CHAPTER 56

WINDOWS



CHAPTER 56 WINDOWS

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EFFECTIVE PAG) ES	56-20-02 REPAIR	2 (cont)		
1	May 20/2009	203	Jan 20/2005		
2	BLANK	204	BLANK		
56-CONTENTS		56-30-02 IDENTIF	FICATION 1		
1	Jan 20/2005	1	Jan 20/2005		
2	BLANK	2	Jan 20/2005		
56-10-02 IDENTI		56-30-02 ALLOW	ABLE DAMAGE 1		
1	Jan 20/2005	101	Jan 20/2007		
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4	BLANK	104	BLANK		
56-10-02 IDENTI					
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	ABLE DAMAGE 1				
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103	Jan 20/2005				
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A = Added, R = Revised, O = Overflow, D = Deleted

56-EFFECTIVE PAGES

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CHAPTER 56 WINDOWS

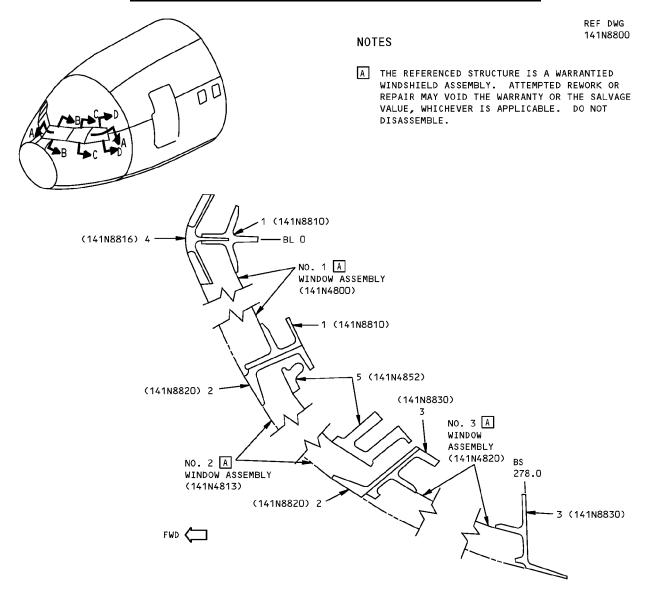
SUBJECT	CHAPTER SECTION <u>SUBJECT</u>
FLIGHT COMPARTMENT WINDOW STRUCTURE	56-10-02
IDENTIFICATION 1-Flight Compartment Window Structure	
IDENTIFICATION 2-Flight Compartment Splice Straps	
ALLOWABLE DAMAGE 1-Flight Compartment Window Structure	
CABIN WINDOW STRUCTURE	56-20-02
IDENTIFICATION 1-Cabin Window Structure	
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REPAIR GENERAL - Cabin Window Frames	
REPAIR 1-Cabin Window Frame External Repair	
REPAIR 2-Cabin Window Frame Forging Repair	
DOOR WINDOW STRUCTURE	56-30-02
IDENTIFICATION 1-Door Window Structure	
ALLOWABLE DAMAGE 1-Door Window Frames	



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IDENTIFICATION 1 - FLIGHT COMPARTMENT WINDOW STRUCTURE



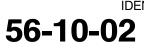
LEFT SIDE SHOWN RIGHT SIDE OPPOSITE

SECTION A-A

ITEM	DESCRIPTION	GAGE	MATERIAL	EFFECTIVITY
1 2 3 4 5	NO. 1 WINDOW FRAME NO. 2 WINDOW FRAME NO. 3 WINDOW FRAME A-B POST FITTING OPENABLE FRAME		FORGING TI-6AL-4V FORGING 7075-T73 FORGING 7075-T73 FORGING TI-6AL-4V FORGING 7075-T73	

LIST OF MATERIALS FOR SECTION A-A

Flight Compartment Window Structure Figure 1 (Sheet 1 of 3)



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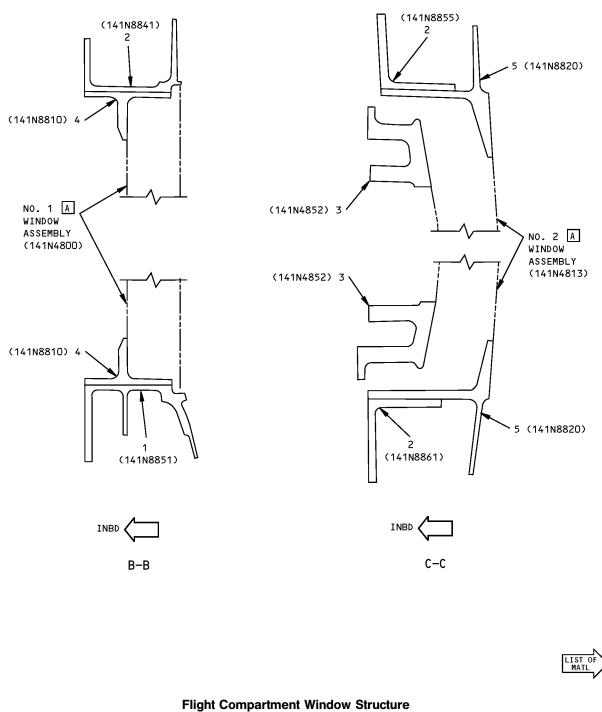
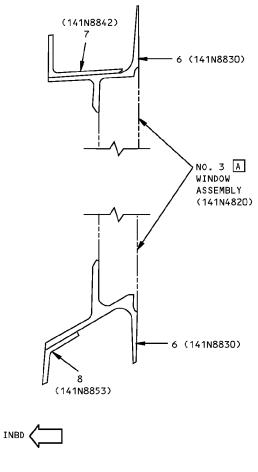


Figure 1 (Sheet 2 of 3)



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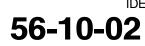


D-D

ITEM	DESCRIPTION	GAGE	MATERIAL	EFFECTIVITY
1	SILL FITTING		FORGING TI-6AL-4V	
2	SILL FITTING		FORGING 7075-T73	
3	OPENABLE FRAME		FORGING 7075-T73	
4	NO. 1 WINDOW FRAME		FORGING TI-6AL-4V	
5	NO. 2 WINDOW FRAME		FORGING 7075-T73	
6	NO. 3 WINDOW FRAME		FORGING 7075-T73	
7	ANGLE		BAC1503-100327 7075-T73511	
8	CHORD		BAC1514-2610 7075-T6	

LIST OF MATERIALS FOR SECTIONS B-B, C-C, D-D

Flight Compartment Window Structure Figure 1 (Sheet 3 of 3)



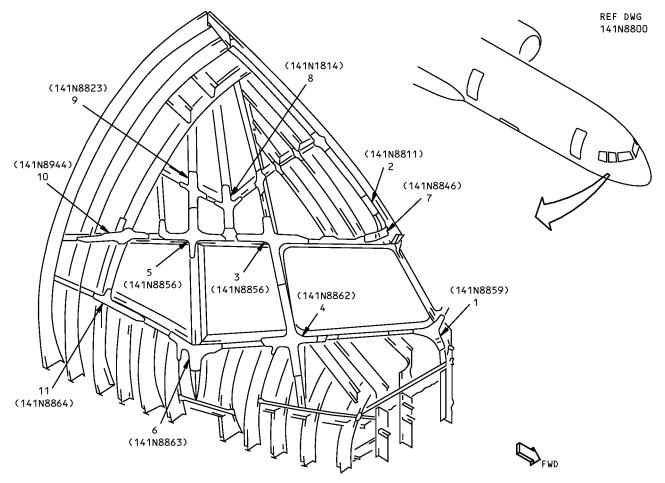
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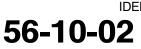




ITEM	DESCRIPTION	GAGE	MATERIAL	EFFECTIVITY
1	SPLICE PLATES PLATE PLATE	0.500 0.200	TI-6AL-4V TI-6AL-4V	
2	SPLICE PLATE	0.080	2024-T3	
3	SPLICE PLATE	0.375	TI-6AL-4V	
4	SPLICE PLATE	0.220	TI-6AL-4V	
5	SPLICE PLATE	0.200	TI-6AL-4V	
6	SPLICE PLATE	0.250	TI-6AL-4V	
7	SPLICE PLATE	0.180	TI-6AL-4V	
8	SPLICE PLATE	0.125	CLAD 7075-T6	
9	SPLICE PLATE	0.08	CLAD 7075-T6	
10	SPLICE PLATE	0.150	TI-6AL-4V	
11	SPLICE PLATE	0.19	TI-6AL-4V	

LIST OF MATERIALS

Flight Compartment Splice Straps Identification Figure 1



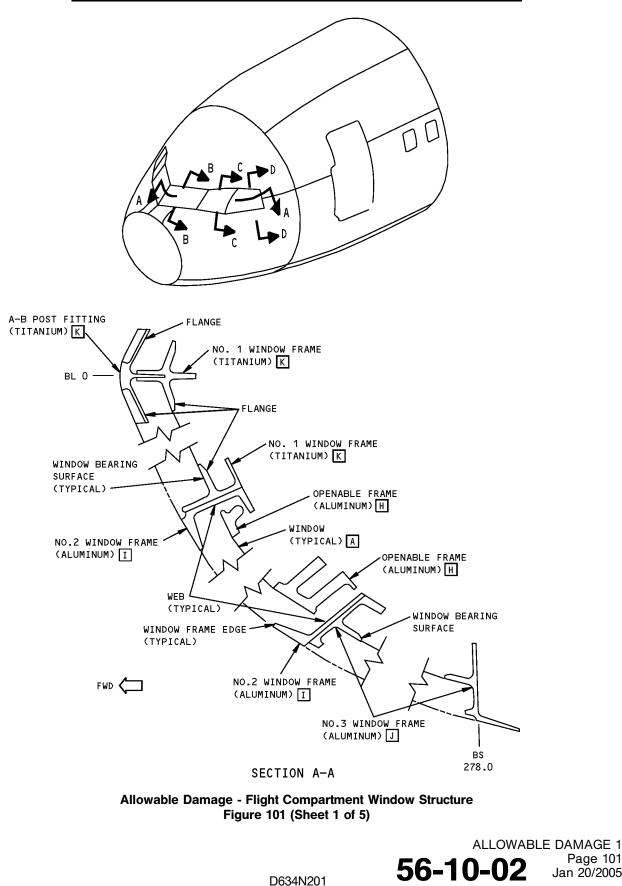
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ALLOWABLE DAMAGE 1 - FLIGHT COMPARTMENT WINDOW STRUCTURE



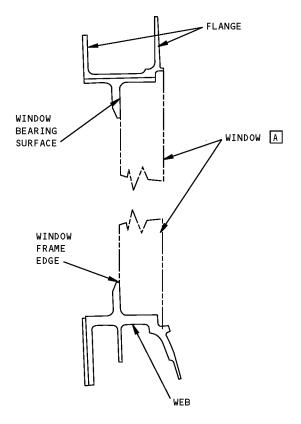
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SECTION B-B

DESCRIPTION	CRACKS	NICKS, GOUGES, SCRATCHES AND CORROSION	DENTS	HOLES AND PUNCTURES
WINDOW BEARING SURFACE	В	0.010 C	F	G
WINDOW FRAME EDGE	В	0.050 D	F	NOT ALLOWED
WEB	В	15% C	F	G
FLANGE SURFACE OR EDGE	В	15% C D E	F	G
OPENABLE FRAME	В	15% C D E	F	G

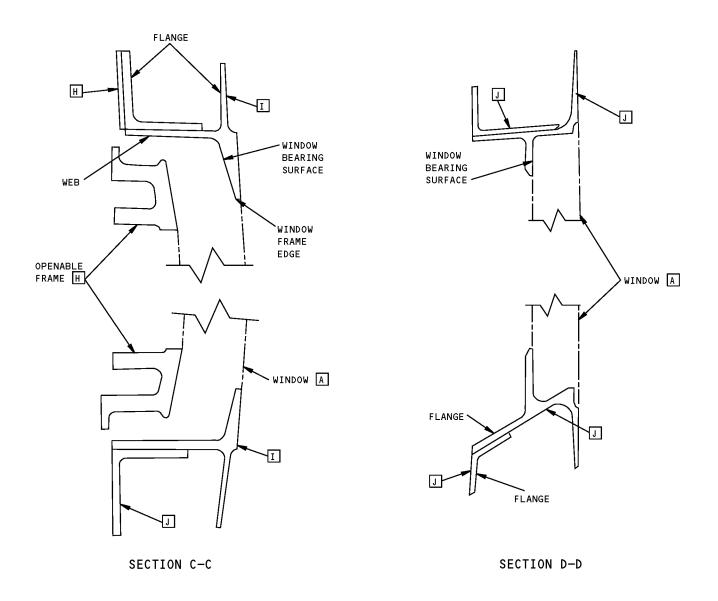
TABLE I

Allowable Damage - Flight Compartment Window Structure Figure 101 (Sheet 2 of 5)



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Allowable Damage - Flight Compartment Window Structure Figure 101 (Sheet 3 of 5)





NOTES

- A REPAIR IS REQUIRED WHEN THE DAMAGE EXCEEDS THE ALLOWABLE DAMAGE LIMITS OF TABLE I
- THE ALLOWABLE DAMAGE LIMITS OF TABLE I ARE A MAXIMUM AFTER ALL DAMAGE HAS BEEN REMOVED
- A THE REFERENCED STRUCTURE IS A WARRANTIED WINDSHIELD ASSEMBLY. ATTEMPTED REWORK OR REPAIR MAY VOID THE WARRANTY OR THE SALVAGE VALUE, WHICHEVER IS APPLICABLE. DO NOT DISASSEMBLE
- B ALL CRACKED PARTS MUST BE REPAIRED. CRACKS ON FLANGE EDGES AND SURFACES MUST BE RE-WORKED AS SHOWN IN DETAIL I, II OR III. THE DEPTH OF DAMAGE AFTER REWORK MUST NOT EXCEED THE REQUIREMENTS OF TABLE I FOR A NICK, GOUGE OR SCRATCH DAMAGE
- C NICKS, GOUGES OR SCRATCH DAMAGE REMOVED ACCORDING TO DETAIL I OR III ARE ALLOWABLE PROVIDED THE MAXIMUM PERMISSIBLE DEPTH IS NOT EXCEEDED. AFTER REWORK FINISH TO 125 MICROINCHES Ra.
- D NICKS ON EDGES OF FLANGES REMOVED ACCORDING TO DETAIL II ARE ALLOWED PROVIDED THE MAX-IMUM DEPTH IS NOT EXCEEDED AND THE MINIMUM FASTENER EDGE MARGINS ARE MAINTAINED
- E ALLOWABLE DAMAGE DEPTH BETWEEN FASTENERS MUST NOT EXCEED 15 PERCENT OF ORIGINAL MATERIAL THICKNESS. SEE DETAIL III
- F MINOR DENTS AND SURFACE DEPRESSIONS WHICH DO NOT PENETRATE ANY DEEPER THAN THE LIMITS OF TABLE I FOR NICK, GOUGE OR SCRATCH DAMAGE AND WHICH DO NOT DISTORT THE OPPOSITE SURFACE OF THE MEMBER MAY BE REWORKED AS SHOWN IN DETAIL I OR III
- G HOLES EQUAL IN DIAMETER TO THE ORIGINAL FASTENERS ARE ALLOWED PROVIDED THAT THERE IS A MINIMUM DISTANCE OF 2D FROM AN EXIST-ING FASTENER HOLE AND 1D FROM A FLANGE EDGE

- H SHOT PEEN REWORKED AREAS AS GIVEN IN 20-10-03 OF COMPONENT MAINTENANCE MANUAL WITH SHOT NO. 230-550, INTENSITY 0.012A
- I SHOT PEEN REWORKED AREAS AS GIVEN IN 20-10-03 OF COMPONENT MAINTENANCE MANUAL WITH SHOT NO. 230-550, INTENSITY 0.010A
- J SHOT PEEN REWORKED AREAS AS GIVEN IN 20-10-03 OF COMPONENT MAINTENANCE MANUAL WITH SHOT NO. 230-550, INTENSITY 0.008A
- K SHOT PEEN REWORKED AREAS AS GIVEN IN 20-10-03 OF COMPONENT MAINTENANCE MANUAL WITH SHOT NO. 230-550, INTENSITY 0.003A-0.005A L
- L SHOT PEEN INTENSITIES SHOWN FOR MANUFAC-TURED COMPONENTS. REFER TO SRM 51-20-06 FOR SHOT PEEN INTENSITIES REQUIRED DUE TO THICKNESS REDUCTION RESULTING FROM REWORK

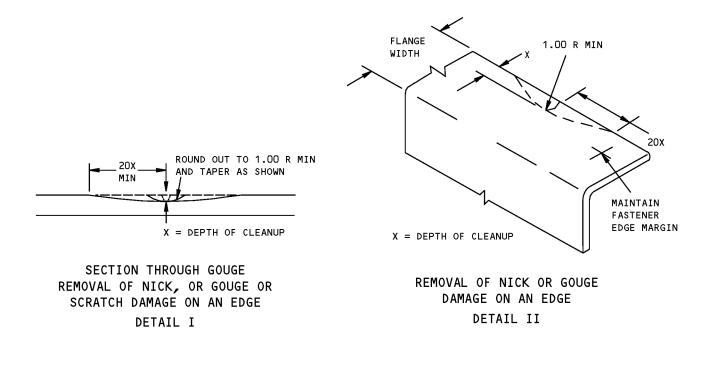
Allowable Damage - Flight Compartment Window Structure Figure 101 (Sheet 4 of 5)

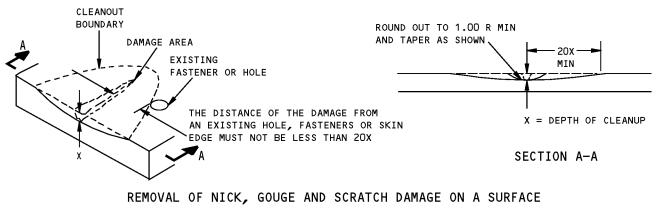


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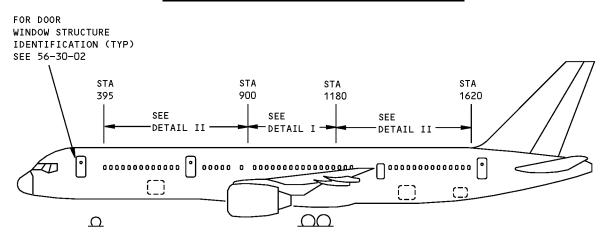
DETAIL III

Allowable Damage - Flight Compartment Window Structure Figure 101 (Sheet 5 of 5)

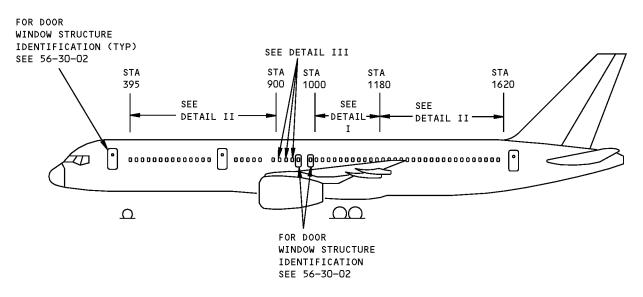




IDENTIFICATION 1 - CABIN WINDOW STRUCTURE







FOR AIRPLANES WITH OVERWING EMERGENCY EXIT DOORS

NOTE

• SEE SKIN PANEL INSTALLATION DRAWINGS FOR REFERENCE

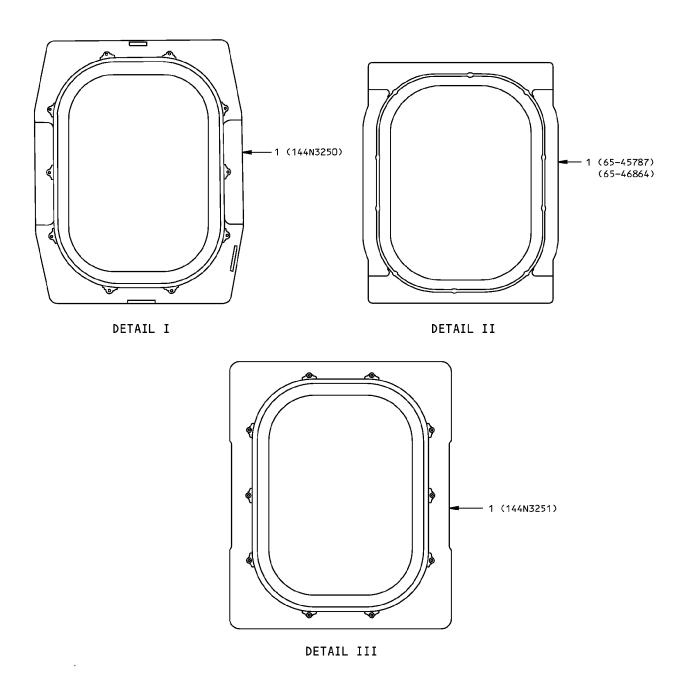
Cabin Window Structure Identification Figure 1 (Sheet 1 of 2)



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ITEM	DESCRIPTION	GAGE	MATERIAL	EFFECTIVITY
1	FRAME		FORGING 7075-T73	

LIST OF MATERIALS FOR DETAILS I, II AND III

Cabin Window Structure Identification Figure 1 (Sheet 2 of 2)

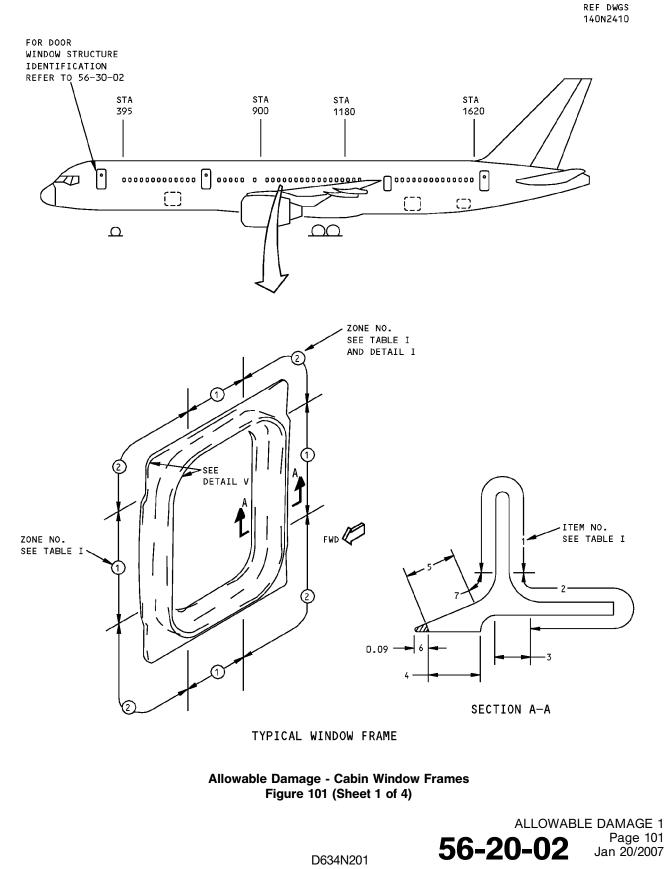


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ALLOWABLE DAMAGE 1 - CABIN WINDOW FRAMES



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ZONE	ITEM	MAX ALLOWABLE DEPTH OF DAMAGE E	CRACKS	NICKS, GOUGES, SCRATCHES AND CORROSION	DENTS	HOLES AND PUNCTURES	
	1	0.062	A	В			
	2	0.050	A	В			
(1)	3	0.040	С	В			
	4	0.030	С	В			
	5	0.030	С	В			
	6	0.090	A	А			
	7	0.031	С	В		NOT ALLOWED	
	1	0.031	F	В			
	2	0.031	A	BD			
2	3	0.020	С	В			
	4	0.015	С	В			
	5	0.015	С	В			
	6	0.062	F	A			
	7	0.031	C	В			

TABLE I

NOTES

- REFINISH REWORKED AREAS PER 51-20 OF THE MAINTENANCE MANUAL
- SMOOTH ALL REWORKED SURFACES TO 125 MICRO-INCHES AND APPLY ALODINE
- SHOT PEEN ALL REWORKED SURFACES PER 51-20-06 BEFORE APPLYING ALODINE. SHOT PEEN INTENSITIES WILL VARY WITH THE THICKNESS LEFT AFTER REWORK
- REFER TO 51-10-01 FOR AERODYNAMIC SMOOTH-NESS REQUIREMENTS. WHERE THE DAMAGE EXCEEDS THE LIMITS SHOWN IN 51-10-01, CONSIDERATION SHOULD BE GIVEN TO THE LOSS OF PERFORMANCE INVOLVED
- REFER TO 51-40-06 FOR FASTENER EDGE MARGIN
- A DAMAGE ON EDGE OF A FLANGE REMOVED ACCORDING TO DETAILS II OR III IS ALLOWED, PROVIDED THE MAXIMUM DEPTH IS NOT EXCEEDED AND THE MINIMUM FASTENER EDGE MARGIN IS MAINTAINED. ALL OTHER CRACKS NOT ALLOWED

- B DAMAGE REMOVED PER DETAIL IV IS ALLOWED PROVIDED THE MAXIMUM PERMISSIBLE DEPTH IS NOT EXCEEDED
- C NO CRACKS ALLOWED. REPLACE FRAME
- D DAMAGE ON SURFACES IN THE REGIONS OF FAST-ENER HEADS OR COLLARS IS ALLOWED, PROVIDED THAT THE DAMAGE CAN BE REMOVED BY SPOTFACING AS SHOWN IN DETAIL V
- E REDUCTION IN CROSS-SECTIONAL AREA NOT TO EXCEED 15% OF ORIGINAL AREA
- F DAMAGE OF EDGE OF A FLANGE REMOVED ACCORDING TO DETAIL II IS ALLOWED, PROVIDED THE MAXIMUM DEPTH IS NOT EXCEEDED. ALL OTHER CRACKS NOT ALLOWED

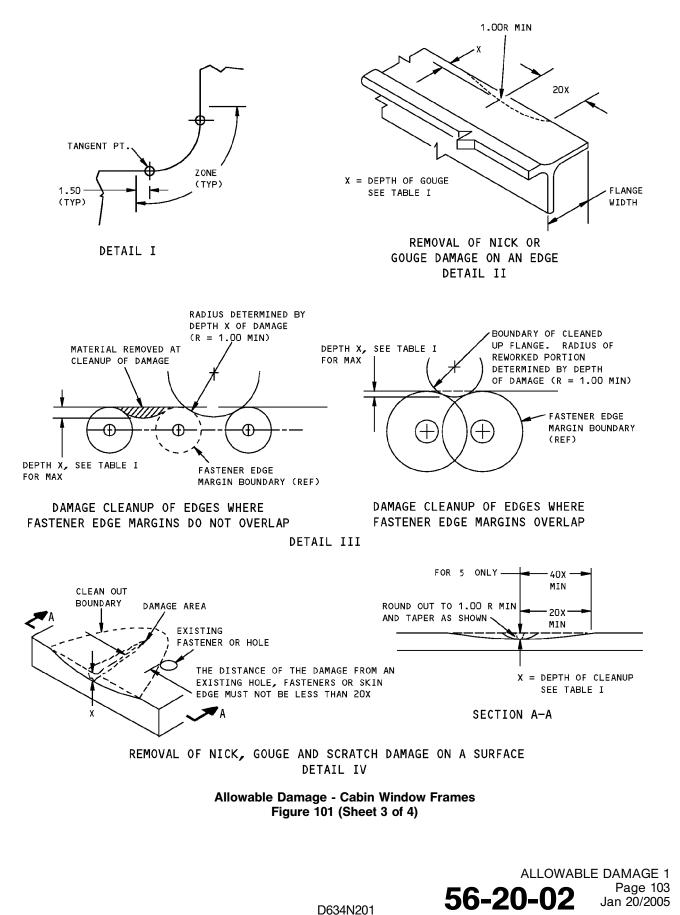
Allowable Damage - Cabin Window Frames Figure 101 (Sheet 2 of 4)



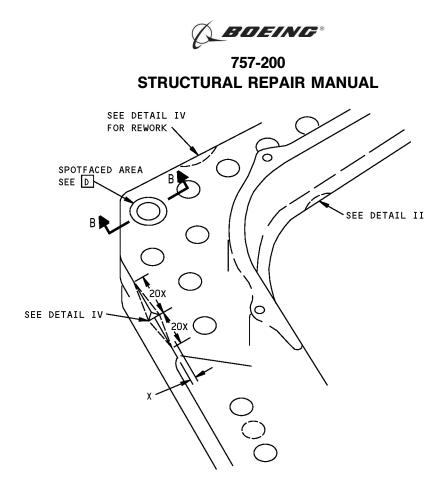
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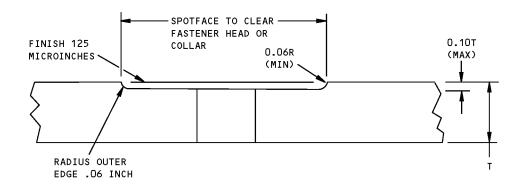
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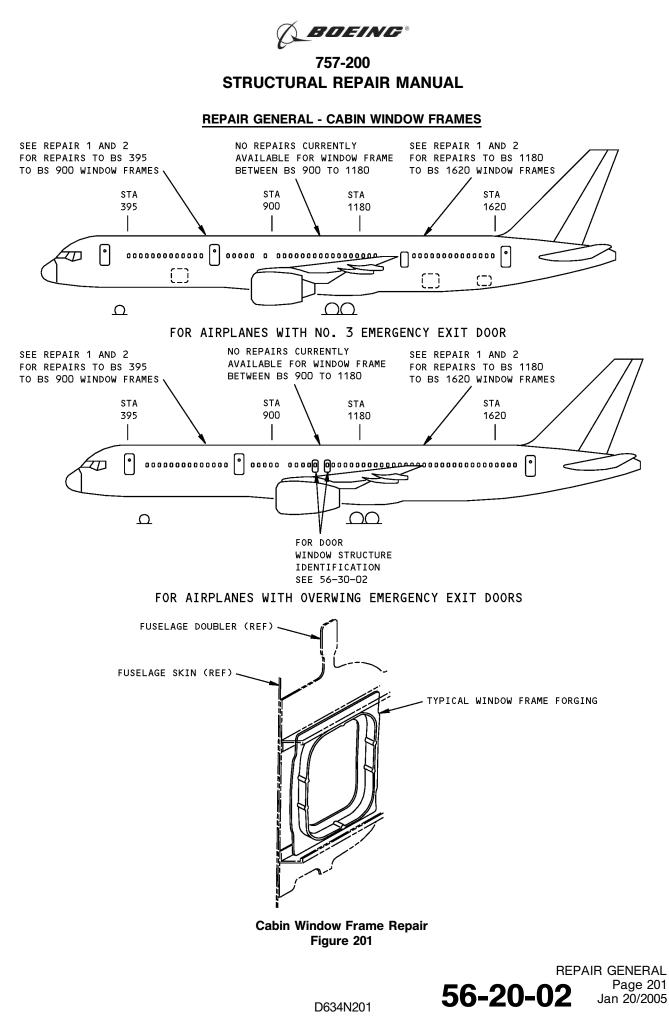


SECTION B-B

Allowable Damage - Cabin Window Frames Figure 101 (Sheet 4 of 4)







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REPAIR 1 - CABIN WINDOW FRAME EXTERNAL REPAIR

REPAIR INSTRUCTIONS

- This repair is for damage to cabin window frame in excess of that described in Allowable Damage 1 or for damage adjacent to fasteners common to skin. Clean up damage and maintain a minimum of 0.05 of sound material (see section A-A). Where damage is confined to the upper or lower flange only, doubler 1 is required, per detail II. Damage extending farther around the frame requires the use of doubler 2 per detail III. Extensive damage requires window frame replacement. B
- 2. Refer to Repair 1 for repair to cracks in the window forging.
- 3. Remove existing fasteners at locations which will be used during the repair.
- Make the repair parts from the material listed in Table 1.
- 5. Break sharp edges of original and repair parts 0.015 R to 0.030 R.
- Remove all nicks, scratches, burrs, sharp edges and corners from original and repair parts.
- Apply a protective alodine coating to the repair parts and the cut edges of the original parts as given in SRM 51-20-01.
- Apply one coat of BMS 10–11, Type I primer to repair parts and the cut edges of the original parts as given in AMM 51–21.
- 9. Install repair washers in existing countersinks in skin.
- Install the repair parts making a faying surface seal with BMS 5–95 sealant. Install fasteners wet with BMS 5–95 sealant.
- Fill irregularities in window frame with BMS 5–28 Type 3 as required to provide smooth surface for window seal.
 - <u>NOTE</u>: To avoid undue hand work of epoxy filler, use a metal srip and parting film of polyethylene clamped up until cure is complete.
- 12. Restore original finish as givem in AMM 51-21.

NOTES

- INSTALL ALL FASTENERS IN CLOSE REAMED HOLES
- REFER TO THE FOLLOWING WHEN USING THIS REPAIR:
 - AMM 51-20 FOR INTERIOR AND EXTERIOR FINISHES
 - AMM 51-31 FOR SEALS AND SEALING
 - SRM 51-10-02 FOR INSPECTION AND REMOVAL OF DAMAGE
 - SRM 51-10-01 FOR AERODYNAMIC SMOOTHNESS
 - SRM 51-20-01 FOR PROTECTIVE TREATMENT OF METAL
 - SRM 51-20-05 FOR SEALING OF REPAIRS
 - SRM 51-40 FOR FASTENER CODE, REMOVAL, INSTALLATION, HOLE SIZES AND EDGE MARGINS
 - SRM 51-40-08 FOR COUNTERSINK WASHERS
- A REPAIR PART 1 IS FOR DAMAGE IN THIS AREA (UPPER OR LOWER FRAME). LOCATE DOUBLER ON DAMAGED FRAME. DOUBLER SHOWN ON DAMAGED LOWER FRAME. FOR DAMAGED UPPER FRAME, ROTATE DOUBLER 180°
- B WHEN FRAME REPLACEMENT IS NECESSARY INSTALL THE NEW FRAME MAKING A FAYING SURFACE SEAL WITH BMS 5-95 SEALANT
- C WHEN USING 1/4" BOLTS TO REPLACE 3/16" BRILES RIVETS, MAKE SURE THAT THE BOLTS ARE AT LEAST 1/64" OVERSIZE IN ORDER TO COMPLETELY CLEAN OUT THE COUNTER BORE OF THE 3/16" BRILES RIVETS; REPAIR WASHERS WILL NOT BE NECESSARY

FASTENER SYMBOLS

- + ORIGINAL FASTENER LOCATION
- BACB30DY8-()X TENSION LOCKBOLT AT EXISTING FASTENER LOCATION C
- BACB30FQ8-() HEX DRIVE BOLT AT EXISTING FASTENER LOCATION C

	REPAIR MATERIAL					
PART QTY MATERIAL						
1 2	DOUBLER DOUBLER REPAIR WASHERS	1 1 AS REQD	0.16 CLAD 2024-T3 0.16 CLAD 2024-T3 SEE 51-40-08			

TABLE I

Cabin Window Frame External Repair Figure 201 (Sheet 1 of 3)

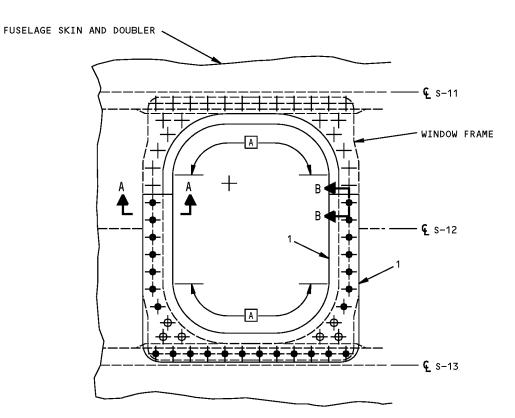


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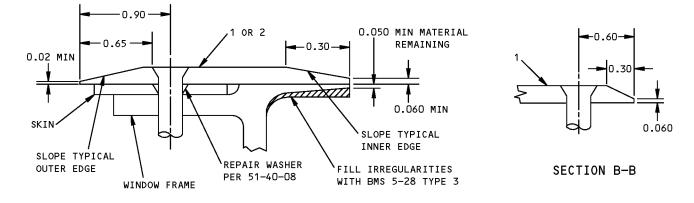




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DETAIL II



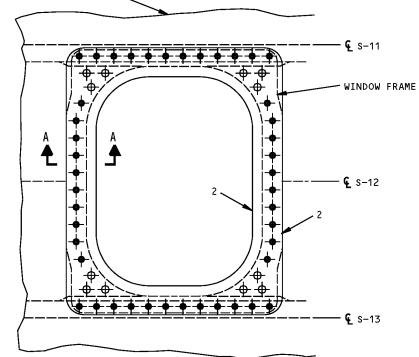
SECTION A-A

Cabin Window Frame External Repair Figure 201 (Sheet 2 of 3)



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FUSELAGE SKIN AND DOUBLER

DETAIL III

Cabin Window Frame External Repair Figure 201 (Sheet 3 of 3)



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REPAIR 2 - CABIN WINDOW FRAME FORGING REPAIR

REPAIR INSTRUCTIONS

- 1. Remove original fasteners and sealant as required to accomplish repair.
- Inspect the window forging area around the crack using eddy current NDT procedures to ensure that no other cracks are present. Notify Boeing if further cracking is found.
- 3. Stop drill ends of cracks per 51-10-02.
- Make the repair parts from the material listed in Table 1.
- 5. Break sharp edges of original and repair parts 0.015 R to 0.030 R.
- Remove all nicks, scratches, burrs, sharp edges and corners from original and repair parts.
- 7. Apply a protective alodine coating to the repair parts and the cut edges of the original parts per 51–20–01.
- Apply a protective cadmium plating to the CRES parts per 51-20-01.
- Apply one coat of BMS 10-11, Type I primer to repair parts and the cut edges of the original parts per 51-21 of the 757 Maintenance Manual. For CRES repair parts use two coats primer.
- 10. Install repair washers in existing countersinks in skin.
- Install the repair parts making a faying surface seal with BMS 5-95 sealant. Install fasteners wet with BMS 5-95 sealant.
- 12. Restore original finish as given in AMM 51-21.

NOTES

- THIS REPAIR IS ONLY FOR CRACKS WITHIN SHADED AREAS AS SHOWN IN THE REPAIR DIAGRAMS. CONTACT BOEING FOR DAMAGE IN OTHER AREAS
- INSTALL ALL FASTENERS IN CLOSE REAMED HOLES
- REFER TO THE FOLLOWING WHEN USING THIS REPAIR:
 - AMM 51-20 FOR INTERIOR AND EXTERIOR FINISHES
 - AMM 51-31 FOR SEALS AND SEALING
 - SRM 51-10-02 FOR INSPECTION AND REMOVAL DAMAGE
 - SRM 51-20-01 FOR PROTECTIVE TREATMENT OF METAL
 - SRM 51-20-05 FOR SEALING OF REPAIRS
 - SRM 51-40 FOR FASTENER CODE, REMOVAL, INSTALLATION, HOLE SIZES AND EDGE MARGINS
 - SRM 51-40-08 FOR COUNTERSINK WASHERS
 - SRM 51-10-01 FOR AERODYNAMIC SMOOTHNESS
- PART SIX OF THE 737 NONDESTRUCTIVE TEST MANUAL FOR EDDY CURRENT INSPECTION PROCEDURES
- A LOCATE DOUBLER ON DAMAGED FLANGE. DOUBLER SHOWN ON DAMAGED LOWER FLANGE. FOR DAMAGED UPPER FLANGE, ROTATE DOUBLER 180° AND INSTALL ANGLE PER DETAIL II
- B FOR CRACK DAMAGE IN VERTICAL FLANGE(S) OR IN BOTH UPPER AND LOWER HORIZONTAL FLANGES USE A DOUBLER THAT ENCIRCLES ENTIRE FORGING PER DETAIL III
- C EXTENSIVE DAMAGE REQUIRES WINDOW FRAME REPLACEMENT. WHEN FRAME REPLACEMENT IS NECESSARY, TO INSTALL THE NEW FRAME MAKING A FAYING SURFACE SEAL WITH BMS 5-95 SEALANT
- WHEN USING 1/4" BOLTS TO REPLACE 3/16" BRILES RIVETS, MAKE SURE THAT THE BOLTS ARE AT LEAST 1/64" OVERSIZE IN ORDER TO COMPLETELY CLEAN OUT THE COUNTERBORE OF THE 3/16" BRILES RIVETS; REPAIR WASHERS WILL NOT BE NECESSARY.

Cabin Window Frame Forging Repair Figure 201 (Sheet 1 of 3)



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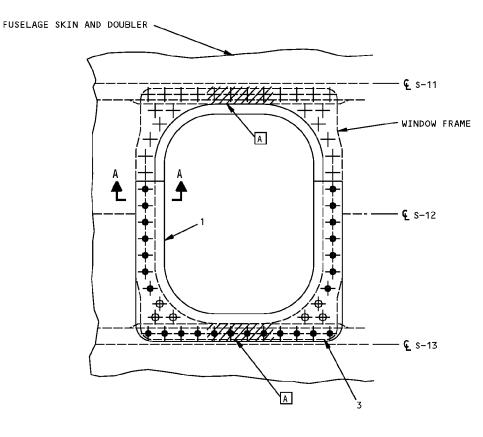


SYMBOLS

- + ORIGINAL FASTENER LOCATION
- + BACB30DY8-()X TENSION LOCKBOLT AT EXISTING FASTENER LOCATION D
- + BACB30FQ8-() HEX DRIVE BOLT AT EXISTING FASTENER LOCATION D

	REPAIR MATERIAL					
PART QTY MATERIAL						
1 2	DOUBLER DOUBLER	1 1	0.16 CLAD 2024-T3 0.16 CLAD 2024-T3			
3	ANGLE	1	D.090 CRES AISI 301 HALF HARD			
4	ANGLE	1	0.090 CRES AISI 301 HALF HARD			





DETAIL II

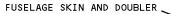
Cabin Window Frame Forging Repair Figure 201 (Sheet 2 of 3)

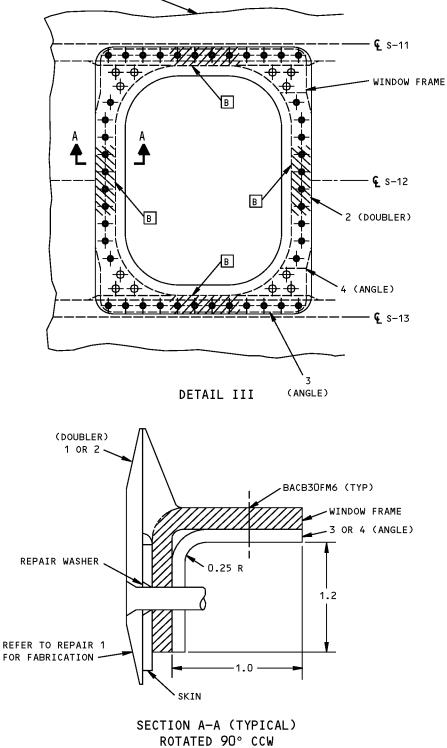


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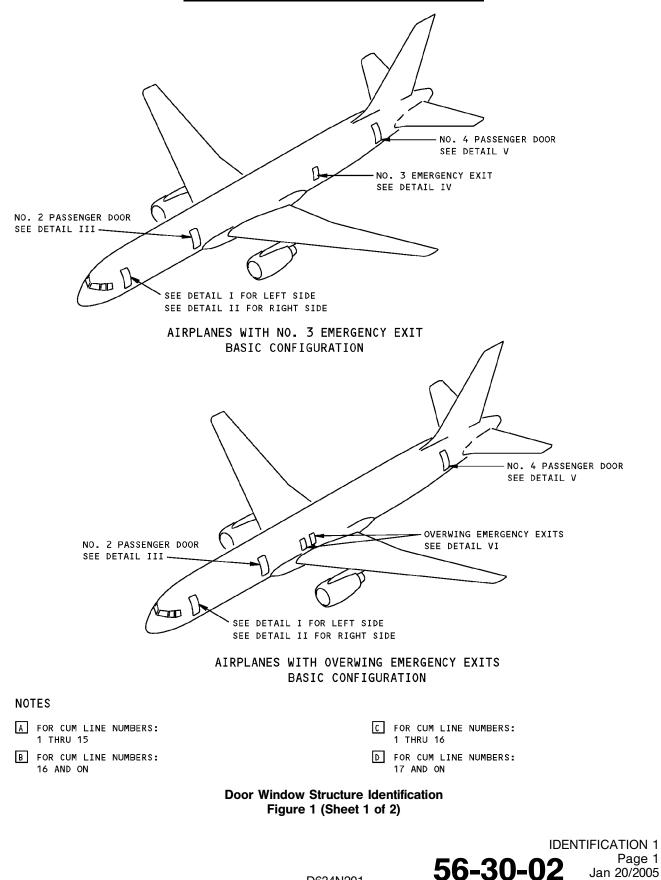
Cabin Window Frame Forging Repair Figure 201 (Sheet 3 of 3)



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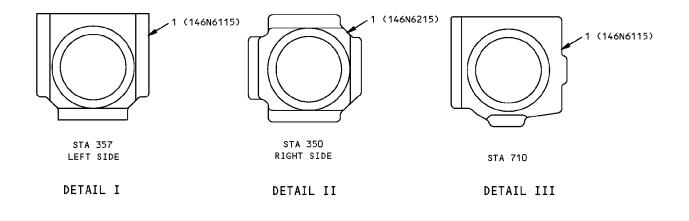


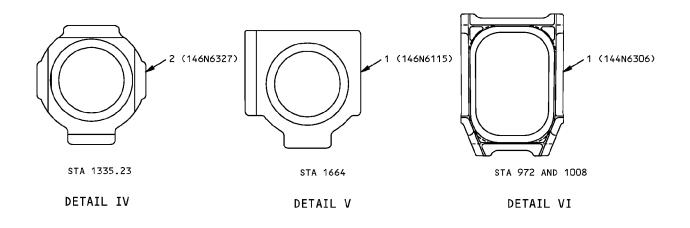
IDENTIFICATION 1 - DOOR WINDOW STRUCTURE



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757-200 STRUCTURAL REPAIR MANUAL





ITEM	DESCRIPTION	GAGE	MATERIAL	EFFECTIVITY
1	FRAME	1.50	7075-T7351 7075-T73 FORGING	A B
2	FRAME	1.40	7075-T7351 7075-T73 FORGING	C D
3	FRAME		7075-T73 FORGING	

LIST OF MATERIALS FOR DETAILS I THRU VI

Door Window Structure Identification Figure 1 (Sheet 2 of 2)

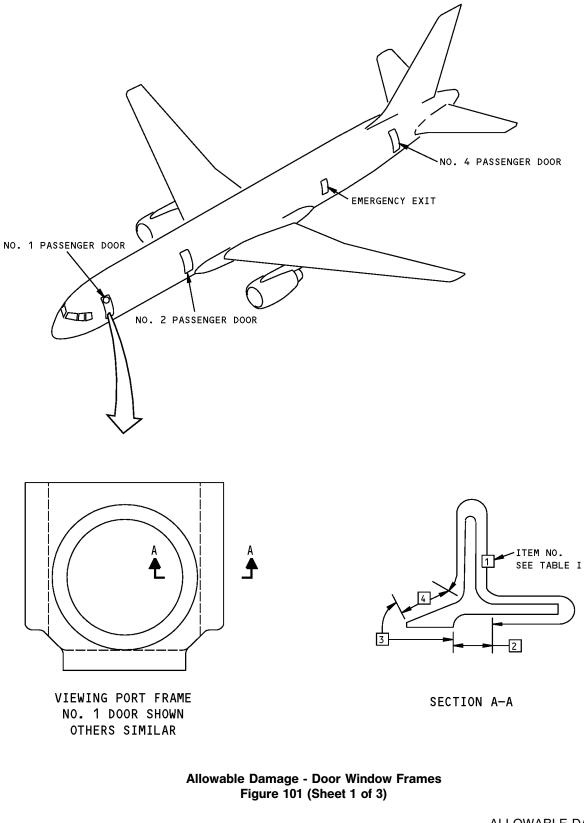


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ALLOWABLE DAMAGE 1 - DOOR WINDOW FRAMES









ITEM	CRACKS	NICKS, GOUGES, SCRATCHES AND CORROSION	DENTS	HOLES AND PUNCTURES
1	A	0.020 MAX DEPTH B	NOT ALLOWED	NOT ALLOWED
2	C	0.020 MAX DEPTH B	NOT ALLOWED	NOT ALLOWED
3	A	0.030 MAX DEPTH B	NOT ALLOWED	NOT ALLOWED
4	С	0.030 MAX DEPTH B	NOT ALLOWED	NOT ALLOWED

TABLE I

NOTES

- REFINISH REWORKED AREAS PER 51-20 OF THE . MAINTENANCE MANUAL
- SMOOTH ALL REWORKED SURFACES TO 125 MICRO-٠ INCHES
- SHOT PEEN ALL REWORKED SURFACES WITH SHOT NO. 230-250, .006A INTENSITY, COVERAGE 2.0. REFER TO 51-20-06
- ALODIZE ALL REWORKED SURFACES AFTER SHOT PEENING PER 51-20-01 AND APPLY ONE COAT OF BMS 10-11 TYPE 1 PRIMER IN ACCORDANCE WITH 51-21-10 OF THE 757 MAINTENANCE MANUAL
- REFER TO 51-10-01 FOR AERODYNAMIC SMOOTHNESS REQUIREMENTS. WHERE THE DAMAGE EXCEEDS THE LIMITS SHOWN IN 51-10-01, CONSIDERATION SHOULD BE GIVEN TO THE LOSS OF PERFORMANCE INVOLVED
- REFER TO 51-40-06 FOR FASTENER EDGE MARGIN

- A DAMAGE ON EDGE OF A FLANGE REMOVED ACCORD-ING TO DETAILS I OR II IS ALLOWED PROVIDED THE MAXIMUM DEPTH IS NOT EXCEEDED AND THE MINIMUM FASTENER EDGE MARGIN IS MAINTAINED. ALL OTHER CRACKS NOT ALLOWED
- B DAMAGE REMOVED PER DETAIL III IS ALLOWED PROVIDED THE MAXIMUM PERMISSABLE DEPTH IS NOT EXCEEDED
- C NO CRACKS ALLOWED. REPLACE FRAME

Allowable Damage - Door Window Frames Figure 101 (Sheet 2 of 3)



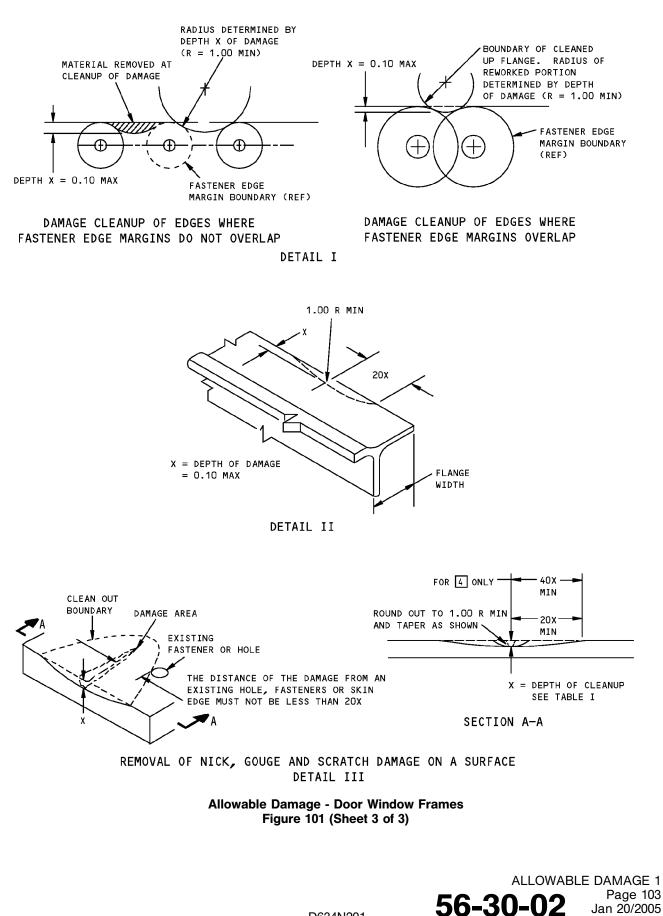
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