

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
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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION - INTRODUCE NON
RETURN VALVE ON GROUND REFRIGERATION UNIT AIR INLET.

MODIFICATION No. : 25023P3860 25403P4114

This page transmits Revision No. 01 of Service Bulletin No. A320-21-1101.

ADDITIONAL WORK

No additional work is required by this revision for aircraft modified by any
previous issue.

REASON

Revision No. 01 issued to add aircraft MSN 0414 and 0430 for operator CYP
and Mod. No. 25403P4114 which installs a check valve 2250HM, PN CT141-1
instead of CT141, inside the air inlet.

CHANGES

SUMMARY :

- EFFECTIVITY
Operators updated.
- MATERIAL INFORMATION
PN of the check valve CT141 becomes CT141-1.
- Figure
Figure updated.

PLANNING INFORMATION :

- EFFECTIVITY
Aircraft MSN 0414 and 0430 added for operator CYP.
- DESCRIPTION
Text updated.
- APPROVAL
Sentence concerning DGAC Approval updated and sentence concerning the
Approval for a possible adaptation added.
- MANPOWER
Text updated.
- REFERENCES
Reference to AMM 06-41-51 deleted and reference to 52-10-00 added.
Consumable Material List (CML) added.

MATERIAL INFORMATION :

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- MATERIAL - PRICE AND AVAILABILITY
Sentence added.

- LIST OF COMPONENTS
NOTE(01), PN of the check valve CT141 becomes CT141-1.

ACCOMPLISHMENT INSTRUCTIONS :

- GENERAL
Reference to AMM 06-41-52 becomes 52-10-00. Sentence concerning the specification of the material numbers added.
- MODIFICATION
Text updated.
- CLOSE-UP
Sentence concerning the removal of the circuit breakers added.
- ILLUSTRATIONS
Figure 1, Sheets 1 and 2 updated. Title modified.

NOTE : Lay-out changes due to computerization of this revision are not identified.

FILING INSTRUCTIONS

This Service Bulletin has been generated electronically and is reissued as a complete document. Replace the complete document.
Put this Revision Transmittal Sheet in front of the Service Bulletin.

REVISION SEQUENCE

ORIGINAL : Aug 29/95

REVISION No. : 01 - Jun 27/01

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SUMMARY

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

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION - INTRODUCE NON
RETURN VALVE ON GROUND REFRIGERATION UNIT AIR INLET.

MODIFICATION No. : 25023P3860 25403P4114

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Operational experience has shown that the ground cooling unit condenser stage inlet duct PN D2121099500000 has been found collapsed in several cases. Excessive differential pressure due to ground cooling skin air inlet valve non closing, is at the origin of the duct rupture. This can occur when FCOM 3.02.21 P12 and MMEL 21-27-01 are not applied. This Service Bulletin proposes to install a non return valve downstream of the ground cooling skin air inlet valve.

EVALUATION TABLE			
COMPLIANCE	Desirable	CANCELS INSPECTION SB	No
POTENTIAL AD	No	A/C OPERATION AFFECTED	No
RELIABILITY AFFECTED	No	PAX COMFORT AFFECTED	No
COST SAVING	No	ETOPS AFFECTED	No
STRUCTURAL LIFE EXTN	No	VENDOR SB INVOLVED	No
KIT PRICE (USD)	3,597		

EFFECTIVITY

This Service Bulletin is applicable to these operators :
AIH ALK CTN CYP IAC KAC MSR MXA RJA SHK TNA

CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of :

Service Bulletin No. A320-21-1067 Mod No. 20056P0073

REFERENCES/REPERCUSSIONS

TFU : 21.27.01.001
OEB : None

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AOT : None
SIL : None
LIFE LIMIT : None
LINE MAINTENANCE AFFECTED : No
OTHER : None

NATURE OF THE WORK

AIRCRAFT : YES
EQUIPMENT : NO
HARD : NO
SOFT : NO
OBRM : NO

MANPOWER

Kit 211101A01

TOTAL MANHOURS	3.5
ELAPSED TIME (HOURS)	3.5

MATERIAL INFORMATION

AIRCRAFT DATA

Blowing duct (equipped with a check valve PN CT141-1).

APPENDICES

None

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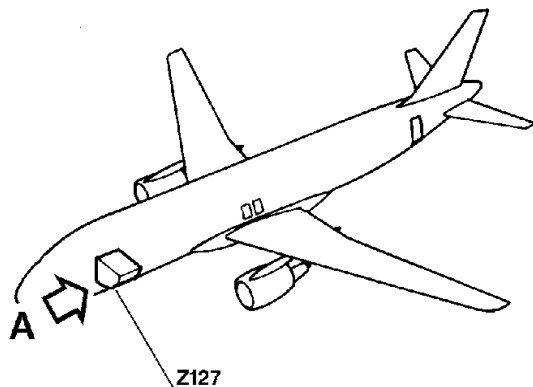
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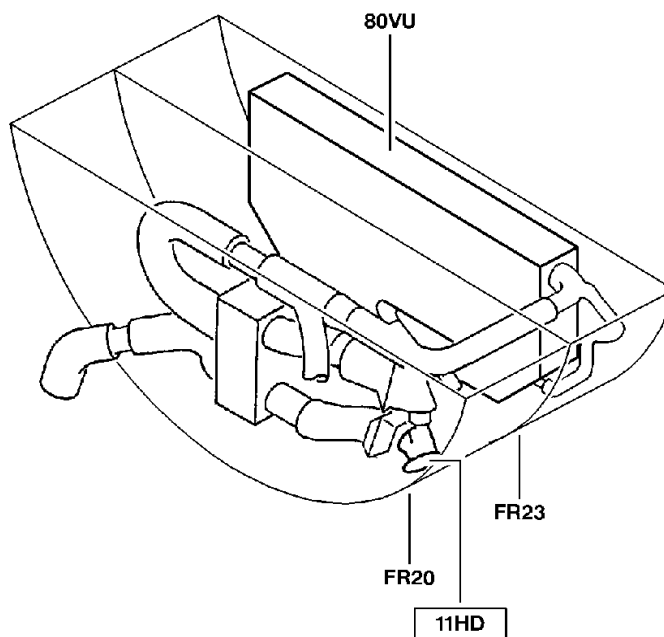
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SERVICE BULLETIN SUMMARY



A



NSB5 211101 SU 01 d

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1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Models

320-211 320-212 320-231 321-131

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to Aircraft MSN :

0028 0035 0037 0038 0045-0051 0056-0058 0074 0075 0080
0087-0090 0095-0097 0163-0166 0168 0169 0178-0182 0194 0195
0198 0256 0258 0295 0316 0322 0326 0332 0344 0351 0366 0369
0374 0396 0398 0406 0414 0416 0423 0430-0432 0451 0469 0486
0490 0492 0499 0538 0555 0569

(b) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS INDUSTRIE. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
AIH	0163 0164 0168 0169 0179
ALK	0374 0406

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OPERATOR	MSN
CTN	0258
CYP	0028 0035 0037 0038 0180 0256 0295 0316 0414 0430
IAC	0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075 0080 0089 0090 0095 0096 0097 0396 0398 0416 0423 0431 0432 0451 0469 0486 0490 0492 0499
KAC	0181 0182 0195
MSR	0165 0166 0178 0194 0198 0351 0366
MXA	0332 0369
RJA	0087 0088 0569
SHK	0322 0326 0344
TNA	0538 0555

(c) Effectivity by MSN and Kit/Configuration

MSN

0028 0035 0037-0038 0045-0051 0056-0058 0074-0075 0080
0087-0090 0095-0097 0163-0166 0168-0169 0178-0182 0194-0195
0198 0256 0258 0295 0316 0322 0326 0332 0344 0351 0366 0369
0374 0396 0398 0406 0414 0416 0423 0430-0432 0451 0469 0486
0490 0492 0499 0538 0555 0569

KIT No.	QTY PER A/C	CONFIGURATION
211101A01	1	None

(3) Spares

blowing duct D5391413500000

B. CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of :
Service Bulletin No. A320-21-1067 Mod No. 20056P0073

C. REASON

(1) History

Operational experience has shown that the ground cooling unit condenser stage inlet duct PN D2121099500000 has been found collapsed in several cases. Excessive differential pressure due to ground cooling skin air inlet valve non closing, is at the origin of the duct rupture. This can occur when FCOM 3.02.21 P12 and MMEL 21-27-01 are not applied.

(2) Objective/Action

This Service Bulletin proposes to install a non return valve downstream of the ground cooling skin air inlet valve.

(3) Advantages

Accomplishment of this Service Bulletin permits to avoid subject duct collapsing with subsequent loss of cabin pressure.

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(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Kit 211101A01

(a) Replace the blowing duct.

E. COMPLIANCE**(1) Classification**

DESIRABLE

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule.

F. APPROVAL

The technical content of this Service Bulletin has been approved under the authority of the DGAC Design Organisation Approval No. F.JA.02.

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

This Service Bulletin is written for an aircraft in a maintenance condition. The manhours/elapsed time estimates do not include the time to prepare for the modification, non-productive elapsed time or administration.

Kit 211101A01

Get access	0.5
Replacement of the blowing duct	2.0
Test	0.5
Close up	0.5
TOTAL MANHOURS	3.5
ELAPSED TIME (HOURS)	3.5

H. WEIGHT AND BALANCE

Manufacturers Empty Weight : +0.149 kg (+0.3284 lb)

Effect on Balance : +1.263 kgm (+9.135 lb.ft)

I. ELECTRICAL LOAD DATA

Not changed

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J. REFERENCES

Aircraft Maintenance Manual (AMM) : 06-41-53 12-34-24 21-27-00
21-27-52 24-41-00 52-10-00

Consumable Material List (CML)

Service Bulletin No. A320-21-1067

K. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM) : 21-26-56

Illustrated Parts Catalog (IPC) : 21-26-01 21-26-56

L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
Blowing duct	D5391413500000	D5391679100000	01	N/A

NOTE : For definitions of interchangeability codes shown in column INT.
refer to ATA 200 Chapter 1A-2.

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2. MATERIAL INFORMATION

A. MATERIAL – PRICE AND AVAILABILITY

(1) Material

Customers with aircraft shown in the effectivity of this Service Bulletin should send a purchase order to AIRBUS INDUSTRIE. Quote the number of this Service Bulletin. The address is :

AIRBUS INDUSTRIE
MATERIEL SUPPORT CENTER
P.O. Box 630262
22312 HAMBURG
GERMANY

(2) Price and Availability

Kit 211101A01

Cost : 3,597.00 US Dollars

Availability : 120 Calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require the Kit(s) before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements.

The sales terms (costs and availability) are estimated in relation to economic conditions at the issue date of the Service Bulletin.

B. INDUSTRY SUPPORT INFORMATION

None

C. LIST OF COMPONENTS

Kit 211101A01

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
1	D5391679100000	1		Duct	(1)	D5391413500000	01	(01)	
									*
5	NSA8603-737	1		Clamp	(5)	NSA8603-737			*
6	NSA8203-260	1		O-Ring	(6)	NSA8203-260			*
8	55220-014-022	1		Clamp	(8)	55220-014-022			*
9	NSA8205-171	1		O-Ring	(9)	NSA8205-171			*
10	NAS1153E8	10		Screw	(10)	NAS1153E8			*
15	ASNA2051DCJ3215	10		Rivet	(15)	ASNA2051DCJ3215			*

NOTE (01) Equipped with check valve CT141-1.

NOTE (*) Discard

NOTE : Refer to the AIRBUS INDUSTRIE Standards Manual (SM) if you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin. The SM will give you the correct part number to part number relationship.

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NOTE : For definitions of interchangeability codes shown in column INT.
refer to ATA 200 Chapter 1A-2.

D. LIST OF MATERIALS – OPERATOR SUPPLIED

DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	INST DISP
Putty, Zinc Chromategeneral Purpose	05-002	As required	
Polysulphide Sealant	09-016	As required	
Sealant	09-025	As required	
Methyl-Ethyl-Ketone	11-003	As required	

E. PARTS TO BE RE IDENTIFIED BY THE OPERATOR

None

F. TOOLING – PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None

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3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

(1) Preparation

- (a) De-energize the aircraft electrical circuits (Refer to AMM 24-41-00 Page block 201).
- (b) Electrically ground the aircraft (Refer to AMM 12-34-24 Page block 201).
- (c) Put the access platform(s) in position.
- (d) Open the access door 824, (Refer to AMM 06-41-53 Page block 001) and passenger/crew door 841, (Refer to AMM 52-10-00 Page block 001).
- (e) Open, safety and tag these circuit breakers :

PANEL	DESIGNATION	FIN	LOCATION
122VU	AIR COND/VENT/GND/COOL/CTL	3HD	23 W
123VU	VENT/GND COOL/FAN	1HD	11AC
123VU	VENT/GROUND COOL/UNIT	2HD	03AC

(2) Standard Practices

- (a) To install the screws with anti-corrosion compound Putty, Zinc Chromategeneral Purpose (Mat. No. 05-002) .
- (b) To clean the surfaces to be sealed using Methyl-Ethyl-Ketone (Mat. No. 11-003) .
- (c) To apply Sealant (Mat. No. 09-025) to the interfaces of the structure.
- (d) To shorten the rivets as required.
- (e) For the specification of the material numbers (Mat. No.), refer to the CML .

B. MODIFICATION

(1) Kit 211101A01

- (a) Replace the blowing duct.
Refer to figure 1 Sheets 1 , 2 and 3
Refer to AMM 21-27-52 Page block 401

1 Remove :

1	Air inlet valve		Item (2)	Retain
1	O-Ring	NSA8205-171	Item (9)	Discard
10	Screws	NAS1153E8	Item (10)	Discard

2 Remove :

2	Clamps		Item (3)	Retain
1	Sleeve		Item (4)	Retain
1	Clamp	NSA8603-737	Item (5)	Discard
1	O-Ring	NSA8203-260	Item (6)	Discard

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1	Filter		Item (7)	Retain
1	Clamp	55220-014-022	Item (8)	Discard
10	Rivets	ASNA2051DCJ3215	Item (15)	Discard
1	Blowing duct	D539141350000	Item (1)	Discard

NOTE (01) To remove the PR sealant, use a non metallic spatula; if there are scratches, polish the surface and apply protection.

NOTE (02) Make sure that the work areas are clean and clear of particles.

NOTE (03) Carefully remove the rivets, so as not damage the rivet holes as you will install rivets of the same dimension.

3 Install :

1	Blowing duct	D5391679100000	Item 1
10	Rivets	ASNA2051DCJ3215	Item 15
1	Clamp	55220-014-022	Item 8
1	Filter		Item (7)
1	O-Ring	NSA8203-260	Item 6
1	Clamp	NSA8603-737	Item 5
1	Sleeve		Item (4)
2	Clamps		Item (3)

NOTE (01) Items (3), (4), (7) were retained at removal.

NOTE (02) Before the installation of the fairing assy, apply Polysulphide Sealant (Mat. No. 09-016) .

4 Install :

11HD

1	Air inlet valve		Item (2)
1	O-Ring	NSA8205-171	Item 9
10	Screws	NAS1153E8	Item 10

NOTE : Item (2) was retained at removal.

C. TEST

- (1) Do an operational test of the avionics equipment ground cooling fault warning. (Refer to AMM 21-27-00 Page block 501).
- (2) Do an inspection of the component interface and/or the adjacent area.

D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Remove the safety clips and tags and close these circuit breakers :

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PANEL	DESIGNATION	FIN	LOCATION
122VU	AIR COND/VENT/GND/COOL/CTL	3HD	23 W
123VU	VENT/GND COOL/FAN	1HD	11AC
123VU	VENT/GROUND COOL/UNIT	2HD	03AC

- (3) Close the access doors 824 (Refer to AMM 06-41-53 Page block 001) and passenger/crew door 841 (Refer to AMM 52-10-00 Page block 201).
- (4) Remove the access platform(s).
- (5) Disconnect the aircraft electrical ground-connection (Refer to AMM 12-34-24 Page block 201).
- (6) Restore the systems and aircraft to normal operating condition.

E. DOCUMENTATION

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

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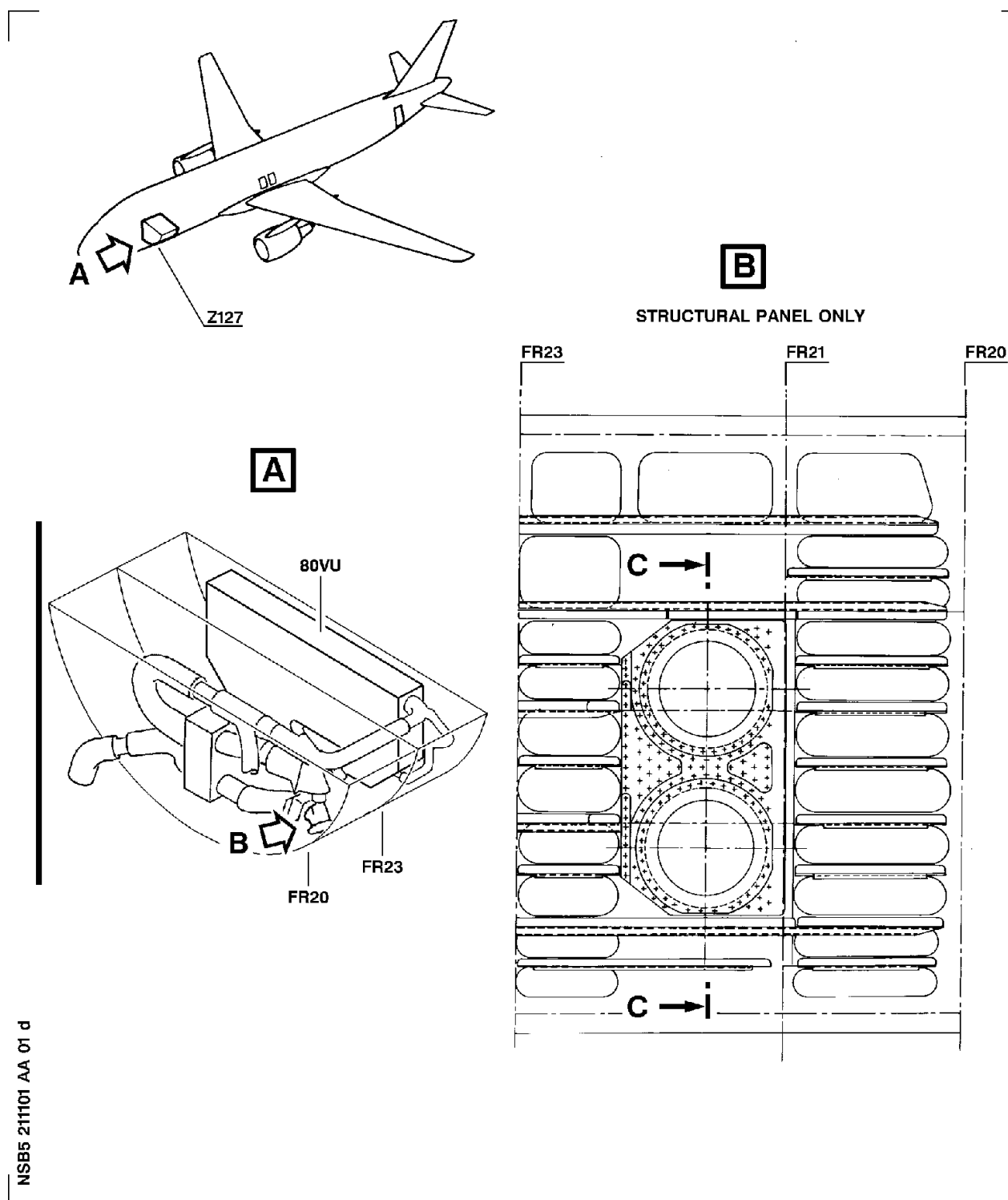


Figure 1 Sheet 1
Modification of the Blowing Duct, Kit 211101A01

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Figure 1 Sheet 2
Modification of the Blowing Duct, Kit 211101A01

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Figure 1 Sheet 3
Modification of the Blowing Duct, Kit 211101A01

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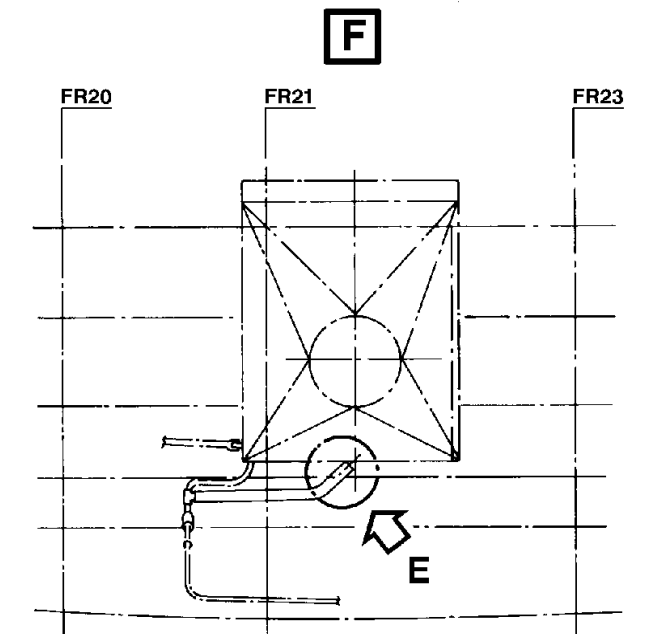
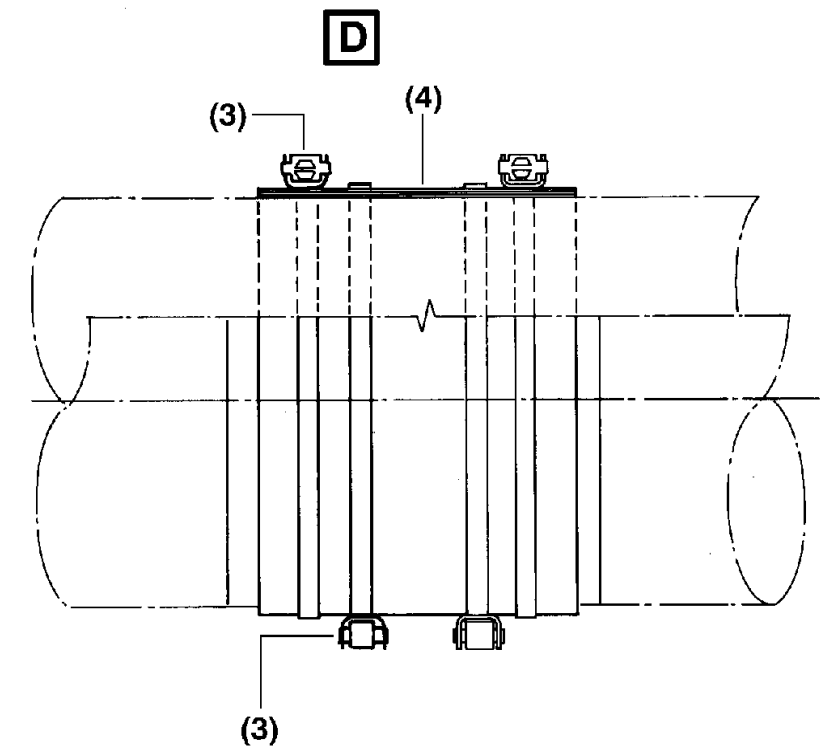
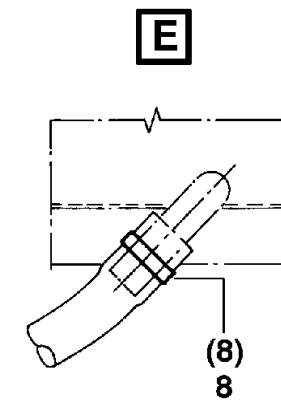
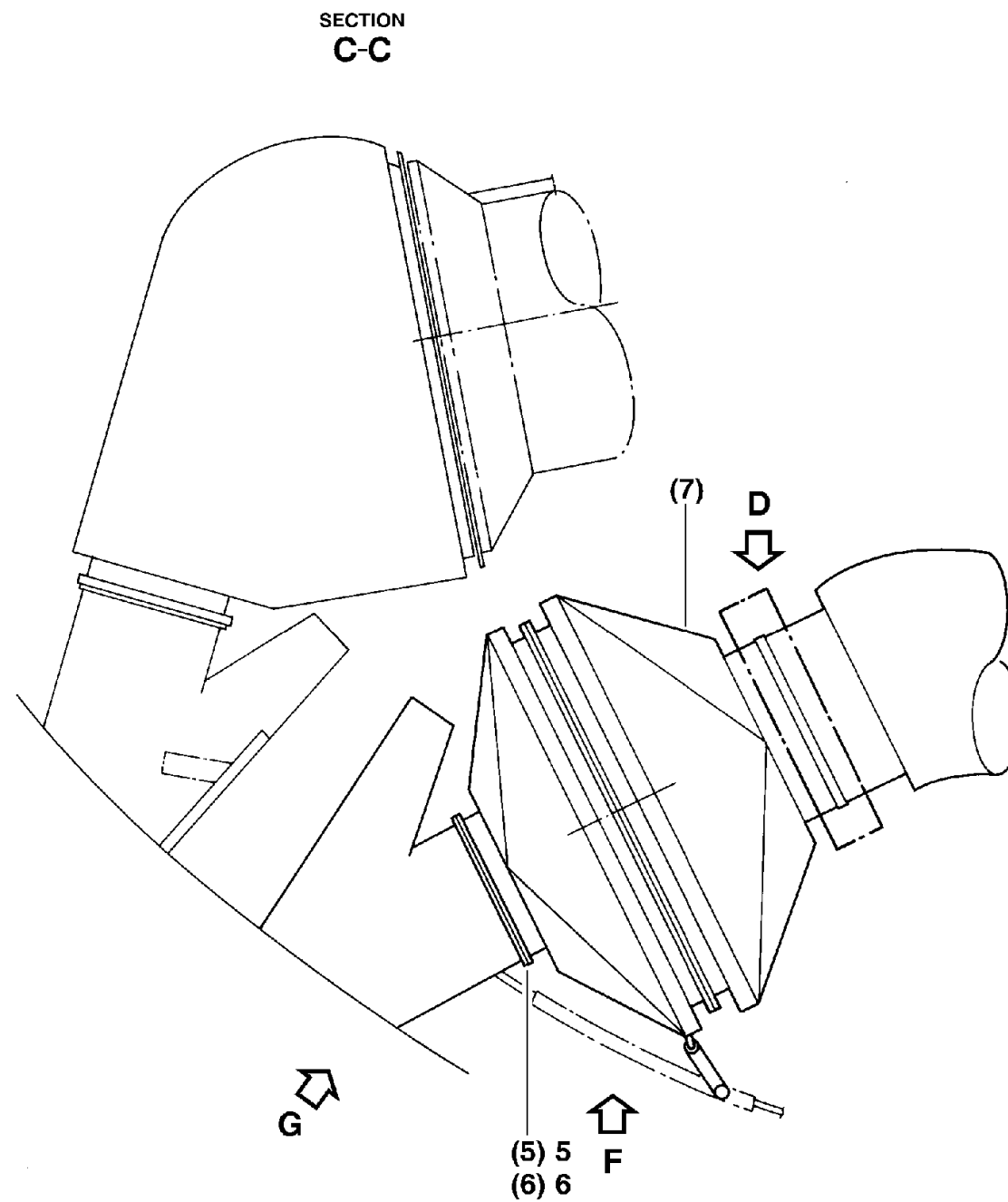


Figure 1 Sheet 2
Modification of the Blowing Duct, Kit 211101A01

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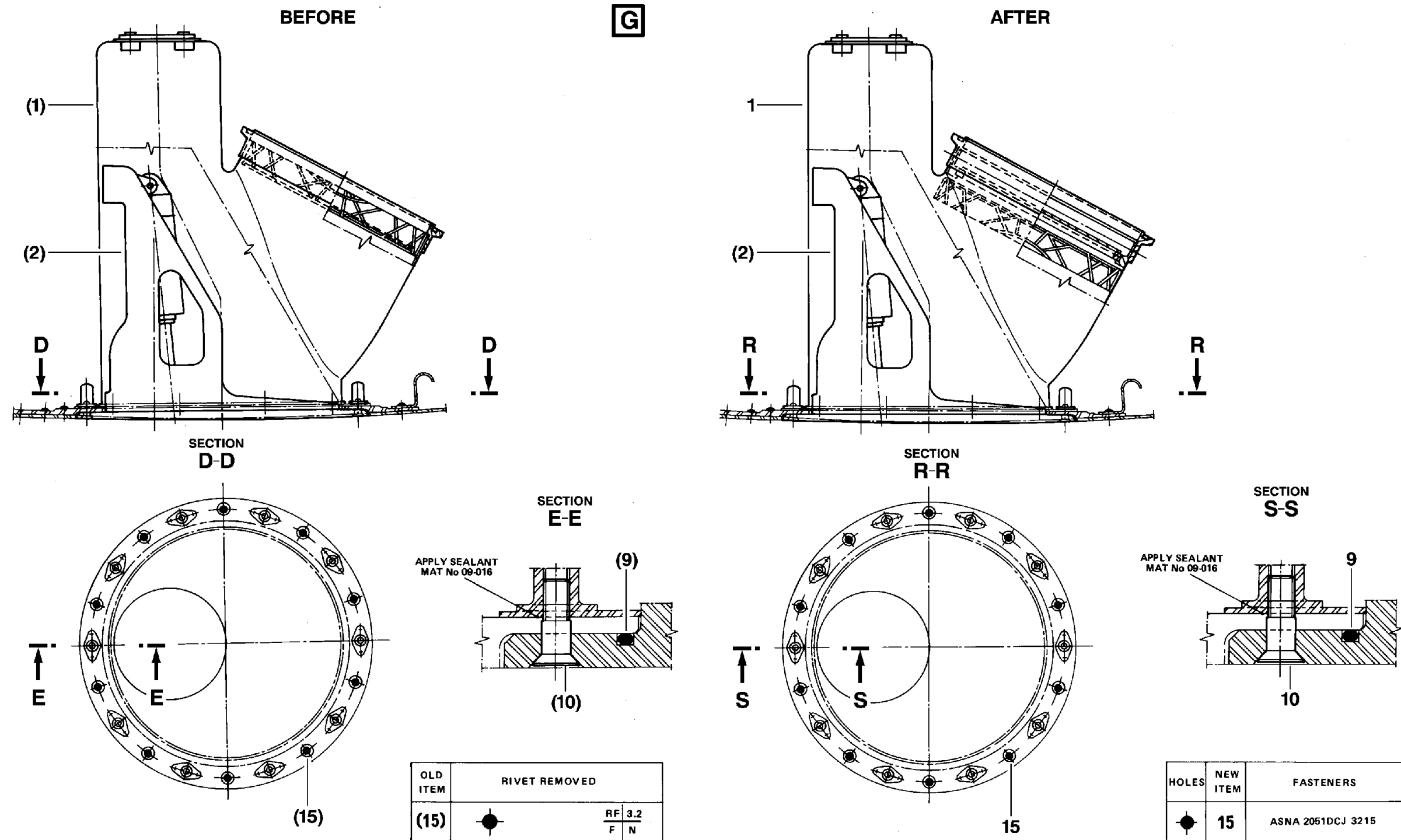


Figure 1 Sheet 3
Modification of the Blowing Duct, Kit 211101A01

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SERVICE BULLETIN REPORTING SHEET

TITLE : AIR CONDITIONING – AVIONICS EQUIPMENT VENTILATION – INTRODUCE NON
RETURN VALVE ON GROUND REFRIGERATION UNIT AIR INLET.

MODIFICATION No. : 25023P3860 25403P4114

Please complete the appropriate item (A or B):

A – SB WILL BE embodiedYES/NO (if NO please comment)
If YES, aircraft concerned (as per SB effectivity by default) and planned dates
(month/year) of embodiment:

.

B – SB HAS BEEN embodied on aircraft:

.

Operator comments:

.

From Airline:

Name/Title:

Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If
information is needed prior to next normal revision or prior to SB embodiment,
please indicate required service(s):

Either: Advance data YES/NO

Or : Intermediate/Temporary revision YES/NO

Important Information: This SB will only be incorporated in your maintenance and
operational documentation if this sheet is returned to Airbus Industrie and
signed by a duly authorised representative. With the next feasible revision,
this will result in

-updating of maintenance documentation to show pre and post SB data.

-updating of maintenance and operational documentation to show post SB data
after embodiment.

If this SB requires previous or simultaneous accomplishment of other SBs, Airbus
Industrie shall automatically include them in the manual revisions. Refer to SIL
00-037 for detailed information.

Please return this completed sheet to:

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE

Attn: AI/SE-D32 Technical Data and Documentation Services

Fax: (+33) 5 61 93 28 06

or via your Resident Customer Support Office.

Alternatively, SB lists via letters or fax are also accepted.

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SERVICE BULLETIN QUALITY PERCEPTION FORM

Use this form to tell us what is your perception of the quality of this Service Bulletin. The reported data that you provide us will be used to analyse areas of difficulties and to take corrective action to further improve the quality of our Service Bulletins.

We thank you for the time you have taken in completing this form.

(Please rate on a scale of 1 to 4, with 4 being the highest score)

- Quality rating of this SB	4	3	2	1
- Quality rating of the Accomplishment Instructions	4	3	2	1
- Quality rating of the Illustrations	4	3	2	1
- Is this SB easy to understand ?	Y / N			

If you have had difficulties in the accomplishment of this SB please quote below the area(s) and give a short description of the issue.

Planning	Material	Instructions
X Effectivity	X Kit Content	X Preparation
X Reason	X List of Materials	X Mod/Inspection
X Manpower	Operator Supplied	X Test
X References	X Re-identification	X Close-up
X Publication	X Tooling	X Illustrations

Comments :

Operator :

Date:

Name/Title :

Please return this form to :

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX
Attn : AI/SE-T1 Service Bulletins Management
FAX : (33) 5 61 93 42 51

or via your Resident Customer Support Office.

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