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PRODUCT SUPPORT DIRECTORATE
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SERVICE BULLETIN

REVISION TRANSMITTAL SHEET

MODIFICATION No. None

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - INTRODUCE SOME IMPROVEMENTS TO AVOID WATER
CONDENSATION IN THE COCKPIT.

This page transmits Revision No. 1 of Service Bulletin No. A320-21-1902.
No additional work is required by this Revision.

REASON

This Revision is issued to inform the operators of an updating of the
effectivity paragraph.

SUMMARY

Page 1 of 2 - Para. REASON and EFFECTIVITY modified.

SERVICE BULLETIN

Page 1 of 19 - Para. 1.A.(2) and 1.B.(2) modified.

FILING INSTRUCTIONS

Replace pages SUMMARY 1 of 2
SERVICE BULLETIN 1 of 19

File this Revision Transmittal Sheet in front of the Service Bulletin.

REVISION SEQUENCES

ORIGINAL : Jun 14/91

REVISION No. : 1 - Feb 18/92

5 DATE : Jun 14/91

SERVICE BULLETIN No. : A320-21-1902

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SERVICE BULLETIN SUMMARY

This summary is for information only and is not DGAC approved for modification of the aircraft.

MODIFICATION No. None (evaluation)

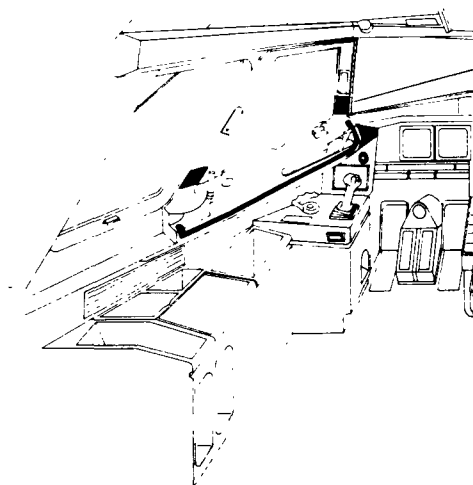
ATA SYSTEM : 21

TITLE : AIR CONDITIONING - INTRODUCE SOME IMPROVEMENTS TO AVOID WATER CONDENSATION IN THE COCKPIT.

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

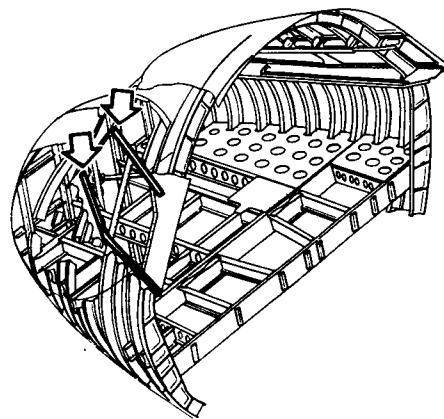
Operators report damage and nuisance due to condensed water ; several locations have been identified mainly on the front panel and side walls of the cockpit. This is experienced during long flights (4 hours and more).

This Service Bulletin proposes to apply adhesive foam on left lining in cockpit and to seal gaps on lower and upper left lateral frames in the cockpit, for an evaluation for 3 months on one AIR MALTA aircraft and on one CONAIR A/S aircraft.



EFFECTIVITY

This Service Bulletin is applicable on one A/C of each fleet : AMC, OYC.



SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None.

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SERVICE BULLETIN SUMMARY

REFERENCES/REPERCUSSIONS

TFU	21000005	LIFE LIMIT	None
OEB	None	LINE MAINTENANCE AFFECTED	
		NO	
AOT	None		
SIL	None	OTHERS	None

NATURE OF THE MODIFICATION

AIRCRAFT	YES
EQUIPMENT	NO

COMPLIANCE

Optional.

MANPOWER

Manhours	8.0
Elapsed time (Hours)	7.0

MATERIAL INFORMATION

Aircraft Data

Quantity per A/C
1 self-adhesive foam sheet

Equipment Data

None.

APPENDICES

None.

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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - INTRODUCE SOME IMPROVEMENTS TO AVOID WATER
CONDENSATION IN THE COCKPIT.

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models : A320-111, A320-211.

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. 211902	Qty of Kits
AMC	TBD	A01	01
OYC	TBD	A01	01

Evaluation applicable on 1 AIR MALTA aircraft and on 1 CONAIR
A/S aircraft for 3 months.

(3) Spares

None.

B. REASON

(1) History

Operators report damage and nuisance due to condensed water ;
several locations have been identified mainly on the front panel
and side walls of the cockpit. This is experienced during long
flights (4 hours and more).

(2) Objective/Action

This Service Bulletin proposes to apply adhesive foam on left
lining in cockpit and to seal gaps on lower and upper left lateral
frames in the cockpit, for an evaluation for 3 months on one
AIR MALTA aircraft and on one CONAIR A/S aircraft.



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(3) Advantages

To reduce condensed water in the cockpit.

(4) Accomplishment Timescale

In accordance with operators experience.

C. DESCRIPTION

Accomplishment of this Service Bulletin consists in carrying out the following jobs on the aircraft :

(1) Apply adhesive foam on left lining in cockpit.

(2) Seal gaps on lower and upper left lateral frames in the cockpit.

D. APPROVAL

This Service Bulletin is approved by Direction Générale de l'Aviation Civile - FRANCE (D.G.A.C.).

E. MANPOWER

	<u>Manhours</u>
Gain access	2.0
Modification on the cockpit panel	1.0
Modification on lateral frames	2.0
Close up	3.0
	<hr/>
TOTAL MANHOURS	8.0
ELAPSED TIME (HOURS)	7.0

NOTE : This Service Bulletin assumes that the aircraft has been placed in a maintenance status. The manhours/elapsed time estimates do not include preparation for the modification, non-productive elapsed time, or administrative functions.

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F. MATERIAL - COST AND AVAILABILITY

Refer to Paragraph 3, MATERIAL INFORMATION.

G. TOOLING - PRICE AND AVAILABILITY

None.

H. WEIGHT AND BALANCE

None.

I. REFERENCES

Aircraft Maintenance Manual : 06-41-52, 12-34-24, 24-41-00, 25-13-41,
31-53-21, 56-11-11, 56-11-12, 56-12-11,
56-12-12.

Consumable Material List

Shop sketch : C 000075, C 000076, C 000077

J. PUBLICATIONS AFFECTED

None.

2. ACCOMPLISHMENT INSTRUCTIONS**A. GENERAL****(1) Preparation**

- (a) De-energize the aircraft electrical circuits (Ref. AMM 24-41-00, P. Block 201) and electrically ground the aircraft (Ref. AMM 12-34-24, P. Block 201).
- (b) Install access platforms.
- (c) Open access door 831 (Ref. AMM 06-41-52)
- (d) Remove inner lining of fixed window 7DG1 (Ref. AMM 56-11-12)
- (e) Remove access panel 211KC and lining of sliding window 8DG1 (Ref. AMM 56-12-11).
- (f) Remove access panels 211PW, 211DW and 211GW (Ref. AMM 56-12-12).
- (g) Remove access panels 211LC, 211MC, 211NW (Ref. AMM 56-11-11).
- (h) Remove access panels 211AC, 211BC, 211DC, 211FC (Ref. AMM 25-13-41).
- (i) Remove instrument panel 2VU (AMM 31-53-21).

(2) Standard procedures

- (a) Clean surfaces to be sealed using solvent Mat. No. 11-003 (Ref. CML).

B. MODIFICATION**(1) Apply self adhesive foam pieces on left lining in cockpit**

Refer to figure 1 sheet 1 of 3, 2 and 3

- (a) Cut-out 6 pieces of self-adhesive foam as per shop sketches No. C 000075, C 000076, C 000077 and figure 1 sheet 3.

1 self-adhesive foam sheet ASNA5002-5206 Item1

- (b) On lining panels 211NW, 211PW, 8DG1 and 2VU apply self-adhesive foam pieces as per shop sketches No. C 000075, C 000076, C 000077 and figure 1 sheet 3.

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- (2) Seal gaps on lower and upper left lateral frames in the cockpit

Refer to figure 2 sheet 1 of 3, 2 and 3.

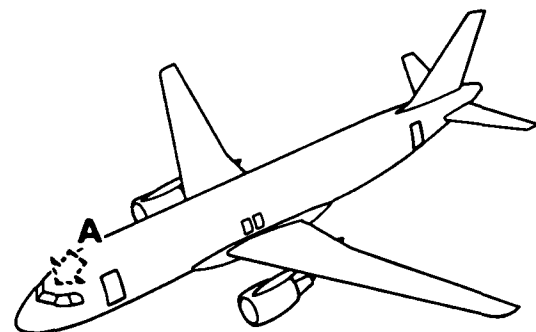
- (a) Before sealing gaps, blank off bottom gaps using adhesive tape Mat. No. 05-015.
- (b) With a brush, apply a coat of release agent Mat. No. 05-013 and let dry.
- (c) Seal gaps using sealing compound Mat. No. 09-019.
- (d) After drying of sealing compound, remove the adhesive tape.

C. TESTS

None.

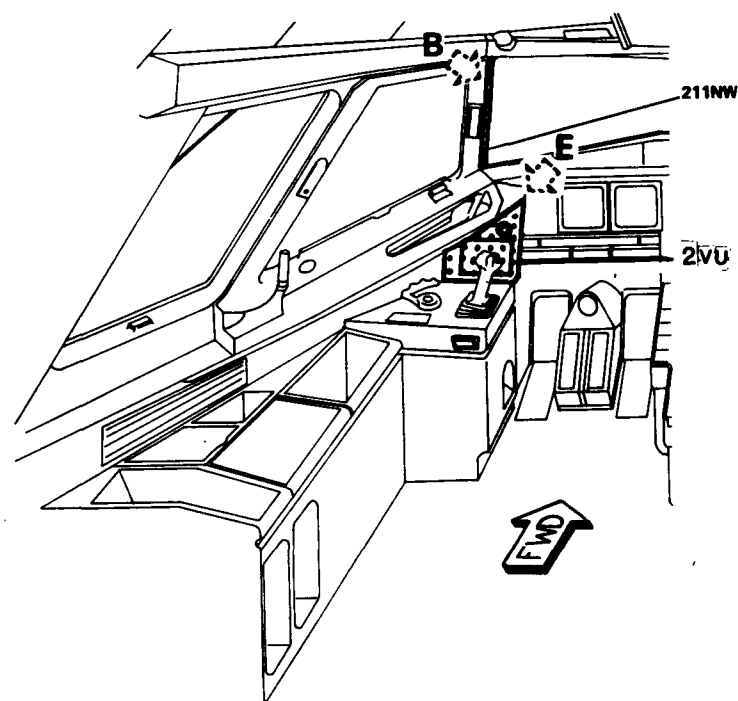
D. CLOSE-UP

- (1) Make sure that the work area is clean and clear of tools and miscellaneous items of equipment.
- (2) Install instrument panel 2VU (AMM 31-53-21).
- (3) Install access panels 211AC, 211BC, 211DC, 211FC (Ref. AMM 25-13-41).
- (4) Install access panels 211LC, 211MC, 211NW (Ref. AMM 56-11-11).
- (5) Install access panels 211PW, 211DW and 211GW (Ref. AMM 56-12-12).
- (6) Install access panel 211KC and lining of sliding window 8DG1 (Ref. AMM 56-12-11).
- (7) Install inner lining of fixed window 7DG1 (Ref. AMM 56-11-12).
- (8) Close access door 831 (Ref. AMM 06-41-52).
- (9) Remove access platforms.
- (10) Disconnect the aircraft electrical ground connection (Ref. AMM 24-41-00, P. Block 201).



A

LINING COCKPIT- LEFT SIDE



Apply Self-Adhesive Foam Pieces on Left Lining in Cockpit
Figure 1 Sheet 1 of 3

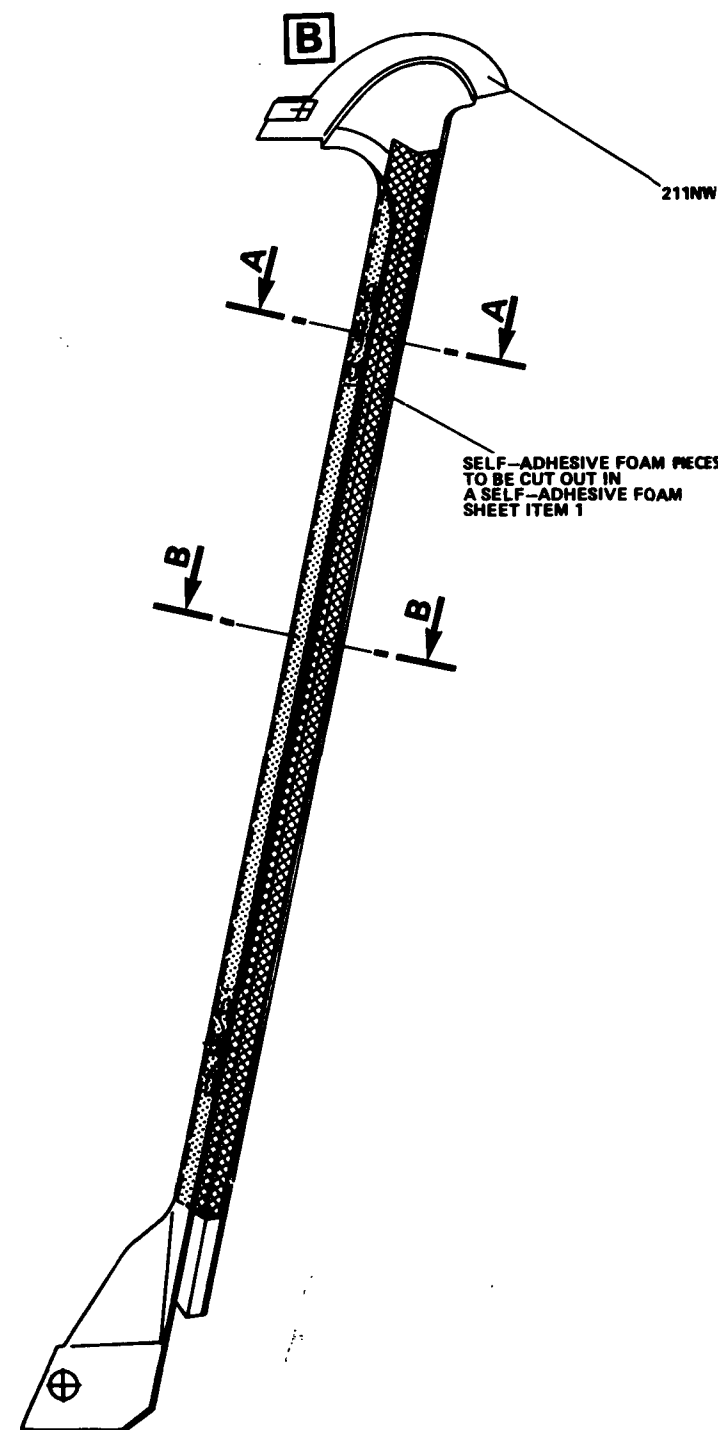
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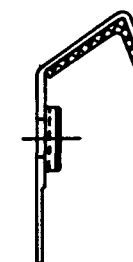
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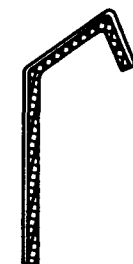
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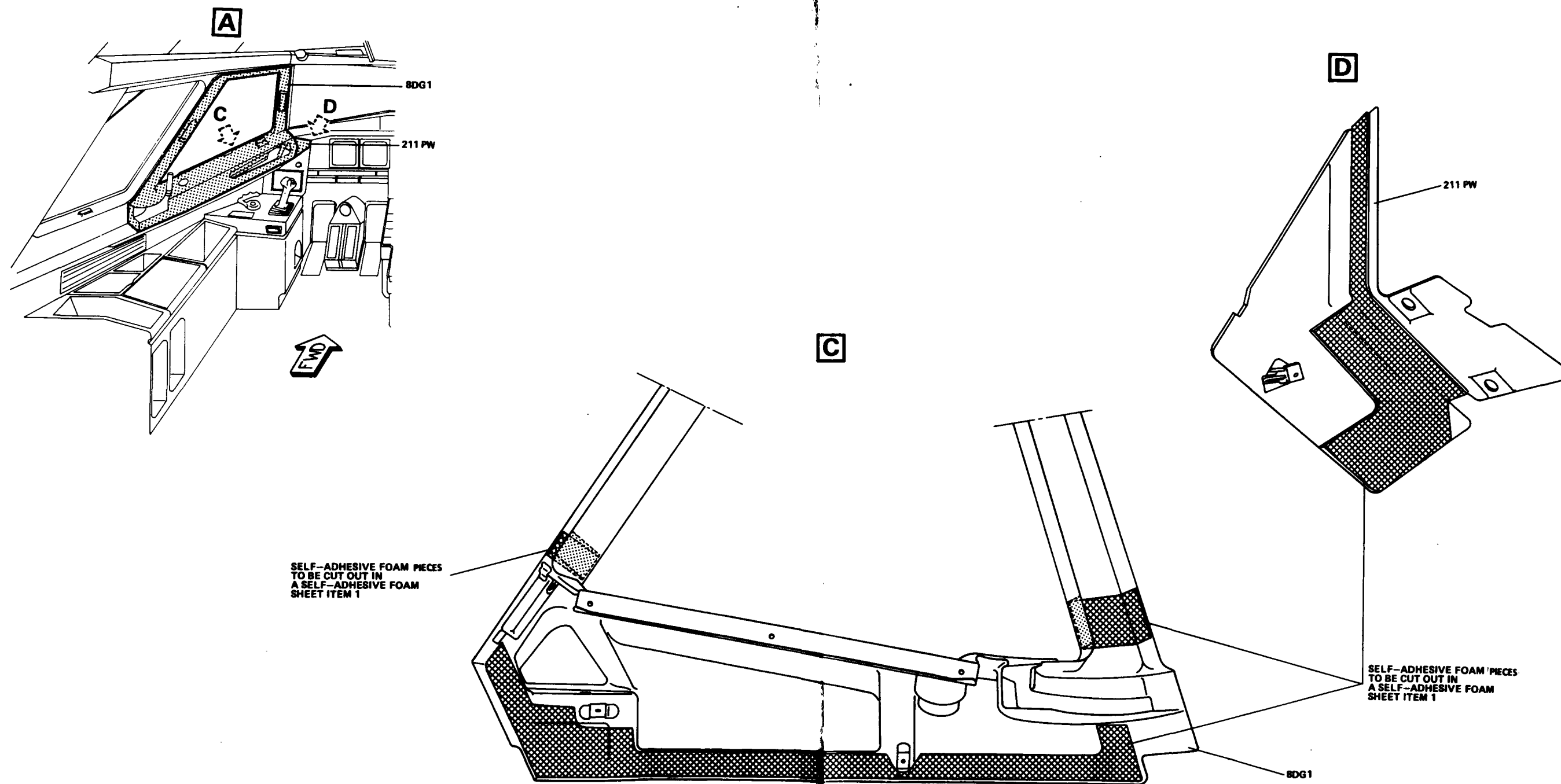


SECTION AA



SECTION BB





Apply Self-Adhesive Foam Pieces on Left Lining in Cockpit
Figure 1 Sheet 2

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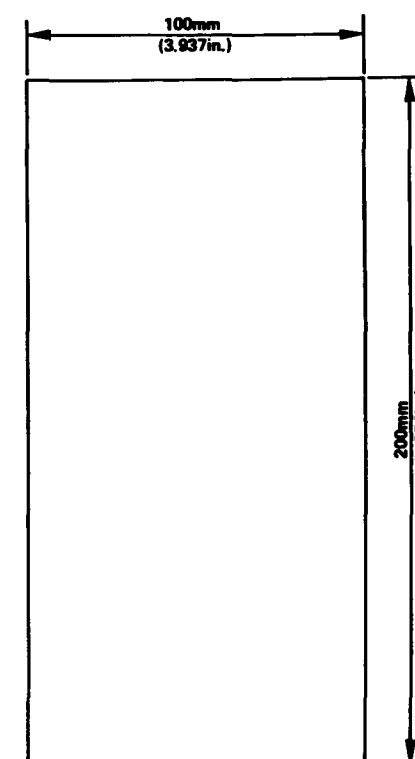
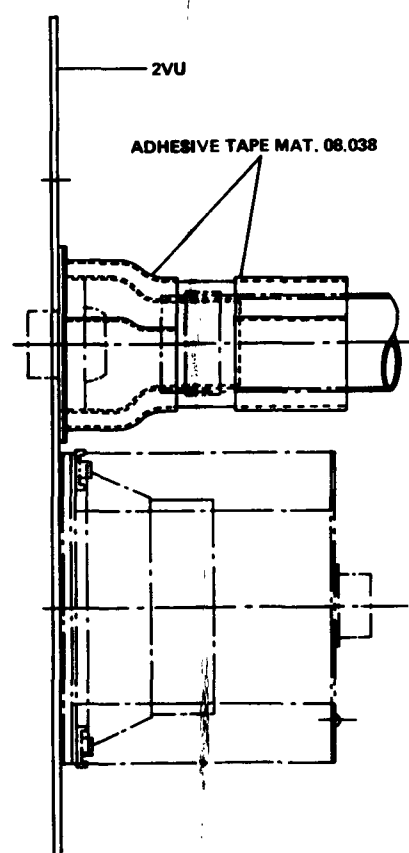
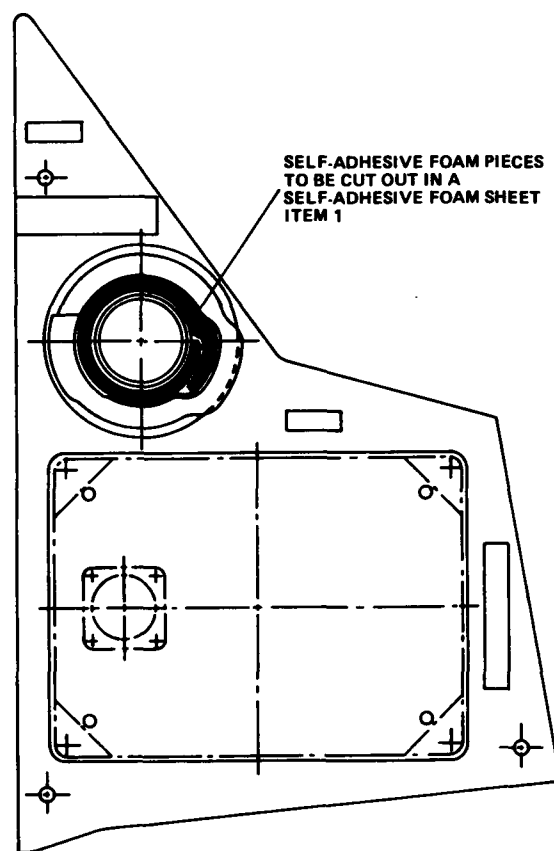
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E

F

SELF-ADHESIVE FOAM PIECE DEVELOPED

F →



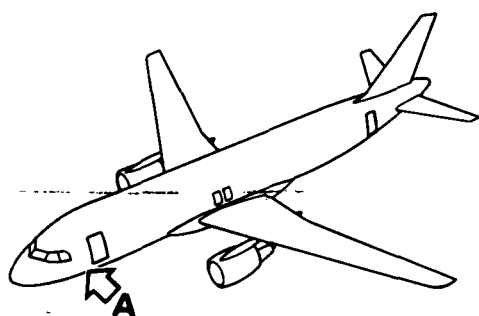
Apply Self-Adhesive Foam Pieces on Left Lining in Cockpit
Figure 1 Sheet 3

DATE : Jun 14/91

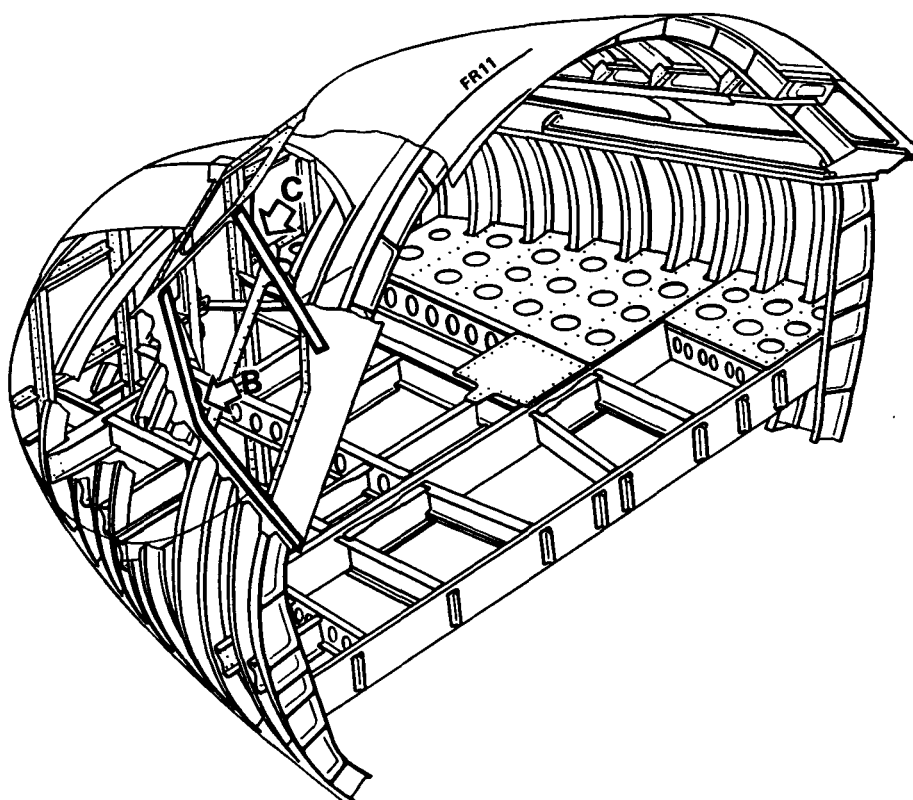
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A



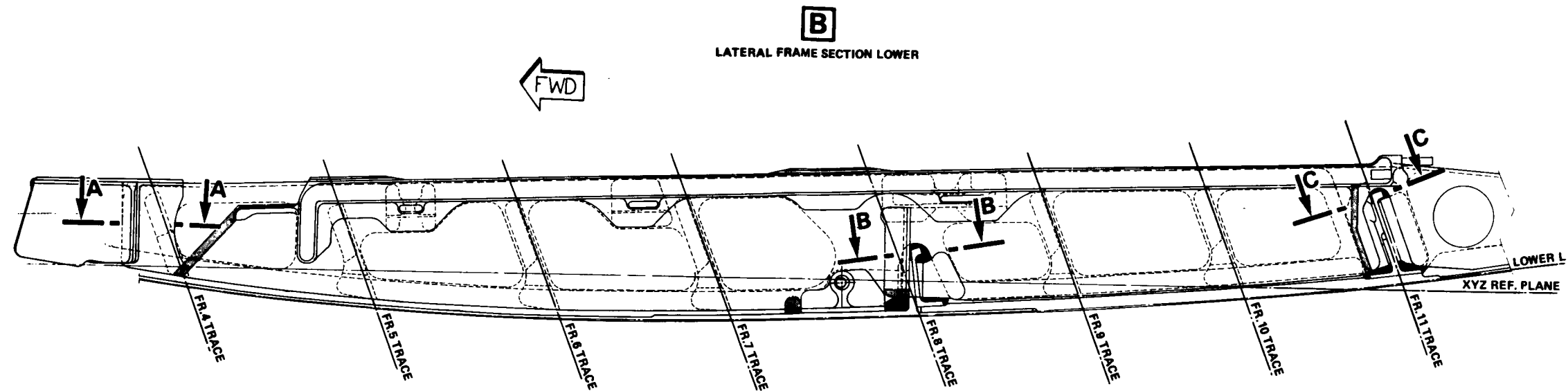
**Gaps to be Sealed on Lower and Upper Left Lateral Frames in the Cockpit
Figure 2 Sheet 1 of 3**

DATE : Jun 14/91

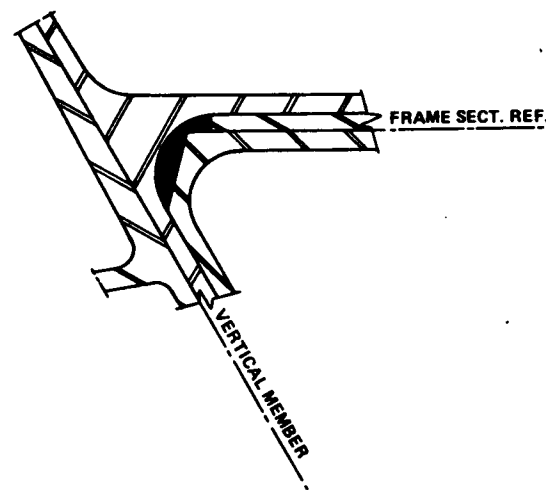
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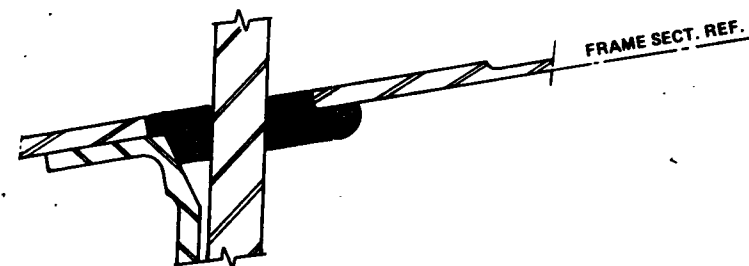
PAGE : 13-14



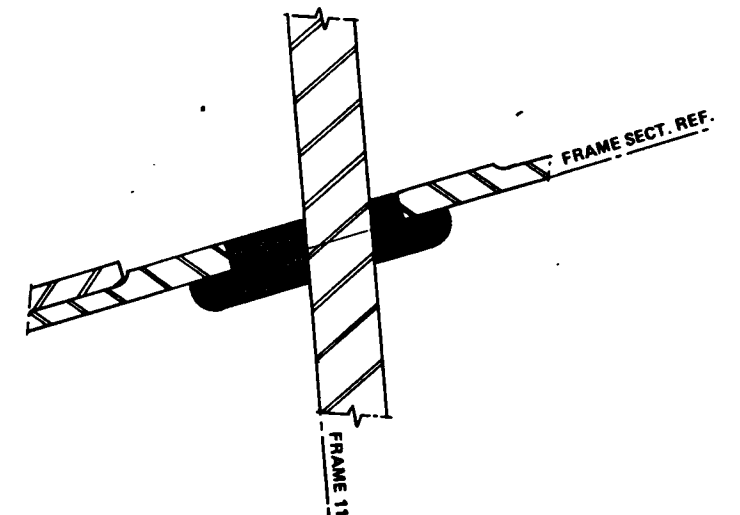
SECTION A-A



SECTION B-B



SECTION C-C



GAPS TO BE SEALED WITH MAT. No. 09 - 019
AND MAT. No. 05 - 013

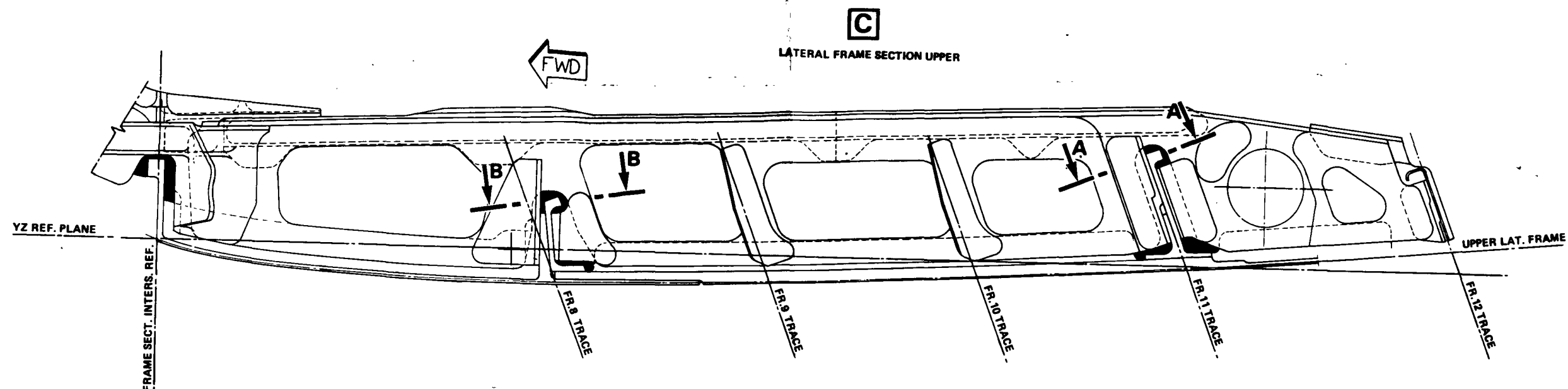
Gaps to be Sealed on Lower and Upper Left Lateral Frames in the Cockpit
Figure 2 Sheet 2

DATE : Jun 14/91

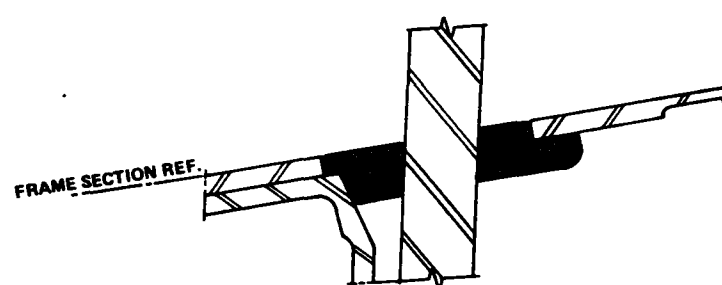
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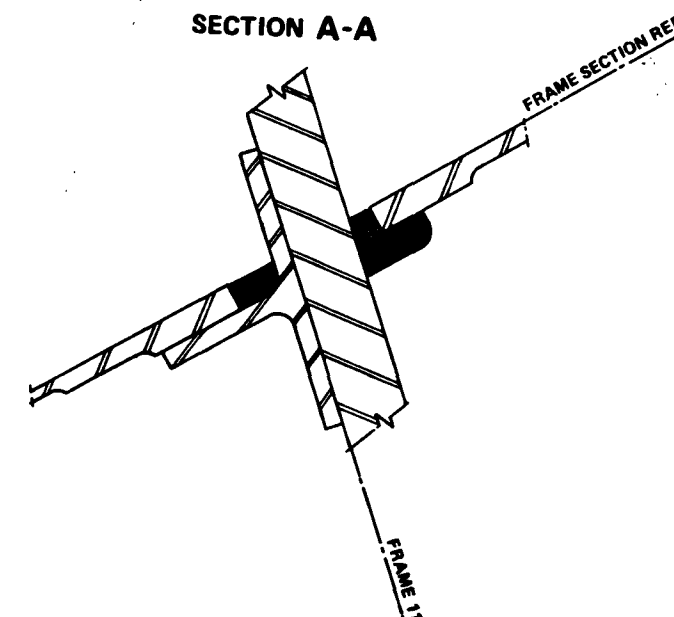
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SECTION B-B



SECTION A-A



GAPS TO BE SEALED WITH MAT. No. 09 - 019
AND MAT. No. 05 - 013

Gaps to be Sealed on Lower and Upper Left Lateral Frames in the Cockpit
Figure 2 Sheet 3

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3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

I T E M	NEW PART No.	QTY	DESCRIPTION	I T E M	OLD PART No.	I N T	I N S T R U C T I O N S
<u>Kit No. 211902</u>		<u>A01</u>					
1	ASNA5002-5206	1	Foam-self-adhesive				*

* Material required for accomplishment of this Service Bulletin shall be procured by means of a spares purchase order.

B. SPECIAL TOOLS

None.

C. LIST OF MATERIALS - OPERATOR SUPPLIED

DESCRIPTION	REFERENCE CML	QTY PER A/C
Release agent	Mat. No. 05-013	AS required
Adhesive tape	Mat. No. 05-015	AS required
Adhesive tape	Mat. No. 08-038	AS required
PR1403	Mat. No. 09-019	AS required
Solvent	Mat. No. 11-003	AS required

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None.

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MODIFICATION No. None (evaluation)

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - INTRODUCE SOME IMPROVEMENTS TO AVOID WATER
CONDENSATION IN THE COCKPIT.

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