

A319/A320/A321

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

**AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel : (33) 5 61-93-33-33
Telex : AIRBU 530526 F**

**TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A DRAINAGE
DOWNSTREAM OF THE BLOWER FAN.**

MODIFICATION No. 23910P3132 24372P3582

ATA SYSTEM : 21

**This page transmits Revision No. 07 of Service Bulletin
No. A320-21-1078.**

ADDITIONAL WORK

No additional work is necessary to do this revision.

HISTORY OF PREVIOUS REVISIONS

**This is only applicable for Revision No. 5 and subsequent. If
information is required for Revisions issued previous to this, please
check your copies of the Revision Transmittal Sheets or contact Airbus
Industrie.**

**Revision No. 5 issued to inform the operator of effectivity and material
changes.**

**Revision No. 06 issued to inform the affected customers that subject
Service Bulletin must not be accomplished. Experience has shown that
pressure from avionics blower goes up to the door sill drain and
prevents water from coming down.**

REASON

**Revision No. 07 is issued to inform the affected customers that subject
Service Bulletin is superseded by Service Bulletin No. A320-21-1113
(Mod. No. 27296P5350).**

CHANGES

SERVICE BULLETIN SUMMARY

**Page 1 of 4 - Para. REASON, subject Service Bulletin superseded by
Service Bulletin No. A320-21-1113 and sentence deleted.**

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SERVICE BULLETIN

Page 6 - Para. 1.B.(1)., subject Service Bulletin superseded by Service Bulletin No. A320-21-1113 and sentence deleted.

FILING INSTRUCTIONS

Replace pages SUMMARY 1 of 4
SERVICE BULLETIN 1 of 30 and 6.

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

REVISION SEQUENCES

ORIGINAL : Dec 07/93

REVISION No. : 1 - Jun 10/94

REVISION No. : 2 - Aug 10/94

REVISION No. : 3 - Feb 06/95

REVISION No. : 4 - Apr 19/95

REVISION No. : 5 - Apr 26/96

REVISION No. : 06 - Nov 27/97

REVISION No. : 07 - Dec 24/98

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SERVICE BULLETIN SUMMARY

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Tel : (33) 5 61-93-33-33
Telex : AIRBU 530526 F**

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

**TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A DRAINAGE
DOWNSTREAM OF THE BLOWER FAN.**

MODIFICATION No. 23910P3132 24372P3582

ATA SYSTEM : 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Revision No. 07 is issued to inform the affected customers that subject Service Bulletin is superseded by Service Bulletin No. A320-21-1113 (Mod. No. 27296P5350).

Operational experience has shown that a quantity of water flows through the filter and migrates into the system downstream of the blower fan.

An additional drainage improves the protection against water infiltration.

EFFECTIVITY

This Service Bulletin is applicable to the following operators :

AAA, ACA, ADR, AFR, AIB, ALK, AMC, ANA, AZA, BAW, BV, CDN, CYP, DLH, FHA, GFA, HP, IBE, ITF, KAC, MON, MSR, MXA, NWA, OYC, RJA, SAA, SHK, SWR, TAI, TAR, UAL, XF, XP, XR, XW and XZ.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None.

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SERVICE BULLETIN SUMMARY

REFERENCES/REPERCUSSIONS

TFU	21-26-43-005	LIFE LIMIT	None
OEB	None	LINE MAINTENANCE AFFECTED	
AOT	None	NO	
SIL	None	OTHERS	None

NATURE OF THE MODIFICATION

AIRCRAFT	YES
EQUIPMENT	NO

COMPLIANCE

Optional.

MANPOWER

	<u>Kit No. 211078A01</u>	<u>Kit No. 211078A02</u>
Manhours	6.5	14.5
Elapsed Time (Hours)	6.5	11.0

MATERIAL INFORMATION

Aircraft Data

Kit A01

Qty per A/C :

1 blowing duct, 1 tee union, 1 drain tube.

Kit A02

1 bracket, 2 tee unions, 2 unions, 1 drain tube.

Equipment Data

None.

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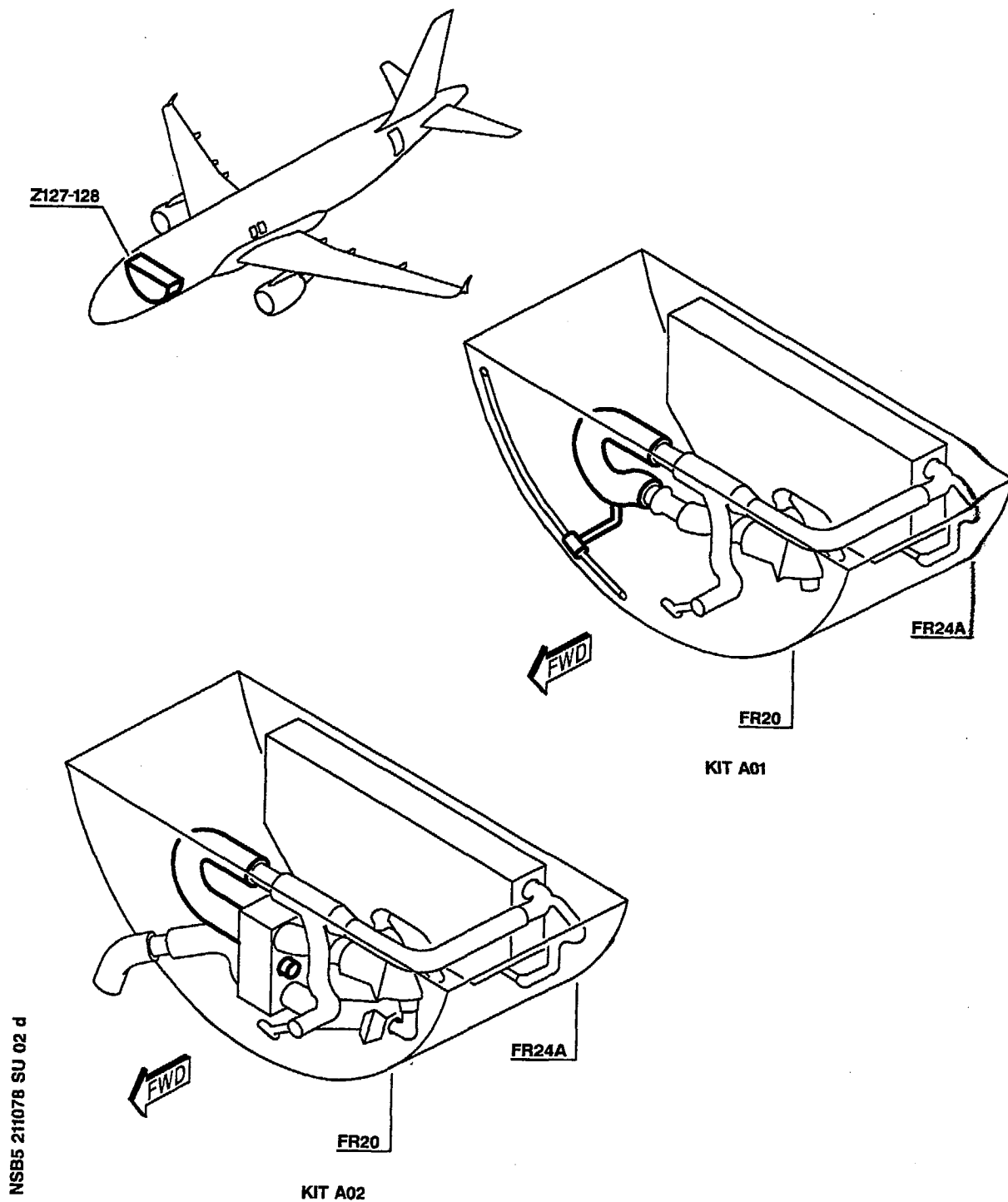
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APPENDICES

None.

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1 Rond Point Maurice BELLONTE
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Tel : (33) 5 61-93-33-33
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TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A DRAINAGE
DOWNSTREAM OF THE BLOWER FAN.

MODIFICATION No. 23910P3132 24372P3582

ATA SYSTEM : 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models : 320-111, 320-211, 320-212, 320-231, 320-232,
321-111, 321-112, 321-131.

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. 211078	Qty of Kits
AAA001-012	022,023,024,025,026,027 029,030,140,142,157,229	A01	12
ACA201-234	059,068,073,084,122,126 127,141,149,150,154,159 183,233,242,248,253,254 255,265,277,290,310,311 324,330,333,341,342,350 359,378,384,426	A01	34
ADR001-003	043,113,114	A01	03
AFR001,002	005,007	A01	02
004-008	014,019,020,021,002	A01	05
031-048	061,062,063,100,101,102 128,129,133,186,187,188 226,227,228,285,286,287	A01	18
106,107	131,132	A01	02
AIB001	258	A02	01
401,402	376,386	A01	02
ALK001,002	374,406	A02	02
AMC001,002	112,293	A01	02

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Customer and Fleet No.	MSN	Kit No. 211078	Qty of Kits
ANAO01-016	138,139,148,151,167,170 196,212,219,245,300,328 365,383,413,482	A01	16
AZA001-005	477,488,494,495,434	A01	05
BAW001-010	006,008,011,017,018,039 042,103,109,120	A01	10
BV 051,052	185,191	A01	02
CDN401-405	174,175,210,231,232	A01	05
407-411	283,284,302,305,309	A01	05
415,416	403,404	A01	02
CYP001-008	028,035,037,038,180,256 295,316	A02	09
DLH001-010	069,070,071,072,078,083 086,093,094,104	A01	10
012-034	110,111,116,117,135,137 147,161,162,172,200,201 202,209,216,217,218,267 268,269,346,382,401	A01	23
101-109	458,468,473,474,484,493 412,502,505	A01	09
FHA001,002	332,369	A02	02
GFA801-811	313,325,345,375,419,421 438,445,459,466,481	A01	11
HP 620-622	052,053,054	A01	03
624-629	055,064,065,066,067,076	A01	06
631-637	077,081,082,091,092,098 099	A01	07
IAC001-012	045,046,047,048,049,050 051,056,057,058,074,075	A02	12
014-028	080,089,090,095,096,097 396,398,416,423,431,432 451,469,486	A02	15

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SERVICE BULLETIN

Customer and Fleet No.	MSN	Kit No. 211078	Qty of Kits
IBE001-022	134,136,143,146,158,173 176,177,199,207,223,224 240,241,246,264,266,274 303,312,323,356	A01	22
ITF001-003	010,012,013	A01	03
005-018	016,033,036,044,004,003 108,115,130,155,156,184 214,239	A01	14
020-026	278,337,352,236,237,377 491	A01	07
201,202	144,145	A01	02
301,302	204,211	A01	02
401-403	215,244,270	A01	03
KAC001-003	181,182,195	A02	03
MON001,002	379,389	A01	02
MSR001-007	165,166,178,194,198,351 366	A02	07
MXA001-010	252,259,260,261,275,276 296,320,321,353	A01	10
016	433	A01	01
NWA301-350	031,032,034,040,041,060 106,107,118,121,125,152 153,160,171,192,197,206 208,213,262,263,272,273 281,282,297,298,306,307 318,319,329,339,340,355 358,360,367,372,380,381 387,388,399,400,408,410 417,418	A01	50
OYC001-006	163,164,168,169,179,193	A01	06
RJA001,002	087,088	A02	02
SAA001-007	243,249,250,251,334,335 440	A01	07

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Customer and Fleet No.	MSN	Kit No. 211078	Qty of Kits
SHK001-003	322,326,344	A02	03
SWR276	517	A01	01
TAI051-054	448,453,460,461	A01	04
TAR001-007	119,124,205,370,390,402 123	A01	07
UAL401-420	435,439,442,450,452,454 456,457,462,463,464,465 470,472,475,479,483,485 487,489	A01	20
XF 001-009	393,394,414,430,443,447 415,405,361	A01	09
053	428	A01	01
101	425	A01	01
501,502	446,422	A01	02
504-507	371,397,409,427	A01	04
551	279	A01	01
XP 001	085	A01	01
051-059	203,220,221,222,294,299 301,348,349	A01	09
062,063	391,392	A01	02
502-505	362,363,455,471	A01	04
XR 501-525	225,230,238,247,257,271 280,291,292,304,308,314 315,317,327,336,338,429 444,449,467,476,478,480 437	A01	25
XW 501-506	347,354,357,373,411,424	A01	06
509	441	A01	01
XZ 003,004	189,190	A01	02
101-110	234,235,288,289,331,343 395,407,420,436	A01	10

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- NOTE 1 :** Kit No. 211078A01 concerns Mod. No. 23910P3132
This modification is embodied prior to delivery on A/C
MSN 385, 496, 497, 498, 499, 500, 501, 503, 504, 506, 507,
508, 509, 510, 511, 512, 513, 514, 515, 516, 518 and
subsequent.
- NOTE 2 :** Kit No. 211078A02 concerns Mod. No. 24372P3582
This modification is embodied prior to delivery on future
aircraft of above versions.
- NOTE 3 :** Kit No. 211078A02 is applicable only on A/C listed above
on which modification No. 20056P0073 (Service Bulletin
No. A320-21-1067) is embodied (ground cooling installed).
Except for OYC A/C, on which modification No. 22190P2248
(ground cooling removed) is embodied.

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(3) Spares

Kit No. 211078A01

1 blowing duct D2121036400200 or D2121036400300.

Kit No. 211078A02

None.

B. REASON

(1) History

Revision No. 07 is issued to inform the affected customers that subject Service Bulletin is superseded by Service Bulletin No. A320-21-1113 (Mod. No. 27296P5350).

All the tests carried under the most representative A/C conditions allowed to show a water separation efficiency of the Bozec demister filter ranging from the 95.6 to 99.9 %.

It should be noted however that in every case, a quantity of water flows through the filter and migrates into the system downstream of the blower fan.

(2) Objective/Action

To improve the protection against water infiltration through the filter by adding an additional drainage.

(3) Advantages

Accomplishment of this Service Bulletin reduces the possibility of failure of the computers.

(4) Accomplishment Timescale

In accordance with operators experience.

(5) Interchangeability/Mixability

Interchangeability : (See Para. 3., MATERIAL INFORMATION)

Mixability : Not applicable.

NOTE : - Old and new equipment are mechanically and electrically interchangeable but not functionally (code 01).
- Only the interchangeability configurations and conditions expressly mentioned in this Service Bulletin are approved by Airbus Industrie.
Should airlines wish to install any other configuration, they must contact Airbus Industrie beforehand.

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C. DESCRIPTION

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

Kit No. 211078A01

- (1) Removal of the blowing duct in zones 127 and 128.
- (2) Modification of the drain tube in zones 127 and 128.
- (3) Installation of the blowing duct in zones 127 and 128.
- (4) Installation of the drain tube in zones 127 and 128.

Kit No. 211078A02

- (5) Removal of the blowing system in zones 127 and 128.
- (6) Modification of the blowing duct on work shop.
- (7) Modification of the cap on work shop.
- (8) Installation of the blowing system in zones 127 and 128.
- (9) Modification of the drain tube in zones 127 and 128.
- (10) Installation of the drain tube in zones 127 and 128.

D. APPROVAL

The technical information including design data contained in this Service Bulletin has been approved under the Authority of DGAC Design Organisation Approval No. F.JA.02.

The changes specified in this Service Bulletin have been approved by the DGAC when they are major, or under the Authority of DGAC Design Organisation Approval No. F.JA.02, when they are minor.

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E. MANPOWER

	<u>Manhours</u> <u>Kit No. 211078A01</u>
Gain access	1.0
Removal of the blowing duct in zones 127 and 128	0.5
Modification of the drain tube in zones 127 and 128	1.0
Installation of the blowing duct in zones 127 and 128	1.0
Installation of the drain tube in zones 127 and 128	1.0
Test	0.5
Close-up	1.5
	<hr/>
TOTAL MANHOURS	6.5
ELAPSED TIME (HOURS)	6.5

	<u>Manhours</u> <u>Kit No. 211078A02</u>
Gain access	1.0
Removal of the blowing system in zones 127 and 128	1.0
Modification of the blowing duct on work shop	3.5
Modification of the cap on work shop	3.5
Installation of the blowing system in zones 127 and 128	1.5
Modification of the drain tube in zones 127 and 128	1.0

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Installation of the drain tube in zones 127 and 128	1.0
Test	0.5
Close-up	1.5
<hr/>	
TOTAL MANHOURS	14.5
ELAPSED TIME (HOURS)	11.0

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.

F. MATERIAL - COST AND AVAILABILITY

(1) Material

Operators with aircraft listed under paragraph 1.A.(2) above should submit a purchase order quoting this Service Bulletin to :

AIRBUS INDUSTRIE
AIRSPARES
MATERIAL SUPPORT CENTER
P.O. BOX 63 02 62
22312 HAMBURG
GERMANY

(2) Cost and availability

Kit No.	Cost (US Dollars)	Availability : Calendar days from receipt of order
211078A01	*	180
211078A02		

* FOC - Airbus Industrie will make the material available free of charge.

G. TOOLING - PRICE AND AVAILABILITY

None.

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H. WEIGHT AND BALANCE

MEW : + 0.5 kg (+ 1.10 lb)

Effect on balance : + 8.28 kgm (+ 59.91 lb.ft.)

I. REFERENCES

Aircraft Maintenance Manual : 06-41-52, 06-41-53, 12-34-24, 21-26-00,
24-41-00

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog : 21-26-01

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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) Put the access platform in position.
- (c) Open the passenger/crew door 831 (Ref. AMM 06-41-52).
- (d) Open the access door 824 (Ref. AMM 06-41-53).
- (e) Open, safety and tag these circuit breakers :

PANEL	SERVICE	IDENT.	LOCATION
123VU	GND/PWR/PROTECTION	2XG	AB07
122VU	ELEC/GPCU	7XG	Y24
122VU	ELEC/EXT PWR/CTL	11XG	X29
122VU	ELEC/GEN1/OFF/BTC1 SPLY	5XU	T28
122VU	ELEC/APU/GCU	6XS	Y25

B. MODIFICATION

KIT No. 211078A01 ONLY

- (1) Removal of the blowing duct in zones 127 and 128

Refer to Figure 1

(a) Remove :

1 clamp	Item (4) (discard)
1 O-ring	Item (3) (discard)
1 blowing duct	Item (1) (discard)

NOTE : Keep the hardware for the installation.

- (b) Loosen clamps Item 12

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(2) Modification of the drain tube in zones 127 and 128

Refer to Figure 2

(a) Install as shown in Detail A :

1 tee union	D0003002400000	Item 2
-------------	----------------	--------

(b) Put in position the tee union and cut the drain tube to a length of :

300 mm (12 in.).

(c) Attach the tee union with :

2 clamps	ASNA0033-019	Item 6
----------	--------------	--------

(3) Installation of the blowing duct in zones 127 and 128

Refer to Figure 1

(a) Put in position as shown on Detail B and install :

1 blowing duct	D2121155600000	Item 1
1 O-ring	NSA8203-264	Item 3
1 clamp	NSA8603-837	Item 4

(b) Tighten clamps

Item 12

(c) Attach the blowing duct with the hardware that you kept at removal.

(4) Installation of the drain tube in zones 127 and 128

Refer to Figure 2

(a) Put in position as shown on Detail A and install :

1 clamp	NSA5516-64NS	Item 8
1 clamp	NSA5515-10	Item 7
1 screw	NAS1096-3-10	Item 9
1 washer	ASNA2397-10L	Item 10
1 nut	NSA5050-3	Item 11

(b) Put in position, cut to the necessary length and install :

1 tube	NSA3629-12-17	Item 5
2 clamps	ASNA0033-019	Item 6

KIT No. 211078A02 ONLY**(5) Removal of the blowing system in zones 127 and 128**

Refer to Figures 3 and 5

(a) Remove :

Refer to Figure 3, Details B and A

8 clamps

Item (19) discard

1 blowing duct

Item (27) retained

NOTE : Rework the blowing duct.

(b) Remove :

Refer to Figure 3, Detail C

4 clamps

Item (18) discard

1 cap

Item (28) retained

NOTE : Rework the cap.

(c) Remove :

Refer to Figure 5, Detail D

1 bracket

Item (13) discard

NOTE : Keep the hardware for the installation (Refer to paragraph 2.B.(8)(c)).

(6) Modification of the blowing duct on work shop

Refer to Figure 4

(a) Drill :

Refer to Figure 4, Detail B and Section D-D

With respect to the dimensions, mark and drill 1 hole to 10 mm (0.4 in.) dia.

(b) Install :

Refer to Figure 4, Detail B

1 union D2121163700000

Item 14

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with : 1 doubler made up of 3 plies of glasscloth Item 31
coated with cement epoxy Item 29.

NOTE : After reworking, identify the blowing duct
D2121099800000, Item (27) with new P/N D2121163800000,
Item 27.

(7) Modification of the cap on work shop

Refer to Figure 4

(a) Drill :

Refer to Figure 4, Details C and D

With respect to the dimensions, mark and drill 1 hole to 10 mm
(0.4 in.) dia.

(b) Install :

Refer to Figure 4, Detail D

1 union D2121163400000 Item 15

with : 1 doubler made up of 3 plies of glasscloth Item 32
coated with cement phenolic Item 30.

NOTE : After reworking, identify the cap D2121104800000,
Item (28) with new P/N D2121163500000, Item 28.

(8) Installation of the blowing system in zones 127 and 128

Refer to Figures 3 and 5

(a) Install :

Refer to Figure 3, Details B and A

8 clamps NSA5528-180 Item 19
1 reworked blowing duct D2121163800000 Item 27

(b) Install :

Refer to Figure 3, Details C and D

4 clamps NSA5528-200 Item 18
1 reworked cap D2121163500000 Item 28

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(c) Install :

Refer to Figure 5, Detail D

1 bracket D2121000700200 Item 13

NOTE : Use the hardware that you retained at removal refer to paragraph 2.B.(5)(c).

(9) Modification of the drain tube in zones 127 and 128

Refer to Figure 5

(a) Install :

Refer to Figure 5, Detail A

1 tee union D0003002400000 Item 17

(b) Put in position the tee union Item 17 and cut the drain tube to a length of 300 mm (12 in.).

(c) Attach the tee union Item 17 with :

2 clamps ASNA0033-019 Item 24

(d) Install :

Refer to Figure 5, Details E and F

1 tee union D0003002400000 Item 17

1 tee union D0003003100000 Item 16

1 tube NSA3629-12-17 Item 26

(e) Put in position the tee union Item 16 and cut the drain tube Item 26 to a length of 310 mm (12.4 in.).

(f) Attach the 2 tee unions Item 16 and Item 17 with :

5 clamps ASNA0033-019 Item 24

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(10) Installation of the drain tube in zones 127 and 128

Refer to Figure 5

(a) Put in position and install :

Refer to Figure 5, Details B, C and D

2 clamps	NSA5515-11	Item 20
2 screws	NAS1096-3-9	Item 21
4 washers	ASNA2397-10L	Item 22

(b) Put in position, cut to the necessary length and install :

Refer to Figure 5, Detail A

1 tube	NSA3629-12-17	Item 26
2 clamps	ASNA0033-019	Item 24

(c) Put in position, cut to the necessary length and install :

Refer to Figure 5, Details E and F

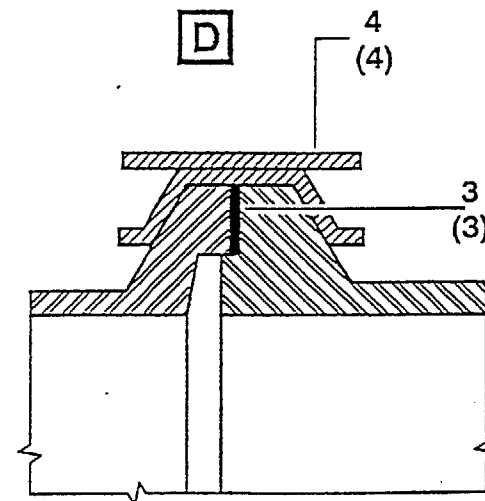
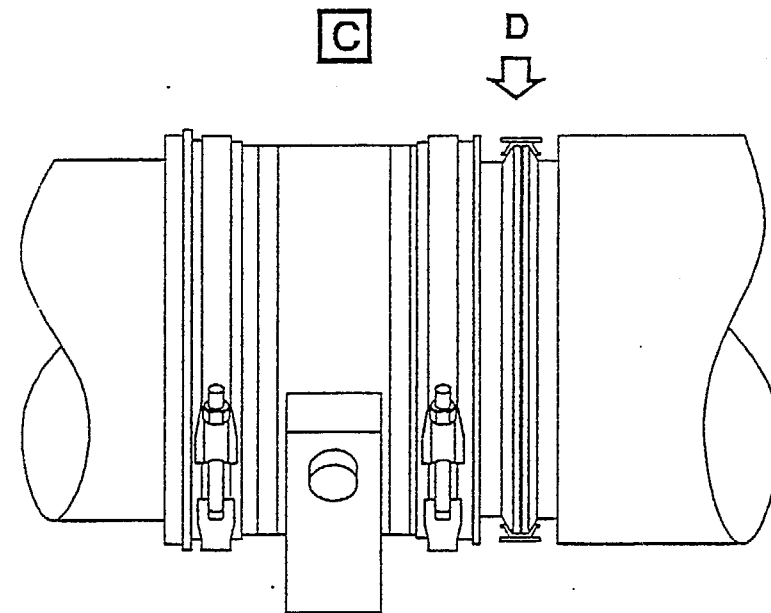
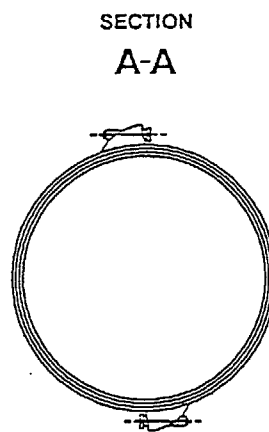
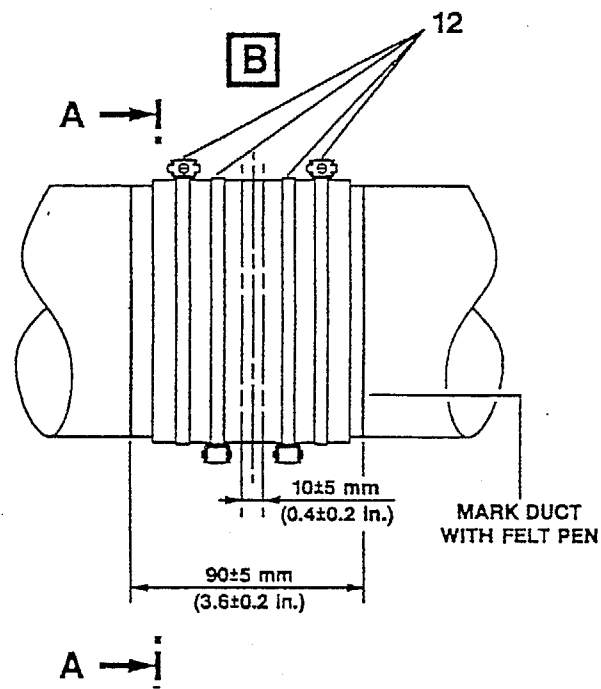
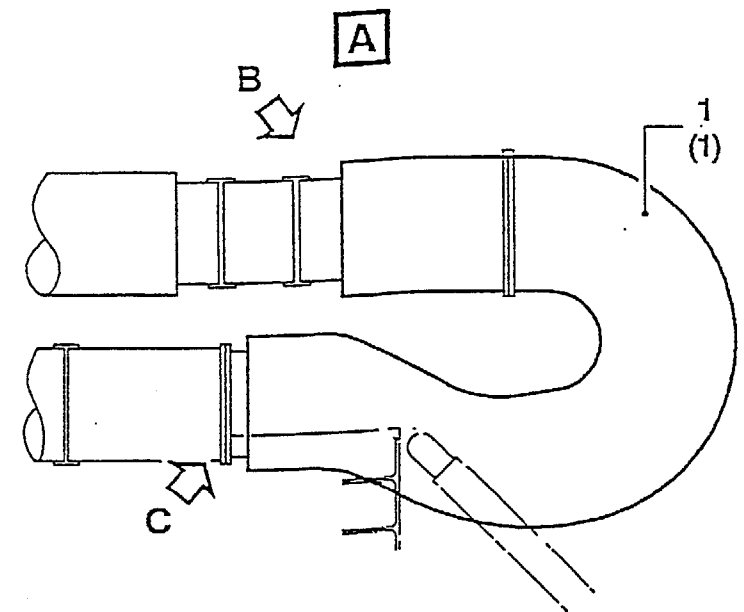
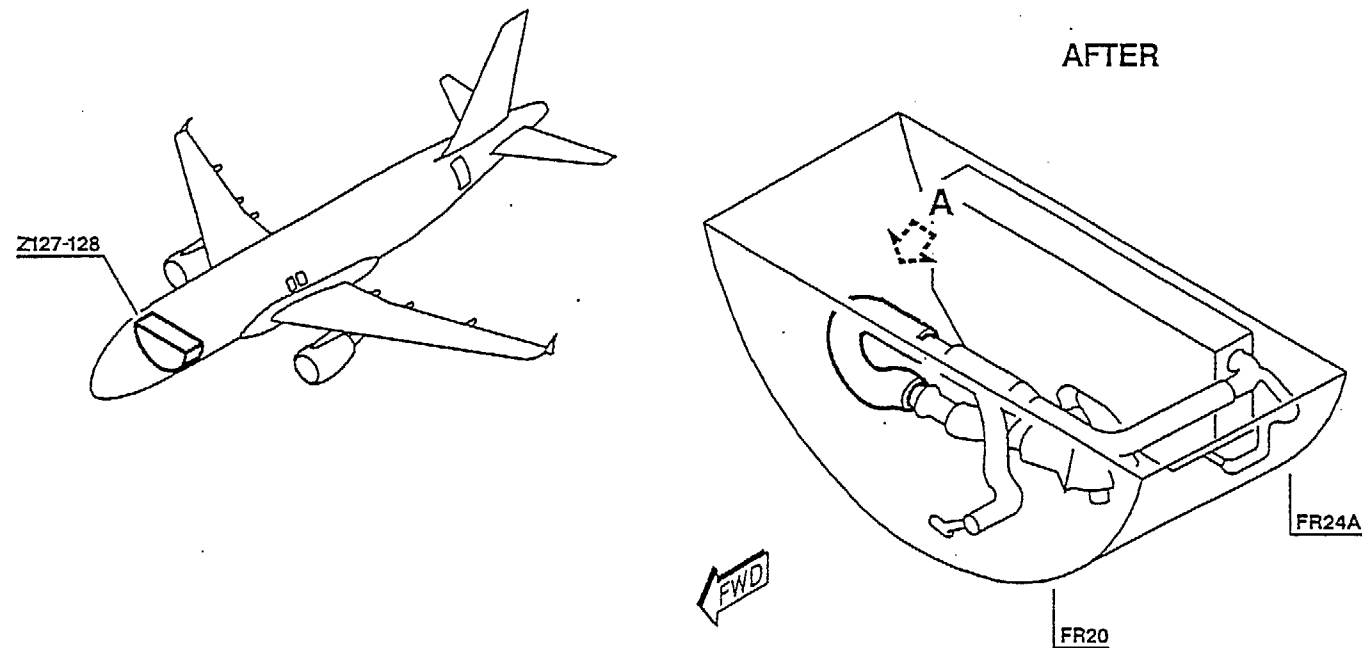
1 tube	NSA3629-8-12	Item 25
2 clamps	ASNA0033-019	Item 24

C. TESTS

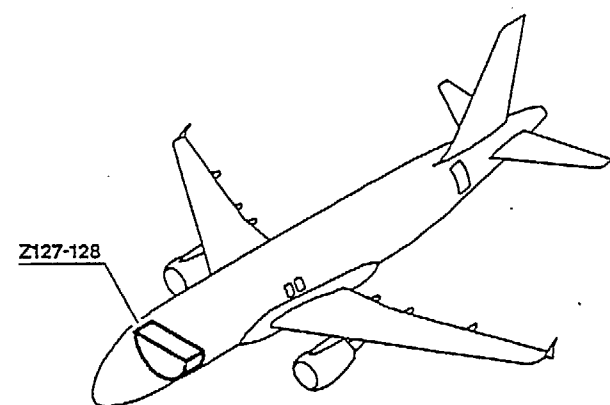
Do an operational test of the avionics equipment ventilation system
(Refer to AMM 21-26-00, P. Block 501).

D. CLOSE-UP

- (1) Make sure that the working areas are clean and clear of tools and other items of equipment.
- (2) Disconnect the aircraft electrical ground connection
(Refer to AMM 12-34-24, P. Block 201).
- (3) Restore system and aircraft to normal operating conditions.
- (4) Close the passenger/crew door 831 (Refer to AMM 06-41-52).
- (5) Close the access door 824 (Refer to AMM 06-41-53).
- (6) Remove the access platform in position.
- (7) Write in the applicable aircraft record that you have done all the work in this Service Bulletin.

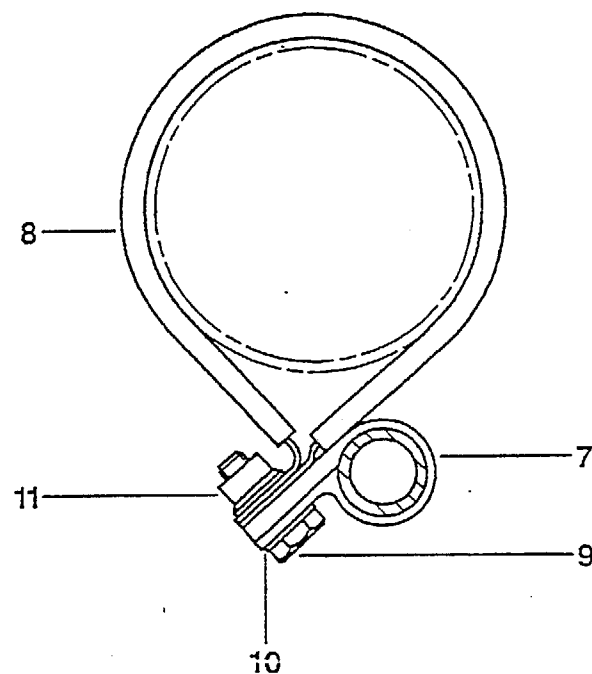


Kit A01
In Avionics Compartment, Zones 127 and 128,
Modification of Blowing Duct
Figure 1



Z127-128

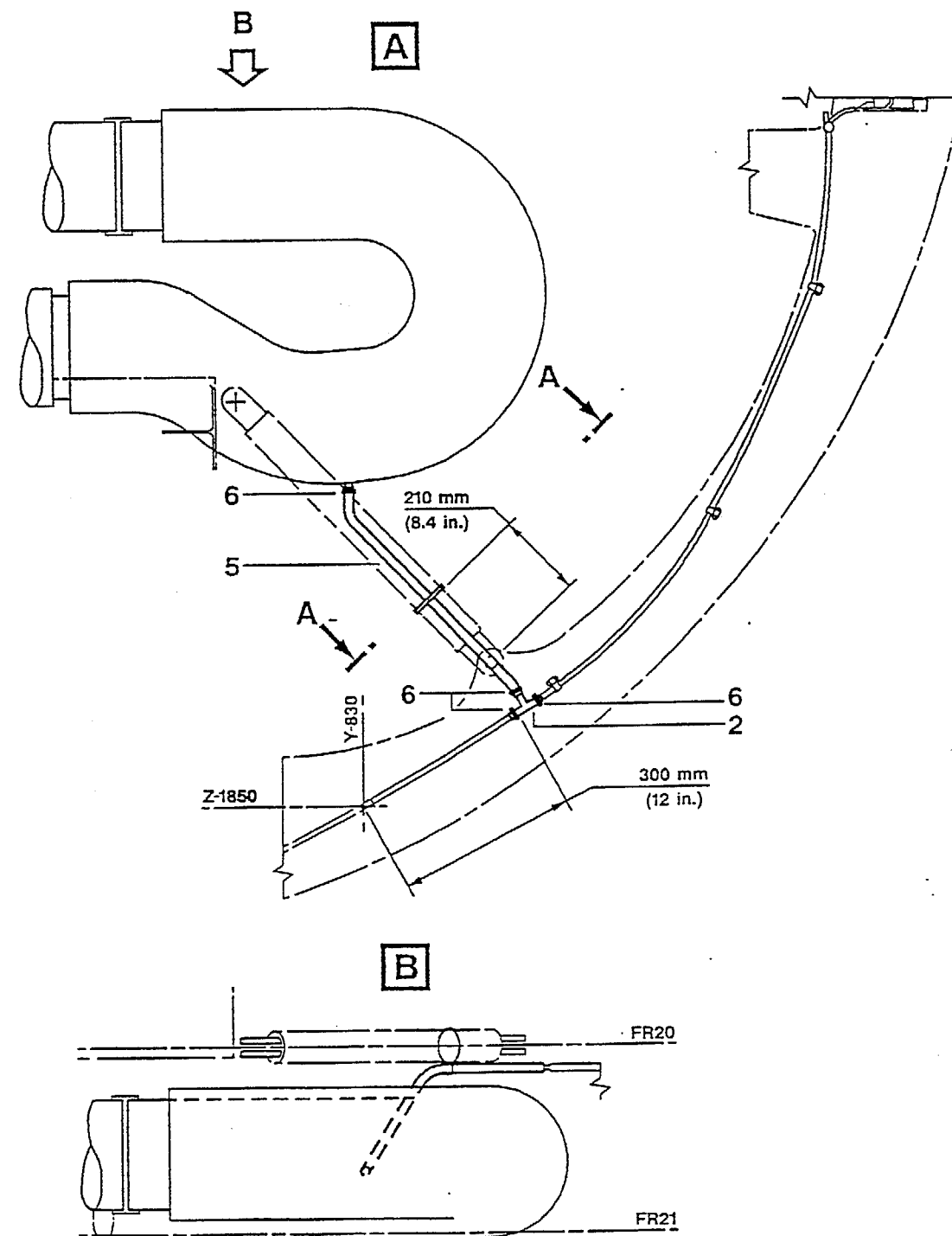
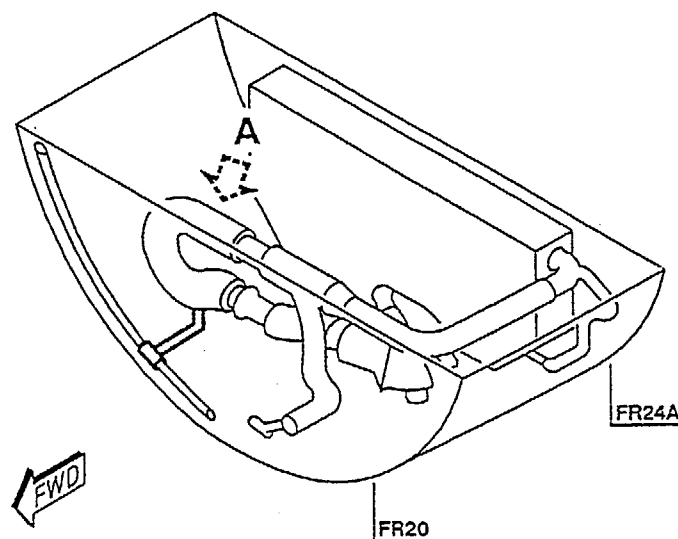
SECTION
A-A

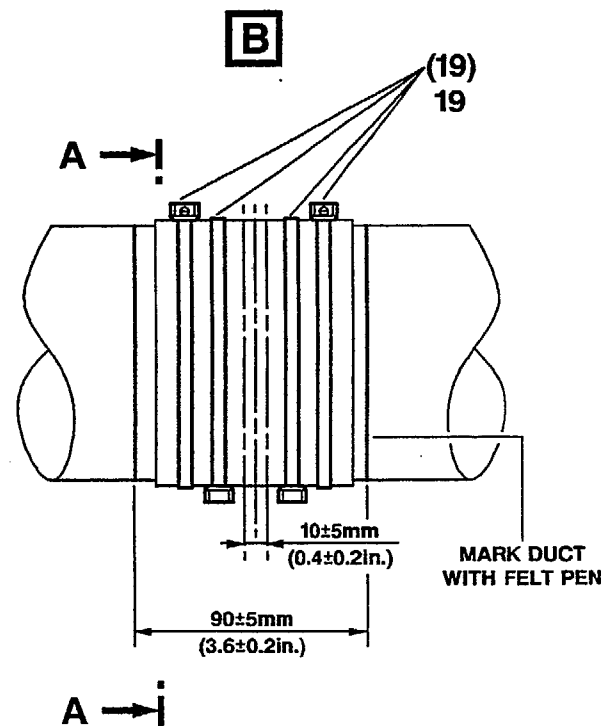
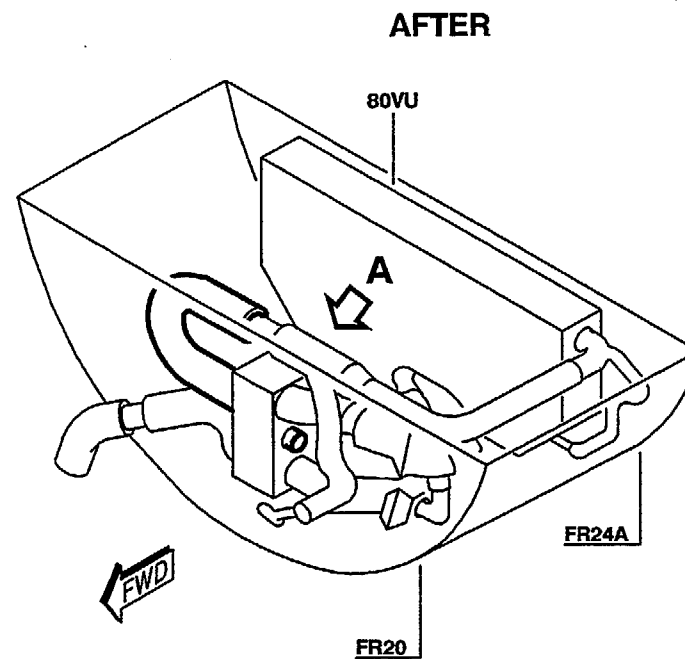
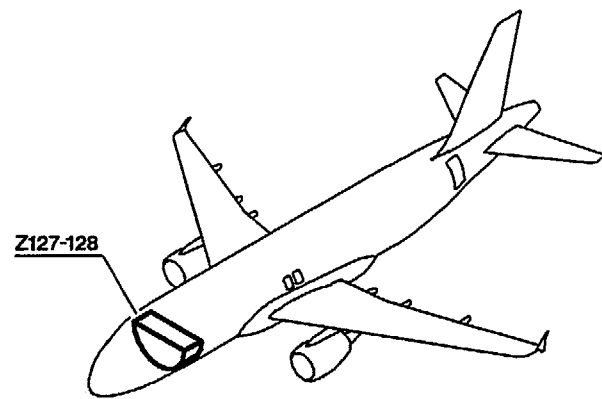


NSB5 211078 AB 00 d

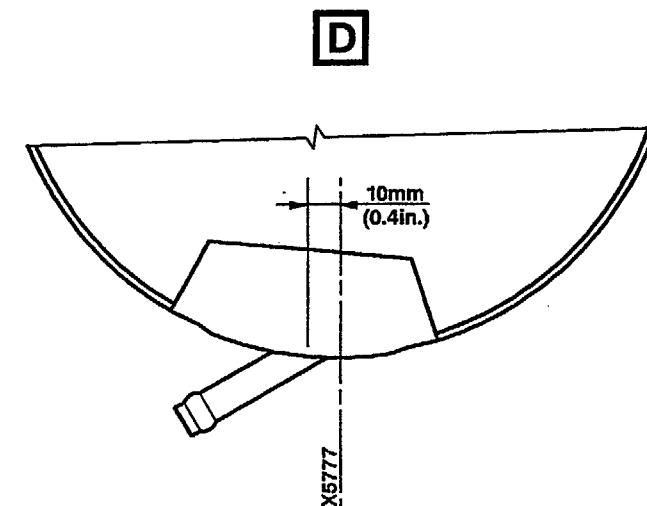
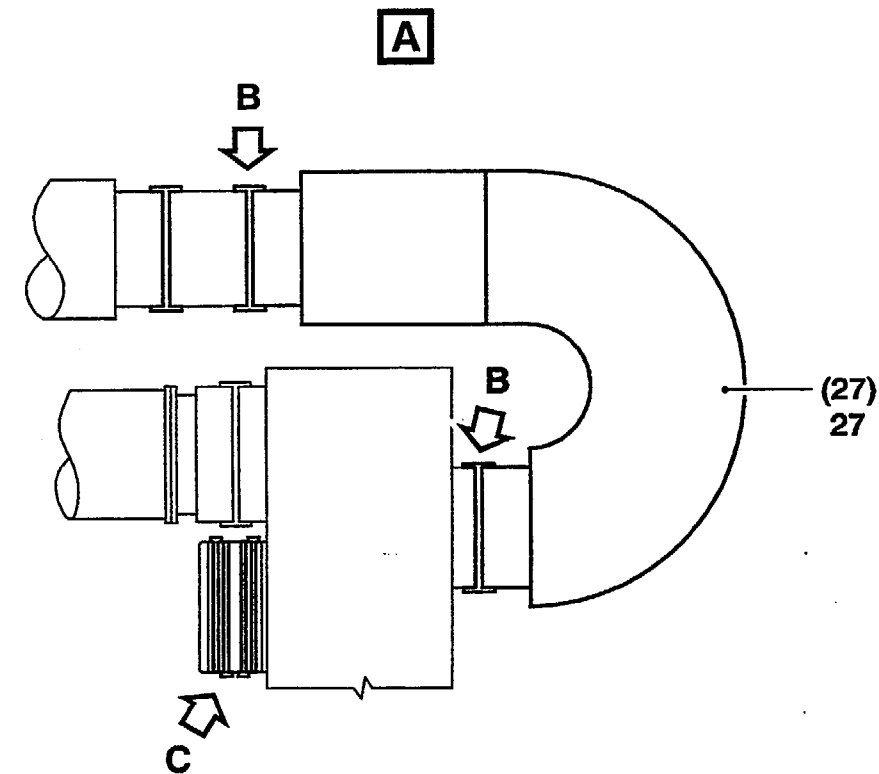
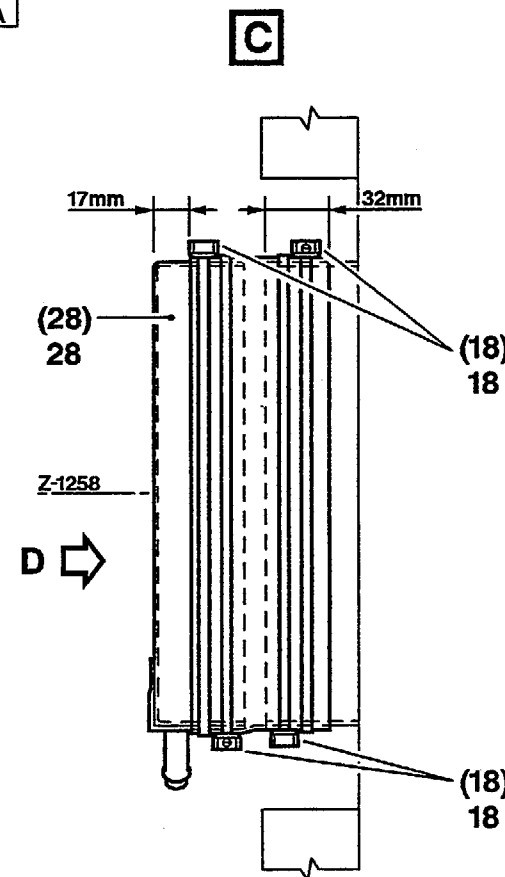
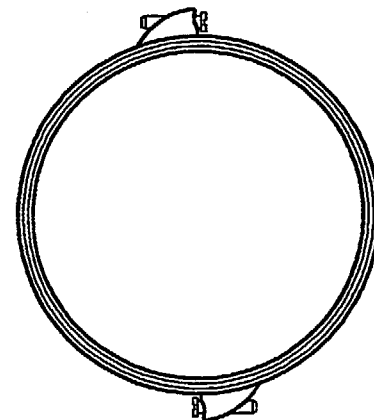
Kit A01
In Avionics Compartment, Zones 127 and 128,
Modification of Drain System
Figure 2

AFTER

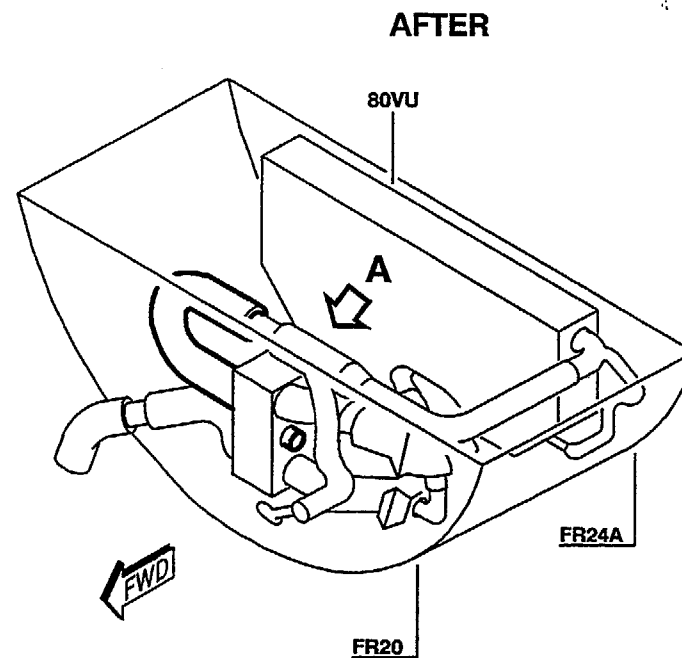
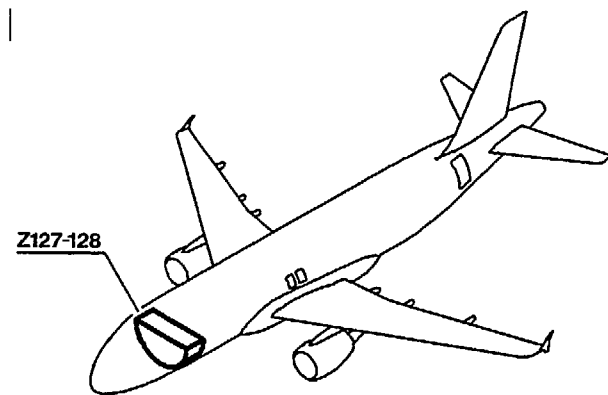




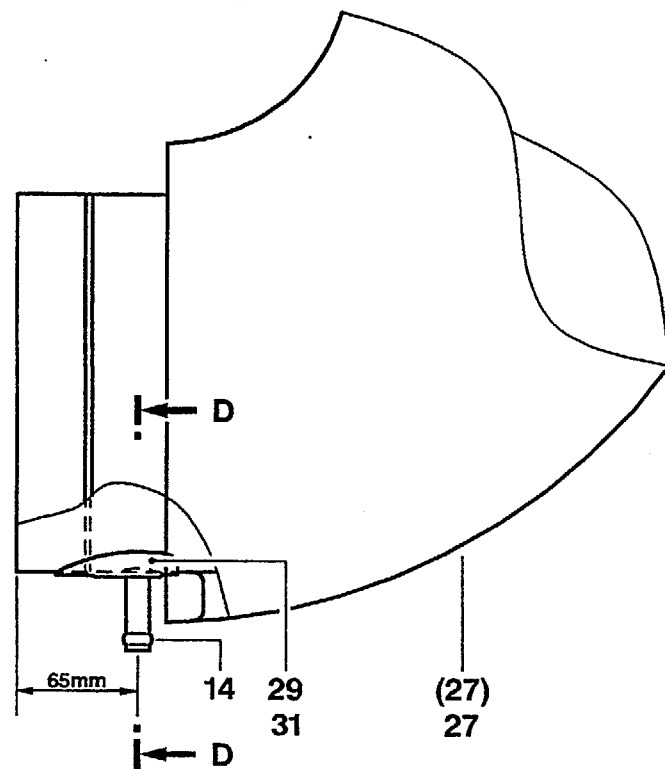
SECTION
A-A



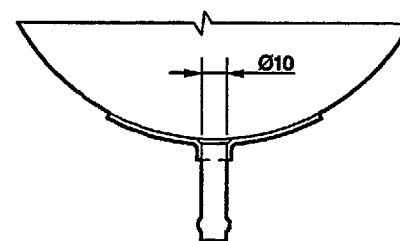
Kit A02
In Avionics Compartment, Zones 127 and 128,
Installation of Blowing Duct and Cap
Figure 3



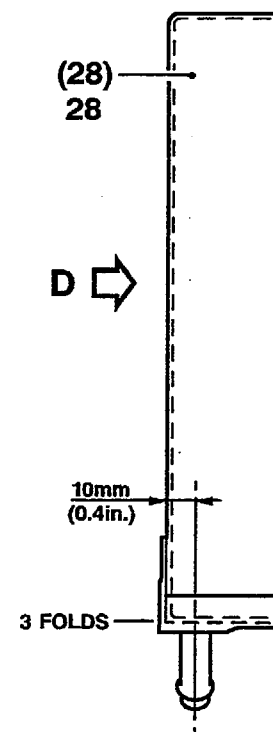
B



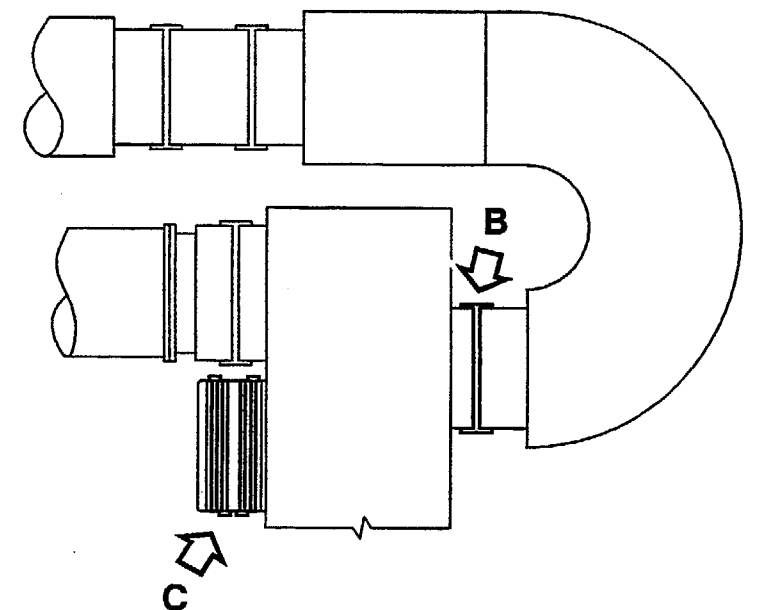
SECTION
D-D



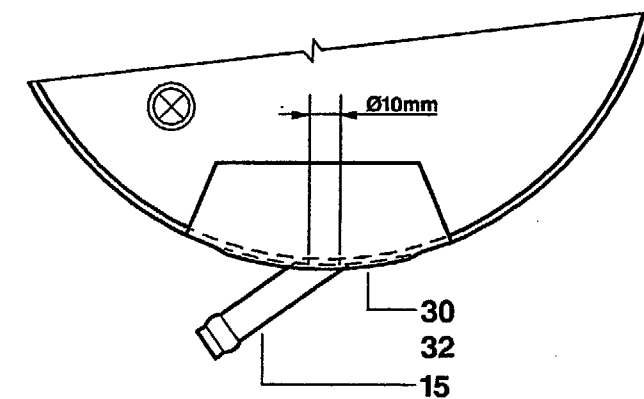
C



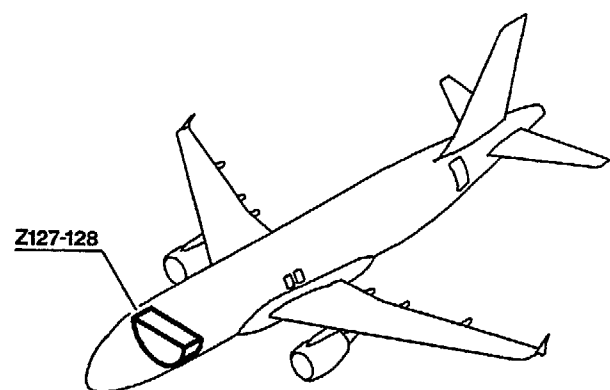
A



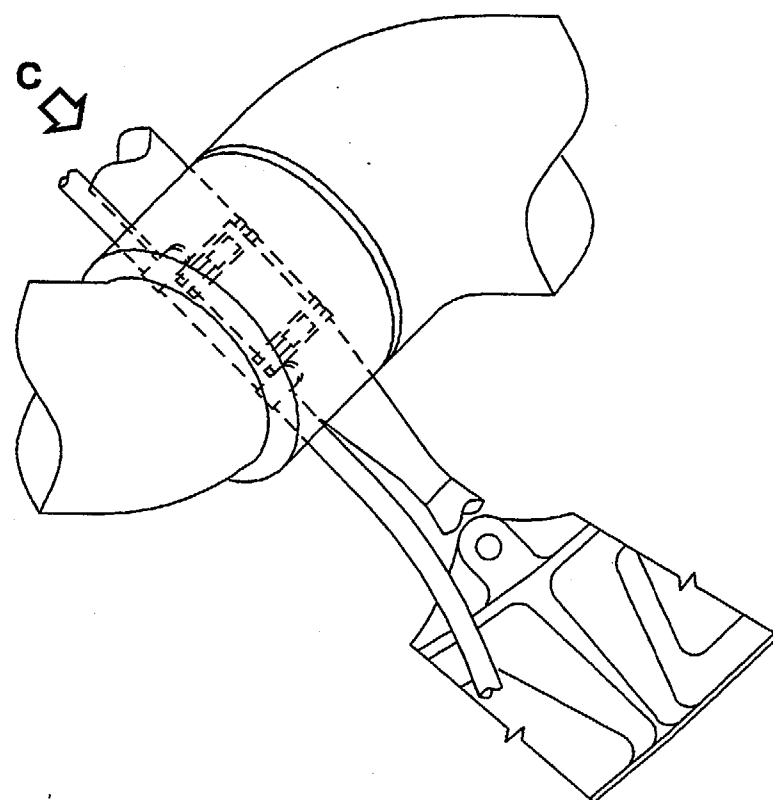
D



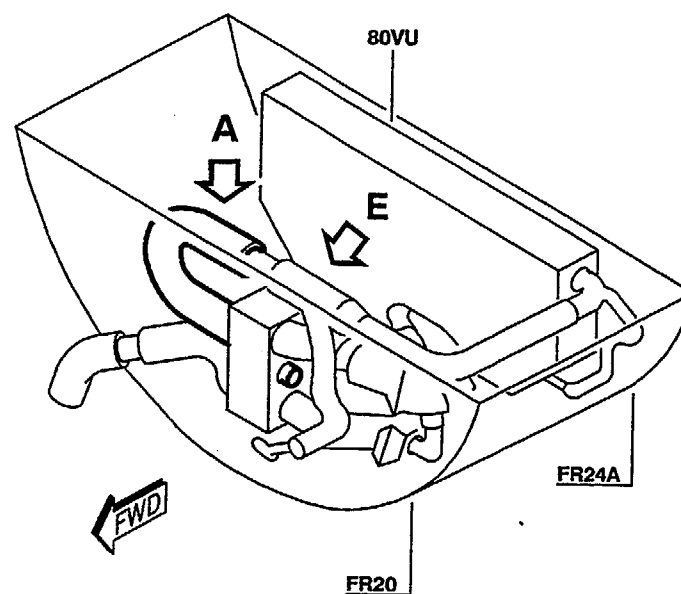
Kit A02
In Avionics Compartment, Zones 127 and 128,
Modification of Blowing Duct and Cap
Figure 4



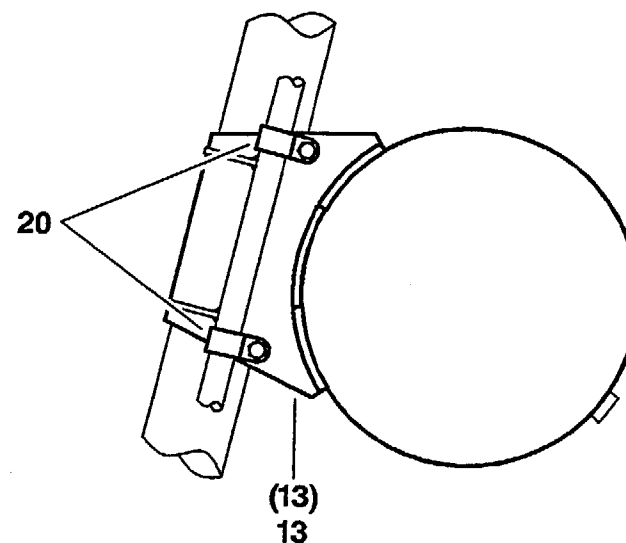
B



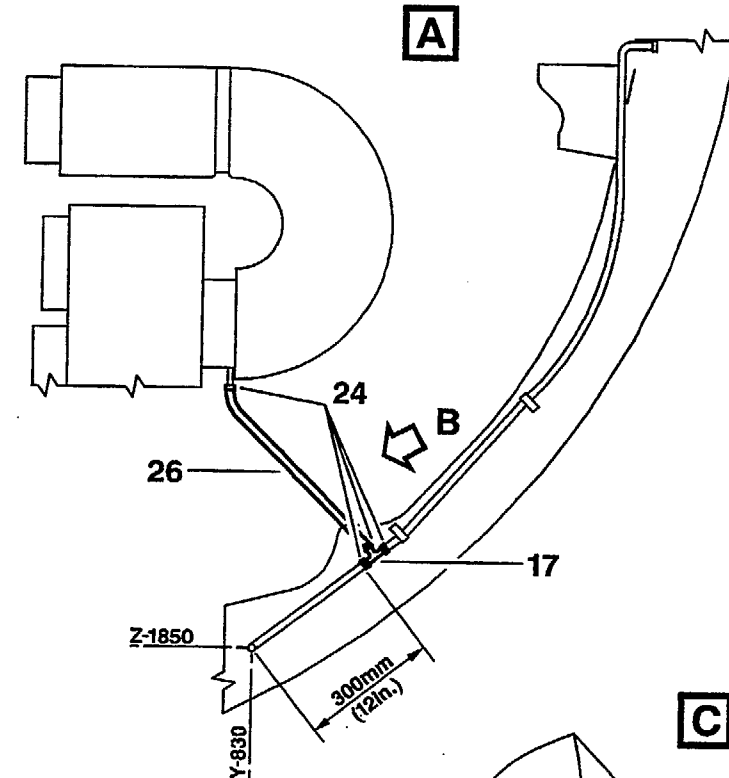
AFTER



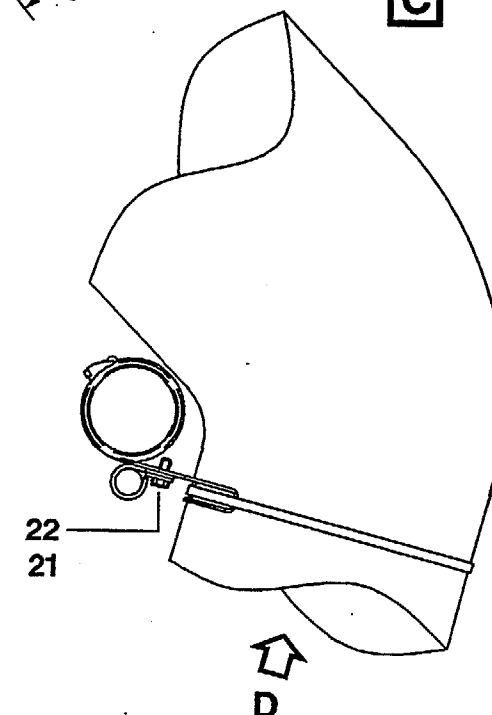
D



A

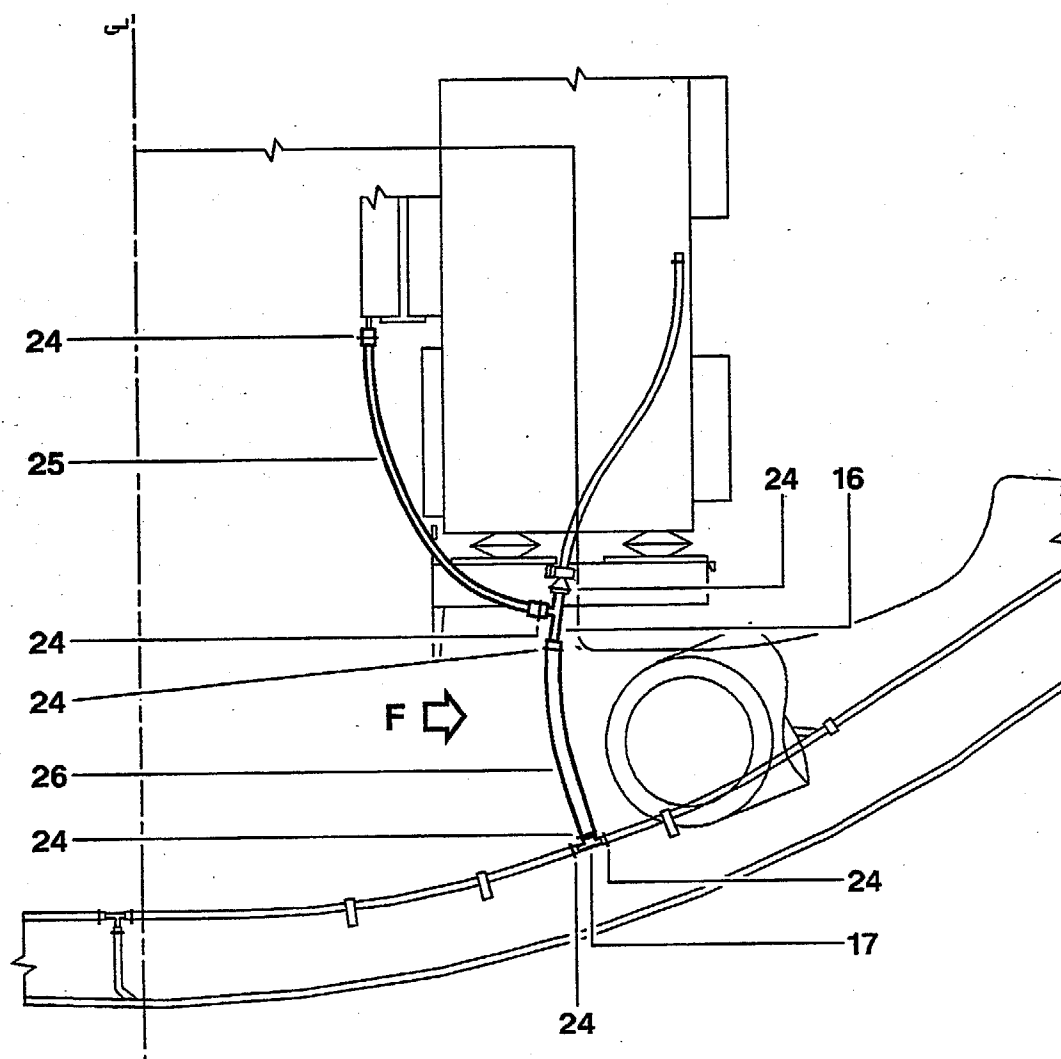


C

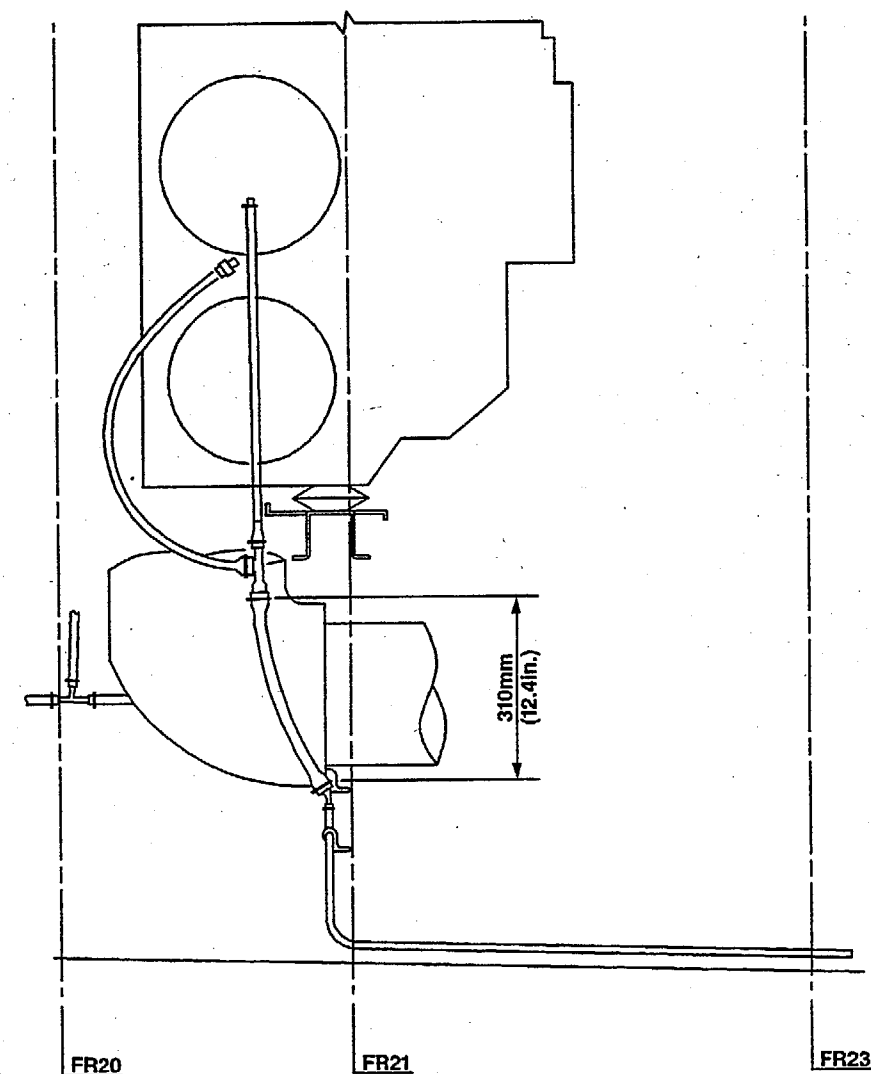


Kit A02
In Avionics Compartment, Zones 127 and 128,
Modification of Drain System
Figure 5, Sheet 1 of 2

E



F



Kit A02
In Avionics Compartment, Zones 127 and 128,
Modification of Drain System
Figure 5, Sheet 2

DATE :

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SERVICE BULLETIN

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 D I S P O S I T I O N
<u>Kit No. 211078</u>		<u>A01</u>					
1	D2121155600000	1	Duct-Blowing	(1)	D2121036400200	01	
				(1)	D2121036400300	01	
2	D0003002400000	1	Union-Tee				
3	NSA8203-264	1	O-ring	(3)	NSA8203-264		
4	NSA8603-837	1	Clamp	(4)	NSA8603-837		
5	NSA3629-12-17	1m	Tube				
		(40 in.)					
6	ASNA0033-019	4	Clamp				
7	NSA5515-10	1	Clamp				
8	NSA5516-64NS	1	Clamp				
9	NAS1096-3-10	1	Screw				
10	ASNA2397-10L	1	Washer				
11	NSA5050-3	1	Nut				
<u>Kit No. 211078</u>		<u>A02</u>					
13	D2121000700200	1	Bracket		D2121000700000		
14	D2121163700000	1	Union				
15	D2121163400000	1	Union				
16	D0003003100000	1	Union-Tee				
17	D0003002400000	2	Union-Tee				
18	NSA5528-200	2	Clamp				
19	NSA5528-180	4	Clamp				
20	NSA5515-11	2	Clamp				
21	NAS1096-3-9	2	Screw				
22	ASNA2397-10L	4	Washer				
23	NSA5528-060	2	Clamp				
24	ASNA0033-019	13	Clamp				
25	NSA3629-8-12	1m	Tube				
		(40 in.)					
26	NSA3629-12-17	2m	Tube				
		(80 in.)					

B. SPECIAL TOOLS

None.

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SERVICE BULLETIN

C. LIST OF MATERIALS - OPERATOR SUPPLIED

I T E M	DESCRIPTION	REFERENCE CML	QTY PER A/C
------------------	-------------	------------------	-------------

KIT No. 211078A02 ONLY

29	Cement epoxy	Mat. 08-001	As required
----	--------------	-------------	-------------

I T E M	DESCRIPTION	REFERENCE	MANUFACTURER
------------------	-------------	-----------	--------------

30	Cement phenolic	URAVAR 78900	COMPOSITE INDUSTRIE *
31	Glasscloth	7628	HEXCEL-GENIN/ST **
32	Glasscloth	1581/HT9/44	HEXCEL-GENIN/ST **
		or	BROCHIER SA ***
		VICOTEX 250/44/644	

* COMPOSITE INDUSTRIE
32 BIS RUE GUTENBERG
ZONE INDUSTRIELLE LA MARINIÈRE
91919 BONDOUFLE CEDEX
FRANCE

*** BROCHIER SA
33 AV. FRANKLIN ROOSEVELT
69150 DECINES CHARPIEU
FRANCE

** HEXCEL-GENIN
3 AV. CONDORCET
69608 VILLEURBANNE CEDEX
FRANCE

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

I T E M	NEW PART No.	QTY	DESCRIPTION	I T E M	OLD PART No.	I N T	I D I S T R O S C .
------------------	--------------	-----	-------------	------------------	--------------	-------------	---

KIT No. 211078A02 ONLY

27	D2121163800000	1	Duct-Blowing	(27)	D2121099800000		
28	D2121163500000	1	Cap	(28)	D2121104800000		

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AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel : (33) 61-93-33-33
Telex : AIRBU 530526 F

 **A320/A321**

SERVICE BULLETIN

MODIFICATION No. 23910P3132
24372P3582

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A DRAINAGE
DOWNSTREAM OF THE BLOWER FAN.

IS BEING HERewith SUBMITTED TO YOU FOR REVIEW

Please fill : ... REJECTED
 ... WILL BE EMBODIED
 ... EFFECTIVITY

This SB can only be incorporated in your "customized" documentation within the agreed time schedule in so far as this sheet is returned to us on purchase date and signed by a duly authorized and empowered officer or representative.

FROM :

AIRLINE :

.....

NAME :

.....

DATE :

.....19..

Please return to :

AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE

Att. : AI/SP - Technical Publications
Department

5 DATE : Dec 07/93

SERVICE BULLETIN No. : A320-21-1078

REVISION No. : 2 - Aug 10/94

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