

AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE

31707 BLAGNAC CEDEX FRANCE

SERVICE BULLETIN

Tel: (33) 61-93-33-33

Telex: AIRBU 530526 F

REVISION TRANSMITTAL SHEET

MODIFICATION No. 20998/P01376

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AVIONICS VENTILATION - IMPROVE SIGNIFICANT SIGNALLING DEFINITION.

This page transmits Revision No. 1 of Service Bulletin A320-21-1010. No additional work is required by this Revision.

REASON

MANPOWER and Access modified further to accomplishment of SB A320-21-1010 on aircraft

SERVICE BULLETIN SUMMARY

Page 1 of 2: ACTION - Paragraph modified
Page 2: MANPOWER - Paragraph modified:
- manhours: read 45 instead of 38

- elapsed time (hours): read 15 instead of 22.

SERVICE BULLETIN

Page 2: Para. 1.C. - Modified Description Page 2: Para. 1.E. - Modified Manhours Page 4: Para. 1.I. - Added AMM 35-11-41

Page 5: Para 2.A (1)(g) - Added:

(1) Oxygen storage cylinder (5750 HM) - Removal for access. (Ref. AMM 35-11-41, P. Block 401).

Page 9: Para. 2.C. - Added:

(1) Oxygen storage cylinder (5750 HM) - Installation (Ref. AMM 35-11-41, P. Block 401).

(2) Leak test (Ref. AMM 35-11-41, P. Block 401).

Page 18: Para. 3.C. - Added: Mat. No. 05-003 and Mat. No. 05-004.

FILING INSTRUCTIONS

Replace pages SUMMARY 1 of 2 and 2
SERVICE BULLETIN pages 1 of 18, 2, 4, 5, 9 and 18.

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

REVISION SEQUENCES

ORIGINAL: Feb 13/89

REVISION: No. 1 - Apr 24/89

5 DATE : Feb 13/89 SERVICE BULLETIN No. : A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE : 1 of 1

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31707 BLAGNAC CEDEX FRANCE SERVICE BULLETIN SUMMARY

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

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

MODIFICATION No. 20998/P01376

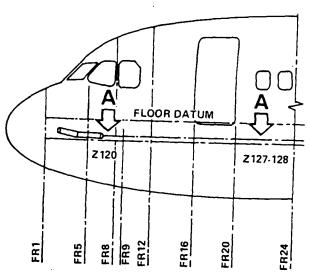
ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AVIONICS VENTILATION - IMPROVE SIGNIFICANT SIGNALLING DEFINITION.

REASON

Several BLOWER FAULT untimely warnings have been reported by the operators; these warnings are activated on ground as well as in flight.

In order to prevent recurrence of such problems, this Service Bulletin proposes to modify and add balancing diaphrams and to relocate tapping for pressure switches in the blowing system so that Delta P seen by the pressure switches is increased without altering the flow through the equipment.



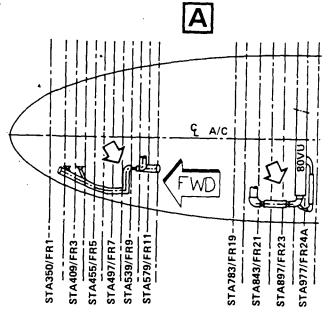
<u>ACTION</u>

On air conditioning system, between FR21 and FR24 and between FR3 and FR11, forward cargo compartment, left side:

- (1) Remove ducts.
- (2) Add and replace diaphragms.
- (3) Install ducts.

EFFECTIVITY

This Service Bulletin is applicable to the following operators:
AAA, AFR, BAW, CYP, ITF.



5 DATE: Feb 13/89

Printed in FareVICE BULLETIN No. : A320-21-1010

REVISION No. 1 - Apr 24/89

PAGE: 1 of 2

SERVICE BULLETIN SUMMARY

COMPLIANCE

Desirable.

MANPOWER

Manhours : 45

Elapsed Time (Hours): 15

MATERIAL INFORMATION

Quantity per A/C:

5 diaphragms

1 duct

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE: 2



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MODIFICATION No. 20998/P01376

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AVIONICS VENTILATION - IMPROVE SIGNIFICANT SIGNALLING DEFINITION.

1. PLANNING INFORMATION

A. EFFECTIVITY

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

NOTE: Aircraft with asterisk are not certified at the issue date of this Service Bulletin.

(2) Aircraft

Customer and Fleet No.	MSN	Qty of Kits A320211010A01		
AAA 001-008	022-027, 029, 030	8		
AFR 001,002 004-007	005, 007 014, 019-021	6		
BCA 001-005 CYP 001	006, 008, 011, 017, 018 028	5 1		
ITF 001-005	010, 012, 013, 015, 016	5		

This modification is embodied prior to delivery on A/C MSN 003, 004, 031 and subsequent.

(3) Spares

Duct D2121065900100

B. REASON

Several BLOWER FAULT untimely warnings have been reported by the operators; these warnings are activated on ground as well as in flight.

In order to prevent recurrence of such problems, this Service Bulletin proposes to modify and add balancing diaphragms and to relocate tapping for pressure switches in the blowing system so that Delta P seen by the pressure switches is increased without altering the flow through the equipments.

5 DATE : Feb 13/89 SERVICE BULLETIN No. : A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE: 1 of 18



C. DESCRIPTION

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

On air conditioning system, between FR21 and FR24 and between FR3 and FR11, fwd cargo compartment, left side.

- (1) Remove ducts.
- (2) Add and replace diaphragms.
- (3) Install ducts.

D. APPROVAL

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

E. MANPOWER

 	Manhours
Gain access Remove duct in zone 127-128 Remove duct in zone 120 Add and replace diaphragms Install duct in zone 127-128 Install duct in zone 120 Tests Close-up	2 9 8 7 7 1 2
TOTAL MANHOURS	45
ELAPSED TIME (HOURS)	15

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

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE: 2



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

(2) Cost and availability

Kit Cost Availability *

(US Dollars)

A320211010A01 533 120

* Calendar days from receipt of order.

NOTE: Sales terms (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

M.E.W. : + 0.100 Kg (+ 0.220 lb.)

Effect on Balance: + 0.638 m.Kg (+ 4.614 lb.ft.)

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

SERVICE BULLETIN

I. REFERENCES

Aircraft Maintenance Manual: 06-41-53, 12-34-24, 20-31-00,

24-41-00, 35-11-41, 51-23-11, 52-10-00, 52-30-00, 52-41-00.

J. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual: 21-26-00, 21-26-11.

Illustrated Parts Catalog : 21-26-01.

SERVICE BULLETIN No. : A320-21-1010 DATE : Feb 13/89

PAGE : 4 REVISION No. : 1 - Apr 24/89

SERVICE BULLETIN

2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

Accomplishment of this Service bulletin includes the following operations:

- (1) Job Set-Up
 - (a) De-energize the aircraft electrical network (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 platforms in position.
 - (c) Open forward passenger/crew door 841 (Ref. AMM 52-10-00, P. Block 201).
 - (d) Open cargo compartment door 825 (Ref. AMM 52-30-00, P. Block 201).
 - (e) Open door 311, 812, 824 (Ref. AMM 52-41-00).
 - (f) In fwd cargo compartment, remove panels 131BW, 131DW and 131GW (Ref. AMM 06-41-53).
 - (g) Oxygen storage cylinder (5750 HM)

 Removal for access (Ref. AMM 35-11-41, P. Block 401).
- (2) Standard Practices
 - (a) Apply sealant Mat. No. 09-005 (Ref. AMM 20-31-00).
 - (b) Touch-up protective finish (Ref. AMM 51-23-11) with Mat. No. 13-002, 16-002, 16-006 (Ref. AMM 20-31-00).

B. MODIFICATION

Kit No. A320211010A01

Ref. Fig. 1 Sheet 1 of 2 and 2

In forward cargo compartment and in zone 120 (80VU) between FR21 and FR24, left side, in air conditioning system, add and replace diaphragms.

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE: 5



NOTE: Before removing sleeves, identify their location by an identification sign on each duct and on 26HQ, and disconnect connector 26HQA.

(1) Remove ducts

Remove :

- Item (16) (re-used) 8 Clamps 2 Sleeves Item (2) (re-used) Item (15) (re-used) 18 Crews 18 Washers Item (14) (re-used) Item (10) (re-used and re-identified) 1 Duct Item (17) 1 Clamp (re-used) 1 Duct Item (9) (re-used) Item (13) 1 Duct (re-used) 8 Clamps Item (20) (re-used) Item (4) (re-used) 1 Sleeve Item (8) 1 Duct (re-used) Item (21) 1 Clamp (re-used) Item (1) (re-used) 1 Sleeve 1 Duct Item (7) (re-used and re-identified)
- (2) Remplacement of diaphragms
 - (a) On duct Item (7) (Ref. Fig. 1, Sheet 1 of 2 Details C and D)

Remove :

- 1 Diaphragm Item (12) (not re-used)
- (b) Install:
 - 1 Diaphragm D2121033421000 Item 3 with

Re-identify duct D2121019800300 becomes D2121019800400

(c) On duct Item (8) (Ref. Fig. 1, Sheet 1 of 2, Detail E)

Install using bonding compound Mat. No. 09-005 (Ref. AMM 20-31-00).

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

SERVICE BULLETIN

	1	Diaphragm D2121104720000	Item	6 and	d install :				
	8	Duct Screws Washers	Item	(15)	<pre>(retained at removal) (retained at removal) (retained at removal)</pre>				
(a)	In	stall:							
	1	Duct	Item	(7)	(re-used and re-identified)				
	4 1 1 4 1	Sleeve Clamps Clamp Sleeve Clamps Duct	Item Item Item Item Item Item	(20) (21) (1) (20) (13)	(retained at removal)				
	ИО.	TE : Connect connector 26	dQA to	o equ	ipment 26HQ.				
(e)		duct Item (10) (Ref. Fig d H).	. 1, :	Sheet	1 of 2 and 2, Detail G				
	In	stall:							
	wi								
	3	Rivets L21217024008DCJ	Item	11					
	Re-identify duct D2121022700000 becomes D2121022700200								
	In	stall:							
	1	Duct	Item	(10)	<pre>(re-used and re-identified)</pre>				
		Screws Washers			(retained at removal) (retained at removal)				
(f)	In	stall:							
	1 wi	Duct th	Item	(9)	(retained at removal)				
	2 8	Sleeves			<pre>(retained at removal) (retained at removal)</pre>				
	1	Clamps			(retained at removal)				

DATE : Feb 13/89 SERVICE BULLETIN No. : A320-21-1010

SERVICE BULLETIN

Ref. Fig. 2

In cargo compartment, zone 120 STA495 (90VU) and zone 120 STA655 (106VU) between FR3 and FR11, left side, air conditioning system, replacement of diaphragms and installation of duct.

NOTE: Before removing duct fasteners, disconnect hoses.

- (3) Remove:
 - 9 Clamps Item (18) (re-used)
 - 2 Sleeves Item (3) (re-used)
 - 1 Clamp Item (19) (re-used)
 - 1 Duct Item (5) (re-used and re-identified)

or

- 1 Duct Item (6) (re-used and re-identified)
- (4) Replacement of diaphragms
 - (a) On duct Item (5) or (6) (Ref. Fig. 2, Detail C and E),

Remove :

1 Diaphragm

Item (11) (not re-used)

- (b) Install:
 - 1 Diaphragm D2121033121000 Item 2

with

(c) On duct (5) or (6) (Ref. Fig. 2, Detail D and M),

Install:

1 Diaphragm D2121033120800 Item 1

With

Re-identify ducts

D2121017600000 becomes D2121017600400 D2121017600200 becomes D2121017600500

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

SERVICE BULLETIN

(d) Install:

1 Duct Item (5) or (6) (re-used and

re-identified)

with

2 Sleeves Item (3) (retained at removal)
9 Clamps Item (18) (retained at removal)
1 Clamp Item (19) (retained at removal)

NOTE: Connect hoses.

(e) Remove form tapping point 2103:

1 Blanking plug Item (22) (not re-used) 1 O-ring Item (23) (not re-used)

(f) Install on tapping point 2103:

(g) Remove between tapping point 2104 and pressure switch:

1 Duct Item (24) (not re-used)

(h) Blank off tapping point 2104 with:

1 Seal NSA8202-4 Item 7 1 Blanking plug MS21913D4 Item 10

(j) Connect on duct (5) or (6), tapping point 2103, and pressure switch:

1 Duct D2121065900300 Item 5

C. TESTS

- (1) Oxygen storage cylinder (5750 HM)
 Installation (Ref. AMM 35-11-41, P. Block 401).
- (2) Leak test (Ref. AMM 35-11-41, P. Block 401).

D. CLOSE-UP

(1) Install panels 131BW, 131DW, 131GW (Ref. AMM 06-41-53)

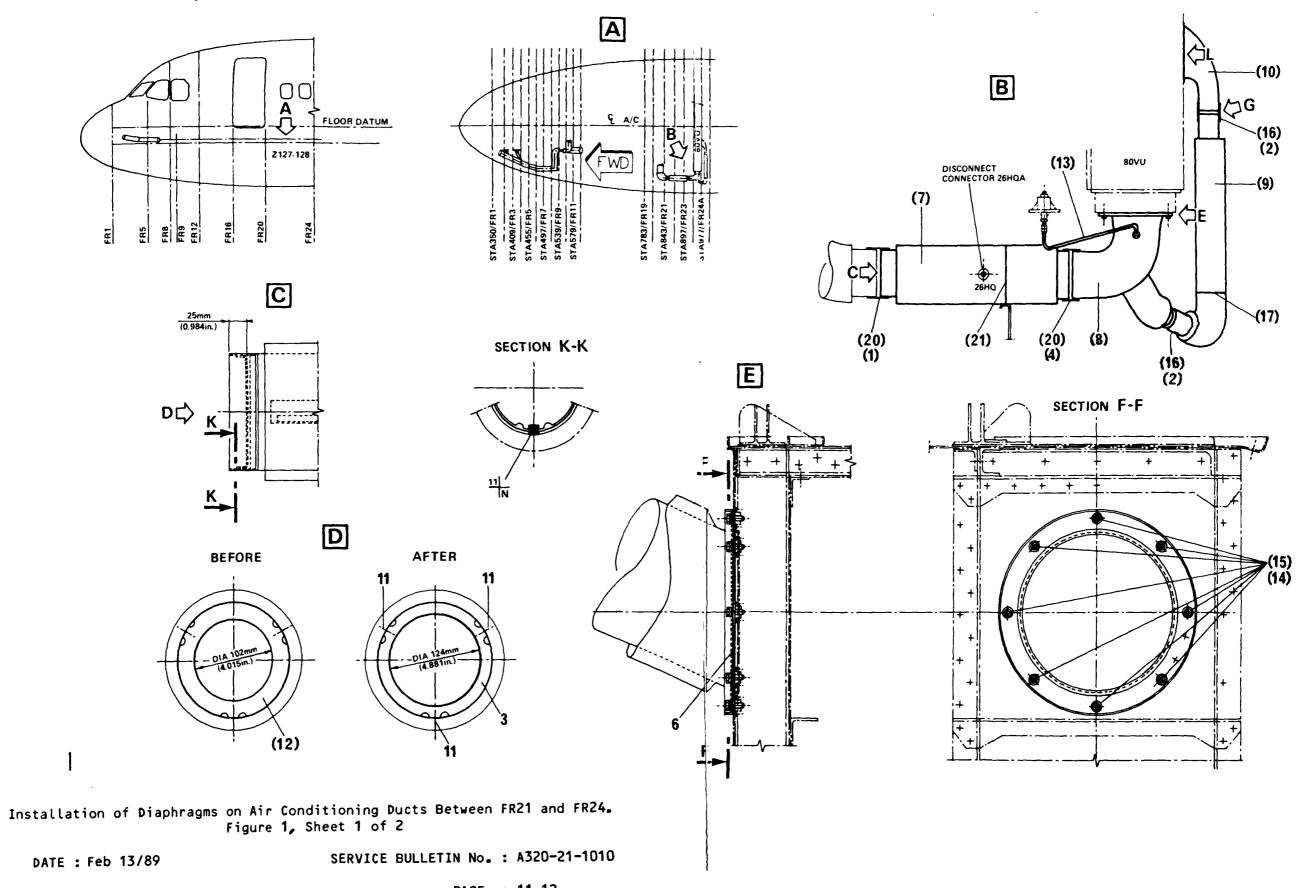
DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE: 9

SERVICE BULLETIN

- (2) Close cargo compartment door 825 (Ref. AMM 52-30-00, P. Block 201).
- (3) Close doors 811, 812, 814 (Ref. AMM 52-41-00).
- (4) Close forward passenger/crew door 841 (Ref. AMM 52-10-00, P. Block 201).
- (5) Remove access platforms.
- (6) Disconnect aircraft from ground (Ref. AMM 12-34-24, P. Block 201).

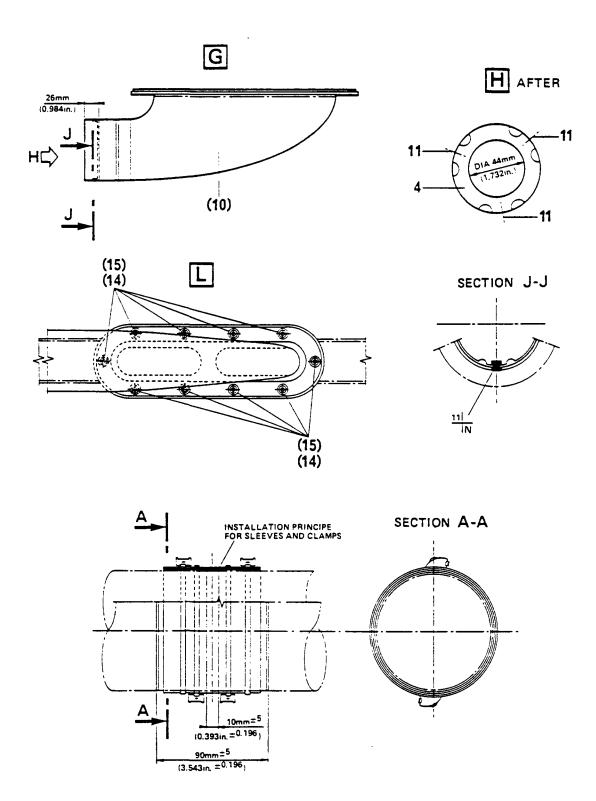
DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010



REVISION No.

PAGE : 11-12

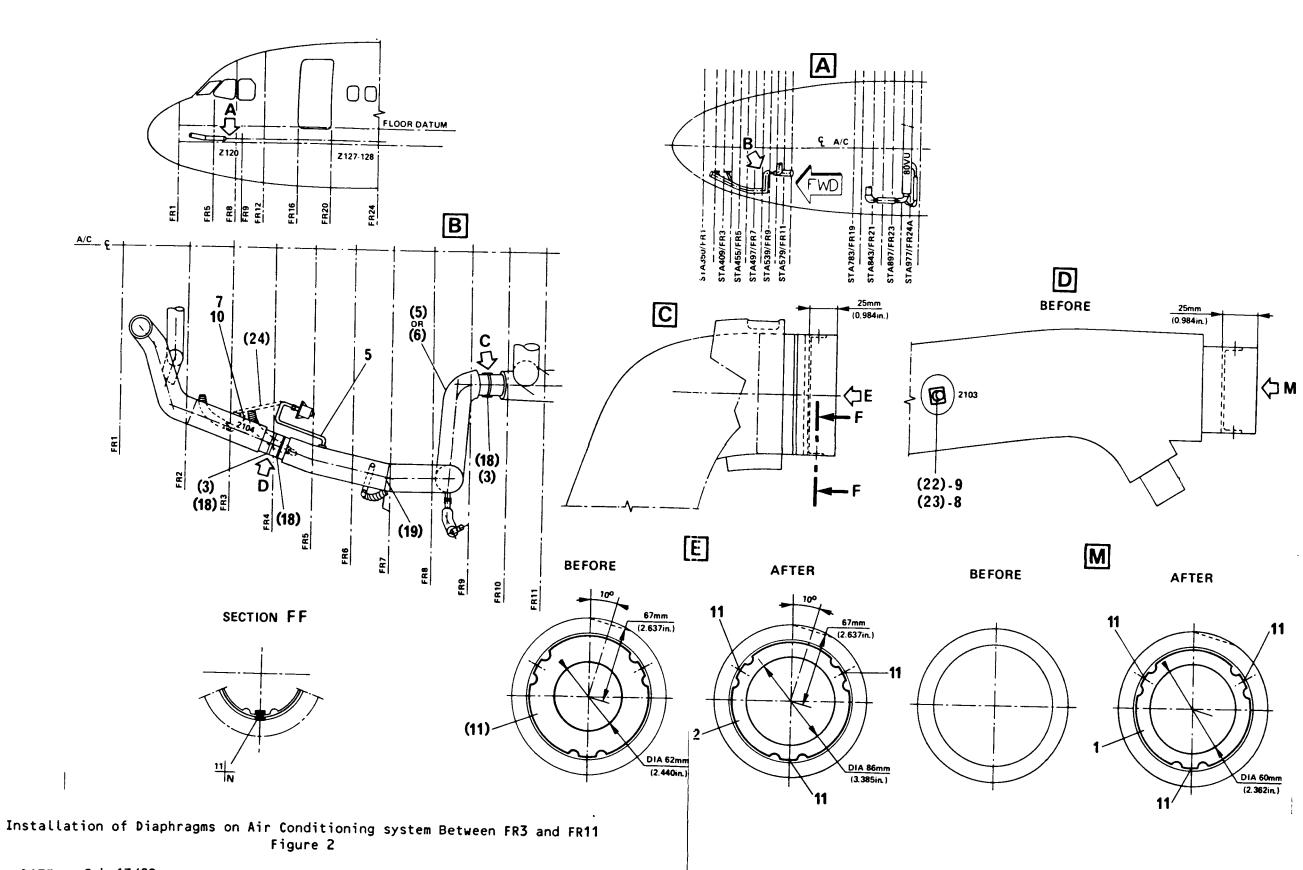
SERVICE BULLETIN



Installation of Diaphragms and Installation Principle of Sleeves Figure 1, Sheet 2

DATE: Feb 13/89 SERVICE BULLETIN No.: A320-21-1010

REVISION No. PAGE: 13-14



DATE: Feb 13/89

SERVICE BULLETIN No. : A320-21-1010

REVISION No.

PAGE : 15-16

REVISION No.

DATE : Feb 13/89

SERVICE BULLETIN No.

: A320-21-1010

PAGE

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	INSTRUCTIONS/ DISPOSITION
Kit N	o. A320211010	<u>A01</u>					
1	D2121033120800	1	Diaphragm				
2	D2121033121000	1	Diaphragm	(11)	D2121033120400		* *
3	D2121033421000	1	Diaphragm	(12)	D2121U33420400		* *
4	D2121054520200	1	Diaphragm				
5	D21210659U0300	1	Duct	(24)	D2121065900100		* *
6	D2121104720000	1	Diaphragm				
7	NSA8202-4	1	0-ring	(23)	NSA8202-4		* *
8	NSA82U2-5	1	0-ring				
9	MS21902D4	1	Union				
10	MS21913D4	1	Plug	(22)	MS21913D4		* *
11	L21217024008DCJ	12	Rivet				
		1	Sleeve	(1)	D2101001300000		*
		1	Sleeve	(2)	D2101001500200		*
		2	Sleeve	(3)	D2101001600200		*
		1	Sleeve	(4)	D2101001600300		*
		1	Duct	(8)	D2121019900000		*
		1	Duct	(9)	D2121022600000		*
		1	Duct	(13)	D2121065900000		*
		18	Washer	(14)	AN960-10L		*
		18	Screw	(15)	NAS 1096-3-10		*
		8	Clamp	(16)	NSA5528-070		*
		1	Clamp	(17)	NSA5528-080		*
		9	Clamp	(18)	NSA5528-115		*
		1	Clamp	(19)	NSA5528-130		*
		8	Clamp	(20)	NSA5528-160		*
		1	Clamp	(21)	NSA5528-180		*

^{*} re-used
* * not re-used

DATE

Feb 13/89

SERVICE BULLETIN No.

A320-21-1010

B. SPECIAL TOOLS

None.

C. LIST OF MATERIALS - OPERATOR SUPPLIED

DESCRIPTION	REFERENCE AMM 20-31-00	QTY PER A/C
RECTORSEAL 15	Mat. No. 05-003	As required
GC1 and GC2 SOLUTION	Mat. No. 05-004	As required
PR1431G	Mat. No. 09-005	As required
Alodine 1200	Mat. No. 13-002	As required
Epoxy primer	Mat. No. 16-006	As required
Polyurethane Top Coat		As required

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	INSTRUCTIONS/ DISPOSITION
	₱2121017600400	1	Duct	(5)	D2121017600000		
	D2121017600500	i	Duct	(6)	D2121017600200		
	D2121019800400	1	Duct	(7)	D2121019800300		
	b2121022700200	1	Duct	(10)	N2121022700000		



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5 DATE : Feb 13/89 SERVICE BULLETIN No. : A320-21-1010

REVISION No.: 1 - Apr 24/89 PAGE: 1 of 1