



## AIRCRAFT MAINTENANCE MANUAL

### WING-TO-FUSELAGE FAIRING - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: ALL

#### 1. General

- A. This section gives the procedures to do the visual inspection of the wing-to-fuselage fairing for general condition.
- B. Related Zone: 191, 192, 193, 194, 195.
- C. 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
05-30-12-200-801-A ♦	WING-TO-FUSELAGE FAIRING - INTERNAL GENERAL VISUAL INSPECTION	EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL



# AIRCRAFT MAINTENANCE MANUAL

TASK 05-30-12-200-801-A

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

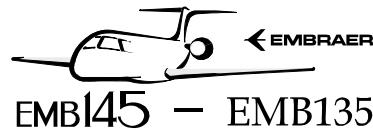
## 2. WING-TO-FUSELAGE FAIRING - INTERNAL GENERAL VISUAL INSPECTION

### A. General

- (1) This procedure obeys the EWIS ICA requirement.
- (2) This task gives instructions to do SMRD Zonal Task 53-Z191-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of forward, center, rear, and lateral wing-to-fuselage fairing, at zones 191, 192, 193, 194, and 195, within a touching distance of the items examined.
- (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, 156, and 157, 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) 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 INTRODUCTION for zonal inspection criteria.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
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	-



# AIRCRAFT MAINTENANCE MANUAL

(Continued)

REFERENCE	DESIGNATION
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
155	155DZ	Main landing gear compartment
155	155EZ	Main landing gear compartment
156	156DZ	Main landing gear compartment
156	156EZ	Main landing gear compartment

## D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Flashlight	To make the inspection of the area easier.	
Standard	Screwdriver	To open the access panels to get access to the inspection area.	

## 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 III - Wing Stub LH/RH Sides
1	Does the task	Center Fuselage IV - Lower Side

## I. Preparation

SUBTASK 841-004-A



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

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

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) Make sure that the aircraft is defueled ([AMM TASK 12-11-01-600-802-A/300](#)).
- (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) Open main landing gear compartment access doors and panels 155DZ, 155EZ, 156DZ and 156EZ (AMM MPP 06-41-01/100) ([Figure 601](#)).
- (7) 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 602](#)) ([Figure 603](#)) ([Figure 604](#)) ([Figure 605](#)) ([Figure 606](#)) ([Figure 607](#)) ([Figure 608](#)) ([Figure 609](#)) ([Figure 610](#)) ([Figure 611](#)) ([Figure 612](#))

**SUBTASK 212-004-A**

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

- (1) Examine the interior of the zones, wing-to-fuselage fairing, for loose rivets, skin deformation, nicks, cracks, dents, delaminations, sealant condition, scratches, erosion, and deteriorated protective treatment ([Figure 602](#), [Figure 603](#), [Figure 604](#), and [Figure 605](#)).
- (2) Examine the fuselage skin panel at stringers and frames/bulkheads, and splices for loose rivets, nicks, cracks, dents, warps, erosion, corrosion, and deteriorated protective treatment ([Figure 606](#), [Figure 611](#), and [Figure 612](#), as applicable).
- (3) Examine the fuselage skin longitudinal and circumferential splices for loose rivets, nicks, cracks, dents, erosion, corrosion, and deteriorated protective treatment ([Figure 606](#), [Figure 611](#), and [Figure 612](#), as applicable).
- (4) Examine the wing-stub upper structure for nicks, cracks, dents, distortion, erosion, corrosion, and loose rivets ([Figure 607](#)).
- (5) On the bottom of the front stub structure, do a check on the hydraulic lines and components, for attachment, cracks, crushing, signs of deformation, deterioration, friction, leakage ([Figure 608](#)). Also do a check for damage on the heat-shrinkable sleeve that wraps the electrical harness ([Figure 609](#)).
- (6) **NOTE:** The step below is applicable only to EMB-145 LR/LU and EMB-135 LR/KL models.

In the rear stub structure, do a check on the fuel and hydraulic lines for wear, cleaning, signs of chafing, leakage, overheating, loose clamps, corrosion, erosion, or nicks ([Figure 610](#)).

- (7) **NOTE:** The steps below are applicable only to EMB-145 MR/MP/MK and EMB-135 KE models.

In the rear stub structure, examine only the hydraulic lines for wear, cleaning, signs of chafing, leakage, overheating, loose clamps, corrosion, erosion, or nicks ([Figure 610](#)).

- (8) 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.
- (9) Examine the antennas for general condition and aerodynamic sealing.
- (10) 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-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**

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

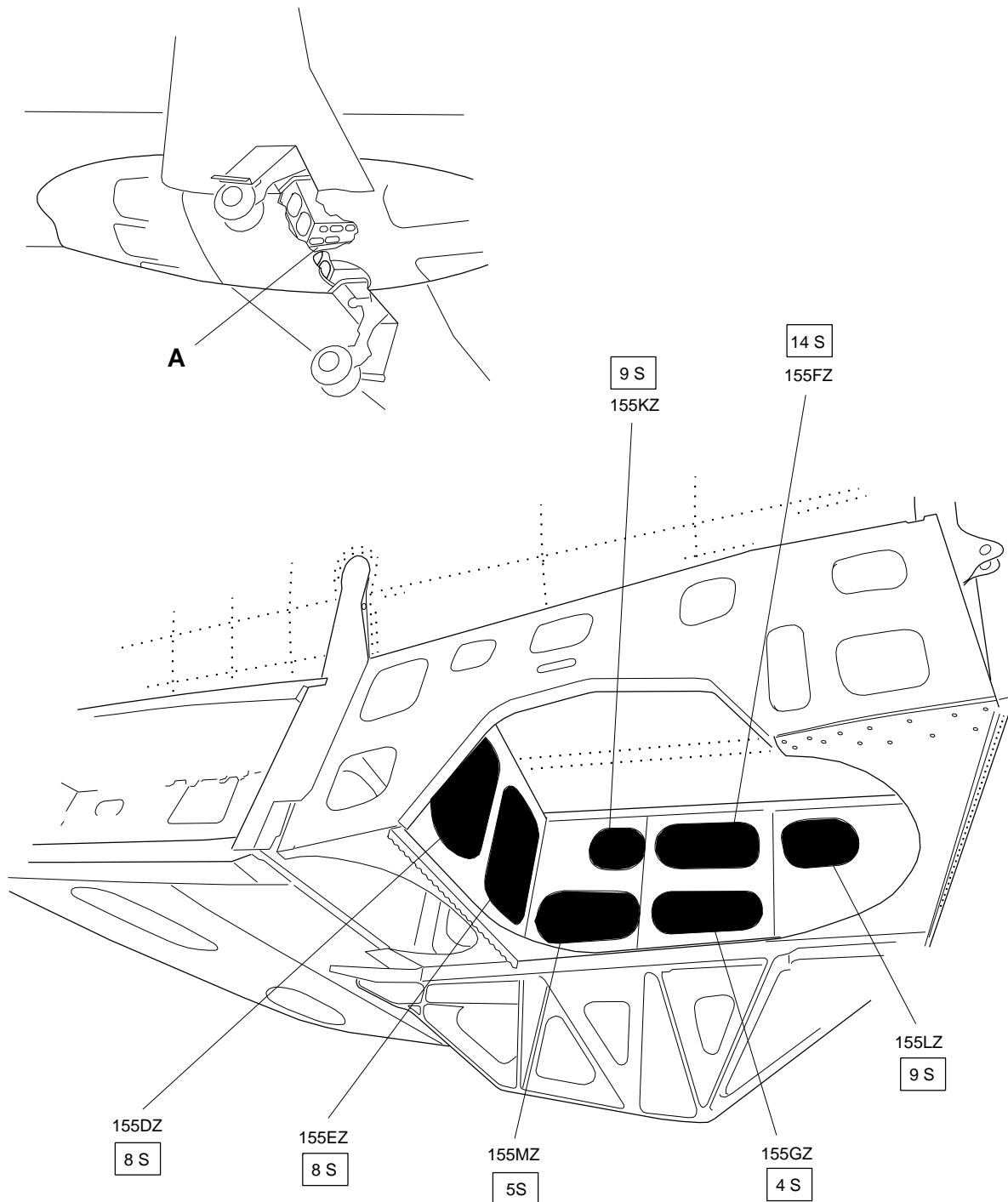
**NOTE:** The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (2) Close main landing gear compartment access doors and panels 155DZ, 155EZ, 156DZ and 156EZ (AMM MPP 06-41-01/100).
- (3) Install the forward wing-to-fuselage fairing 191ZB (AMM MPP 06-41-01/100 and [AMM TASK 53-04-01-400-801-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 rear wing-to-fuselage fairing 193ABB (AMM MPP 06-41-01/100 and AMM TASK 53-04-30-400-801-A/400).
- (6) 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](#)).

**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**

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

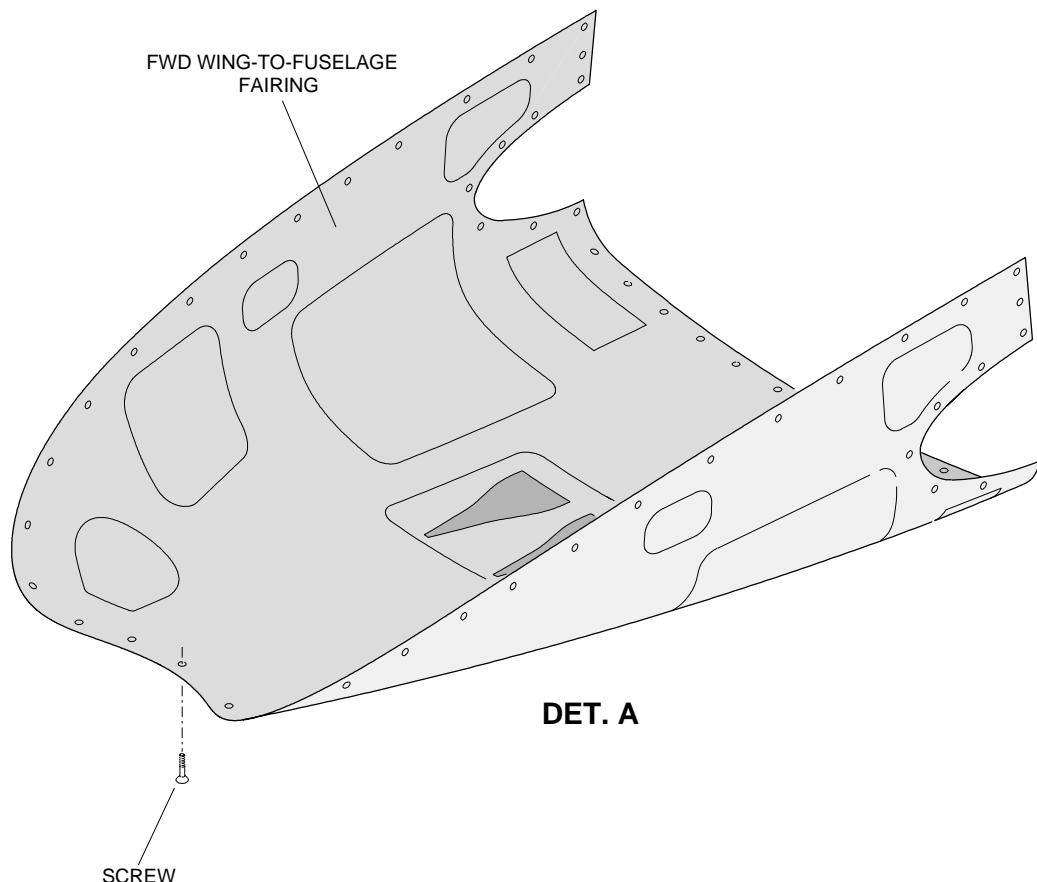
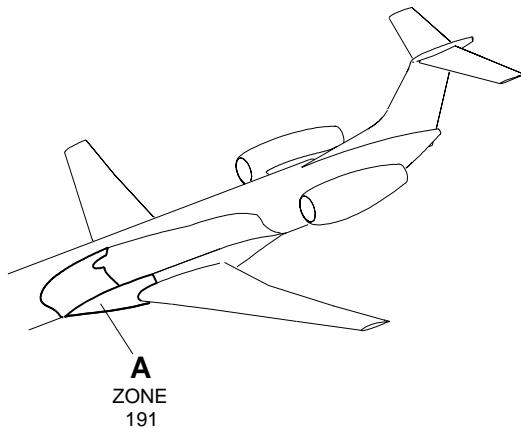
Figure 601



**DET. A**

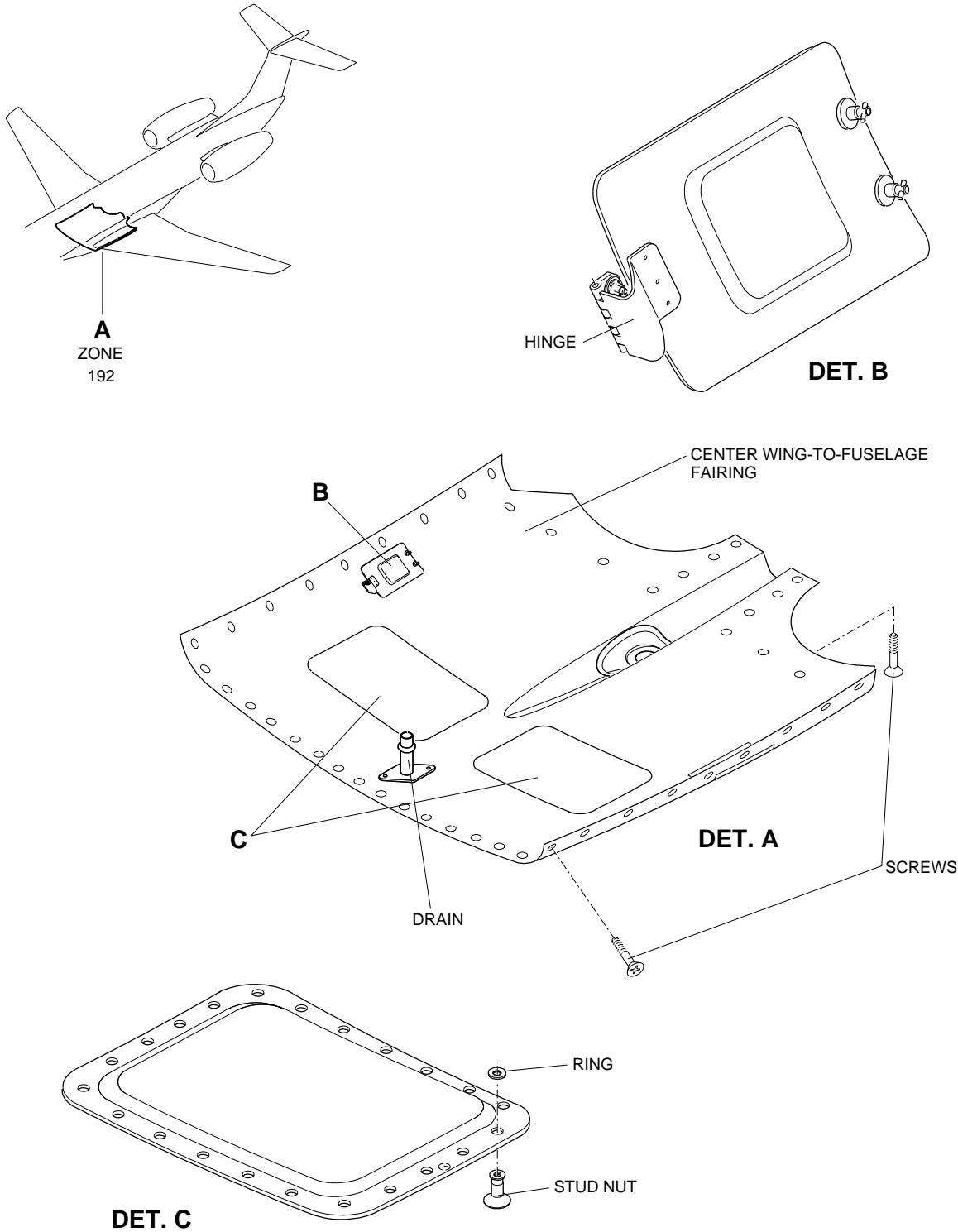
145AMM060034.MCE B

**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**  
**Forward Wing-to-Fuselage Fairing - Internal General Visual Inspection**  
**Figure 602**



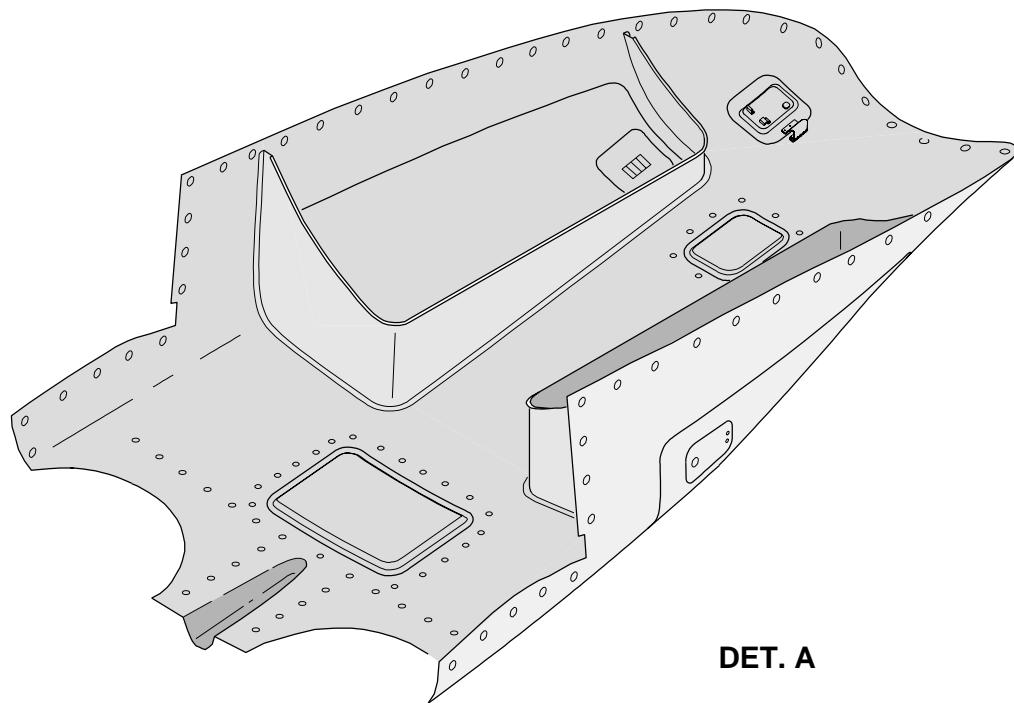
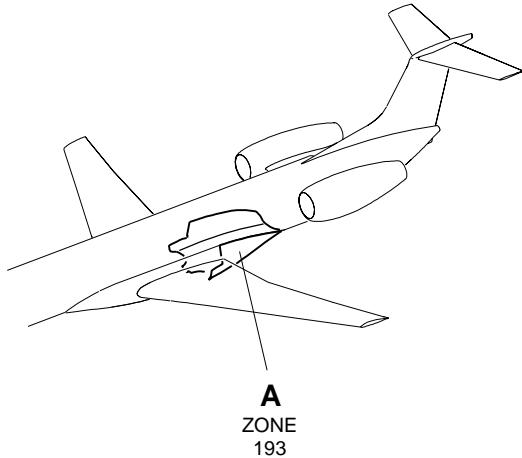
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**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**  
 Center Wing-to-Fuselage Fairing - Internal General Visual Inspection  
 Figure 603



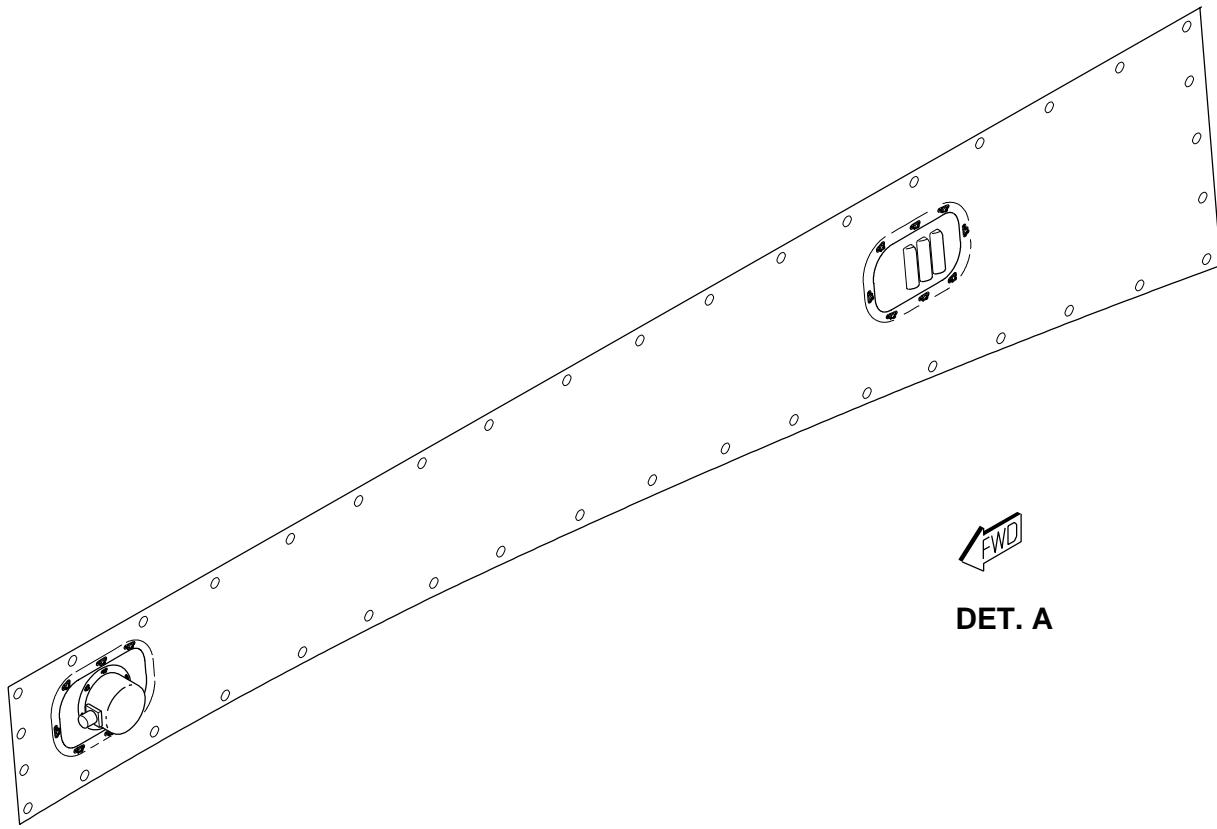
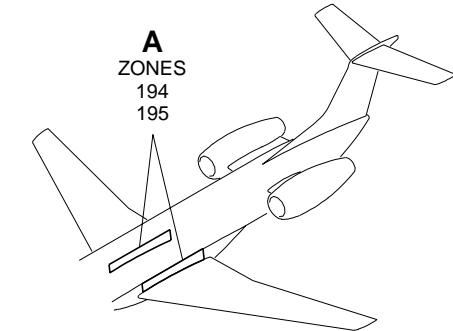
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EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL  
Rear Wing-to-Fuselage Fairing - Internal General Visual Inspection  
Figure 604



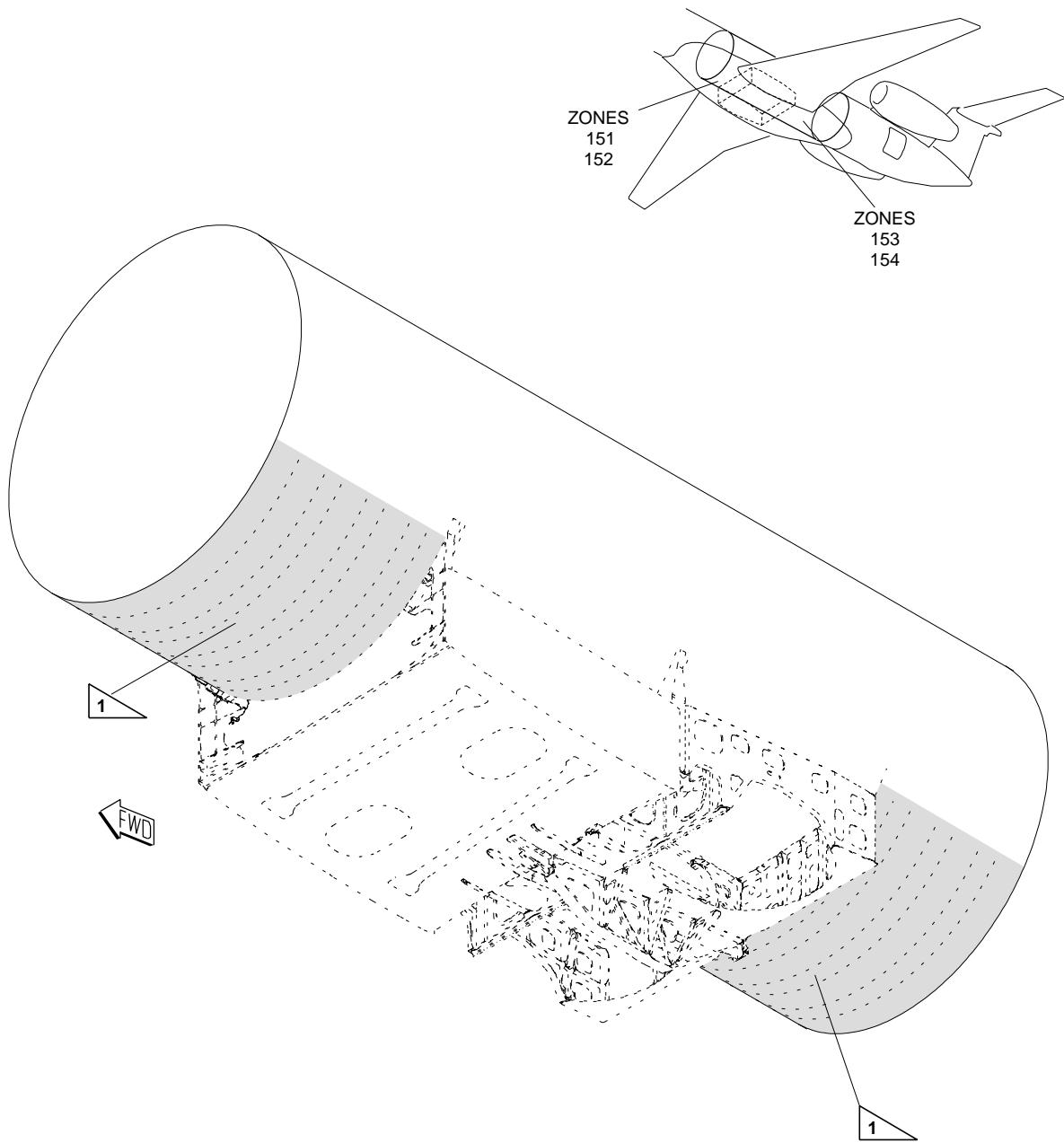
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**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**  
Lateral Wing-to-Fuselage Fairing - Internal General Visual Inspection  
Figure 605



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EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL  
Center Fuselage III - Passenger Cabin Bottom - External General Visual Inspection  
Figure 606



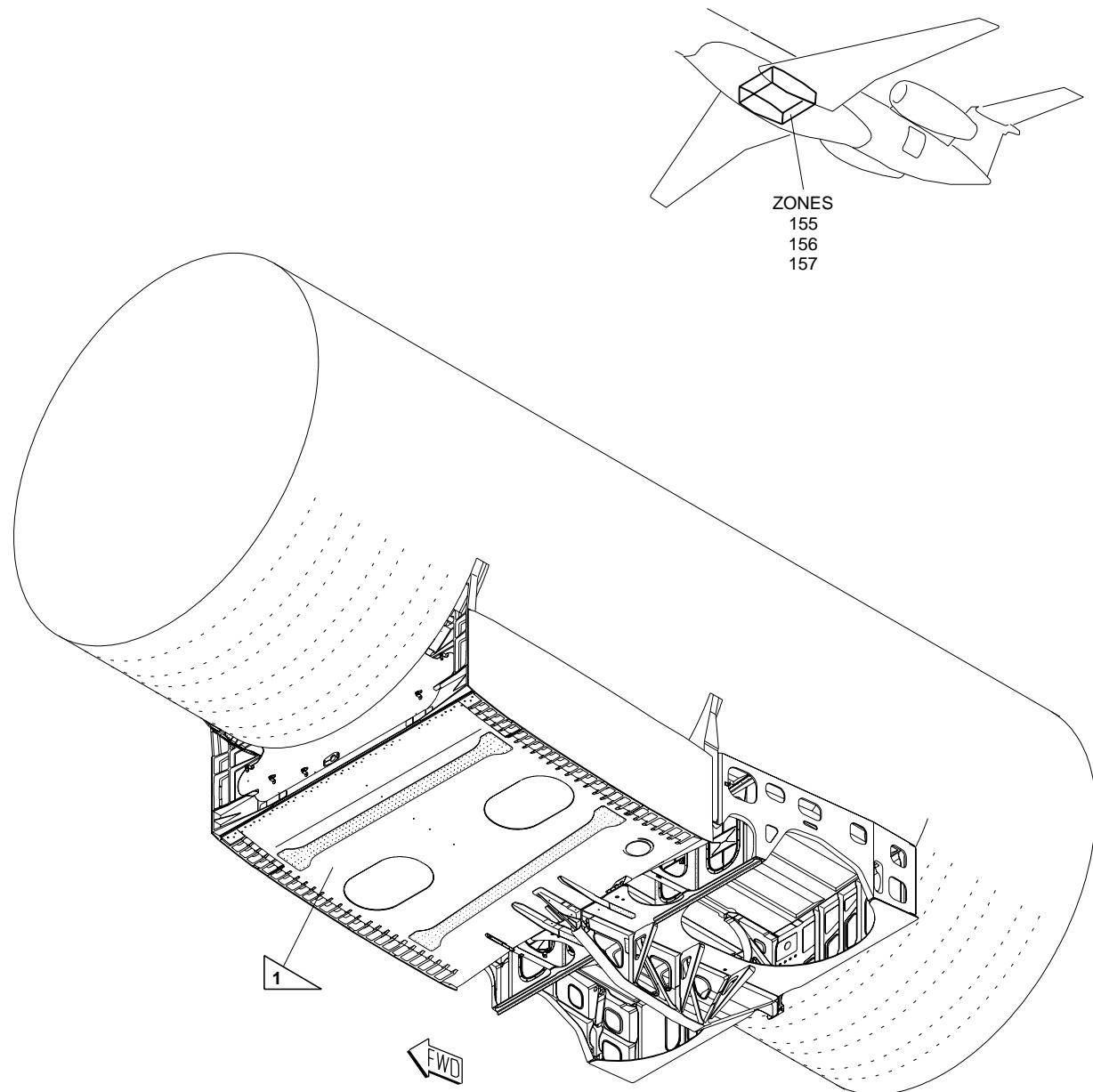
 EXTERNALLY INSPECT FUSELAGE SKIN PANEL, SKIN LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.

145AMM050179.MCE

**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**

Center Fuselage III - Wing Stub LH/RH Sides - External General Visual Inspection

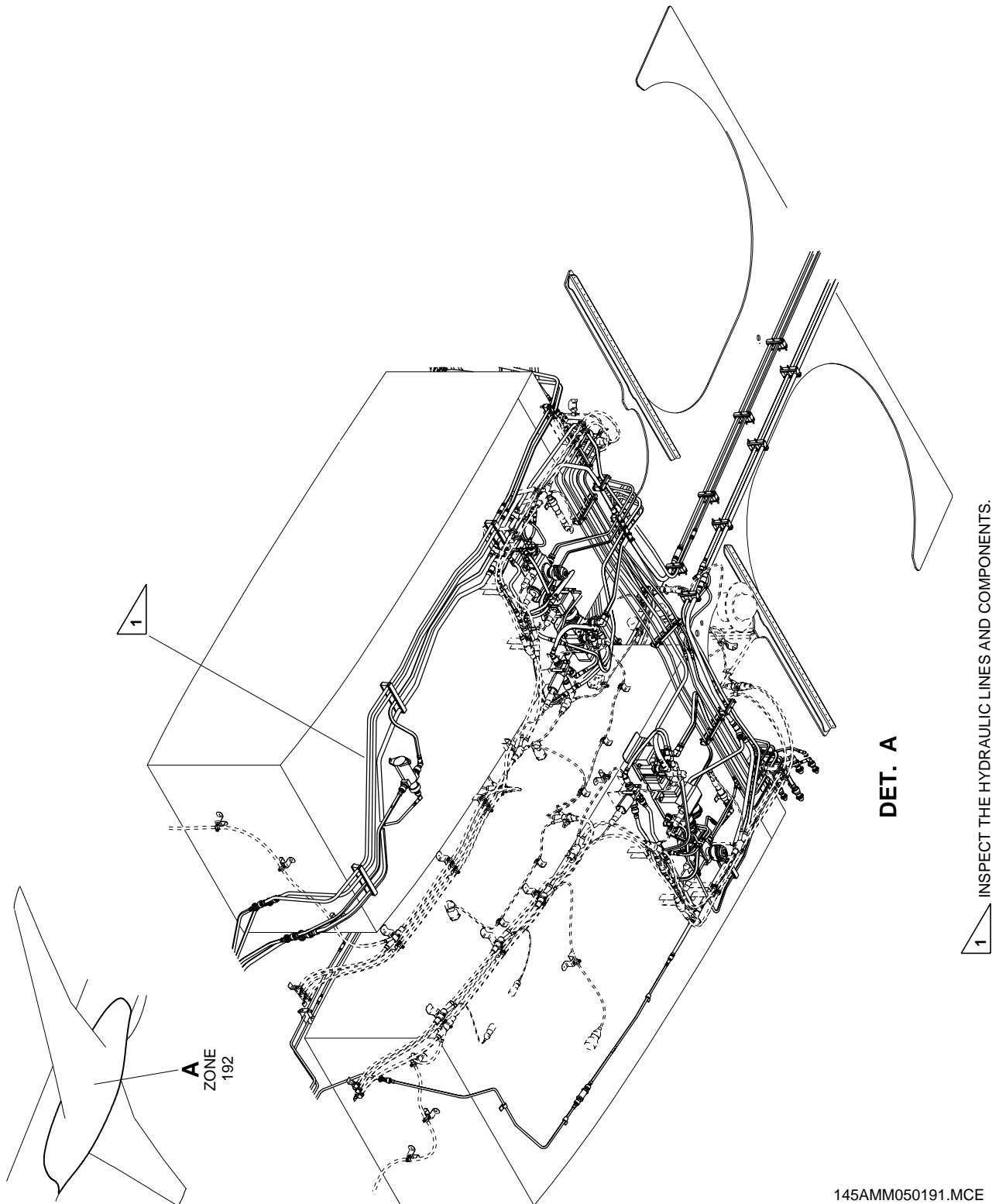
Figure 607



**EXTERNALLY INSPECT TO WING STUB STRUCTURE.**

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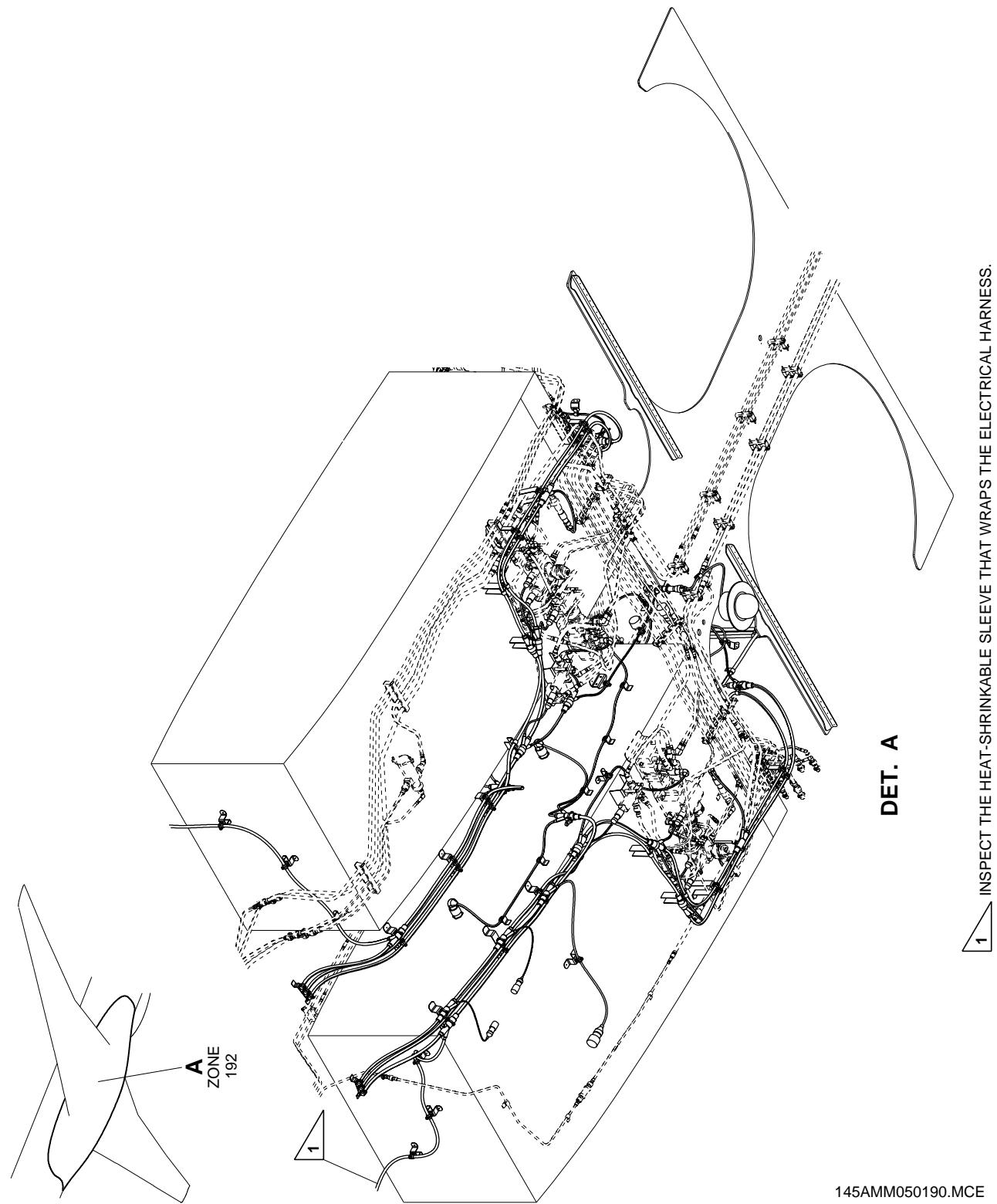
**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**  
**Center Fuselage III - Wing Stub LH/RH Sides - Hydraulic Lines and Components**  
**Figure 608**



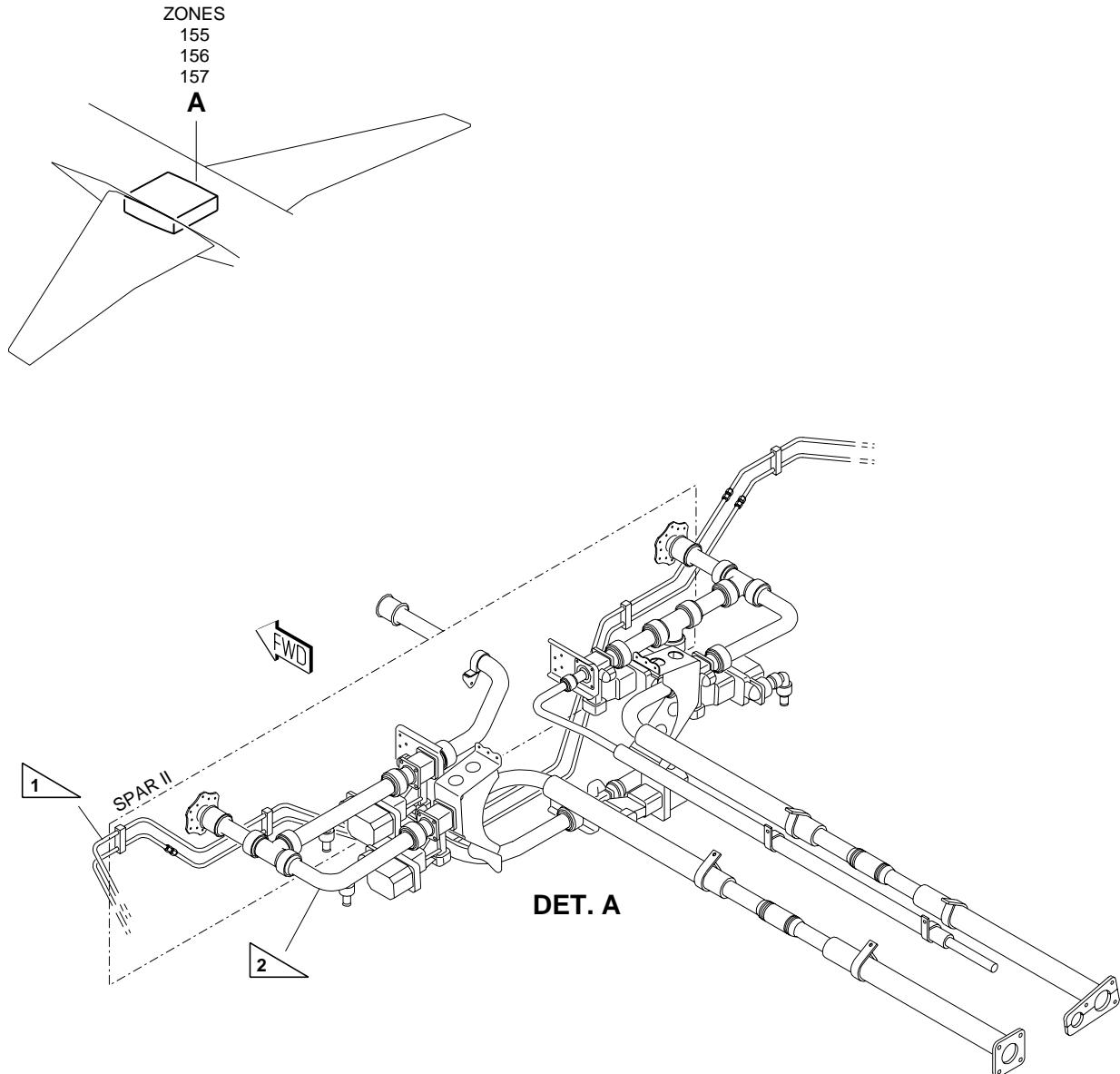
**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**

Center Fuselage III - Wing Stub LH/RH Sides - Electrical Harness

Figure 609



**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK and EMB-135 LR/KE/KL**  
**Center Fuselage III - Wing Stub LH/RH Sides External - Fuel and Hydraulic Line**  
**Figure 610**



**1** VISUALLY INSPECT HYDRAULIC LINES FOR GENERAL CONDITION

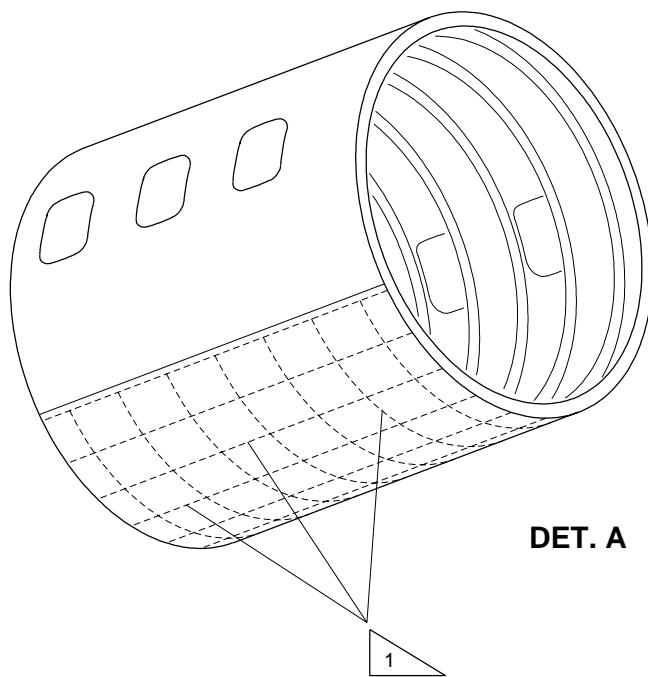
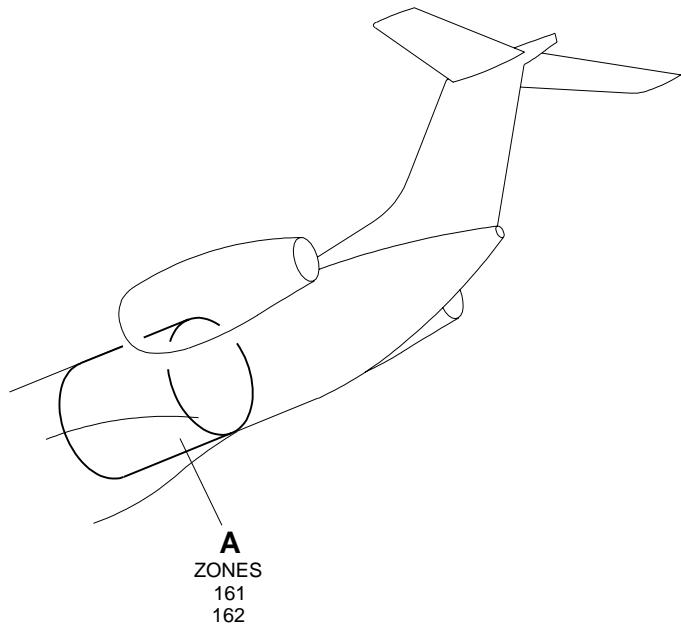
**2** VISUALLY INSPECT FUEL LINES FOR GENERAL CONDITION

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**EFFECTIVITY: EMB-145 LR/LU/MR/MP/MK**

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

Figure 611



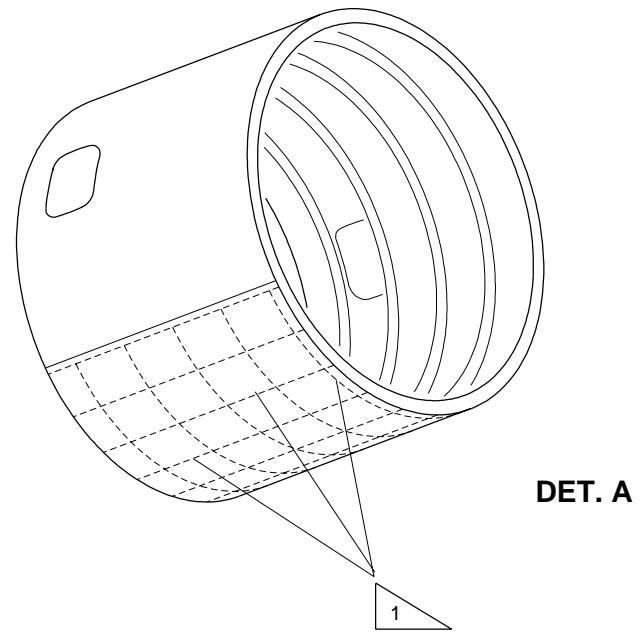
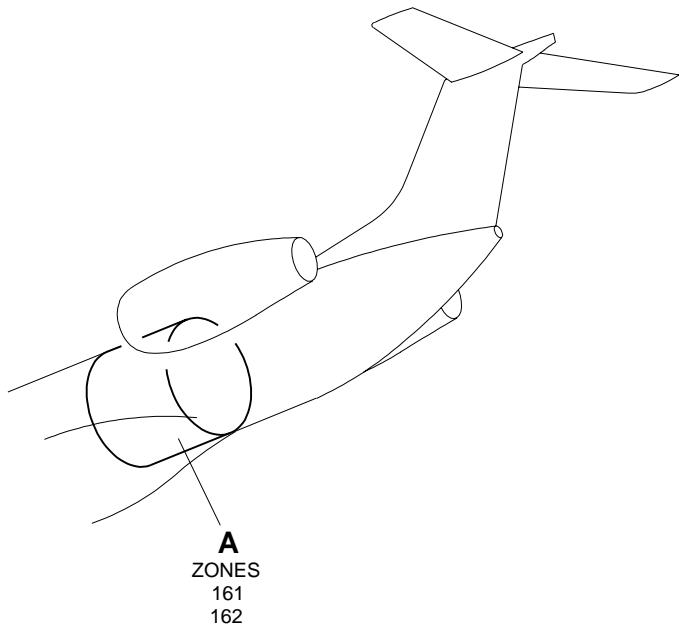
EXTERNALLY INSPECT FUSELAGE SKIN  
LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.

145AMM050115.MCE

EFFECTIVITY: EMB-135 LR/KE/KL

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

Figure 612



 EXTERNALLY INSPECT FUSELAGE SKIN  
LONGITUDINAL AND CIRCUMFERENTIAL SPLICES.

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