

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

EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS OR EMB-145/ER/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, 161, 162, 191, 192, 193, 194, and 195.
- C. (Applicable to EMB-145 (ALL) models) Zone Boundaries: STA X = 11990.0 thru STA X = 17727.0.
(Applicable to EMB-135 (ALL) models) Zone Boundaries: STA X = 9984.0 thru STA X = 15721.0.
(Applicable to EMB-145 (ALL) models) Zone Boundaries: STA X = 17727.0 thru STA X = 20793.0.
(Applicable to EMB-135 (ALL) models) Zone Boundaries: STA X = 15721.0 thru STA X = 17253.0.
- 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
05-20-26-200-801-A	CENTER FUSELAGE III - PASSENGER CABIN BOTTOM - EXTERNAL GENERAL VISUAL INSPECTION	EMB-145ER/EP/EU AND EMB-135ER MODELS OR EMB-145/ER/EP/EU AND EMB-135ER MODELS
05-20-26-200-805-A	WING-TO-FUSELAGE FAIRING - INTERNAL GENERAL VISUAL INSPECTION	EMB-145ER/EP/EU AND EMB-135ER MODELS

TASK 05-20-26-200-801-A

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

2. CENTER FUSELAGE III - PASSENGER CABIN BOTTOM - EXTERNAL GENERAL VISUAL INSPECTION

A. General

- (1) This task gives instructions to do SMRD Zonal Task 53-Z151-213-001-A00.
- (2) You must do the external general visual inspection (GVI) of center fuselage III, in zones 151/152/153/154/155/156, at a distance from which you can touch the items that you will examine.
- (3) The function of the external general visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 12-22-00-600-801-A/300	LIGHT DIRT - SERVICING
AMM TASK 12-22-00-600-802-A/300	HEAVY DIRT - SERVICING
AMM TASK 28-41-00-200-801-A/600	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Wing-to-fuselage fairing
191	191FR	Wing-to-fuselage fairing
191	191GL	Wing-to-fuselage fairing
192	192AL	Wing-to-fuselage fairing
192	192BR	Wing-to-fuselage fairing
193	193BL	Wing-to-fuselage fairing
193	193CR	Wing-to-fuselage fairing
193	193LL	Wing-to-fuselage fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Screwdriver	To open the access panels 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 III - passenger cabin bottom

I. Preparation (Figure 601)

SUBTASK 841-002-A

- (1) If necessary, clean the inspection area (AMM TASK 12-22-00-600-801-A/300) or (AMM TASK 12-22-00-600-802-A/300) as applicable.
- (2) Open access panels 191EL, 191FR, 191GL, 192AL, 192BR, 193BL, 193CR, and 193LL (AMM MPP 06-41-01/100) (Figure 601).

J. External General Visual Inspection (Figure 602)

SUBTASK 212-002-A

- (1) Examine the fuselage zone for painting bad condition, loose rivets, nicks, skin deformation, sealant condition, warps, scratches, gouges, creases, cracks, dents, erosion, corrosion, deteriorated protective treatment, and foreign objects.
- (2) Examine the fuselage skin panel at stringers, frames/bulkheads, and splices for loose rivets, nicks, cracks, dents, warps, erosion, corrosion, and deteriorated protective treatment (Figure 602).
- (3) Examine the fuselage skin longitudinal and circumferential splices for loose rivets, nicks, cracks, dents, erosion, corrosion, and deteriorated protective treatment (Figure 602).
- (4) Examine the wing stub for cracks, nicks, dents, corrosion, erosion, and loose rivets (Figure 602).

K. Follow-on

SUBTASK 842-002-A

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

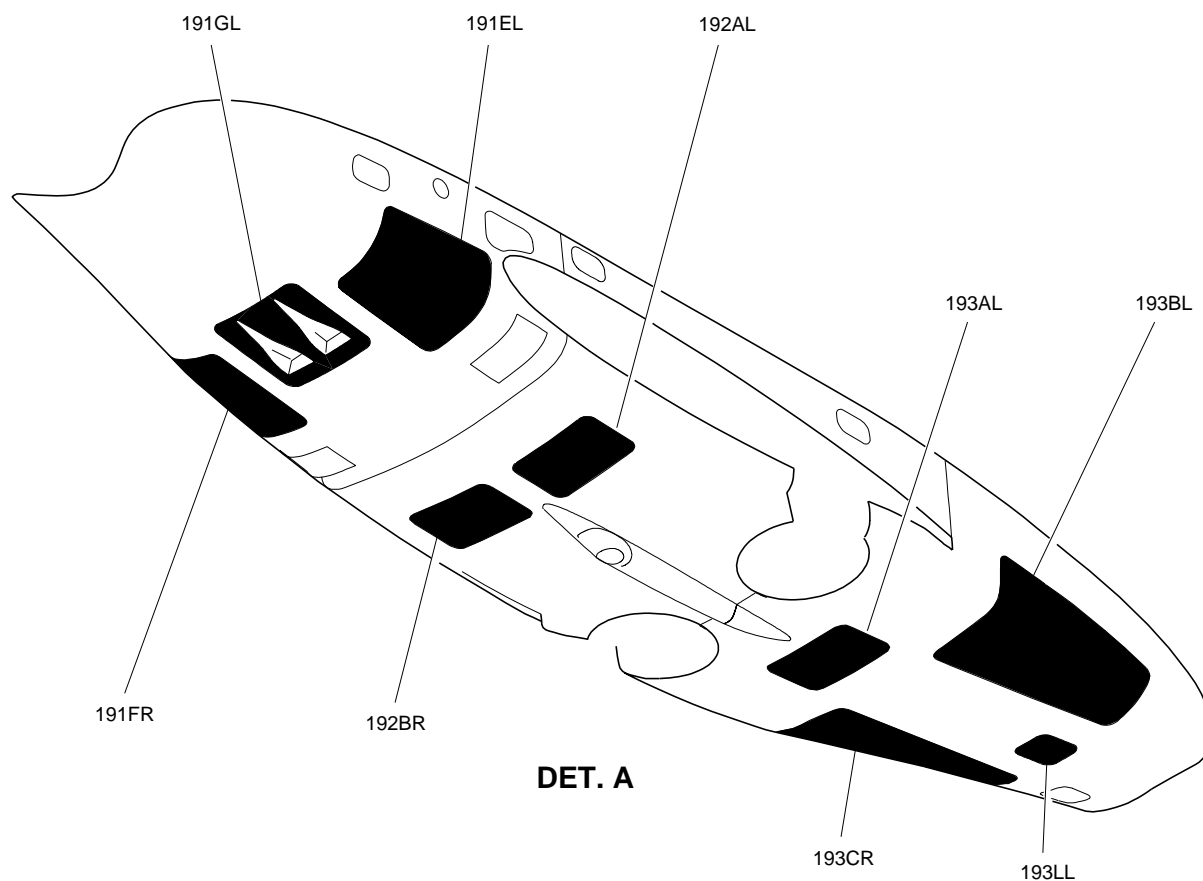
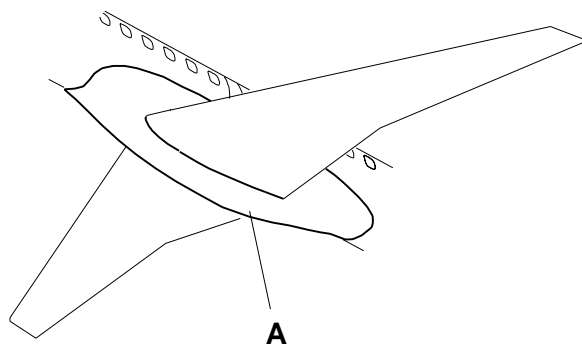
NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (2) Close access panels 191EL, 191FR, 191GL, 192AL, 192BR, 193BL, 193CR, and 193LL (AMM MPP 06-41-01/100).

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

Center Fuselage III - Passenger Cabin Bottom - Access Panels

Figure 601

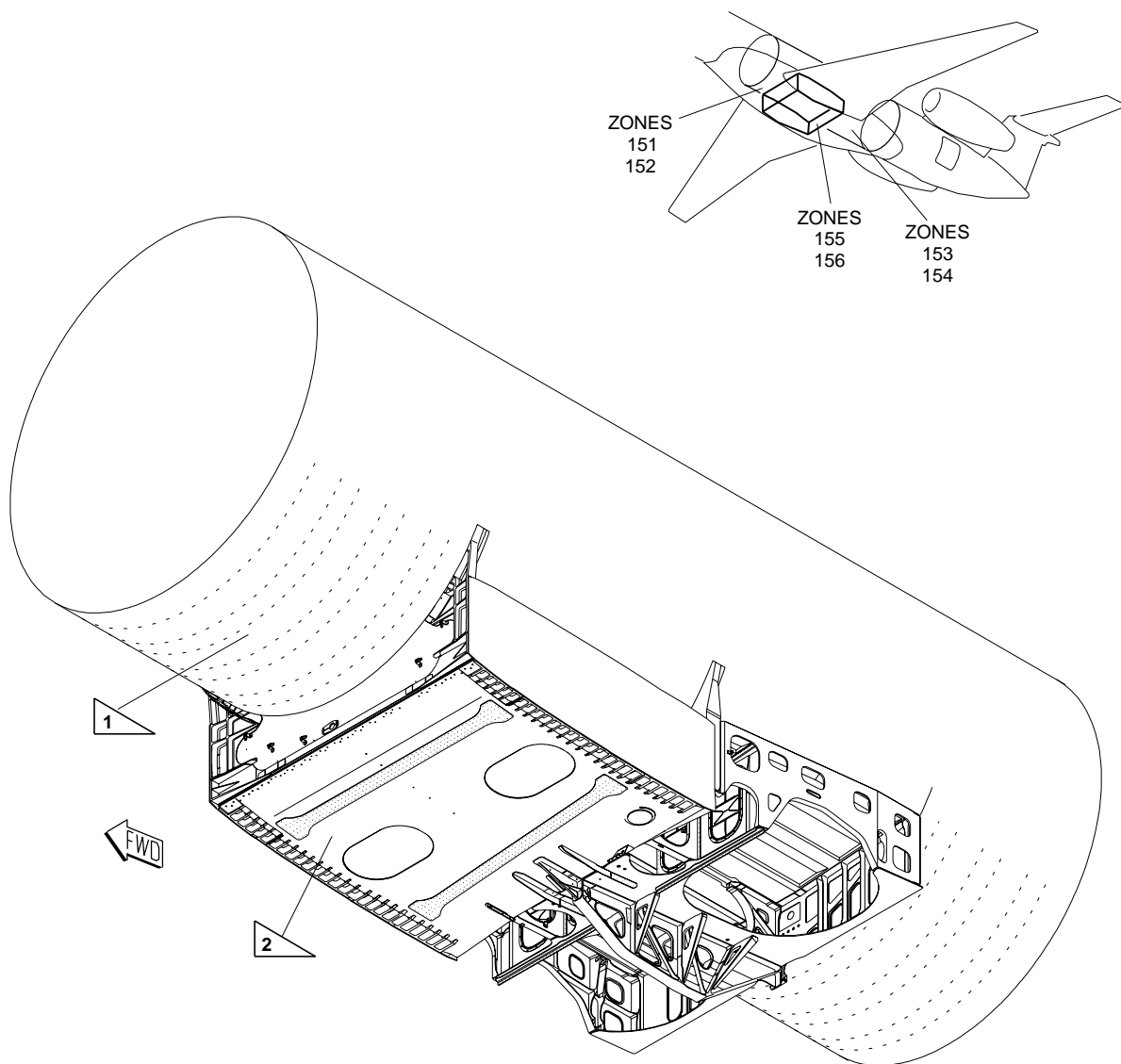


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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

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

Figure 602



EXTERNALLY INSPECT FUSELAGE SKIN PANEL, SKIN LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.



EXTERNALLY INSPECT TO WING STUB STRUCTURE.

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TASK 05-20-26-200-805-A

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

3. WING-TO-FUSELAGE FAIRING - 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-Z191-214-002-A00.
- (3) You must do the internal general visual inspection (GVI) of center fuselage III, in zones 191/192/193/194/195, at a distance from which you can touch the items that you will examine.
- (4) You must do the external general visual inspection (GVI) of center fuselage III, lower side/wing stub, at zones 151, 152, 153, 154, 155, and 156, within a touching distance of the items examined.
- (5) You must do the external general visual inspection (GVI) of center fuselage IV, at zones 161/162, within a touching distance of the items examined.
- (6) The function of the general visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.
- (7) 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 MPP 06-41-01/100	-
AMM TASK 12-22-00-600-801-A/300	LIGHT DIRT - SERVICING
AMM TASK 12-22-00-600-802-A/300	HEAVY DIRT - SERVICING
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 53-04-01-000-801-A/400	FORWARD WING-TO-FUSELAGE FAIRING - REMOVAL
AMM TASK 53-04-01-400-801-A/400	FWD WING-TO-FUSELAGE FAIRING - INSTALLATION
AMM TASK 53-04-10-000-801-A/400	CENTER WING-TO-FUSELAGE FAIRING - REMOVAL
AMM TASK 53-04-10-400-801-A/400	CENTER WING-TO-FUSELAGE FAIRING - INSTALLATION
AMM TASK 53-04-20-000-801-A/400	LATERAL WING-TO-FUSELAGE FAIRING - REMOVAL
AMM TASK 53-04-20-400-801-A/400	LATERAL WING-TO-FUSELAGE FAIRING - INSTALLATION
AMM TASK 53-04-30-000-801-A/400	-
AMM TASK 53-04-30-400-801-A/400	-
WM 20-22-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191ZB	Forward Wing-to-fuselage fairing
192	192LB	Center Wing-to-fuselage fairing
193	193ABB	Rear Wing-to-fuselage fairing
194	194ER	Lateral Wing-to-fuselage fairing
195	195EL	Lateral Wing-to-fuselage fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Screwdriver	To open the access panels 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	Wing-to-Fuselage Fairing
1	Does the task	Center fuselage III - Lower Side
1	Does the task	Center fuselage IV - Lower Side

I. Preparation

SUBTASK 841-003-A

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

- (1) Put the ladder in position.
- (2) Remove the forward wing-to-fuselage fairing 191ZB (AMM MPP 06-41-01/100 and [AMM TASK 53-04-01-000-801-A/400](#)).
- (3) Remove the center wing-to-fuselage fairing 192LB (AMM MPP 06-41-01/100 and [AMM TASK 53-04-10-000-801-A/400](#)).
- (4) Remove the rear wing-to-fuselage fairing 193ABB (AMM MPP 06-41-01/100 and AMM TASK 53-04-30-000-801-A/400).
- (5) Remove the lateral wing-to-fuselage fairing 194ER and 195EL (AMM MPP 06-41-01/100 and [AMM TASK 53-04-20-000-801-A/400](#)).

- (6) If necessary, clean the inspection area (AMM TASK 12-22-00-600-801-A/300 or AMM TASK 12-22-00-600-802-A/300, as applicable).

J. Internal General Visual Inspection (Figure 603) (Figure 604) (Figure 605) (Figure 606) (Figure 607) (Figure 608) (Figure 609)

SUBTASK 212-003-A

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

- (1) Examine the interior of the zones, wing-to-fuselage fairing, for loose rivets, skin deformation, nicks, cracks, dents, delamination, sealant condition, scratches, erosion, and deteriorated protective treatment (Figure 603, Figure 604, Figure 605, and Figure 606).
- (2) Examine the fuselage zone for painting bad condition, loose rivets, nicks, skin deformation, sealant condition, warps, scratches, gouges, creases, cracks, dents, erosion, corrosion, deteriorated protective treatment, and foreign objects.
- (3) Examine the fuselage skin panel at stringers, frames/bulkheads, and splices for loose rivets, nicks, cracks, dents, warps, erosion, corrosion, and deteriorated protective treatment (Figure 607).
- (4) Examine the fuselage skin longitudinal and circumferential splices for loose rivets, nicks, cracks, dents, erosion, corrosion, and deteriorated protective treatment (Figure 607).
- (5) Examine the wing stub for cracks, nicks, dents, corrosion, erosion, and loose rivets (Figure 607).
- (6) Examine the antennas for general condition and aerodynamic sealing.
- (7) On the bottom of the center fuselage IV, at zones 161/162, examine the hydraulic compartment for nicks, cracks, chafing, leakage, distortion of ducts, hoses and piping system, wear, corrosion, cuts, correct assembly of components, misalignment, clamp looseness, foreign objects, and drain connection (Figure 608 and Figure 609, as applicable).
- (8) 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

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

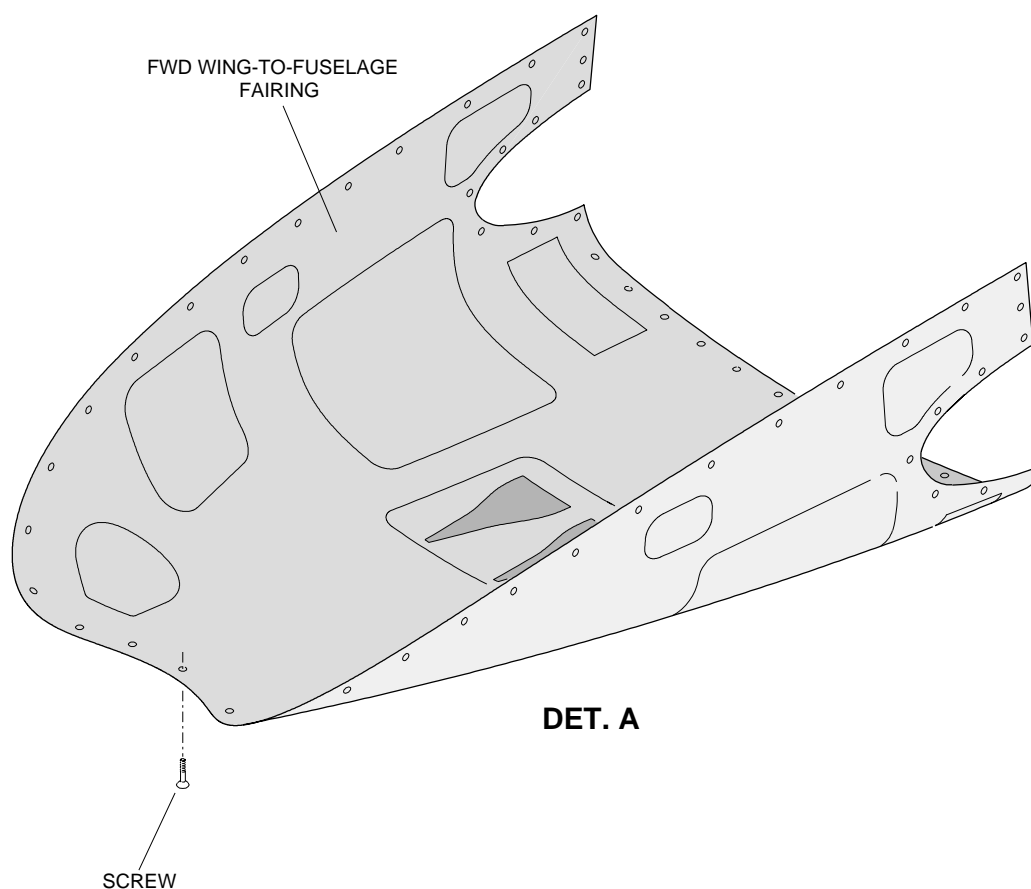
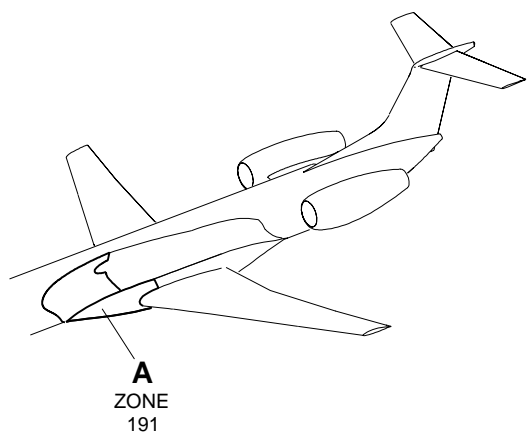
- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

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) Install the lateral wing-to-fuselage fairing 194ER and 195EL (AMM MPP 06-41-01/100 and AMM TASK 53-04-20-400-801-A/400).

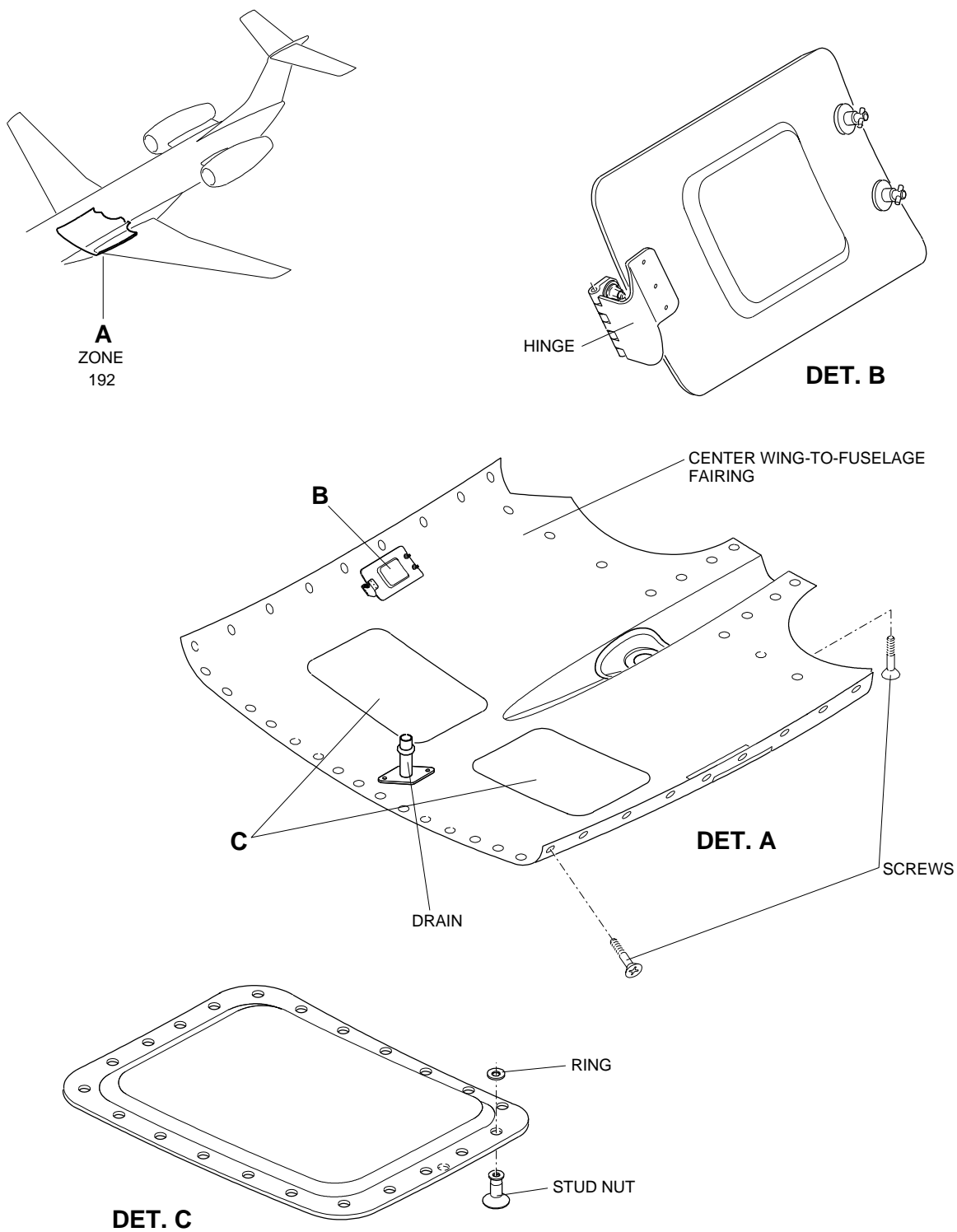
- (3) Install the rear wing-to-fuselage fairing 193ABB (AMM MPP 06-41-01/100 and AMM TASK 53-04-30-400-801-A/400).
- (4) Install the center wing-to-fuselage fairing 192LB (AMM MPP 06-41-01/100 and [AMM TASK 53-04-10-400-801-A/400](#)).
- (5) Install the forward wing-to-fuselage fairing 191ZB (AMM MPP 06-41-01/100 and [AMM TASK 53-04-01-400-801-A/400](#)).
- (6) Remove the ladder.

EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS
Forward Wing-to-Fuselage Fairing - Internal General Visual Inspection
Figure 603



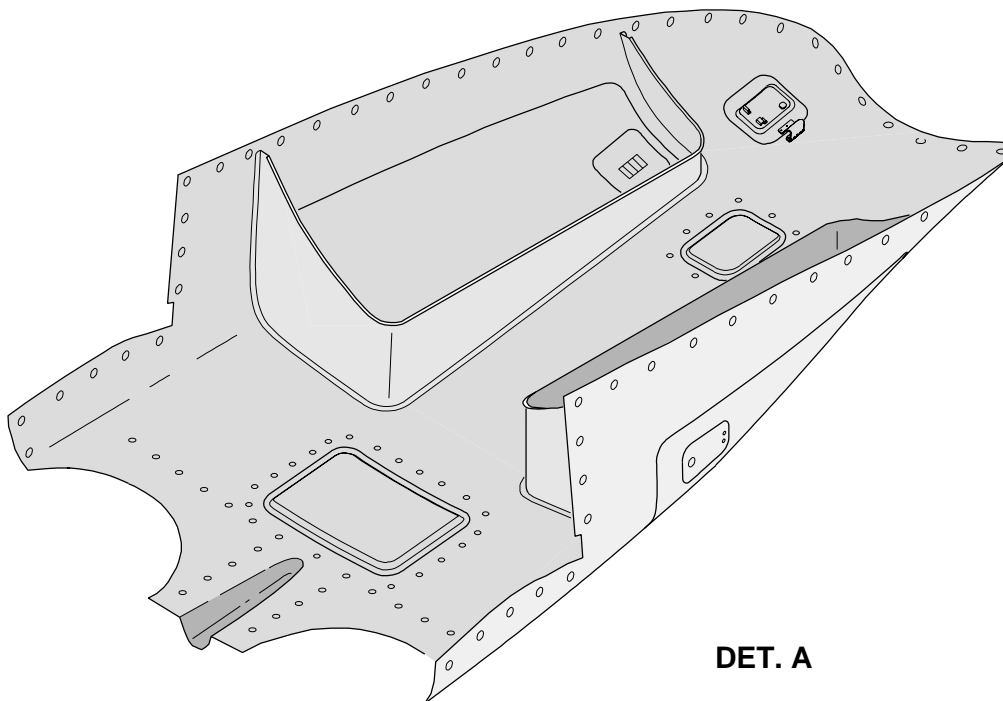
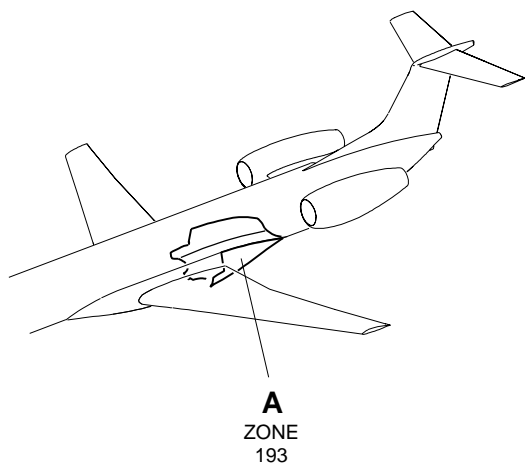
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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS
Center Wing-to-Fuselage Fairing - Internal General Visual Inspection
Figure 604



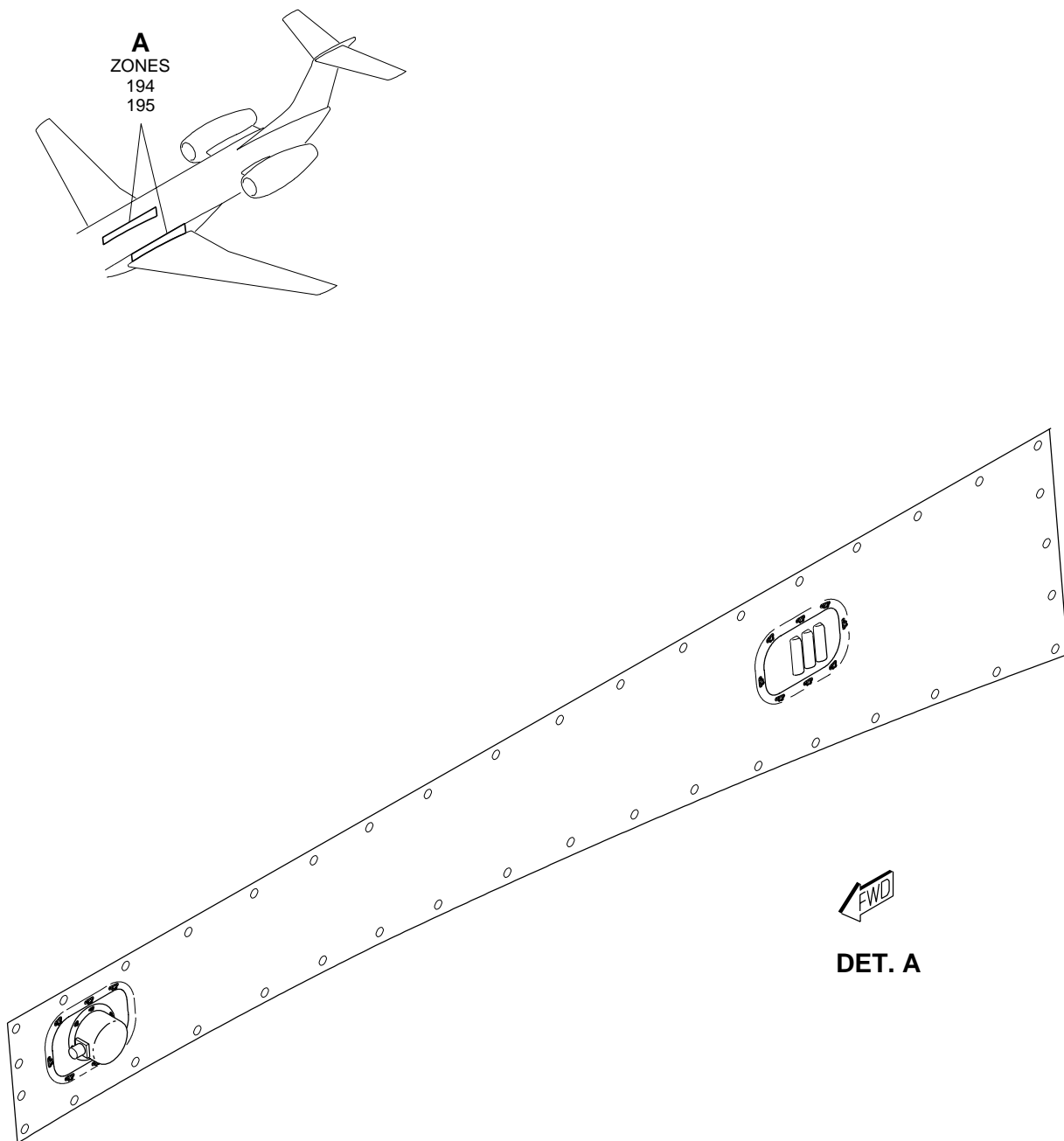
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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS
Rear Wing-to-Fuselage Fairing - Internal General Visual Inspection
Figure 605



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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS
Lateral Wing-to-Fuselage Fairing - Internal General Visual Inspection
Figure 606

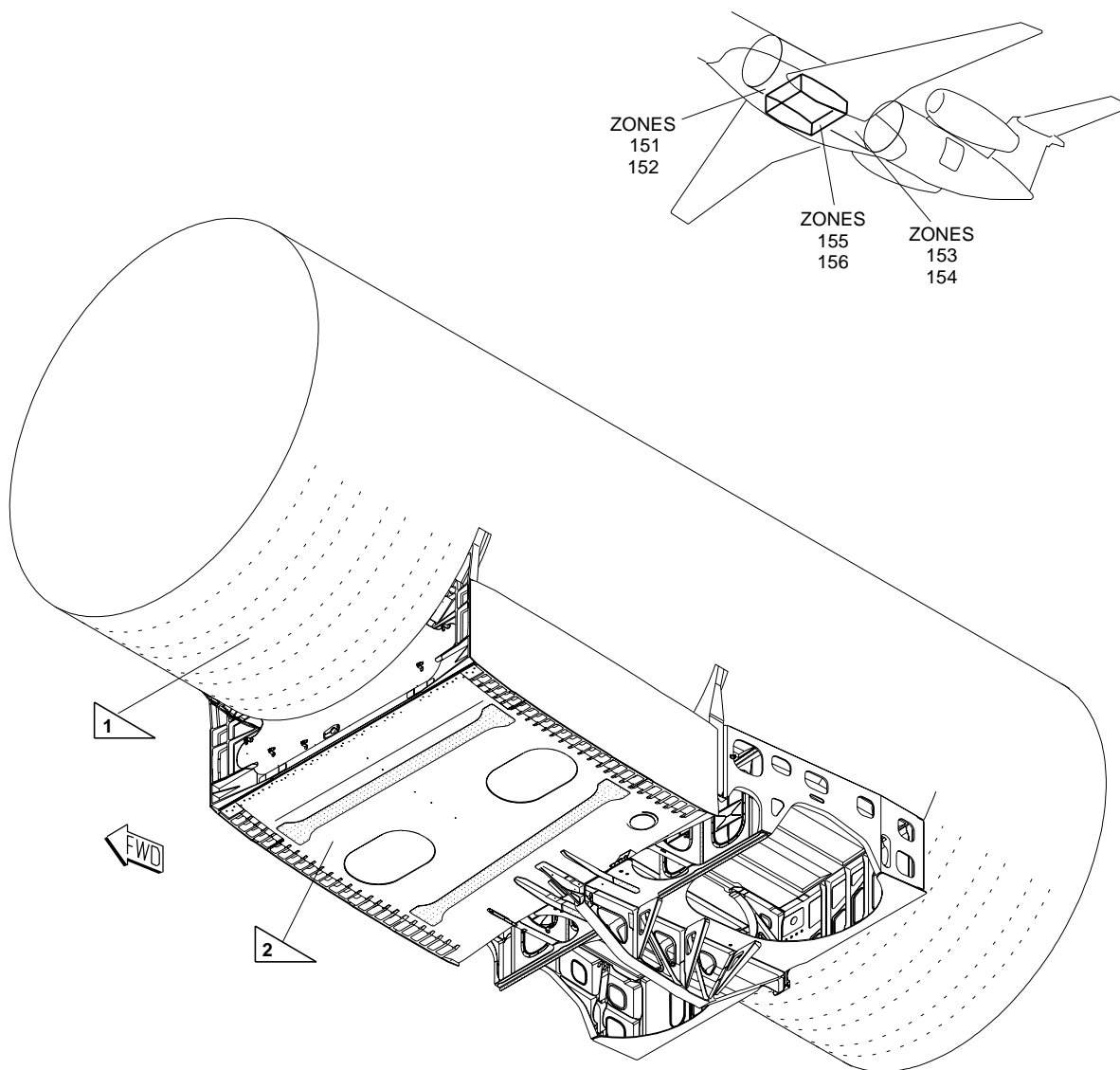


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EFFECTIVITY: EMB-145ER/EP/EU AND EMB-135ER MODELS

Center Fuselage III - Passenger Cabin Bottom - General Visual Inspection

Figure 607



1

EXTERNALLY INSPECT FUSELAGE SKIN PANEL, SKIN LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.

2

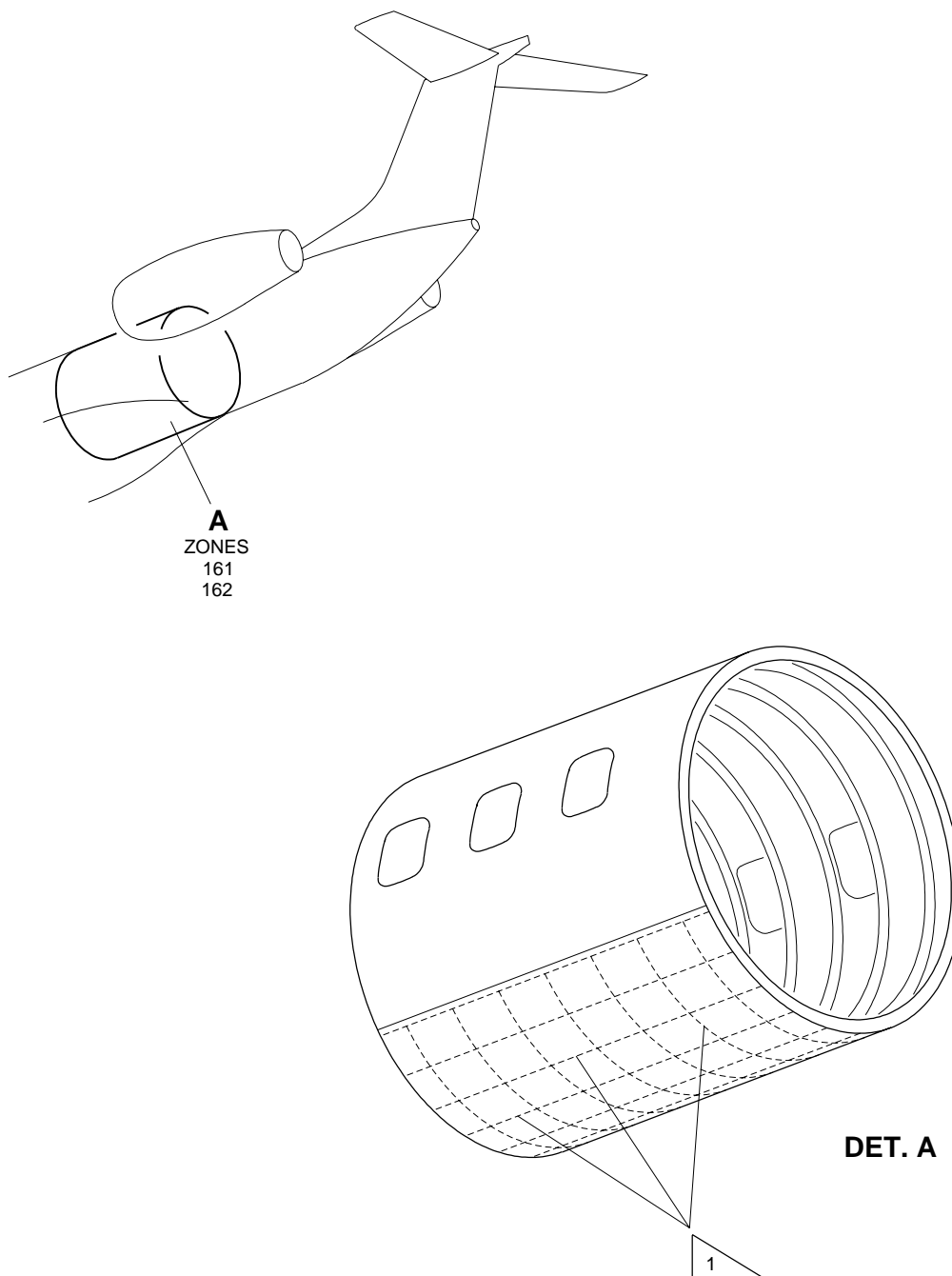
EXTERNALLY INSPECT TO WING STUB STRUCTURE.

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EFFECTIVITY: EMB-145ER/EP/EU MODELS

Center Fuselage IV - Passenger Cabin Bottom - External General Visual Inspection

Figure 608



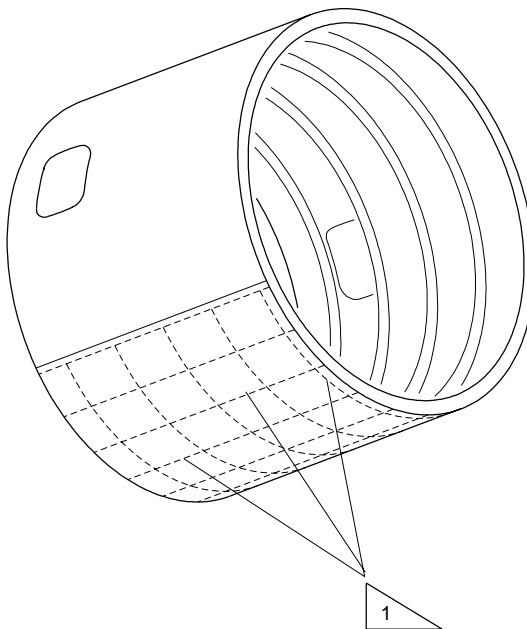
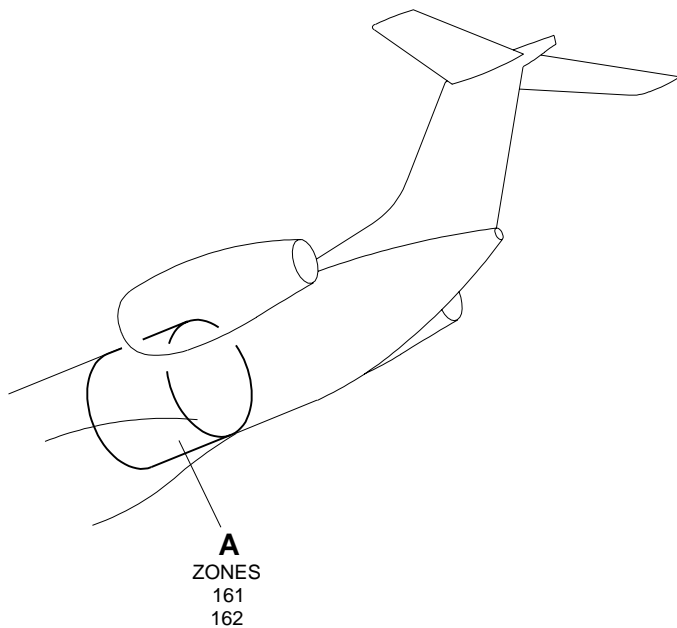
EXTERNALLY INSPECT FUSELAGE SKIN
LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.

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EFFECTIVITY: EMB-135ER MODELS

Center Fuselage IV - Passenger Cabin Bottom - External General Visual Inspection

Figure 609



EXTERNALLY INSPECT FUSELAGE SKIN
LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.

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