

CENTER FUSELAGE II - 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 II - passenger cabin bottom for general condition.
- B. Zones: 141/142.
- C. (Applicable to EMB-145 () models) Zone Boundaries: STA X = 7131.0 thru STA X = 11990.0.
(Applicable to EMB-135 () models) Zone Boundaries: STA X = 7131.0 thru STA X = 9984.0.
- 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
05-20-22-200-801-A ♦	CENTER FUSELAGE II - PASSENGER CABIN BOTTOM - INTERNAL GENERAL VISUAL INSPECTION	ACFT MODEL(S) EMB-145

TASK 05-20-22-200-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. CENTER FUSELAGE II - 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-Z141-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage II, at zones 141/142, within a touching distance from 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

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 12-23-00-600-801-A/300	-
AMM TASK 25-81-01-800-801-A/200	THERMOACOUSTIC INSULATION - DISPLACEMENT
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 53-01-02-000-801-A/400	-
AMM TASK 53-01-02-400-801-A/400	-
WM 20-22-00	-

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
241	241AF	Passenger cabin floor
241	241BF	Passenger cabin floor
241	241CF	Passenger cabin floor
241	241DF	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

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 II - passenger cabin bottom

I. Preparation ([Figure 601](#))
SUBTASK 841-005-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) ([Figure 601](#)).

Table 601 - PASSENGER-CABIN FLOOR PANELS

AIRCRAFT MODELS	PANELS
EMB-145 ()	242AF, 242BF, 241BF, 241CF, 241AF, 242CF, 241EF, 241DF, 242CF and 242DF
EMB-135 ()	242AF, 242BF, 241BF, 241AF, 241EF and 241DF

- (2) Do the thermoacoustic insulation displacement of center fuselage II to zones 141/142 ([AMM TASK 25-81-01-800-801-A/200](#)) as applicable to cover the inspection area.

J. Internal General Visual Inspection ([Figure 602](#)) ([Figure 603](#))
SUBTASK 212-005-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 602](#)).

- (3) Examine the interior of the passenger cabin bottom for loose rivets, cracks, deformation, distortion, wrinkles, erosion, corrosion, and deteriorated protective treatment (Figure 602).
- (4) Examine drains for signs of corrosion. Also do a check for blockage and correct operation (AMM TASK 12-23-00-600-801-A/300).
- (5) 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 air conditioning ducts and outlets (Figure 603), and hydraulic lines.
- (6) Examine the EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00

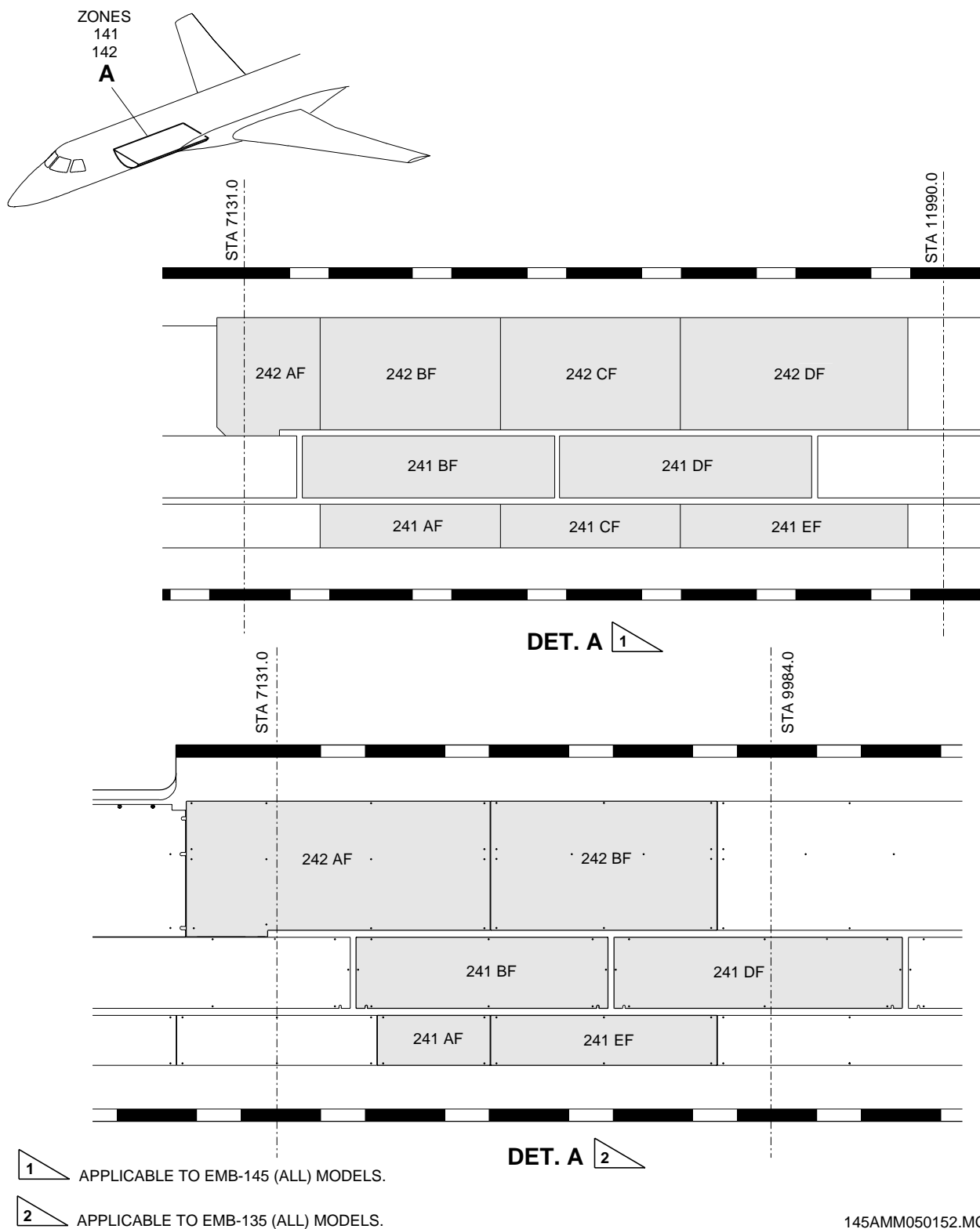
K. Follow-on

SUBTASK 842-005-B

- (1) 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.
- (2) Use table 601 to install passenger-cabin floor panels as applicable to your aircraft (AMM TASK 53-01-02-400-801-A/400).

EFFECTIVITY: ACFT MODEL(S) EMB-145
Center Fuselage II - Passenger Cabin Bottom - Floor Panels
Figure 601

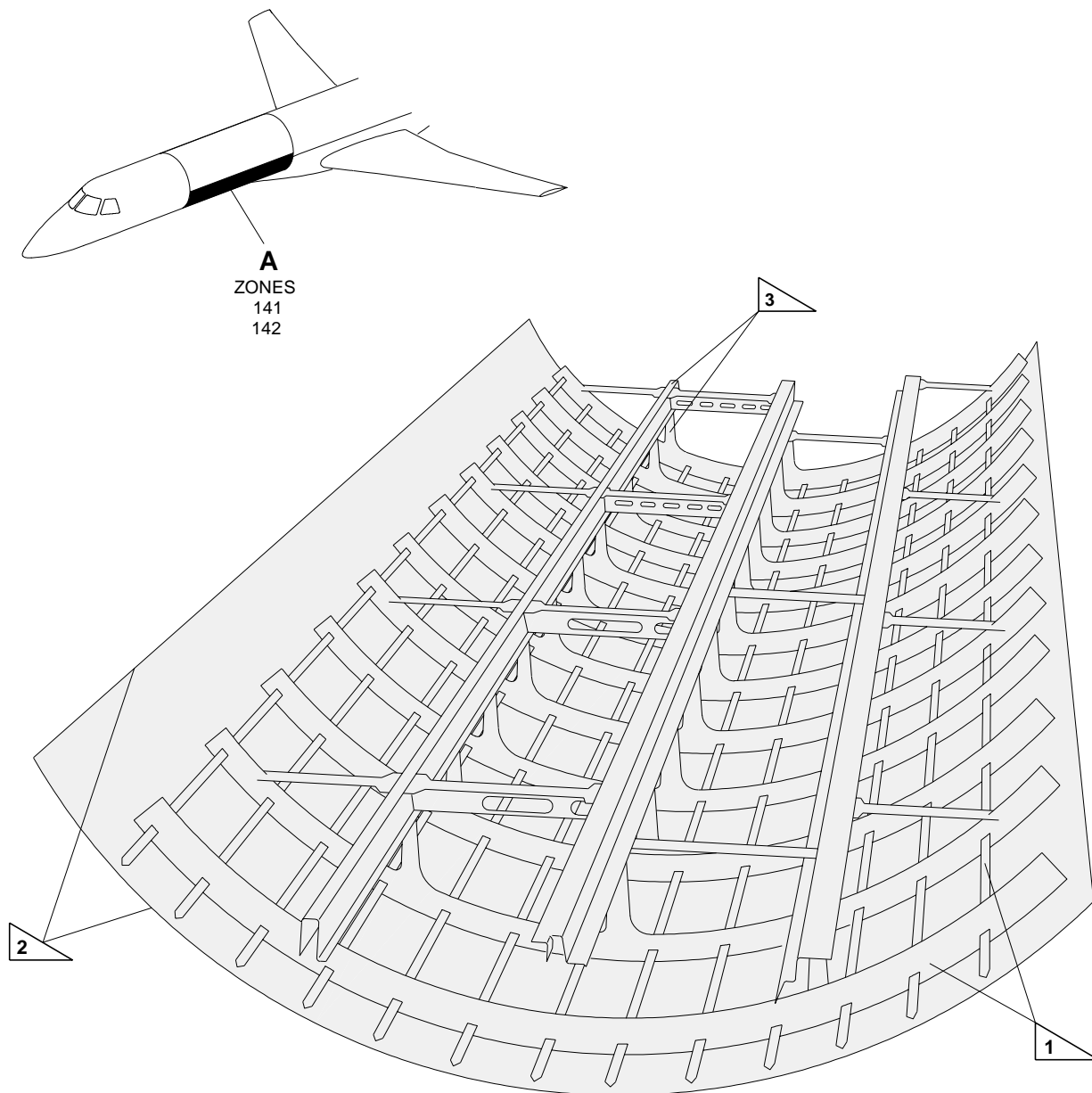


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


EFFECTIVITY:: ACFT MODEL(S) EMB-145

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

Figure 602



DET. A

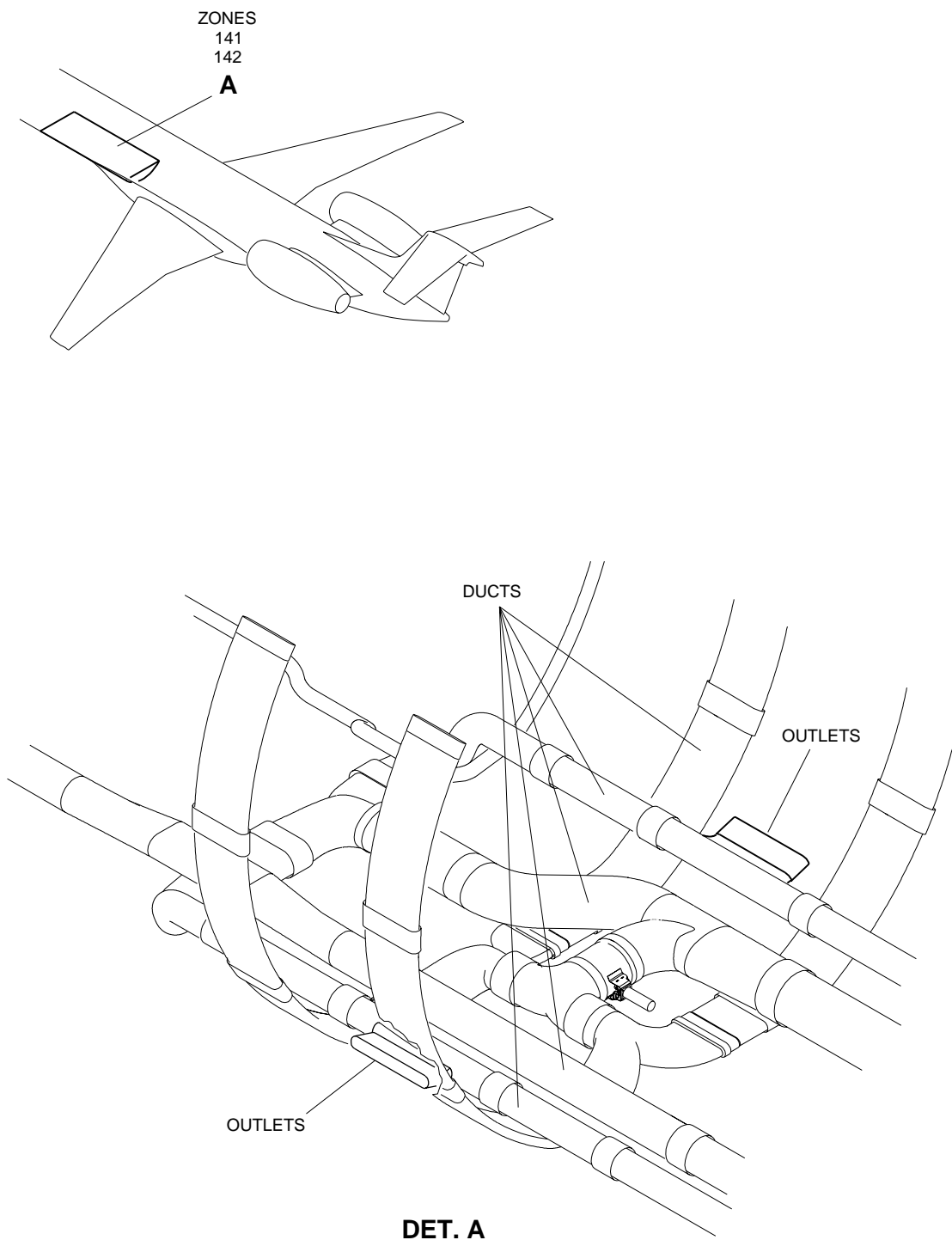
-  INTERNALLY INSPECT SKIN PANEL AT STRINGERS, FRAMES/BULKHEADS.
-  INTERNALLY INSPECT SKIN LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.
-  INTERNALLY INSPECT THE PASSENGER-CABIN FLOOR BEAMS COLLUMS.

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EFFECTIVITY:: ACFT MODEL(S) EMB-145

Center Fuselage II - Passenger Cabin Bottom - Air Conditioning System

Figure 603



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