CHAPTER

56

WINDOWS



CHAPTER 56 WINDOWS

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3	Jan 20/2005	103	Jan 20/2005		
4	BLANK	104	BLANK		
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105	Jan 20/2005				
106	BLANK				
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A = Added, R = Revised, O = Overflow, D = Deleted

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CHAPTER 56 WINDOWS

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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	

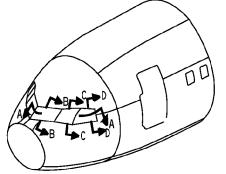
ALLOWABLE DAMAGE 1-Door Window Frames

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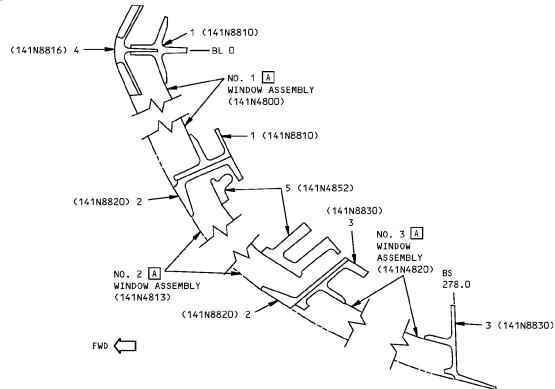
IDENTIFICATION 1 - FLIGHT COMPARTMENT WINDOW STRUCTURE



NOTES

REF DWG 141N8800

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.



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

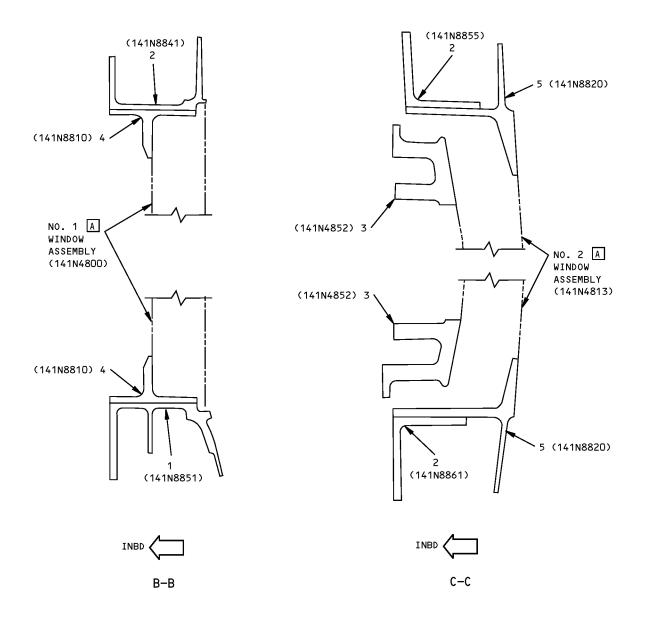
Flight Compartment Window Structure Figure 1 (Sheet 1 of 3)

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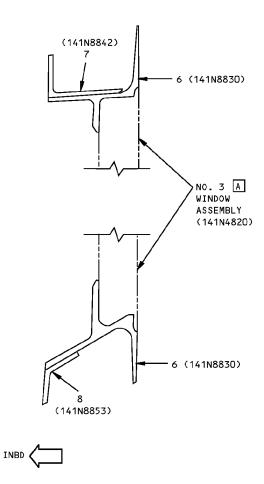
Flight Compartment Window Structure Figure 1 (Sheet 2 of 3)

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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	

D-D

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

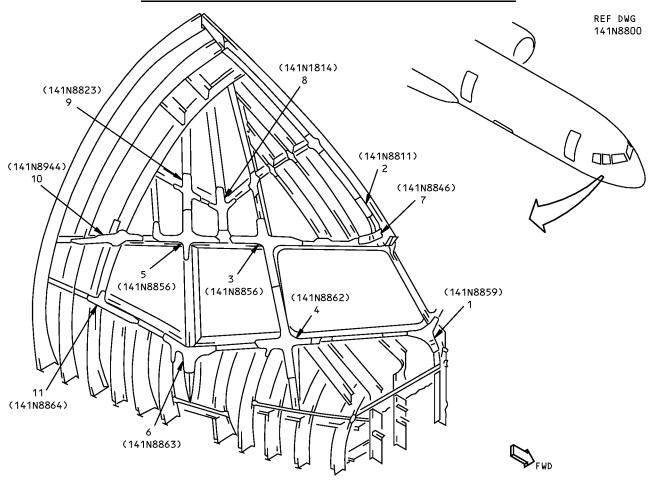
Flight Compartment Window Structure Figure 1 (Sheet 3 of 3)

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IDENTIFICATION 2 - FLIGHT COMPARTMENT SPLICE STRAPS



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

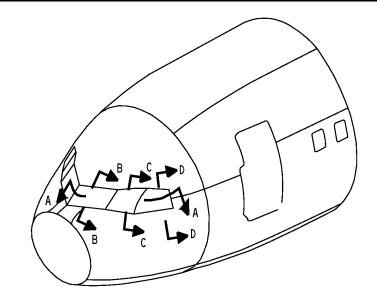
IDENTIFICATION 2

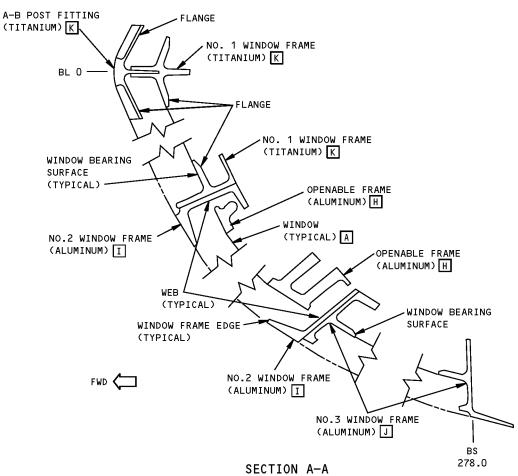
56-10-02

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ALLOWABLE DAMAGE 1 - FLIGHT COMPARTMENT WINDOW STRUCTURE



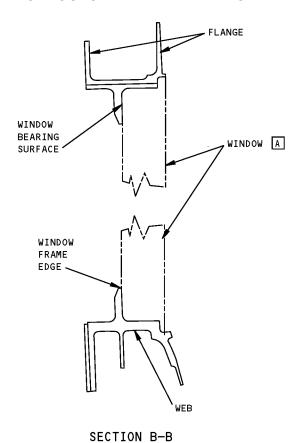


Allowable Damage - Flight Compartment Window Structure Figure 101 (Sheet 1 of 5)

> ALLOWABLE DAMAGE 1 56-10-02

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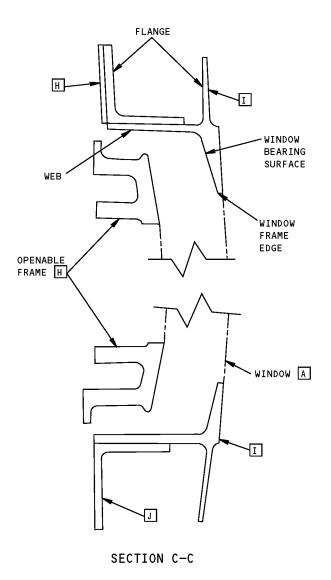
DESCRIPTION	CRACKS	NICKS, GOUGES, SCRATCHES AND CORROSION	DENTS	HOLES AND PUNCTURES
WINDOW BEARING SURFACE	В	0.010 C	F	G
WINDOW FRAME EDGE	В	0.050 D	F	NOT ALLOWED
WEB	В	15% C	F	G
FLANGE SURFACE OR EDGE	В	15% C D E	F	G
OPENABLE FRAME	В	15% C D E	F	G

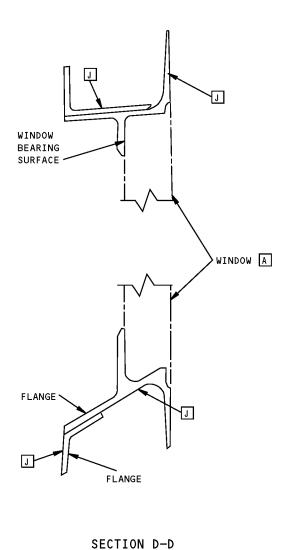
TABLE I

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)

> ALLOWABLE DAMAGE 1 Page 103 56-10-02 Jan 20/2005



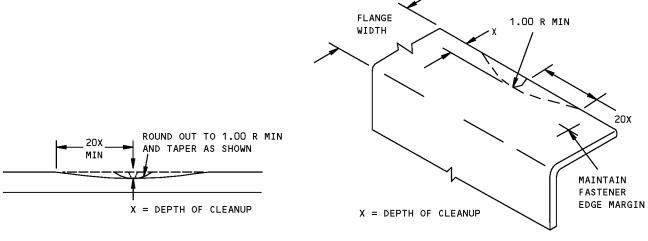
NOTES

- 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 REWORKED 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 MAXIMUM 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
- SHOT PEEN REWORKED AREAS AS GIVEN IN 20-10-03 OF COMPONENT MAINTENANCE MANUAL WITH SHOT NO. 230-550, INTENSITY 0.010A
- 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 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

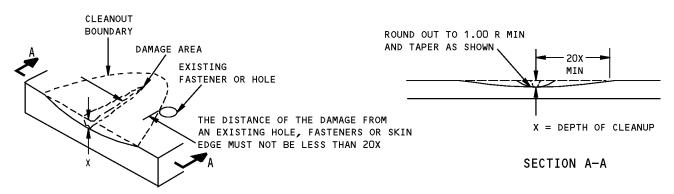
Allowable Damage - Flight Compartment Window Structure Figure 101 (Sheet 4 of 5)





SECTION THROUGH GOUGE REMOVAL OF NICK, OR GOUGE OR SCRATCH DAMAGE ON AN EDGE DETAIL I

REMOVAL OF NICK OR GOUGE DAMAGE ON AN EDGE DETAIL II



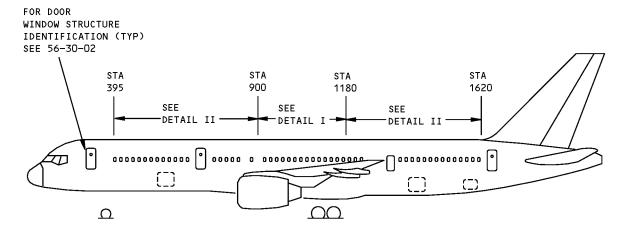
REMOVAL OF NICK, GOUGE AND SCRATCH DAMAGE ON A SURFACE DETAIL III

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

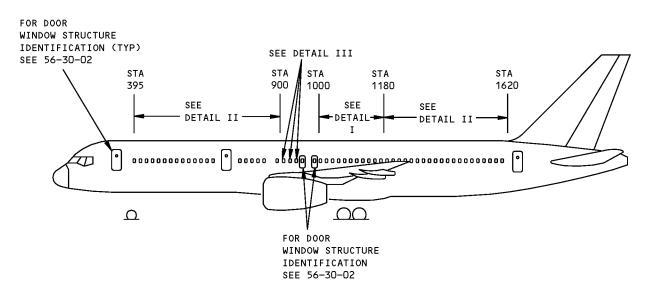
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IDENTIFICATION 1 - CABIN WINDOW STRUCTURE



FOR AIRPLANES WITH NO. 3 EMERGENCY EXIT DOOR



FOR AIRPLANES WITH OVERWING EMERGENCY EXIT DOORS

NOTE

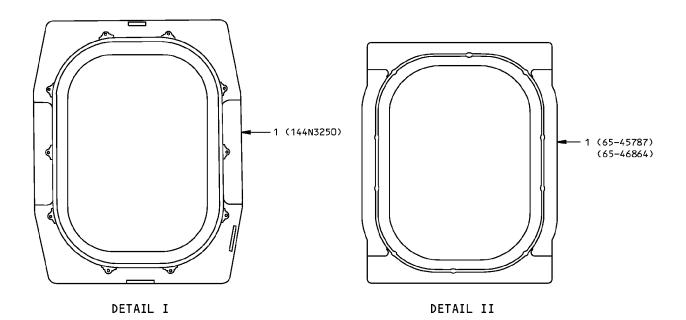
• SEE SKIN PANEL INSTALLATION DRAWINGS FOR REFERENCE

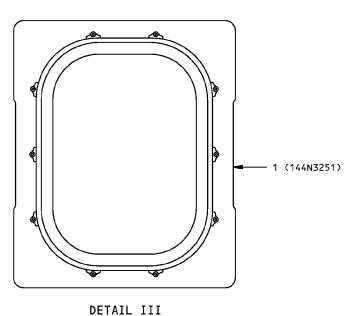
> **Cabin Window Structure Identification** Figure 1 (Sheet 1 of 2)

> > **IDENTIFICATION 1** 56-20-02

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ITEM	DESCRIPTION	GAGE	MATERIAL	EFFECTIVITY
1	FRAME		FORGING 7075-T73	

LIST OF MATERIALS FOR DETAILS I, II AND III

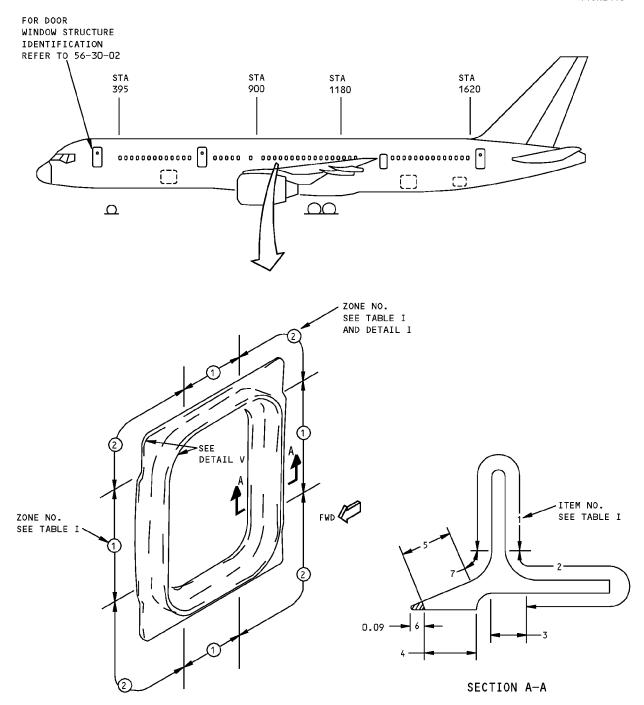
Cabin Window Structure Identification Figure 1 (Sheet 2 of 2)

IDENTIFICATION 1



ALLOWABLE DAMAGE 1 - CABIN WINDOW FRAMES

REF DWGS 140N2410



TYPICAL WINDOW FRAME

Allowable Damage - Cabin Window Frames Figure 101 (Sheet 1 of 4)

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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	А	В		
	2	0.050	Α	В		
1	3	0.040	С	В		
	4	0.030	С	В		
	5	0.030	С	В		
	6	0.090	А	А		
	7	0.031	С	В		OT OWED
	1	0.031	F	В		
	2	0.031	А	B D		
(2)	3	0.020	С	В		
	4	0.015	С	В		
	5	0.015	С	В		
	6	0.062	F	А		·
	7	0.031	С	В		

TABLE I

NOTES

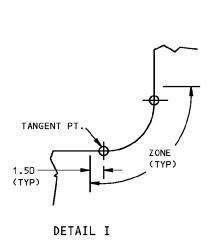
- REFINISH REWORKED AREAS PER 51-20 OF THE MAINTENANCE MANUAL
- SMOOTH ALL REWORKED SURFACES TO 125 MICRO-INCHES AND APPLY ALODINE
- SHOT PEEN ALL REWORKED SURFACES PER 51-20-06
 BEFORE APPLYING ALODINE. SHOT PEEN
 INTENSITIES WILL VARY WITH THE THICKNESS
 LEFT AFTER REWORK
- REFER TO 51-10-01 FOR AERODYNAMIC 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

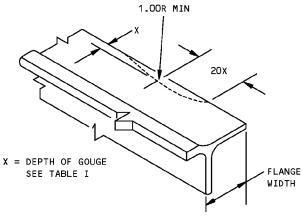
- B DAMAGE REMOVED PER DETAIL IV IS ALLOWED PROVIDED THE MAXIMUM PERMISSIBLE DEPTH IS NOT EXCEEDED
- C NO CRACKS ALLOWED. REPLACE FRAME
- D DAMAGE ON SURFACES IN THE REGIONS OF FAST-ENER HEADS OR COLLARS IS ALLOWED, PROVIDED THAT THE DAMAGE CAN BE REMOVED BY SPOTFACING AS SHOWN IN DETAIL V
- E REDUCTION 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)

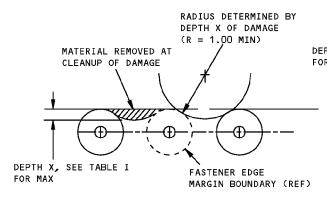
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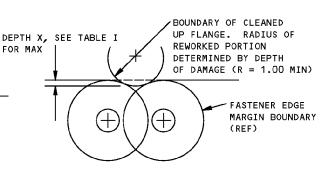






REMOVAL OF NICK OR GOUGE DAMAGE ON AN EDGE DETAIL II

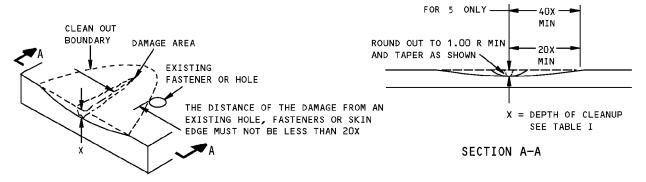




DAMAGE CLEANUP OF EDGES WHERE FASTENER EDGE MARGINS DO NOT OVERLAP

DAMAGE CLEANUP OF EDGES WHERE FASTENER EDGE MARGINS OVERLAP

DETAIL III

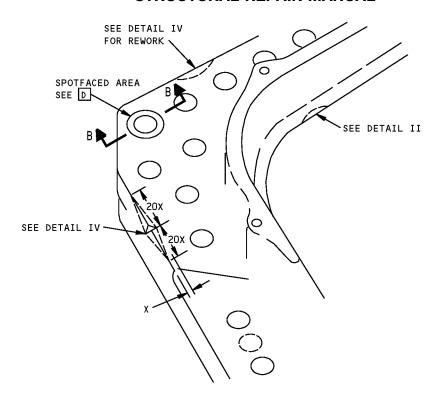


REMOVAL OF NICK, GOUGE AND SCRATCH DAMAGE ON A SURFACE DETAIL IV

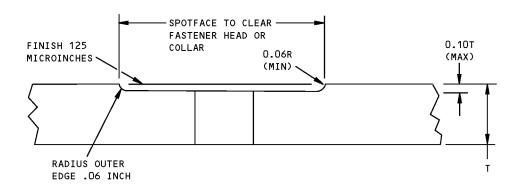
Allowable Damage - Cabin Window Frames Figure 101 (Sheet 3 of 4)

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DETAIL V



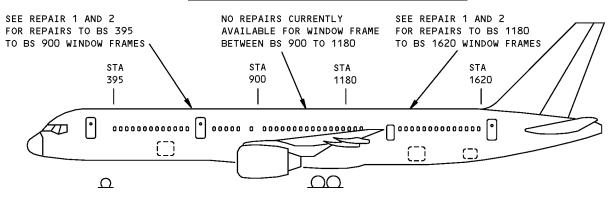
SECTION B-B

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

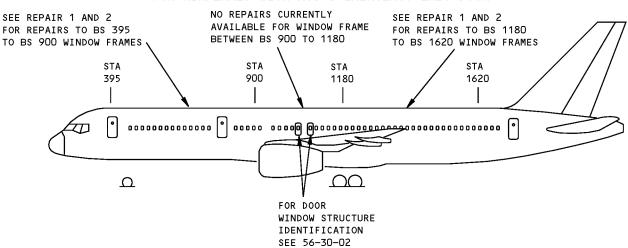
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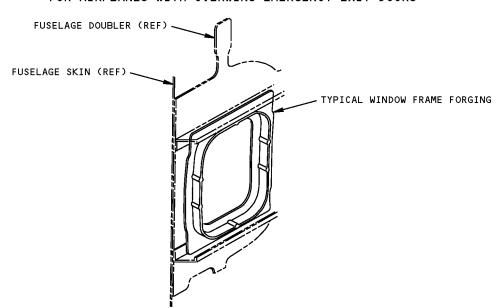
REPAIR GENERAL - CABIN WINDOW FRAMES



FOR AIRPLANES WITH NO. 3 EMERGENCY EXIT DOOR



FOR AIRPLANES WITH OVERWING EMERGENCY EXIT DOORS



Cabin Window Frame Repair Figure 201

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REPAIR GENERAL Page 201 Jan 20/2005



REPAIR 1 - CABIN WINDOW FRAME EXTERNAL REPAIR

REPAIR INSTRUCTIONS

- 1. 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.
- 2. Refer to Repair 1 for repair to cracks in the window forging.
- 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.
- 8. 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.
- Install repair washers in existing countersinks in skin.
- 10. Install the repair parts making a faying surface seal with BMS 5-95 sealant. Install fasteners wet with BMS 5-95 sealant.
- 11. Fill irregularities in window frame with BMS 5-28 Type 3 as required to provide smooth surface for window seal.

NOTE: 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
- 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
- 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

	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		

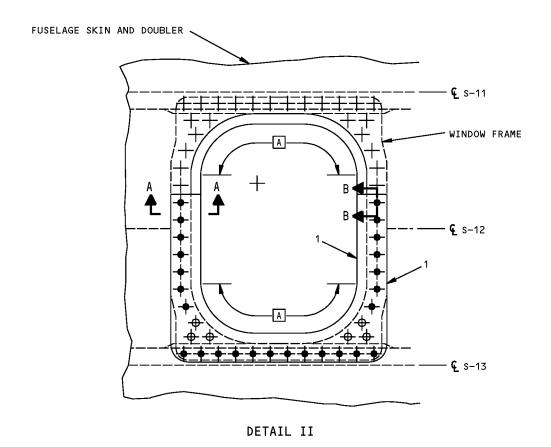
TABLE I

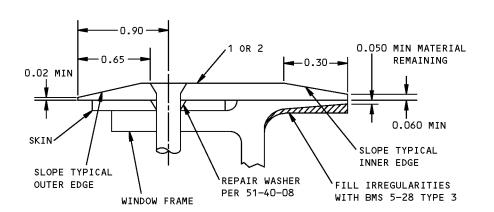
Cabin Window Frame External Repair Figure 201 (Sheet 1 of 3)

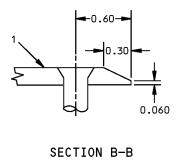
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REPAIR 1 Page 201 Jan 20/2005





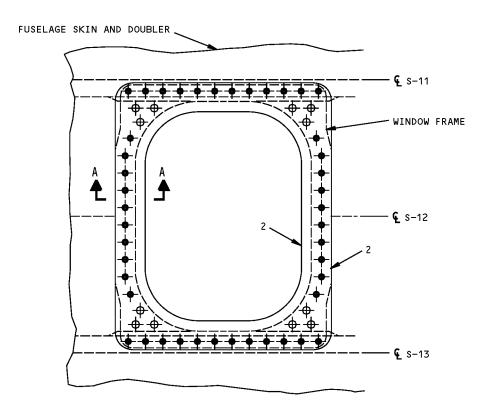




SECTION A-A

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





DETAIL III

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



REPAIR 2 - CABIN WINDOW FRAME FORGING REPAIR

REPAIR INSTRUCTIONS

- Remove original fasteners and sealant as required to accomplish repair.
- 2. 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.
- 4. 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.
- 8. 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.
- Install repair washers in existing countersinks in skin.
- 11. 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
- D 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)



SYMBOLS

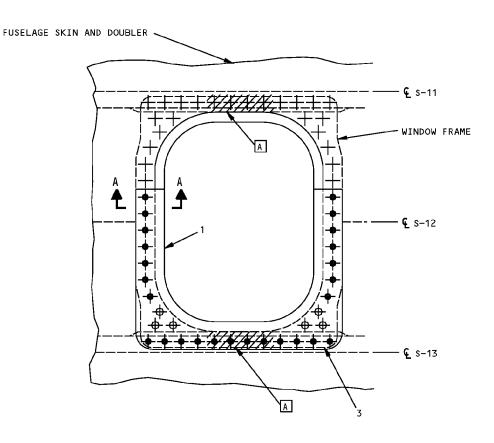
+ ORIGINAL FASTENER LOCATION

+ BACB3ODY8-()X TENSION LOCKBOLT AT EXISTING FASTENER LOCATION D

+ BACB30FQ8-() HEX DRIVE BOLT AT EXISTING FASTENER LOCATION D

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

TABLE I



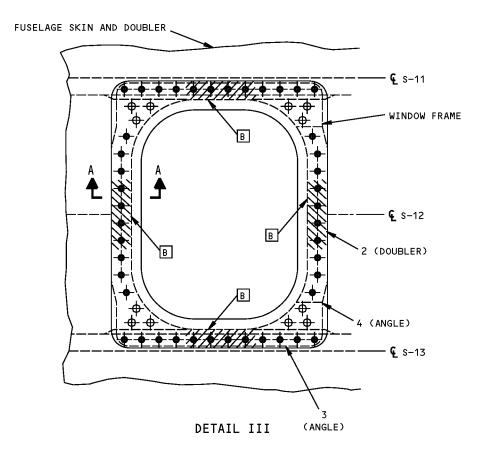
DETAIL II

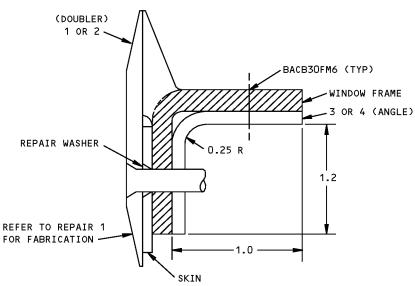
Cabin Window Frame Forging Repair Figure 201 (Sheet 2 of 3)

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REPAIR 2 Page 202 Jan 20/2005





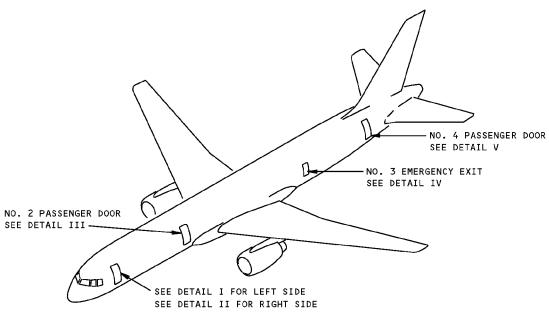


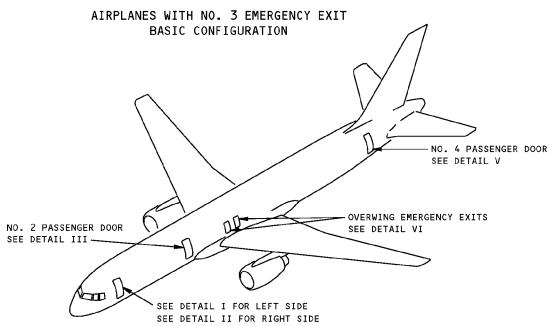
SECTION A-A (TYPICAL) ROTATED 90° CCW

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



IDENTIFICATION 1 - DOOR WINDOW STRUCTURE





AIRPLANES WITH OVERWING EMERGENCY EXITS BASIC CONFIGURATION

NOTES

A FOR CUM LINE NUMBERS: 1 THRU 15

B FOR CUM LINE NUMBERS: 16 AND ON

C FOR CUM LINE NUMBERS: 1 THRU 16

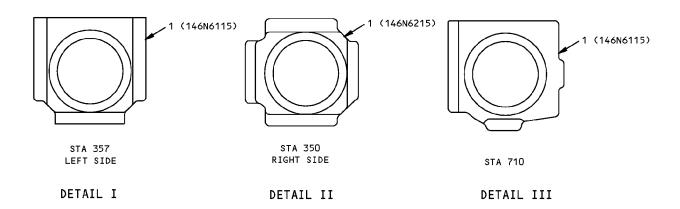
D FOR CUM LINE NUMBERS: 17 AND ON

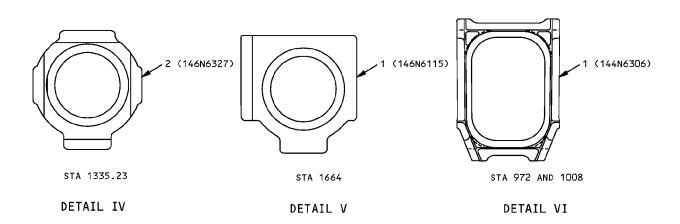
Door Window Structure Identification Figure 1 (Sheet 1 of 2)

> **IDENTIFICATION 1** 56-30-02

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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	<u>с</u> D
3	FRAME		7075-T73 FORGING	

LIST OF MATERIALS FOR DETAILS I THRU VI

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

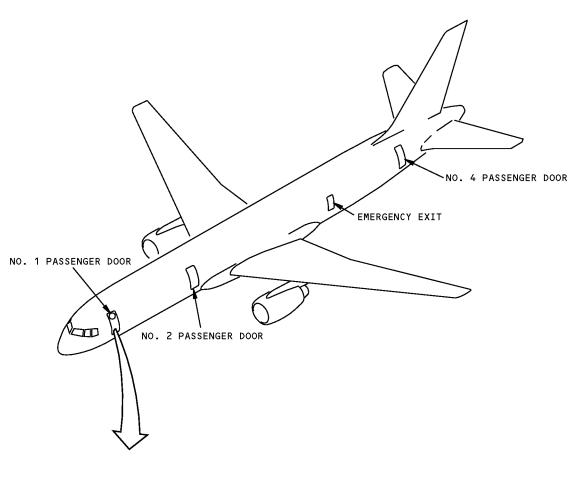
IDENTIFICATION 1

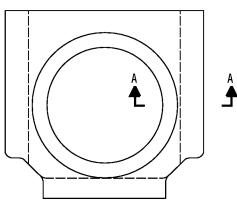
56-30-02

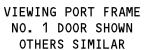
Page 2 Jan 20/2005

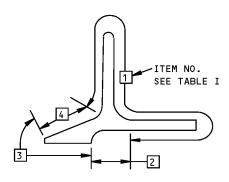


ALLOWABLE DAMAGE 1 - DOOR WINDOW FRAMES









SECTION A-A

Allowable Damage - Door Window Frames Figure 101 (Sheet 1 of 3)

> ALLOWABLE DAMAGE 1 56-30-02

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ITEM	CRACKS	NICKS, GOUGES, SCRATCHES AND CORROSION	DENTS	HOLES AND PUNCTURES
1	Α	O.020 MAX DEPTH B	NOT ALLOWED	NOT ALLOWED
2	С	O.020 MAX DEPTH B	NOT ALLOWED	NOT ALLOWED
3	Α	O.O3O MAX DEPTH B	NOT ALLOWED	NOT ALLOWED
4	С	O.O3O MAX DEPTH B	NOT ALLOWED	NOT ALLOWED

TABLE I

NOTES

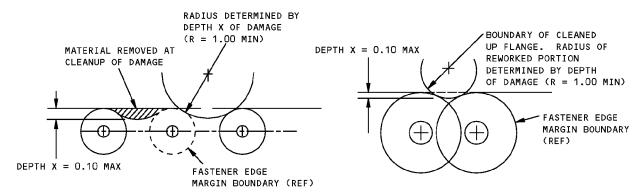
- REFINISH REWORKED AREAS PER 51-20 OF THE MAINTENANCE MANUAL
- SMOOTH ALL REWORKED SURFACES TO 125 MICRO-INCHES
- SHOT PEEN ALL REWORKED SURFACES WITH SHOT NO. 230-250, .006A INTENSITY, COVERAGE 2.0. REFER TO 51-20-06
- ALODIZE ALL REWORKED SURFACES AFTER SHOT PEENING PER 51-20-01 AND APPLY ONE COAT 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)

ALLOWABLE DAMAGE 1
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Jan 20/2005

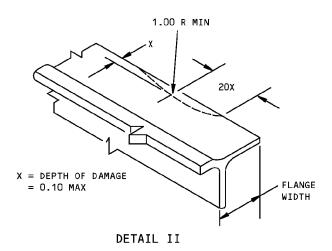


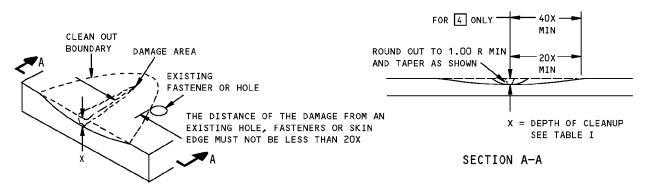


DAMAGE CLEANUP OF EDGES WHERE FASTENER EDGE MARGINS DO NOT OVERLAP

DAMAGE CLEANUP OF EDGES WHERE FASTENER EDGE MARGINS OVERLAP

DETAIL I





REMOVAL OF NICK, GOUGE AND SCRATCH DAMAGE ON A SURFACE DETAIL III

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

ALLOWABLE DAMAGE 1
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