



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

CENTER FUSELAGE II - PASSENGER CABIN BOTTOM - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: ACFT MODEL(S) EMB-135

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-135 |

TASK 05-20-22-200-801-A
EFFECTIVITY: ACFT MODEL(S) EMB-135

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

A. General

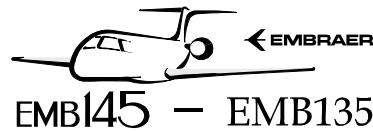
- (1) This procedure obeys the EWIS ICA requirement.
- (2) This task gives instructions to do SMRD Zonal Task 53-Z141-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage II, at zones 141/142, within a touching distance from the items examined.
- (4) The function 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 53-01-02-000-802-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

| <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 |



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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](#)) ([Figure 602](#))

SUBTASK 841-006-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) Use table 602 to remove the passenger-cabin floor panels as applicable from your aircraft (AMM TASK 53-01-02-000-802-A/400) ([Figure 602](#)).

Table 602 - PASSENGER-CABIN FLOOR PANELS

| AIRCRAFT MODELS | PANELS |
|----------------------------|---|
| Aircraft for 16 passengers | 242AF, 242BF, 241BF, 241AF, 241CF and 241DF |

- (3) 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.



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J. Internal General Visual Inspection ([Figure 603](#)) ([Figure 604](#))

SUBTASK 212-006-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 interior of the passenger cabin bottom for loose rivets, cracks, deformation, distortion, wrinkles, erosion, corrosion, and deteriorated protective treatment ([Figure 603](#)).
- (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 604](#)), 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

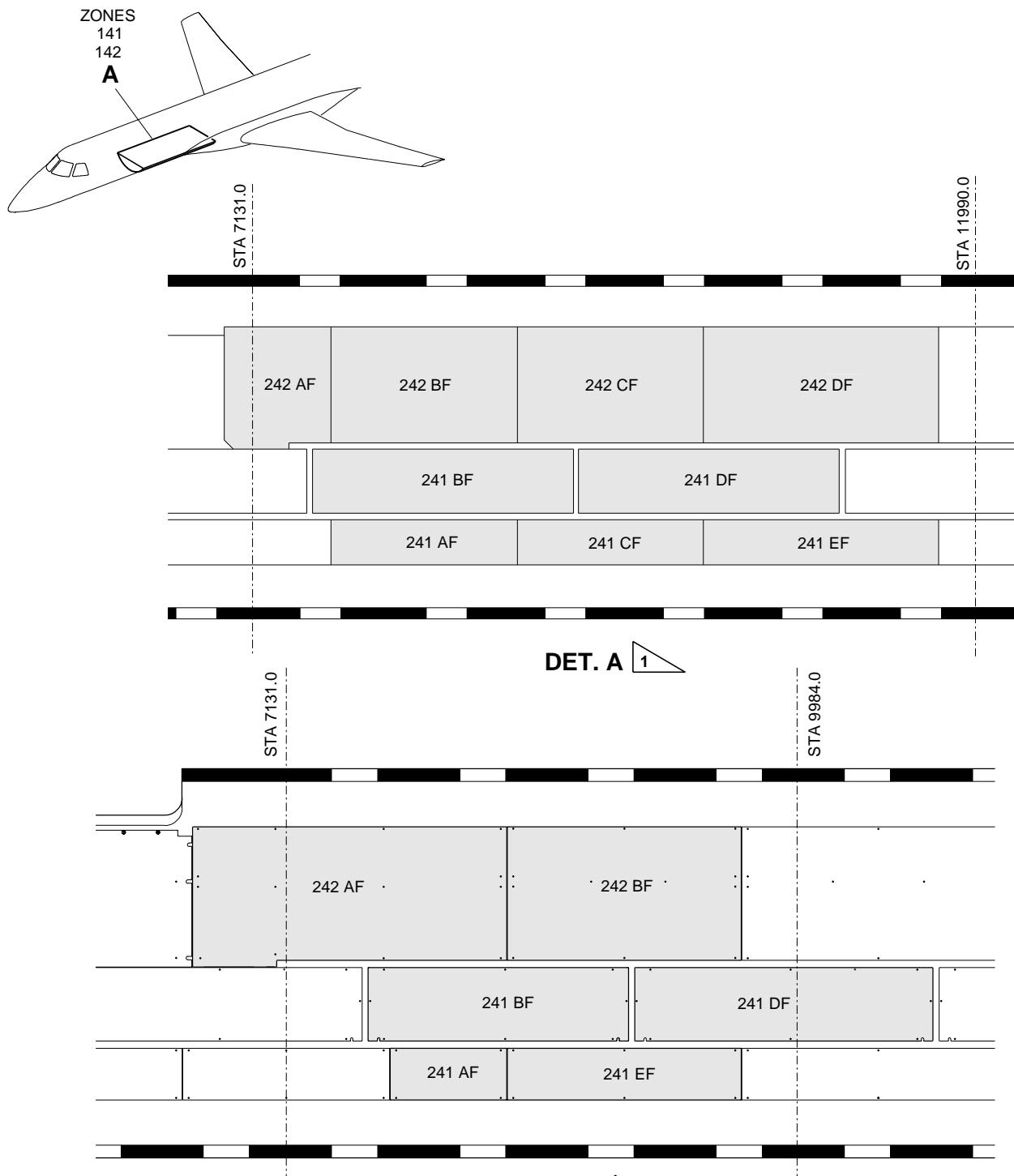
SUBTASK 842-006-B

- (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 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: ACFT MODEL(S) EMB-135
 Center Fuselage II - Passenger Cabin Bottom - Floor Panels
 Figure 601



1 APPLICABLE TO EMB-145 (ALL) MODELS.

DET. A **2**

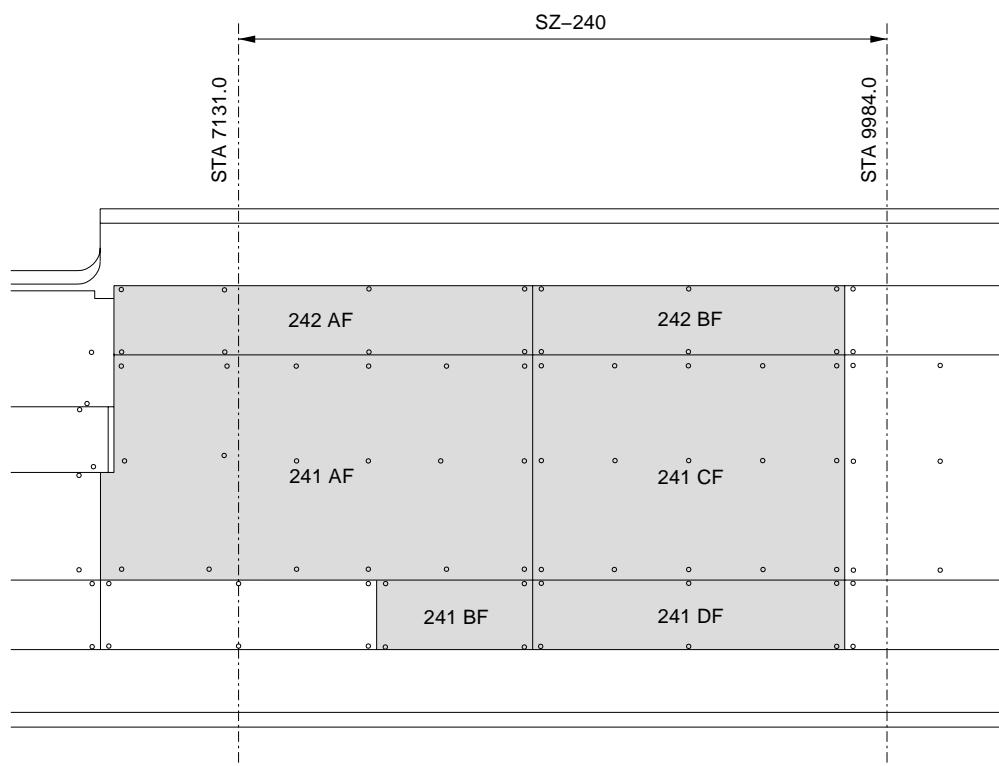
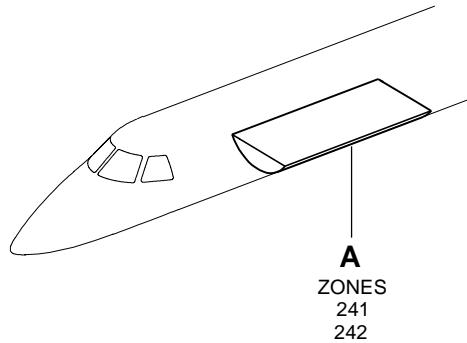
2 APPLICABLE TO EMB-135 (ALL) MODELS.

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EFFECTIVITY: AIRCRAFT FOR 16 PASSENGERS

Center Fuselage II - Passenger Cabin Bottom - Floor Panels

Figure 602

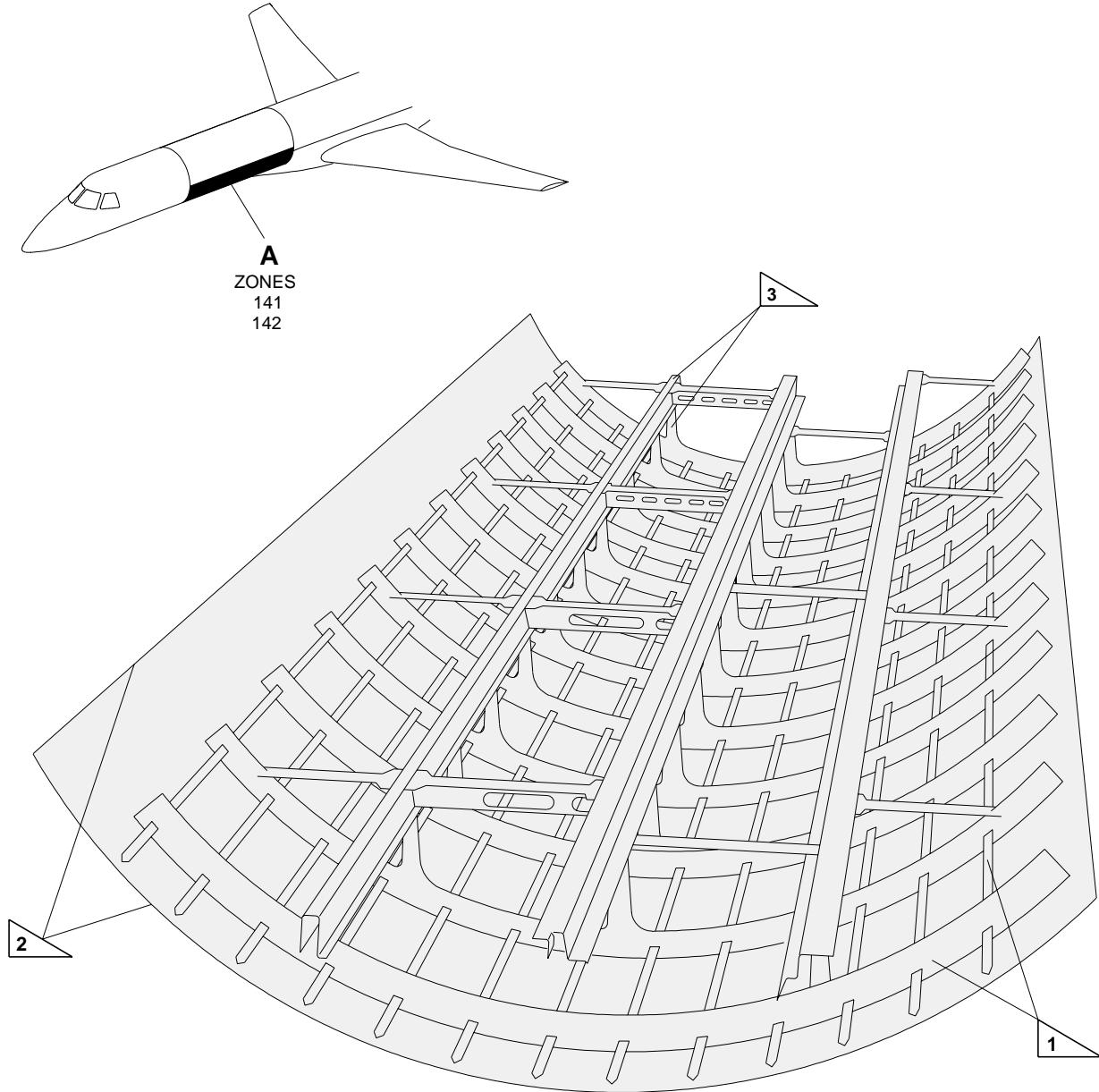


DET. A

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EFFECTIVITY: ACFT MODEL(S) EMB-135

Center Fuselage II - Passenger Cabin Bottom - Internal General Visual Inspection
Figure 603



DET. A

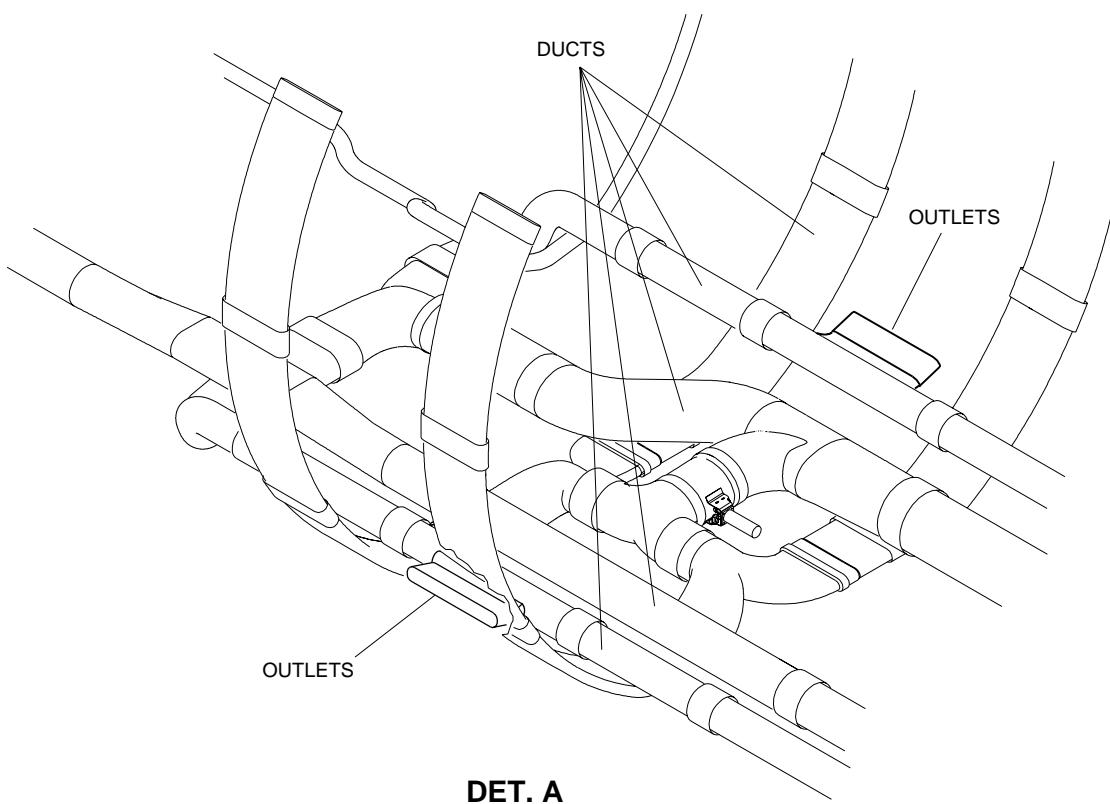
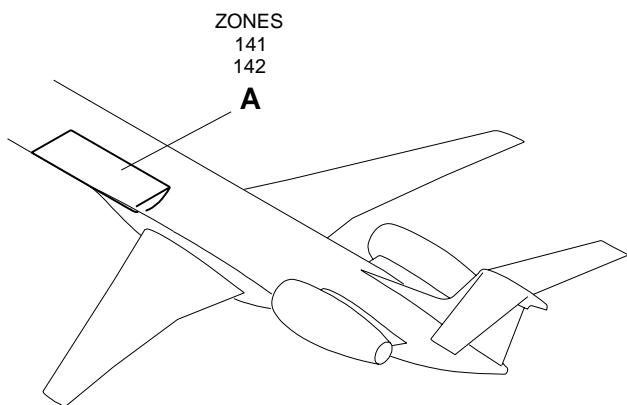
-  1 INTERNALLY INSPECT SKIN PANEL AT STRINGERS, FRAMES/BULKHEADS.
-  2 INTERNALLY INSPECT SKIN LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.
-  3 INTERNALLY INSPECT THE PASSENGER-CABIN FLOOR BEAMS COLLUMS.

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EFFECTIVITY: ACFT MODEL(S) EMB-135

Center Fuselage II - Passenger Cabin Bottom - Air Conditioning System

Figure 604



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