



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

PASSENGER CABIN WINDOWS - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to do an inspection of the passenger cabin windows for delamination and crazing.
- B. Delamination is a condition which occurs when there is a separation of the interlayer from the acrylic surface.
- C. Crazing is a concentration of many short cracks on the acrylic surface.
- 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
56-20-01-200-801-A ♦	PASSENGER CABIN WINDOWS - INSPECTION/CHECK	ALL



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TASK 56-20-01-200-801-A

EFFECTIVITY: ALL

2. PASSENGER CABIN WINDOWS - INSPECTION/CHECK

A. General

- (1) Obey these instructions to do the check of the passenger cabin windows.

B. References

REFERENCE	DESIGNATION
CMM 56-20-00; Section 501	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the passenger cabin windows from the outside	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Outside the aircraft

I. Preparation

SUBTASK 841-003-A

- (1) Put the ladder in position and get access to the passenger cabin windows.

J. Inspection/Check ([Figure 601](#))

SUBTASK 220-002-A

- (1) Do an inspect all of passenger cabin windows:

- (a) The [Table 601](#) shows the area for each zone to be inspected:

Table 601 - AREA FOR EACH ZONE

AREA	Dimension (mm ²)
Total Transparency	120,150.00
I	90,650.00

Table 601 - AREA FOR EACH ZONE (Continued)

AREA	Dimension (mm²)
II	29,500.00

- (b) Do a detailed inspection of all passenger cabin windows for delamination.

Result:

- 1 If the delamination is confined in Area II, replace the transparency according to [Table 602](#):

Table 602 - DELAMINATION IN AREA II

Damage Extension (X)	Definitive Action	Inspection Period
X 25%	Replace within 800 FC	150 FC
25% < X 50%	Replace within 400 FC	150 FC
X > 50%	Replace the transparency before next flight.	-

NOTE: If damage growth is detected during the inspections, replace the transparency before next flight.

- 2 In case the delamination reaches the Area I, replace the transparency according to [Table 603](#):

Table 603 - DELAMINATION IN AREA I

Damage Extension (X)	Definitive Action	Inspection Period
X 1in ²	Replace within 800 FC	150 FC
X > 1in ²	Replace the transparency before next flight.	-

NOTE: If damage growth is detected during the inspections, replace the transparency before next flight.

- (c) Do a detailed inspection of all passenger cabin windows for crazing.

Result:

- 1 Crazing is permitted when limited to an area not larger than 150 cm² (23 in²) on the acrylic outer ply.

NOTE: No crazing is permitted on the other plies.

- (d) For the defects that follow, please see CMM 56-20-00; Section 501:

NOTE: Degradation of UV protection (or external coating) is not a criteria to remove the passenger window.

- Bubbles;
- Inclusions;
- Partridge Eye;
- Optical distortion;
- Discontinuities;
- Scratches.



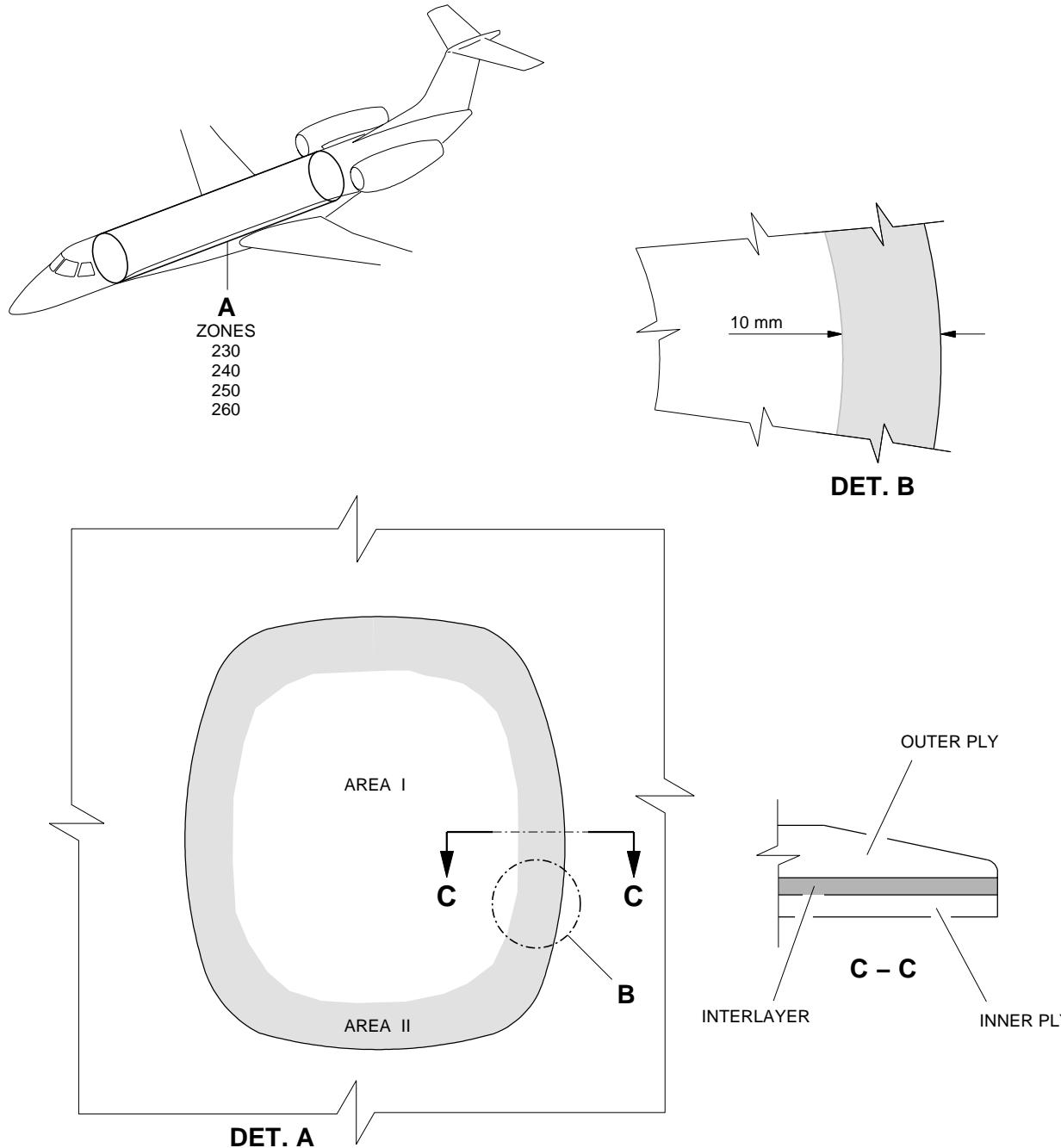
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K. Follow-on

SUBTASK 842-003-A

- (1) Remove the ladder from the work area.

EFFECTIVITY: ALL

 Passenger Cabin Windows - Inspection/Check
 Figure 601


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