

PASSENGER CABIN BOTTOM FOR ER/EP/EU MODELS - INSPECTION/CHECK

EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER 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.
- C. Zone Boundaries (EMB-145): STA X = 11990.0 thru STA X = 17727.0.
Zone Boundaries (EMB-135): STA X = 9984.0 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
05-20-27-200-801-A ♦	CENTER FUSELAGE III - PASSENGER CABIN BOTTOM - INTERNAL GENERAL VISUAL INSPECTION	EMB-145ER/EP/EU AND EMB-135ER MOD-ELS
05-20-27-200-802-A ♦	CENTER FUSELAGE III - WING STUB - INTERNAL GENERAL VISUAL INSPECTION	EMB-145ER/EP/EU AND EMB-135ER MOD-ELS

TASK 05-20-27-200-801-A

EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER 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 instructions to do SMRD Zonal Task 53-Z151-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage III, at zones 151/152/153/154/155/156, 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 AMM 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	-
AMM TASK 21-24-02-200-801-A/600	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
251	251DF	Passenger cabin floor

(Continued)

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

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
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

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Center fuselage III - Passenger cabin bottom

I. Preparation ([Figure 601](#))
SUBTASK 841-002-A

- (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	252AF, 252BF, 252CF, 252DF, 251BF, 251DF, 251FF, 251HF, 251AF, 251CF, 251JF, 251EF, and 251GF
EMB-135	252AF, 252BF, 252CF, 252DF, 241DF, 251DF, 251FF, 251HF, 251AF, 251CF, 251JF, 251EF, and 251GF

- (2) Remove the thermoacoustic insulation from center fuselage III to zones 151/152/153/154 (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 212-002-A

- (1) 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](#)).
- (2) Examine the upper fuselage to wing stub for scratches, gouges, creases, cracks, nicks, dents, corrosion, erosion, and missing rivets ([Figure 602](#)).
- (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 over heating at the connections ([Figure 603](#)).
- (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 do 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 842-002-A

- (1) Install the thermoacoustic insulation to zones 151/152/153/154 (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: EMB-145ER/EP/EU AND EMB-135ER MODELS

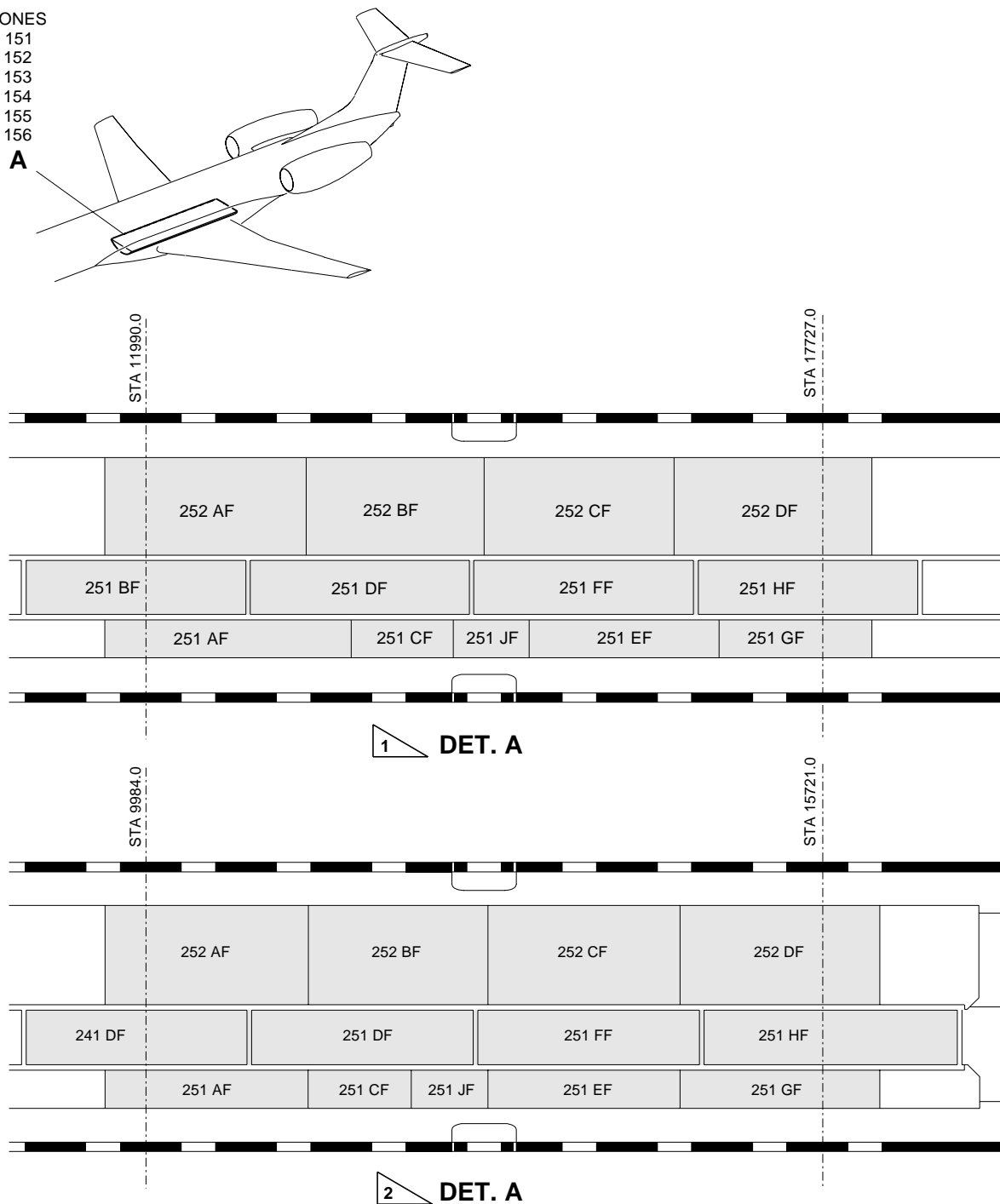
Center Fuselage III - Passenger Cabin Bottom - Floor Panels

Figure 601

ZONES

151
152
153
154
155
156

A



1

APPLICABLE TO EMB-145 (ALL) MODELS

2

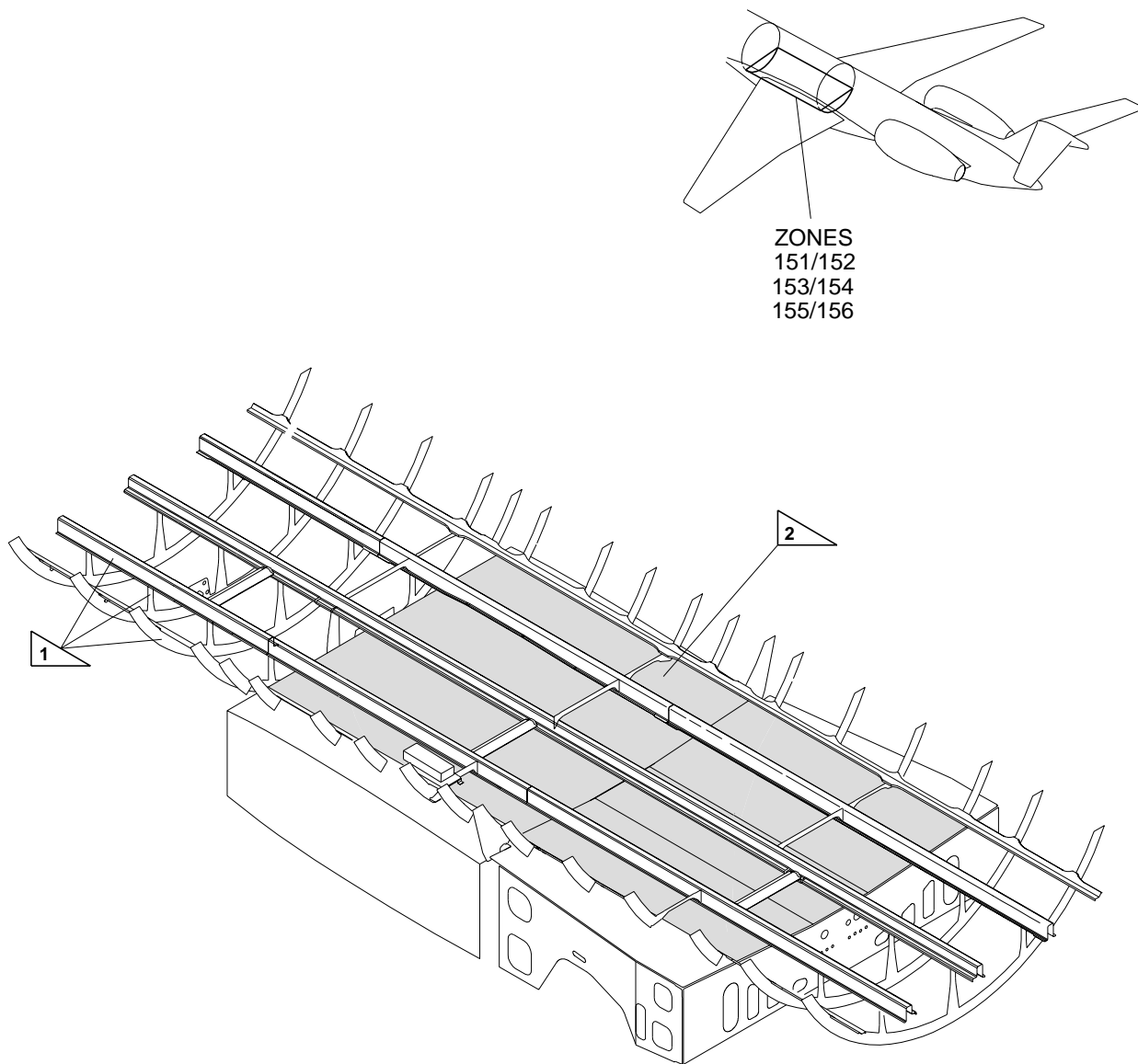
APPLICABLE TO EMB-135 (ALL) MODELS

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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

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

Figure 602



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

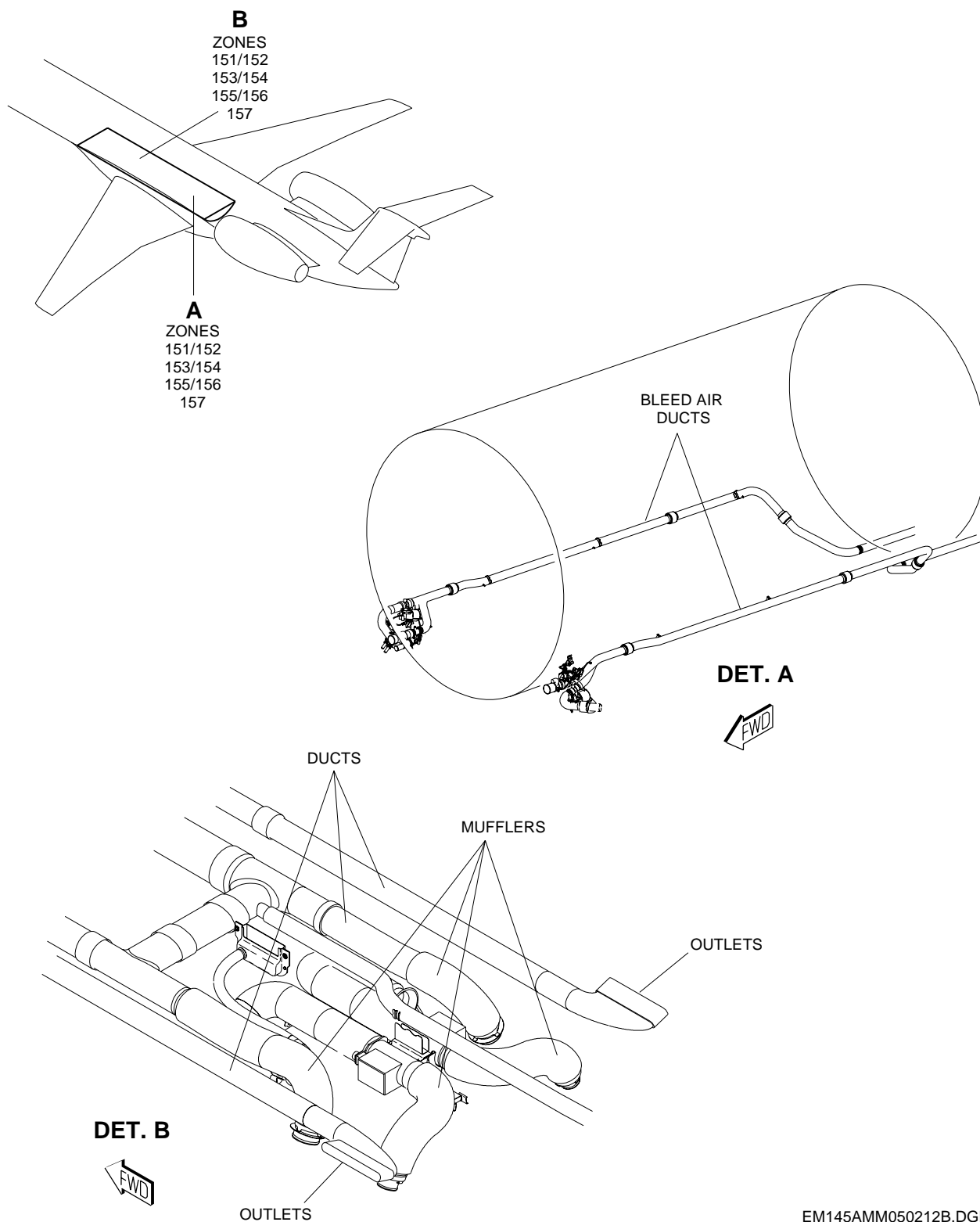
2 INTERNALLY INSPECT THE WING STUB STRUCTURE.

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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

Center Fuselage III - Passenger Cabin Bottom - Air Conditioning and Bleed Air Components

Figure 603



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TASK 05-20-27-200-802-A

EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

3. CENTER FUSELAGE III - WING STUB - 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-Z155-214-002-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage III, wing stub internal area, at zones 155/156, 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 AMM Introduction for zonal inspection criteria.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
AMM TASK 28-41-00-200-801-A/600	-
WM 20-22-00	-

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
155	155BZ	Wing stub
155	155CZ	Wing stub
155	155DZ	Main landing gear compartment
155	155EZ	Main landing gear compartment
155	155FZ	Main landing gear compartment
155	155GZ	Main landing gear compartment
155	155KZ	Main landing gear compartment
155	155LZ	Main landing gear compartment
155	155MZ	Main landing gear compartment
155	155QZ	Main landing gear compartment
156	156BZ	Wing stub
156	156CZ	Wing stub
156	156DZ	Main landing gear compartment
156	156EZ	Main landing gear compartment
156	156FZ	Main landing gear compartment
156	156GZ	Main landing gear compartment

(Continued)

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
156	156KZ	Main landing gear compartment
156	156LZ	Main landing gear compartment
156	156MZ	Main landing gear compartment
156	156QZ	Main landing gear compartment
192	192AL	Wing-to-fuselage fairing
192	192BR	Wing-to-fuselage fairing

D. Tools and Equipment

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
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

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Center fuselage III - Wing Stub internal area

I. Preparation ([Figure 604](#)) (Figure 603)

SUBTASK 841-003-A

- (1) Open wing stub access doors and panels 192AL, 192BR, 155BZ, 155CZ, 156BZ and 156CZ (AMM MPP 06-41-01/100) (Figure 603).
- (2) Open main landing gear compartment access doors and panels 155DZ, 155EZ, 155FZ, 155GZ, 155KZ, 155LZ, 155MZ, 155QZ, 156DZ, 156EZ, 156FZ, 156GZ, 156KZ, 156LZ, 156MZ and 156QZ (AMM MPP 06-41-01/100) ([Figure 604](#)).

J. Internal General Visual Inspection ([Figure 605](#))

SUBTASK 212-003-A

- (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 exterior 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.

- (3) Examine the interior of the wing stub for general condition: deformations, nicks, cracks, dents, scratches, gouges, creases, erosion, corrosion, and foreign objects.
- (4) Examine the control cables from rudder and elevator and hydraulic lines for attachment, cracks, crushing, deformation, broken strands, deterioration, friction, and overheating.
- (5) Examine the hydraulic-system priority valve, aileron solenoid manifold, speed brake valve, brake shutoff valve, brake control valve (Figure 605).
- (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 842-003-A

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

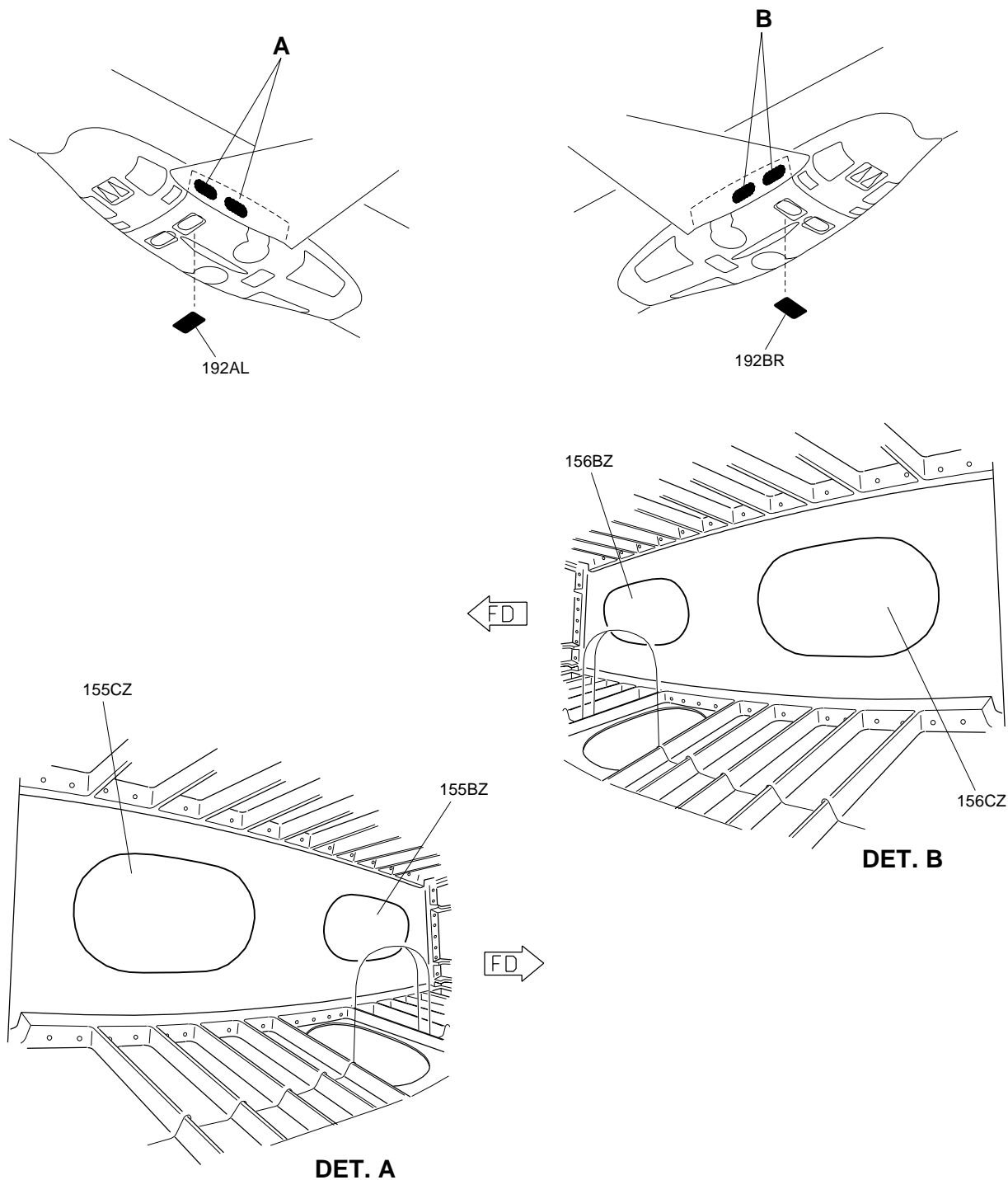
NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (2) Close wing stub access doors and panels 155BZ, 155CZ, 156BZ, 156CZ, 192AL and 192BR (AMM MPP 06-41-01/100).
- (3) Close main landing gear compartment access doors and panels 155DZ, 155EZ, 155FZ, 155GZ, 155KZ, 155LZ, 155MZ, 155QZ, 156DZ, 156EZ, 156FZ, 156GZ, 156KZ, 156LZ, 156MZ and 156QZ (AMM MPP 06-41-01/100).

EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

Center Fuselage III - Passenger Cabin Bottom - Wing Stub Access Doors and Panels

Figure 604

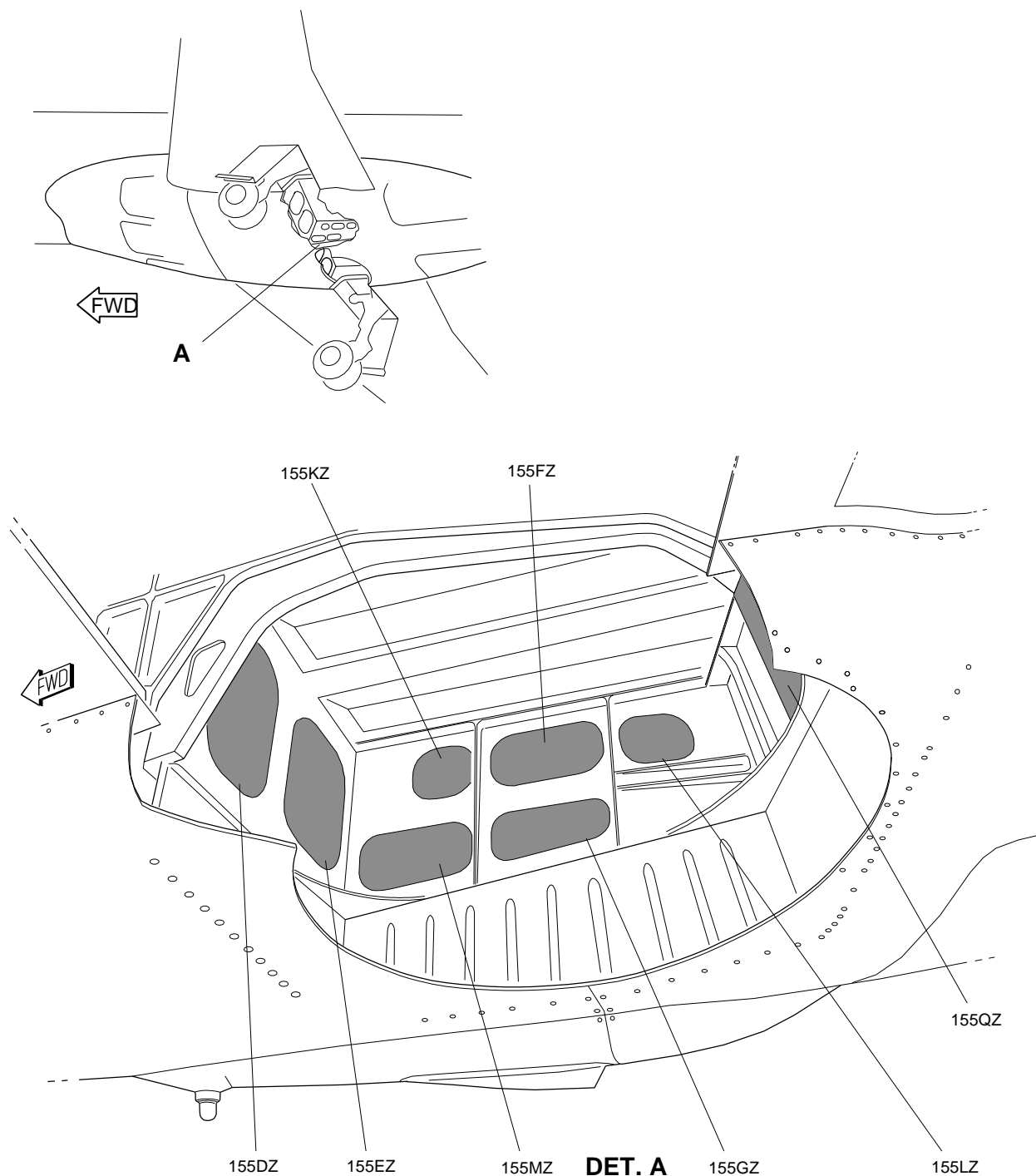


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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

Center Fuselage III - Passenger Cabin Bottom - Main Landing Gear Compartment Access Doors and Panels

Figure 605 - Sheet 1

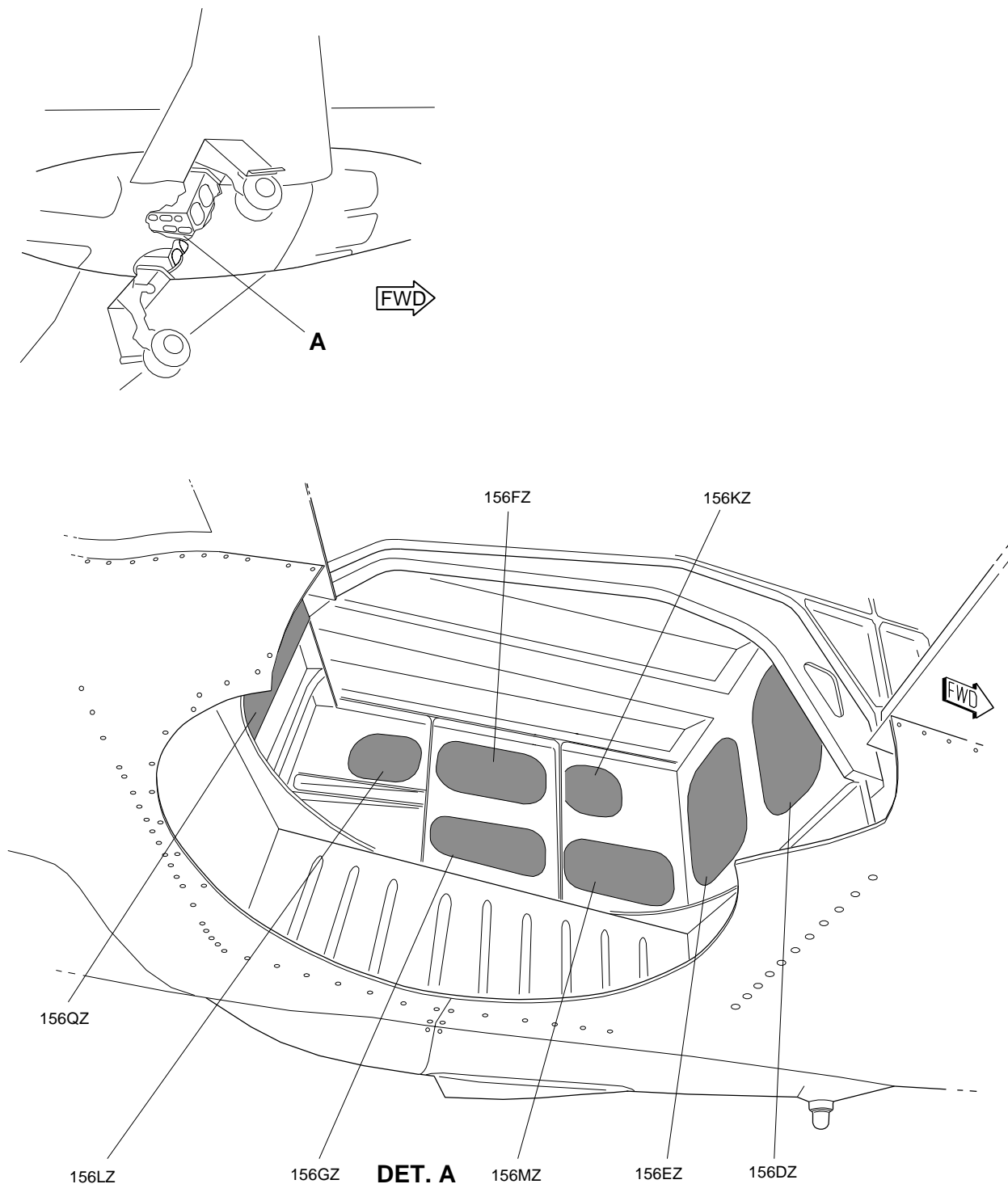


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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

Center Fuselage III - Passenger Cabin Bottom - Main Landing Gear Compartment Access Doors and Panels

Figure 605 - Sheet 2

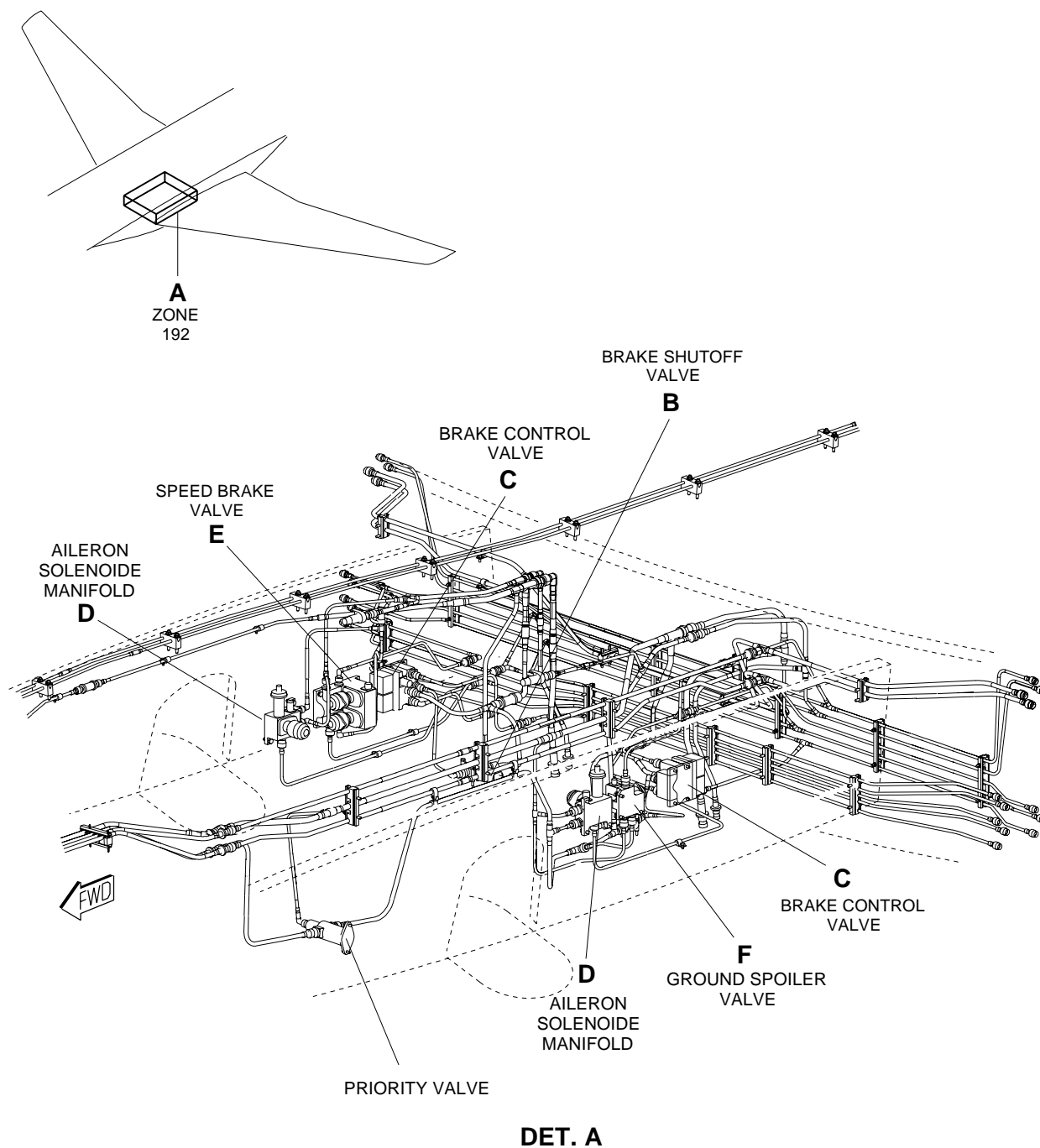


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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

Center Fuselage III - Passenger Cabin Bottom - Systems and Components

Figure 606



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