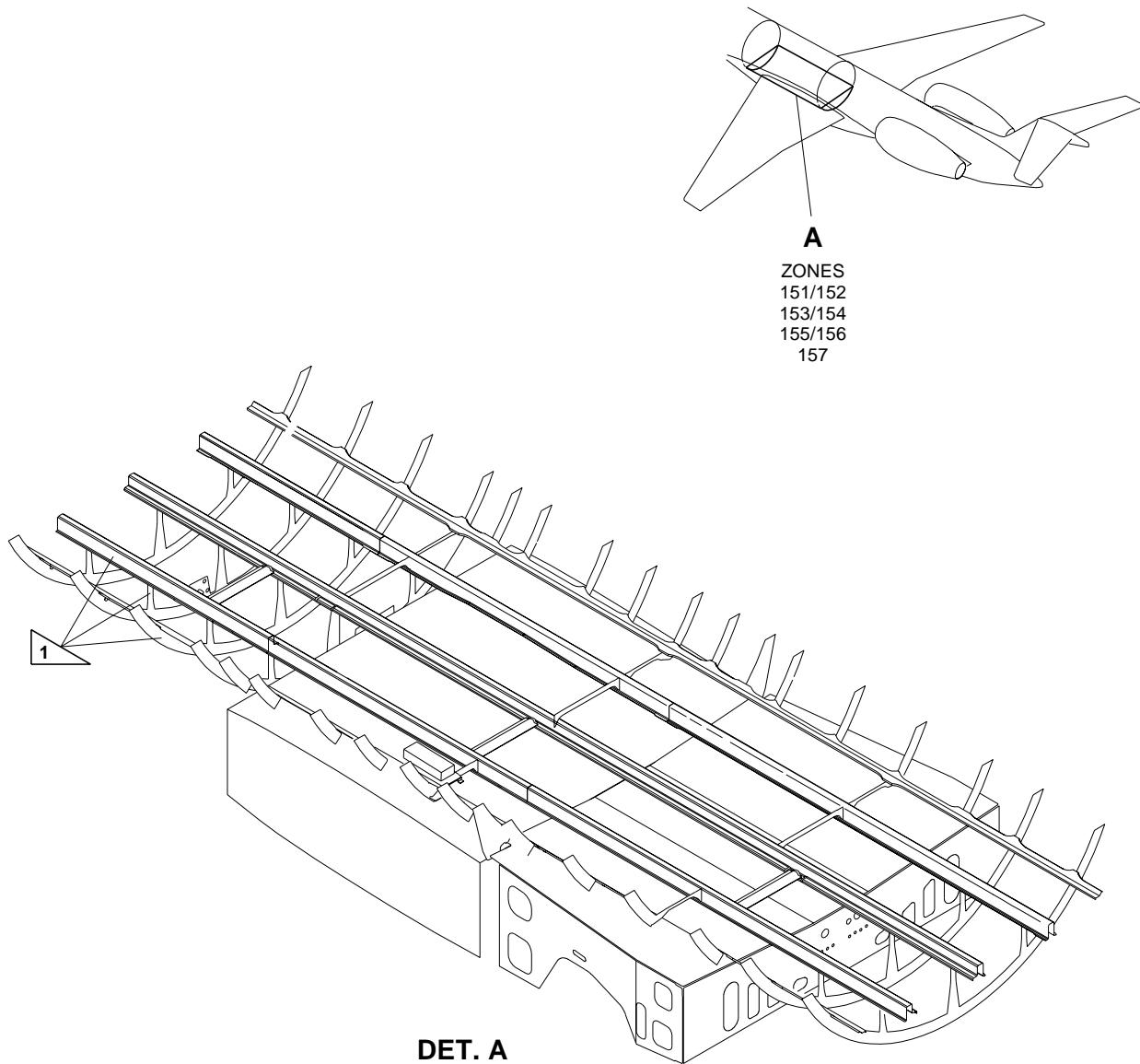
**A**  
**ZONES**  
 151/152  
 153/154  
 155/156  
 157



**DET. A**

EM145AMM050800A.DGN

**EFFECTIVITY: EMB-145LR/LU/MR/MP/MK AND EMB-135LR/KE/KL MODELS**  
Center Fuselage III - Passenger Cabin Bottom - Internal General Visual Inspection  
Figure 603



1 INTERNALLY INSPECT FUSELAGE AT FRAMES/BULKHEADS, BEAMS AND COLUMNS.

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**EFFECTIVITY: EMB-145LR/LU/MR/MP/MK AND EMB-135LR/KE/KL MODELS**  
 Center Fuselage III - Passenger Cabin Bottom - Air Conditioning and Bleed Air Components  
 Figure 604

