

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



SERVICE BULLETIN CHANGE NOTICE

S.B. No. A320-21-1017 REV.

DATED : Dec 28/90

MOD. No. 21899P1669

TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A CHECK VALVE
AT AIR INLET.

MODEL : All models listed on S.B.

DESCRIPTION :

This notice is issued to inform the affected operators that subject Service Bulletin is changed as stated below.

SERVICE BULLETIN

Page 5-6 - Para. 1.F.(2) Cost and Availability

Read : Free of charge

Instead of : 2294 US Dollars.

This change will be incorporated in the next Revision of this Service Bulletin ; however no revision is planned at the present time.

FILING INSTRUCTIONS

File this Change Notice in front of the Service Bulletin.

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CHANGE NOTICE No. : O.A.

5 DATE : Aug 21/92

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

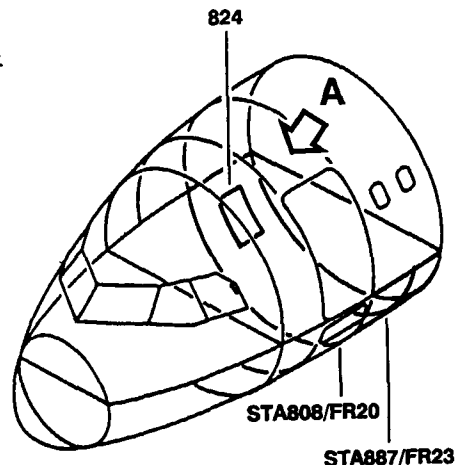
MODIFICATION No. 21899P1669

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A CHECK VALVE AT AIR INLET.

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

It has been found on in-service aircraft that the untimely opening of the air inlet valve on take-off or in-flight could lead to the compression of some blowing circuit ducts due to the cabin pressure differential (ΔP). Therefore, a check valve is added to the air inlet to protect the circuit. The structure of the ducting installed between the air inlet valve and the check valve is reinforced. Accomplishment of this Service Bulletin is used to protect the blowing circuit against the action of the cabin pressure differential (ΔP).



EFFECTIVITY

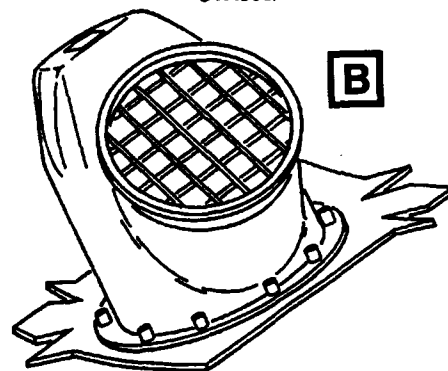
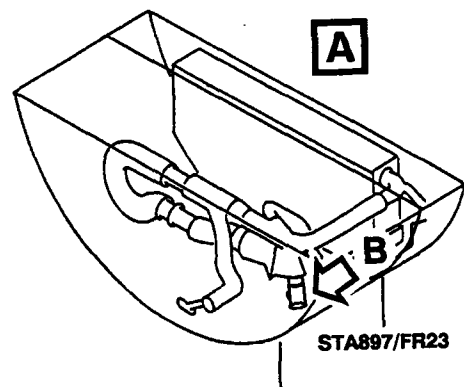
This Service Bulletin is applicable to the following operators :

AAA, ACA, ADR, AFR, AMC, ANA, BAW,
CDN, CYP, DLH, HP, IAC, IBE, ITF, MSR,
NWA, OYC, RJA, TAR, XP, XZ.

This modification is embodied prior to delivery on A/C MSN 204 and subsequent.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None.



SERVICE BULLETIN SUMMARY**REFERENCES/REPERCUSSIONS**

TFU	21-26-53-01	LIFE LIMIT	None
OEB	Deleted 57/2	LINE MAINTENANCE AFFECTED	
AOT	None	NO	
SIL	None	OTHERS	None

NATURE OF THE MODIFICATION

AIRCRAFT	YES
EQUIPMENT	NO

COMPLIANCE

Desirable.

MANPOWER

Manhours	6.5
Elapsed Time (Hours)	5.0

MATERIAL INFORMATION**Aircraft Data**

Qty per A/C :

1 blowing duct (equipped with a check valve).

Equipment Data

None.

APPENDICES

None.

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SERVICE BULLETIN

MODIFICATION No. 21899P1669

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A CHECK VALVE AT
 AIR INLET.

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models : 320-111, 320-211, 320-231.

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. 211017	Qty of Kits
AAA001-006	022,023,024,025,026,027	A01	06
AAA007-011	029,030,140,142,157	A01	05
ACA201-206	059,068,073,084,122,126	A01	06
ACA207-212	127,141,149,150,154,159	A01	06
ACA213	183	A01	01
ADR001-005	043,113,114,185,191	A01	05
AFR001,002	005,007	A01	02
AFR004-008	014,019,020,021,002	A01	05
AFR031-036	061,062,063,100,101,102	A01	06
AFR037-042	128,129,133,186,187,188	A01	06
AMC001	112	A01	01
ANA001-006	138,139,148,151,167,170	A01	06
ANA007	196	A01	01
BAW001-006	006,008,011,017,018,039	A01	06
BAW007-010	042,103,109,120	A01	04
CDN401,402	174,175	A01	02

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Customer and Fleet No.	MSN	Kit No. 211017	Qty of Kits
CYP001-005	028,035,037,038,180	A01	05
DLH001-006	069,070,071,072,078,083	A01	06
DLH007-012	086,093,094,104,105,110	A01	06
DLH013-018	111,116,117,135,137,147	A01	06
DLH019-024	161,162,172,200,201,202	A01	06
HP617-620	052,053,054,055	A01	04
HP622-627	064,065,066,067,076,077	A01	06
HP628-633	081,082,091,092,098,099	A01	06
IAC001-006	045,046,047,048,049,050	A01	06
IAC007-012	051,056,057,058,074,075	A01	06
IAC014-019	080,089,090,095,096,097	A01	06
IBE001-006	134,136,143,146,158,173	A01	06
IBE007-009	176,177,199	A01	03
ITF001-006	010,012,013,015,016,033	A01	06
ITF007-012	036,044,004,003,108,115	A01	06
ITF013-016	130,155,156,184	A01	04
MSR001-005	165,166,178,194,198	A01	05
NWA301-306	031,032,034,040,041,060	A01	06
NWA307-312	106,107,118,121,125,152	A01	06
NWA313-317	153,160,171,192,197	A01	05
OYC001-006	163,164,168,169,179,193	A01	06
RJA001-006	087,088,123,181,182,195	A01	06
TAR001,002	119,124	A01	02
XP001	085	A01	01

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XP051	203	A01	01
XZ001-004	131,132,189,190	A01	04
XZ201,202	144,145	A01	02

This modification is embodied prior to delivery on A/C 204 and subsequent.

(3) Spares

None.

B. REASON

(1) History

It has been evidenced on in-service aircraft that the untimely opening of the air inlet valve on take-off or in-flight could lead to the compression of some blowing circuit ducts due to the cabin pressure differential (ΔP).

(2) Objective/Action

This Service Bulletin calls for the addition of a check valve at the air inlet to protect the circuit and the reinforcement of the ducting installed between the air inlet valve and the check valve.

(3) Advantages

In an abnormal configuration, the air inlet valve being open in-flight or on take-off :

Protect the circuit and the ducting installed between the air inlet valve and the check valve against the action of the cabin pressure differential (ΔP).

(4) Accomplishment Timescale

In accordance with operator's experience.

C. DESCRIPTION

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

In avionics compartment, zone 127

(1) Gaining access to the working area.

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(2) Replacing the existing blowing duct by a new modified blowing duct (equipped with a check valve).

(3) Test and close-up.

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	1.0
Removal of the blowing duct	1.0
Installation of the modified blowing duct (equipped with a check valve)	3.0
Test	0.5
Close-up	1.0
	<hr/>
TOTAL MANHOURS	6.5
ELAPSED TIME (HOURS)	5.0

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
SPARES SUPPORT CENTER
WEG BEIM JAEGER 150
D2000 HAMBURG 63
GERMANY

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SERVICE BULLETIN**(2) Cost and availability**

Kit No.	Cost (US Dollars)	Availability *
211017A01	2294	150

* Calendar days from receipt of order.

NOTE : Sales terms stated (cost and availability) are evaluated with respect to economic conditions at the issue date of this Service Bulletin.

A discount of ten (10) per cent will be accorded to all orders received within a period of 120 days from the original issue date of this Service Bulletin.

G. TOOLING - PRICE AND AVAILABILITY

None.

H. WEIGHT AND BALANCE

MEW : + 0.427 kg (+ 0.94 lb)

Effect on balance : + 2.805 kgm (+ 20.28 lb.ft).

I. REFERENCES

Aircraft Maintenance Manual : 06-41-53, 12-34-24, 21-26-43, 21-26-52,
24-41-00, 51-23-11

Consumable Material List.

J. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual : 21-26-00, 21-26-52

Illustrated Parts Catalog : 21-26-01, 21-26-52

Structural Repair Manual : 53-19-00

Trouble Shooting Manual : 21.

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 below the door (824) of the rear avionics compartment.
- (c) Open the access door 824 (Ref. AMM 06-41-53).
- (d) Open, safety and tag these circuit breakers :

PANEL	SERVICE	IDENT.	LOCATION
49VU	AIR COND/AVNCS VENT/CTL	5HQ	D07
49VU	AIR COND/AVNCS VENT/CTL	6HQ	D06
122VU	AIR COND/AVNCS/VENT/MONG	3HQ	Y17
123VU	AVNCS VENT/BLOWER/FAN	1HQ	AD10
123VU	AVNCS VENT/EXTC/FAN	2HQ	AE02

(2) Standard procedures

- (a) To clean the surfaces that must be sealed with Material No. 11-003 (Ref. CML).
- (b) To apply Material No. 09-005 (Ref. CML) to the interfaces between the structure and the new part.
- (c) To shorten the standard rivet as required.
- (d) To renew the protective finish (Ref. AMM 51-23-11) with Material No. 16-002, 16-006 (Ref. CML).

B. MODIFICATION

In the avionics compartment, zone 127, replace the blowing duct.

Refer to Figure 1, Sheets 1 of 2 and 2

(1) Remove :

- (a) From the outside, on the fuselage (Ref. AMM 21-26-52, P. Block 401)

1 skin air-inlet valve 15HQ	Item 5 (retain)
1 O-ring	Item (2) (discard)

- (b) From the inside

1 demister air inlet 2080HM (Ref. AMM 21-26-43, P. Block 401)	Item 6 (retain)
1 nut	Item 7 (retain)
2 couplings	Item 8 (retain)
1 bulkhead connector	Item 9 (retain)
4 screws	Item 10 (retain)
1 plate	Item 11 (retain)
10 rivets	Item (3) (discard)
1 blowing duct	Item (1) (discard)

(2) Install :

- (a) Put in position and attach with the screws Item 4 :

1 blowing duct assy D5391268600295 (equipped with a check valve CT141)	Item 1
---	--------

Drill to match to a dia. of 3.2 mm (0.1260 in.).

- (b) Attach Item 1 and apply the sealant, Material No. 09-005 (Ref. CML) between the surfaces with :

10 rivets ASNA2051DCJ3210	Item 3
1 plate	Item 11
	(retained at removal)
4 screws	Item 10
	(retained at removal)
1 bulkhead connector	Item 9
	(retained at removal)
2 couplings	Item 8
	(retained at removal)
1 nut	Item 7
	(retained at removal)

Safety Item 7 with the lockwire MS20995C32.

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Renew the protective finish with Materials No. 16-002 and 16-006 (Ref. CML).

- (c) 1 demister air inlet 2080HM Item 6
(Ref. AMM 21-26-43, P. Block 401) (retained at removal)

- (d) On Item 1, near the equipment concerned, install :
1 placard identified 1301VP (View on E).

NOTE : The placard is supplied in the placard set
D9100095003895.

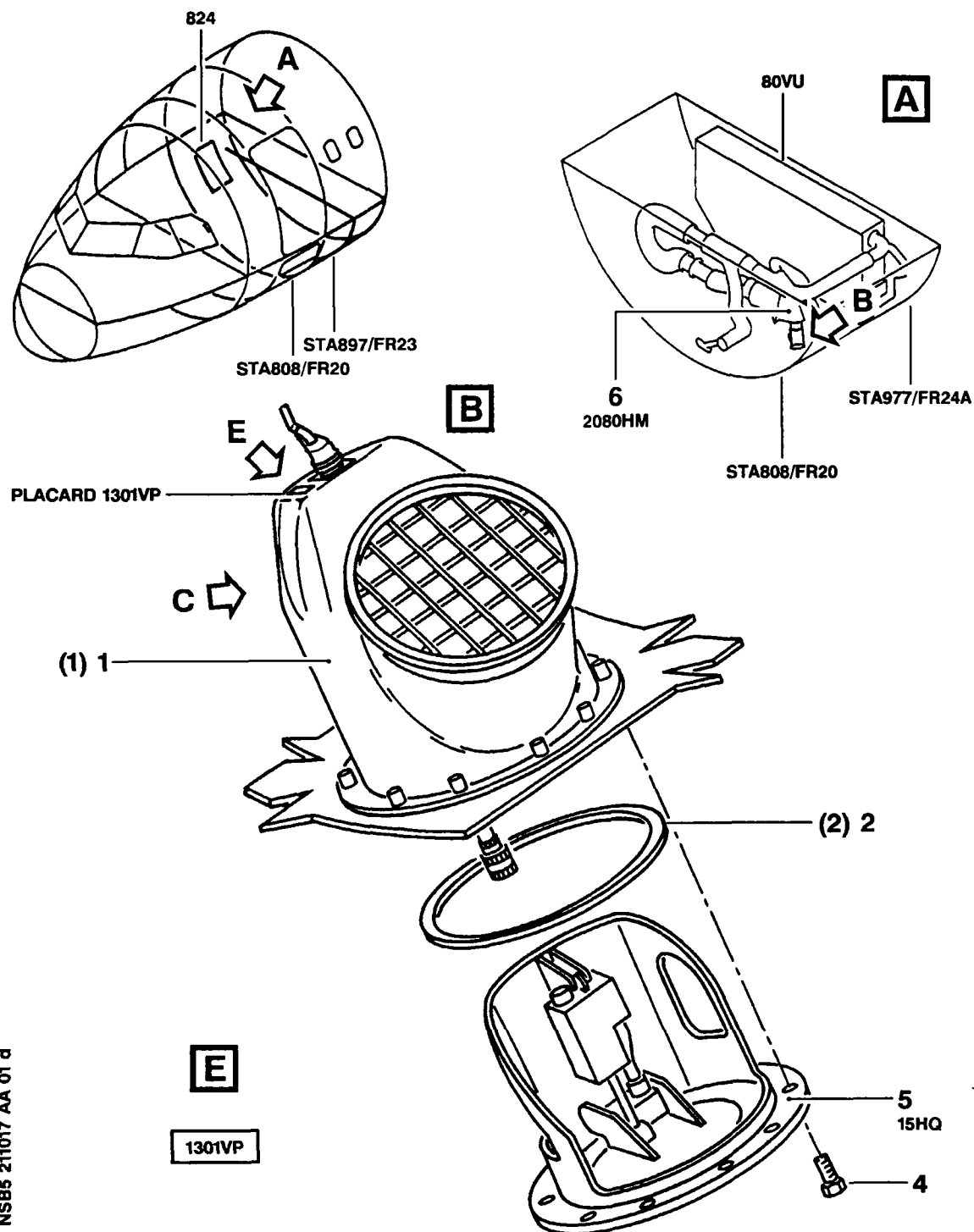
- (e) From the outside, on the fuselage
- 1 skin air-inlet valve 15HQ Item 5
(retained at removal)
- 1 O-ring NSA8205-171 Item 2
(Ref. AMM 21-26-52, P. Block 401.)

C. TESTS

- (1) Remove the safety clips and tags and close these circuits breakers :
5HQ, 6HQ, 3HQ, 1HQ, 2HQ (Ref. Para. 2.A.(1)(d)).
- (2) Do the tests of the skin air-inlet valve 15HQ (Ref. AMM 21-26-52, P. Block 401).

D. CLOSE-UP

- (1) Make certain that the work areas are clean and clear of tools and miscellaneous items of equipment.
- (2) Close the access door 824 (Ref. AMM 06-41-53).
- (3) Remove the access platforms.
- (4) Disconnect the aircraft electrical ground connection (Ref. AMM 12-34-24, P. Block 201).
- (5) Write in the applicable aircraft record that you have done all the work in this Service Bulletin.



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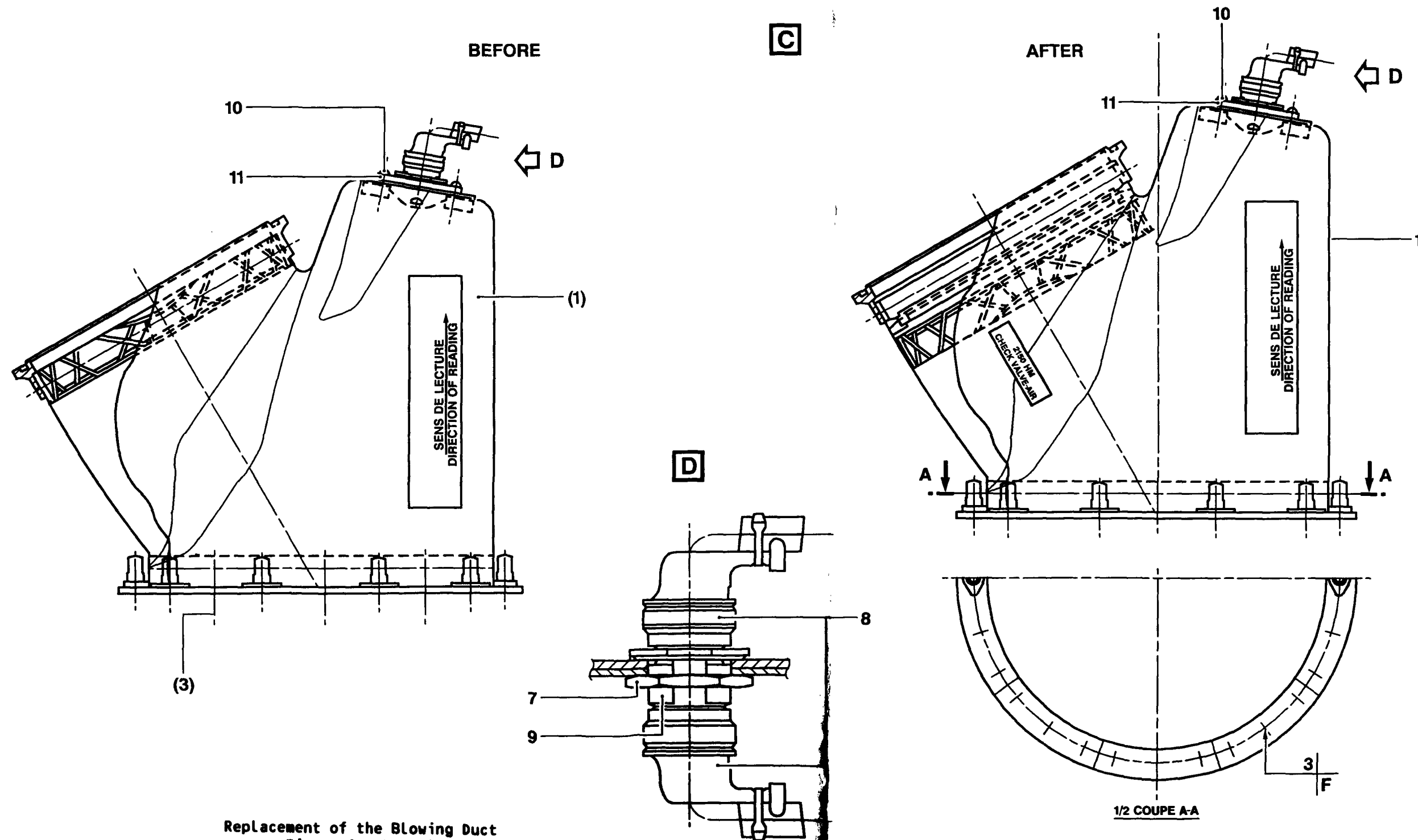
Replacement of the Blowing Duct
Figure 1, Sheet 1 of 2

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Replacement of the Blowing Duct
Figure 1, Sheet 2

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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 D I S P O S I T I O N S C
	<u>Kit No. 211017</u>	<u>A01</u>					
1	D5391268600295	1	Duct assy-	(1)	D5391268600100		*
			Blowing (equipped with check valve)				
2	NSA8205-171	1	O-Ring	(2)	NSA8205-171		*
3	ASNA2051DCJ3210	10	Rivet	(3)	ASNA2051DCJ3210		*
	D9100095003895	1	Placard set				
	MS20995C32	300 mm	Lockwire				
		(11.80 in.)					

* discard

B. SPECIAL TOOLS

None.

C. LIST OF MATERIALS - OPERATOR SUPPLIED

DESCRIPTION	REFERENCE CML	QTY PER A/C
Sealant-Polysulfide	Mat. No. 09-005	As required
Solvent	Mat. No. 11-003	As required
Polyurethane grey	Mat. No. 16-002	As required
Top coat		
Polyurethane Primer	Mat. No. 16-006	As required

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None.

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A320

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ATA SYSTEM : 21
TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSTALL A CHECK VALVE AT
AIR INLET.

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the agreed time schedule in so far as this sheet is returned to us on
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