

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 Fax : (33) 5 61 93 42 51

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - RELOCATE

COCKPIT TEMPERATURE REGULATION SENSOR.

MODIFICATION No.: 26601P4974 26602P4973 26713P5392

This page transmits Revision No. 02 of Service Bulletin No. A320-21-1112

ADDITIONAL WORK

Additional work is required by this revision for aircraft modified by any previous issue. If this Service Bulletin has been accomplished before Revision No. 02, it is necessary to do the additional work as described in this revision. Aircraft modified (inspected) per Revision No. 02 or later revisions are not affected by the additional work described in this revision.

REASON

Revision No. 02 issued to add Mod. No. 26713P5392, Kits AO4 and AO5, modify Kit AO1 and add aircraft MSN 0702, 0748, 0780, 0783, 0788, 0798, 0804, 0820, 0824, 0825 and 0826 for operator UAL.

Also, this revision is issued to inform the operators having accomplished subject Service Bulletin per Revision No. 01 that they have to apply Config. 0.3

The additional work described in this revision requires 51.0 manhours. Accomplishment of the additional work may be done at the operator's convenience.

CHANGES

HEADING

- HEADING
Mod. No. 26713P5392

SUMMARY:

- REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES Evaluation table updated.
- EFFECTIVITY Operators updated. Mod. No. 26713P5392 added to the NOTE.
- MANPOWER
 Updated. Config. 01, Config. 02 and Config. 03 added.
- MATERIAL INFORMATION Kits AO1 and AO2 updated. Kits AO4 and AO5 added.
- Figure

5 DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

Modified.

PLANNING INFORMATION:

- EFFECTIVITY

Effectivity updated. Mod. No. 26713P5392 added to the NOTE. Kits AO4 and AO5 added. Config. O1, Config. O2, Config. O3 and related NOTES added.

- DESCRIPTION

Config. 01, Config. 02 and Config. 03 added.

- MANPOWER

Updated. Config. 01, Config. 02 and Config. 03 added.

- WEIGHT AND BALANCE

Updated. Config. 01, Config. 02 and Config. 03 added.

- REFERENCES

AMM references updated.

- PUBLICATIONS AFFECTED

AWM and IPC references updated.

MATERIAL INFORMATION :

MATERIAL - PRICE AND AVAILABILITY
 Kits A04 and A05 added, kit prices updated.

- LIST OF COMPONENTS

Kits A01 and A02 updated. Kits A04 and A05 added.

- LIST OF MATERIALS - OPERATOR SUPPLIED

Mat. No. 16-001 added.

ACCOMPLISHMENT INSTRUCTIONS :

GENERAL

AMM reference 52-12-11 becomes 53-12-11. Removal of the forward galley unit added. Sentence concerning Mat. No. 16-001 added.

- MODIFICATION

Paragraph updated. Config. 01, Config. 02 and Config. 03 added. Figure references updated.

- TESTS

Paragraph (1), installation of the forward galley unit and connection of the battery connectors added. Paragraph (2), updated to add Config. 01, Config. 02 and Config. 03. Test after the removal/installation of the forward galley unit added.

- CLOSE-UP

AMM reference updated.

- Figure 1

Title updated.

- Figure 2

Added.

- Figure 3

Title and figure updated. Sheet 2 added.

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112



SERVICE BULLETIN REVISION TRANSMITTAL SHEET

- Figure 4 Title and figure updated.
- Figure 5 Title updated.
- Figure 6 Title updated.
- Figure 7 Title updated.
- Figure 8 Title updated.
- Figure 9 Title updated.
- Figure 10 Title updated.
- Figure 11 Title updated.
- Figure 12 Title updated. Figure 13 becomes Figure 12 Sheet 3.
- Figure 13
 Title and figure updated. Sheet 2 added.
- Figure 14 Title and figure updated.
- Figure 15 Title and figure updated.
- Figure 16 Title and figure updated.
- Figure 17
 Title and figure updated. Sheet 1 added.
- Figure 18 Title and figure updated.
- Figure 19 Title and figure updated.
- Figure 20 Added.
- Figure 21 Title updated.
- Figure 22 Title and figure updated.
- Figure 23 Title and figure updated.
- Figure 24

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112



SERVICE BULLETIN REVISION TRANSMITTAL SHEET

Title and figure updated.

- Figure 25 Title and figure updated.
- Figure 26 Title and figure updated.
- Figure 27 Title and figure updated.
- Figure 28 Added.
- Figure 29

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.

HISTORY OF PREVIOUS REVISIONS

Revision No. 01 issued to add one bundle, supplied in new kit AO3.

REVISION SEQUENCE

ORIGINAL: Aug 06/98

REVISION No. : 01 - Nov 04/99 REVISION No. : 02 - Dec 21/00

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



SERVICE BULLETIN SUMMARY

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
Fax : (33) 5 61 93 42 51

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

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - RELOCATE

COCKPIT TEMPERATURE REGULATION SENSOR.

MODIFICATION No.: 26601P4974 26602P4973 26713P5392

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

One operator reported that the crew felt cold in the cockpit, particularly during long night flights. Investigation revealed that the low temperature was due to the location of the temperature sensor, fitted at the upper part of the cockpit.

Since the operator usually closes the cockpit air outlets, the air circulation within the cockpit is reduced, which leads to differential temperatures being felt, warmer temperatures at ceiling level and colder temperatures at feet level.

This Service Bulletin relocates the temperature sensor at mid-height, on the Rear Panel 120VU.

Accomplishment of this Service Bulletin leads to a better temperature control in the cockpit, thus improving crew comfort.

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)	See SB								

EFFECTIVITY

This Service Bulletin is applicable to this/these operator(s):

AAA AAR ABB ACA ADR AEF AEL AES AFR AIH AJM ALK AMC AMM AMU ANA AUA AWE AZA BAW
BMA BXI C3J CDN CIB CJG CMM CNW CSC CSN CTN CYP DLH EIN EWG FTI GFA HDA HVN IAC
IBE IWD JMC KAC LAJ LFA LRC LTU LXR MEA MON MSR MXA NWA OHY OYC PAL RJA RYN SAA
SEU SHK SSV SWR TAI TAP TAR TAS TLA TNA TRZ UAL VIR VLE

5 DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN SUMMARY

NOTE: Mod. No. 26601P4974 is embodied before delivery on aircraft MSN 0702, 0748, 0751, 0759, 0780, 0783, 0788, 0798, 0804, 0820, 0824, 0825, 0826, 0833and subsequent.

Mod. No. 26602P4973 is embodied before delivery on aircraft MSN 0702, 0748, 0780, 0783, 0788, 0798, 0804, 0820, 0824, 0825, 0826, 0833and

subsequent.

Mod. No. 26713P5392 is embodied before delivery on aircraft MSN 0833and

subsequent.

CONCURRENT REQUIREMENTS

None

REFERENCES/REPERCUSSIONS

TFU : None

OEB : None

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

Config. 01

config. of	
TOTAL MANHOURS	79.0
ELAPSED TIME (HOURS)	44.0
Config. 02	
TOTAL MANHOURS	63.0
ELAPSED TIME (HOURS)	32.0
Config. 03	
TOTAL MANHOURS	51.0
ELAPSED TIME (HOURS)	25.0

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN SUMMARY

MATERIAL INFORMATION

AIRCRAFT DATA

Kit 211112A01

Placard sets, silencer, ducts, box assy, seals, mesh, plate assy, brackets, sleeves, ceiling panel, connector.

Kit 211112A02

Silencer, ducts, box assy, seals, mesh, ceiling panel.

Kit 211112A03

Bundle

Kit 211112A04

Bundle

Kit 211112A05

Bundle

APPENDICES

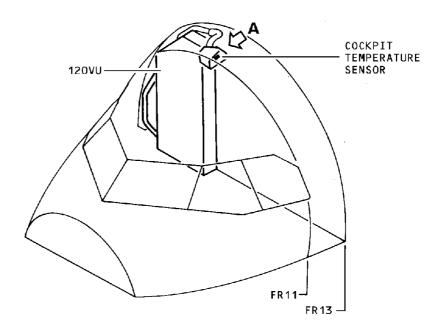
None

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

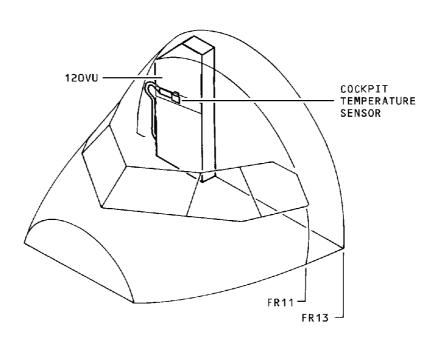


SERVICE BULLETIN SUMMARY

BEFORE



AFTER



DATE : Aug 06/98

SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00

Page: 4

__ NSB5 211112 \$U 01 d

SERVICE BULLETIN

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 Fax : (33) 5 61 93 42 51

ATA SYSTEM: 21

I

TITLE : AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - RELOCATE

COCKPIT TEMPERATURE REGULATION SENSOR.

MODIFICATION No.: 26601P4974 26602P4973 26713P5392

This document contains Airbus Industrie PROPRIETARY INFORMATION and shall at all times remain the property of Airbus Industrie; no intellectual property right or licence is granted by Airbus Industrie in connection with any information contained in it. It is delivered on the express condition that said document and the information contained in it shall be treated as confidential, shall not be used for any purpose other than that for which it is hereby delivered. It shall not be disclosed in whole or in part to third parties and shall not be duplicated in any manner (except for the purposes of performing the tasks described hereunder and provided that any recipient of such document shall comply with the conditions herein), without Airbus Industrie's prior written consent.

1. PLANNING INFORMATION

A. <u>EFFECTIVITY</u>

(1) Models

319-111 319-112 319-113 319-114 319-131 320-111 320-211 320-212 320-214 320-231 320-232 320-233 321-111 321-112 321-131 321-211 321-231

- (2) Aircraft
 - (a) Effectivity by MSN

This Service Bulletin is applicable to Aircraft MSN:

0002-0008

0010-0014 0016-0078 0080-0104 0106-0432 0434-0480 0482-0535 0537-0707 0709-0832

NOTE: Mod. No. 26601P4974 is embodied before delivery on aircraft MSN 0702, 0748, 0751, 0759, 0780, 0783, 0788, 0798, 0804, 0820, 0824, 0825, 0826, 0833and subsequent.

Mod. No. 26602P4973 is embodied before delivery on aircraft MSN 0702, 0748, 0780, 0783, 0788, 0798, 0804, 0820, 0824, 0825, 0826, 0833and subsequent.

Mod. No. 26713P5392 is embodied before delivery on aircraft MSN 0833and subsequent.

5 DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

(b) Effectivity by Operator

I

I

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.

ODEDATOR	MCN									
OPERATOR	MSN	0027	0027	0025	0024	0027	0020	0070	01/0	01/2
AAA		0023 0229								
AAD		0229	0200	0331	0547	0015	0022	0032	0002	0720
AAR ABB	0771	0349								
		0068	0077	0007	0122	0124	0127	01/1	0140	0150
ACA		0159								
		0290								
		0290								
		0672								
		0728								
								0757	0769	0773
ADD		0785		0013	0017	0029	0631			
ADR		0113 0575		0450	0441	0447	0707	0702		
AEF AEL		0131		0039	0001	0007	0101	0192		
		0743	0132							
AES			0007	0005	0007	0010	0013	0017	001/	0014
AFR		0003								
		0020 0102								
		0156								
		0220								
		0285 0529								
									0637	0044
A T ! !		0660							0000	0027
AIH		0164							UOUO	0623
AJM		0528 0406	0024	0020	0020	0630	0000	0775		
ALK										
AMC		0293	0727	0774	0477	0701				
AMM		0292								
AMU		0557					0104	0212	0210	02/5
ANA		0139								
		0328						0507	0551	0554
A 11 A		0554					0011			
AUA		0570					0044	0047	0074	0077
AWE		0053								
		0082								
	0803	0448	0455	0455	0471	0527	0545	0564	0762	0770
A 7 A		0477	0/00	0/0/	0/05	0517	051/	0515	0514	0527
AZA		0532								U J Z 4
DΛIJ		0008								0120
BAW BMA		0810	0011	0017	0018	0039	0042	0103	0109	0120
BMA BXI	0591	0010								
C3J		0799	USSS							
630	0112	ללוט	0020							

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



SERVICE BULLETIN

	OPERATOR	MSN									
	CDN	0174	0175	0210	0231	0232	0279	0283	0284	0302	0305
		0309	0403	0404							
	CIB		0793	0809							
	CJG	0707									
	CMM			0427	0579	0645	0671				
	CNW	0665									
•	CSC		0551								
I	CSN			0704	0705	0709	0710	0712	0718	0720	0722
	CTN	0258		0077	0070	0400	0257	0205	0747		
	CYP				0038					0007	010/
	DLH				0072 0117						
					0209						
					0412						
					0560						
					0636						
					0717					0007	0072
	EIN	0815	00,,	0.00	0	0.25	0.27	0.00	.		
	EWG		0654	0794							
	FTI	0230	0338	0429	0437	0444	0476				
	GFA	0313	0325	0345	0375	0419	0421	0438	0445	0459	0466
		0497	0537								
	HDA	0633	0756	0784	0816						
	HVN	0590	0594	0601	0605	0607	0611	0617	0619	0648	0650
	IAC				0048						
					0089						
					0432						
	IBE				0146						
				0240	0241	0246	0264	0266	0274	0303	0312
	TUE	0323		0747							
1	IWD		0308		0394	0/11	0//7	071/	0714	0770	0775
I	JMC KAC		0182		0394	0411	0443	0714	0716	0730	0735
	LAJ		0386								
I	LFA		0604								
•	LRC				0558	0561					
	LTU	0530									
	LXR	0395									
-	MEA	0640	0663	0668	0676						
	MON	0379	0389	0391	0392	0446					
	MSR	0165	0166	0178	0194	0198	0351	0366	0680	0687	0715
_		0725									
	MXA	0252	0259	0260	0261	0275	0276	0280	0296	0320	0321
					0368						
	NWA				0040						
					0160						
					0273						
					0339						
					0388					U41/	U418
		0/66	טווא	0786	0801	υδυγ	υδΊδ	U83U	U852		

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

OPERATOR	MSN									
ОНҮ	0364	0385								
OYC	0221	0222	0294	0299	0301					
PAL	0706	0745	0753							
RJA	0087	8800	0289	0407	0569					
RYN	0362	0363	0573							
SAA	0243	0249	0250	0251	0334	0335	0440			
SEU	0653	0657	0737	0749						
SHK	0322	0326	0344	0478						
SSV	0496	0525	0795							
SWR	0517	0519	0520	0522	0533	0535	0541	0545	0548	0553
	0559	0562	0566	0574	0577	0578	0585	0588	0596	0603
	0612	0621	0629	0635	0642	0643	0664	0673	0681	0701
	0703	0713	0727	0734	0782	0827				
TAI	0733	0741	0747	0789						
TAP	0185	0191	0234	0750	0755	0763	0790	0821		
TAR	0119	0123	0124	0205	0370	0390	0402	0511		
TAS	0371	0814								
TLA	0247	0257	0405	0414	0415	0428	0430	0758	0760	
TNA	0441	0538	0555	0602	0606	0731	0746	0791	0812	0822
TRZ	0347	0373	0447							
UAL	0435	0439	0442	0450	0452	0454	0456	0457	0462	0463
	0464	0465	0470	0472	0475	0479	0483	0485	0487	0489
	0500	0503	0504	0506	0508	0510	0512	0523	0539	0568
	0571	0587	0589	0592	0613	0638	0655	0678	0683	0686
	0690	0702	0748	0751	0759	0780	0783	0788	0798	0804
	0820	0824	0825	0826						
VIR	0764									
VLE	0189	0190	0235	0343	0420	0436	0542			

(c) Effectivity by MSN and Kit/Configuration

MSN

I

I

0002-0008

0010-0014 0016-0078 0080-0104 0106-00432 0434-0480 0482-0535 0537-0701 0703-0707 0709-0747 0749-0750 0752-0758 0760-0779 0781-0782 0784-0787 0789-0797 0799-0803 0805-0819 0821-0823 0827-0832

KIT No.	QTY PER A/C	CONFIGURATION
211112A01	1	01
211112A03	1	01
211112A04	1	01
211112A05	1	01

NOTE (1) Config. 01 concerns Mod. No. 26601P4974, Mod. No. 26602P4973 and Mod. No. 26713P5392.

MSN

0751 0759

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

KIT No.	QTY PER A/C	CONFIGURATION
211112A02	1	02
211112A05	1	02

NOTE (2) Config. 02 concerns Mod. No. 26602P4973 and Mod. No. 26713P5392.

MSN

0702 0748 0780 0783 0788 0798 0804 0820 0824-0826

KIT No. QTY PER A/C CONFIGURATION
211112A05 1 03

NOTE (3) Config. 03 concerns Mod. No. 26713P5392.

(3) Spares

None

B. CONCURRENT REQUIREMENTS

None

C. REASON

(1) History

One operator reported that the crew felt cold in the cockpit, particularly during long night flights. Investigation revealed that the low temperature was due to the location of the temperature sensor, fitted at the upper part of the cockpit. Since the operator usually closes the cockpit air outlets, the air circulation within the cockpit is reduced, which leads to differential temperatures being felt, warmer temperatures at ceiling level and colder temperatures at feet level.

(2) Objective/Action

This Service Bulletin relocates the temperature sensor at mid-height, on the Rear Panel 120VU.

(3) Advantages

Accomplishment of this Service Bulletin leads to a better temperature control in the cockpit, thus improving crew comfort.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

I

To accomplish this Service Bulletin it is necessary to :

- (1) Config. 01
 - (a) Modify the equipment and the wiring in the cockpit
 - (b) Modify the equipment and the wiring in the Rear Panel 120VU

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

- (c) Modify the wiring in the Shelf 93VU in the FWD electronics rack
- (d) Modify the wiring between the Rear Panel 120VU and the Shelf 93VU in the FWD electronics rack
- (2) Config. 02

- (a) Modify the equipment and the wiring in the cockpit
- (b) Modify the equipment and the wiring in the Rear Panel 120VU
- (c) Modify the wiring in the Shelf 93VU in the FWD electronics rack
- (3) Config. 03
 - (a) Modify the equipment and the wiring in the cockpit
 - (b) Modify the wiring in the Shelf 93VU in the FWD electronics rack

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 status. The manhours/elapsed time estimates do not include the time to prepare for the modification, non-productive elapsed time or administration.

Config. 01

Get access	17.0
Modify the cockpit	6.0
Modify the 120VU	12.0
Modify the wiring in the 93VU	4.0
Modify the wiring between 120VU and 93VU	5.0
Tests	14.0
Close-up	21.0

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112



SERVICE BULLETIN

TOTAL MANHOURS	79.0
ELAPSED TIME (HOURS)	44.0
Config. 02	
Get access	17.0
Modify the cockpit	6.0
Modify the 120VU	12.0
Modify the wiring in the 93VU	4.0
Tests	3.0
Close-up	21.0
TOTAL MANHOURS	63.0
ELAPSED TIME (HOURS)	32.0
Config. 03	
Get access	17.0
Modify the cockpit	6.0
Modify the wiring in the 93VU	4.0
Tests	3.0
Close-up	21.0
TOTAL MANHOURS	51.0
ELAPSED TIME (HOURS)	25.0

H. WEIGHT AND BALANCE

Config. 01

Manufacturers Empty Weight : -0.069 kg (-0.1521 lb)

Effect on Balance : -0.896 kgm (-6.480 lb.ft)

Config. 02

Manufacturers Empty Weight : -0.780 kg (-1.7195 lb)

Effect on Balance : -4.849 kgm (-35.072 lb.ft)

Config. 03

Manufacturers Empty Weight: -0.890 kg (-1.9621 lb)

Effect on Balance : -5.246 kgm (-37.944 lb.ft)

I. <u>ELECTRICAL LOAD DATA</u>

Not changed

J. REFERENCES

Aircraft Maintenance Manual (AMM) : 05-22-10 12-34-24 20-28-00 21-21-00 21-26-00 21-28-00 21-31-00 21-63-17 21-63-34

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



SERVICE BULLETIN

22-60-00 23-13-00 23-73-00 24-21-00 24-22-55 24-23-55 24-27-00 24-32-00 24-32-55 24-38-51 24-41-00 24-41-55 24-42-55 24-43-55 24-51-55 24-61-55 25-11-00 25-13-41 25-31-41 25-65-33 26-12-00 26-21-00 26-22-00 27-64-00 27-92-15 27-92-41 27-94-34 28-21-00 28-26-00 28-28-00 28-46-00 29-22-00 29-31-00 29-34-00 30-21-00 30-31-00 30-42-00 30-45-00 31-33-00 31-50-00 31-60-00 32-31-71 32-42-00 32-45-00 32-49-00 33-42-00 34-10-00 34-48-00 34-58-00 49-42-55 52-10-00 52-12-11 52-30-00 52-31-00 52-41-00 52-71-00 53-12-11 73-25-34 77-32-34

Aircraft Wiring Manual (AWM) : 20-00-00 20-60-00 93-00-93

Consumable Material List (CML)

Structural Repair Manual (SRM) : 51-23-11 51-44-00 51-46-11

K. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM) : 21-63-17

Aircraft Wiring Manual (AWM) : 21-63-01 91-72-40

Illustrated Parts Catalog (IPC) : 21-63-01 24-92-01 25-13-01

25-14-01 25-71-11

Trouble Shooting Manual (TSM) : 21-63-00

Aircraft Wiring Lists (AWL)

L. INTERCHANGEABILITY/MIXABILITY

None

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

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 211112A01

Cost: 4,243 US Dollars

Availability: 120 Calendar days from receipt of order

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

Kit 211112A02

Cost : 2,699 US Dollars

Availability: 120 Calendar days from receipt of order

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

Kit 211112A03

Cost: 160 US Dollars

Availability: 120 Calendar days from receipt of order

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

Kit 211112A04

Cost : 480 US Dollars

Availability: 120 Calendar days from receipt of order

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

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

Kit 211112A05

Cost : 350 US Dollars

Availability: 120 Calendar days from receipt of order

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

B. INDUSTRY SUPPORT INFORMATION

None

C. LIST OF COMPONENTS

Kit 211112A01

ITEM	NEW PART No.	QTY UM	KEYWORD	ITEM	OLD	PART	No.	INT	INST	DISP
1	A2121212520200	2	Sleeve							
2	ASNA0033-036	6	Clamp							
3	ASNA2050DCJ3215	4	Rivet							
4	ASNA2397-10L	12	Washer							
5	D0003005400900	1	Silencer							
7	D2161017600000	1	Duct							
8	D2161018000000	1	Box							
9	D2161018420000	2	Seal							
10	D2161018500000	1	Pipe							
11	D2161018600000	1	Pipe							
12	D2161018700000	1	Mesh							
13	D2511183200000	1	Panel							
14	D5391748500000	2	Bracket							
15	D9251399000000	1	Plate							
16	E0080-01-10C	1	BCKSHLL							
17	EN3545D01MXA15A	1	CNCTR						(01)	
18	EN3545D01FXB15A	1	RCPT						(02)	
19	EN3545SCD	1	BCKSHLL							
20	E0432A06	1	Conduit							
21	E0052R10B6SNF	1	CNCTR							
22	NAS1096-3-8	7	Screw							
23	NAS1096-3-9	2	Screw							
24	NAS1096-3-15	3	Screw							
25	NAS1100-04-7	4	Screw							
26	NAS1102-06-10	2	Screw							
27	NAS1102-3-11	4	Screw							
28	NAS1726-3	1	Nut							

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

ITEM	NEW PART No.	QTY UM	KEYWORD	ITEM	OLD PAR	T No.	INT INST DISP
29	NSA5516-13ND	2	Clamp				
30	NSA5516-27ND	2	Clamp				
31	NSA5516-28ND	2	Clamp				
32	NSA5516-33ND	1	Clamp				
33	NSA5516A28ND	2	Clamp				
	D9100095105395	1	PLCRDSET				
	D9251118800000	1	PLCRDSET				
	NSA935401-03	100	Tie				
	NSA935401-04	200	Tie				
	NSA935401-06	200	Tie				
	OTE (O1) PN suppl OTE (O2) PN suppl						
K	it 211112A02						
ITEM	NEW PART No.	QTY UM	KEYWORD	ITEM	OLD PAR	T No.	INT INST DISP
1	A2121212520200	2	Sleeve				
2	ASNA0033-036	6	Clamp				
4	ASNA2397-10L	7	Washer				
5	D0003005400900	1	Silencer				
7	D2161017600000	1	Duct				
8	D2161018000000	1	Box				
9	D2161018420000	2	Seal				
10	D2161018500000	1	Pipe				
11	D2161018600000	1	Pipe				
12	D2161018700000	1	Mesh				
13	D2511183200000	1	Panel				
22	NAS1096-3-8	4	Screw				
24	NAS1096-3-15	3	Screw				
25	NAS1100-04-7	4	Screw				
26	NAS1102-06-10	2	Screw				
27	NAS1102-3-11	4	Screw				
28	NAS1726-3	1	Nut				
31	NSA5516-28ND	2	Clamp				
32	NSA5516-33ND	1	Clamp				
33	NSA5516A28ND	2	Clamp				
K	it 211112A03						
ITEM	NEW PART No.	QTY UM	KEYWORD	ITEM	OLD PAR	T No.	INT INST DISP
	D9000095117095	1	Bundle				
K	it 211112A04						
ITEM	NEW PART No.	QTY UM	KEYWORD	ITEM	OLD PAR	T No.	INT INST DISP

Kit 211112A05

D9000095120295 1 Bundle

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



SERVICE BULLETIN

ITEM	NEW PART No.	QTY UN	1 KEYWORD	ITEM	OLD PART No.	INT INST DISP
	D9000095120395	1	Bundle			
	NSA935401-03	10	Tie			
	NSA935401-04	10	Tie			

D. LIST OF MATERIALS - OPERATOR SUPPLIED

DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C INST DISP
Solvent	11-026	As required
Anti-Corrosion Primer	16-001	As required
Primer Coating Epoxy	16-006	As required
Polyurethane Finish Paint	16-018	As required
Wash Primer	16-020	As required
Lockwire MS20995C32	None	As required

E. PARTS TO BE RE IDENTIFIED BY THE OPERATOR

None

F. TOOLING - PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

<u>WARNING</u>: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

(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 passenger/crew door 831, (Refer to AMM 52-10-00 Page block 201).
- (e) Open the avionics doors 811, 822 and 824, (Refer to AMM 52-41-00 Page block 1).
- (f) Open the cargo door 825, (Refer to AMM 52-30-00 Page block 201).
- (g) Remove the floor panel 212PF, (Refer to AMM 53-12-11 Page block 401).
- (h) Remove the assembly panels 212JW, 212HW, (Refer to AMM 05-22-10 Page block 601) and the panel on the RH side of the Rear Panel 120VU.
- (i) Open, safety and tag these circuit breakers:

PANEL	DESIGNATION	FIN	LOCATION
105VU	FLT CTL/ELAC1/STBY SPLY	16CE1	01 A
105VU	FLIGHT CONTROLS/ELAC2/STBY SPLY	16CE2	02 A
105VU	FLT CTL/SEC1/STBY SPLY	22CE	01 B
105VU	ADIRS/ADIRU1/28VDC	6FP1	02 C
105VU	ELEC/HOT BUS/701PP SPLY	5PB1	01 D
105VU	ELEC/HOT BUS/702PP SPLY	5PB2	02 D
105VU	ELEC/BAT REF/BCL1	9PB1	01AS
105VU	ELEC/BAT REF/BCL2	9PB2	01AS
105VU	ELEC/HOT BUS/701PP SPLY	12PB1	01 E
105VU	ELEC/HOT BUS/702PP SPLY	12PB2	02 E
105VU	ELEC/STAT INV/CNTOR/CTL	14XB	02 G
105VU	ELEC/CSM/G /EV AUTO/SPLY	7XE	01 C
106VU	CSM/G /EV/MAN/SPLY	6XE	04 B
122VU	ELEC/EXT PWR/CTL	11XG	29 X
123VU	GND/PWR/PROT	2 X G	07AB
123VU	APU GEN/EGIU2/115VAC	23XS	AA80
123VU	GEN1/EGIU1/115VAC	23XU1	12AF
123VU	GEN2/EGIU2/115VAC	23XU2	01 A F
125VU	BAT BUS/301PP/SPLY	11PB	0100

(j) Disconnect the battery connectors, (Refer to AMM 24-38-51 Page block 501).

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

(k) Remove the forward galley unit, (Refer to AMM 25-31-41 Page block 401).

(2) Standard Practices

- (a) For the specification of the material numbers (Mat. No.), refer to the CML .
- (b) Clean the work area with Solvent (Mat. No. 11-026) .
- (c) Put blanking caps on the disconnected electrical connectors.
- (d) Cut solid rivets to the necessary length.
- (e) Drill and deburr the holes, (Refer to SRM 51-44-00).
- (f) If necessary, countersink the holes, (Refer to SRM 51-46-11).
- (g) After drilling and cutting, apply Wash Primer (Mat. No. 16-020), Primer Coating Epoxy (Mat. No. 16-006) and Polyurethane Finish Paint (Mat. No. 16-018) to the affected areas.
- (h) Do the electrical bonding, (Refer to AMM 20-28-00 Page block 201).
- (i) Obey the instructions of the wiring installation, (Refer to AWM 20-60-00).
- (j) Renew the protective finish with Anti-Corrosion Primer (Mat. No. 16-001), (Refer to SRM 51-23-11).

B. MODIFICATION

- (1) Config. 01
 - (a) Modify the equipment and the wiring in the cockpit Refer to figures 1 , 2 , 3 , 4 , 7 , 13 , 20 and 25
 - $\frac{1}{2}$ Remove the temperature sensor 21HK: (Refer to AMM 21-63-17 Page block 401)
 - 1 Temperature Item (40) Retain Sensor
 - Remove the panel 211HC: (Refer to AMM 25-13-41 Page block 401) Refer to figure 1
 - 1 Panel Item (13) Discard
 - $\underline{3}$ Remove the wires shown on the lines 1 thru 9 (Refer to figure 25).
 - $\frac{4}{\text{Refer to figure 13}}$
 - 5 Install the panel 211HC: (Refer to AMM 25-13-41 Page block 401) Refer to figure 1
 - 1 Panel D2511183200000 Item 13

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

6 From the plate assy, connectors and recep				
7 Remove : Refer to figure 7				
 Plate Assy Discard the hardware).	Item (15)	Discard	
<u>8</u> Below the floor, rem Refer to figure 3	nove :			
1 Duct With:	D2161001800000	Item (42)	Discard	
2 Sleeve		Item (43)	Discard	
4 Clamp		Item (44)	Discard	
1 Clamp		Item (60)	Discard	
9 Install : Refer to figure 4				
1 Duct With:	D2161017600000	Item 7		
2 Sleeve	A2121212520200	Item 1		
4 Clamp	ASNA0033-036	Item 2		
2 Washer	ASNA2397-10L	Item 4		
2 Screw	NAS1096-3-8	Item 22		
1 Nut	NAS1726-3	Item 28		
1 Clamp	NSA5516-33ND	Item 32		
2 Clamp	NSA5516A28ND	Item 33		
10 In front of FR13, or Refer to figure 3	n the RH side, re	move :		
1 Duct With:		Item (61)	Discard	
3 Clamp		Item (60)	Discard	
11 From the forward re- and from the Aft Cro Refer to figure 2	•		ctrical bay	
1 Fitting 2 Fitting With:		Item (62) Item (64)		
2 Rivet		Item (63)	Diagond	
4 Rivet		Item (65)		
Modify the equipment and the wiring in the Rear Panel 120VU Refer to figures 5 , 6 , 7 , 9 , 10 , 11 , 12 , 13 , 19 and 24				
<u>1</u> From the routing 1M, Refer to figure 12	, remove :			
2 Clamp		Item (29)	Discard	

NOTE: Retain the hardware for the installation.

SERVICE BULLETIN No.: A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 15

(b)

DATE : Aug 06/98

SERVICE BULLETIN

```
2 From the routings 2M and 2P, remove:
  Refer to figure 12
2 Clamp
                                      Item (46) Discard
  NOTE: Retain the hardware for the installation.
3 On the front face of the Rear Panel 120VU, drill the holes,
  (Refer to figure 5).
4 On the RH side of the Rear Panel 120VU, drill the holes,
  (Refer to figure 6).
5 On the RH side of the Rear Panel 120VU, put in position and
  attach:
  Refer to figures 6 and 9
                      D5391748500000 Item 14
     Bracket
  With:
    Rivet
                      ASNA2050DCJ3215 Item 3
6 Install:
  Refer to figure 7
     Plate Assy-Side
                      D9251399000000 Item 15
  With:
                      ASNA2397-10L
                                      Item 4
     Washer
                      NAS1096-3-8
2
                                      Item 22
     Screw
                      NAS1096-3-9
                                      Item 23
2
    Screw
7 Install:
  Refer to figures 10 and 11
2
                      ASNA0033-036
     Clamp
                                      Item 2
5
     Washer
                      ASNA2397-10L
                                      Item 4
                      D0003005400900 Item 5
1
     Silencer
     Sensor Box Assy D2161018000000 Item 8
1
2
     Seal
                      D2161018420000 Item 9
                      D2161018500000 Item 10
 1
     Duct
 1
                      D2161018600000 Item 11
     Duct
                    D2161018700000 Item 12
 1
     Mesh Assy
                                      Item 22
2
     Screw
                      NAS1096-3-8
                                      Item 24
3
                      NAS1096-3-15
     Screw
2
                     NAS1102-06-10 Item 26
     Screw
4
     Screw
                     NAS1102-3-11 Item 27
2
     Clamp
                     NSA5516-28ND
                                     Item 31
  FIN 21HK
     Temperature
                                      Item (40)
     Sensor
  With:
                      NAS1100-04-7
    Screw
                                      Item 25
  NOTE: Item (40) was retained at removal.
8 Install the connector 21HK-B:
 1
     Backshell
                      E0080-01-10C
                                      Item 16
                      E0052R10B6SNF
     Connector
                                      Item 21
```

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

Bond the placard identified 21HK, supplied in : D9100095105395 Placard Set 9 On the routing 1M, install: Refer to figure 12 Conduit E0432A06 Item 20 Clamp Item 29 2 NSA5516-13ND NOTE: Use the hardware retained at removal. 10 On the routings 2M and 2P, install: Refer to figure 12 NSA5516-27ND Clamp Item 30 NOTE: Use the hardware retained at removal. 11 On the plate assy: Refer to figure 7 a Install all the connectors and receptacles retained at removal. b Install: Refer to figure 12 FIN 2238VC-A

1 Connector EN3545DO1MXA15A Item 17

FIN 2238VC

1 Receptacle EN3545DO1FXB15A Item 18

FIN 2238VC-A1

1 Backshell EN3545SCD Item 19

Bond the placards, supplied in :

1 Placard Set D9251118800000

12 Install 1 ground point 1278VN with: Refer to figure 12

1 Washer ASNA2397-10L Item 4 1 Screw NAS1096-3-8 Item 22 Bond the placard identified 1278VN, supplied in :

Placard Set D9100095105395

13 Install the wires shown on the lines 1 thru 9 (Refer to figure 24), supplied in:

Bundle D9000095120295

and route them with the wires that are in the aircraft.

NOTE: Use the conduit Item 20 to route the new wires.

- $\underline{14}$ Cut the wires to the necessary length, crimp the terminals and connect them.
- 15 Attach the wires with:

10 Tie-Cable NSA935401-03 10 Tie-Cable NSA935401-04

16 Do a continuity test of the new electrical wires.

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

(c) Modify the wiring in the Shelf 93VU in the FWD electronics rack

Refer to figures 14, 17, 21 and 22

<u>1</u> From the Shelf 93VU, remove the items of equipment 1CE3, 5GA1, 5GA2 and 8HK:

(Refer to AMM 21-63-34 Page block 401) (Refer to AMM 27-94-34 Page block 401) (Refer to AMM 32-31-71 Page block 401)

1 SEC 3 Retain
1 LGCIU 1 Retain
1 LGCIU 2 Retain
1 Zone Controller Retain

- 2 Remove the Shelf 93VU:
 - a Disconnect the connectors, (Refer to AWM 93-00-93).
 - b Disconnect the bonding braid.
 - <u>c</u> Remove the shelf from the electronics rack in the aircraft and install it on bench.

NOTE: Retain the attachment hardware for the installation.

3 On bench:

I

- $\underline{\mathbf{a}}$ Remove the wires shown on the lines 1 thru 10 (Refer to figure 21).
- \underline{b} Install the wires shown on the lines 1 thru 10 (Refer to figure 22), supplied in :

Bundle D9000095120395 and route them with the wires that are in the Shelf 93VU.

- <u>c</u> Cut the wires to the necessary length, crimp the terminals and connect them.
- d Attach the wires with:

10 Tie-Cable NSA935401-03 10 Tie-Cable NSA935401-04

- e Do a continuity test of the new electrical wires.
- $\underline{4}$ Install the Shelf 93VU in the electronics rack on the aircraft and connect the connectors.

NOTE: Use the attachment hardware retained at removal.

- 5 Install the bonding braid.
- On the Shelf 93VU, install the items of equipment 1CE3, 5GA1, 5GA2 and 8HK:

(Refer to AMM 21-63-34 Page block 401)

(Refer to AMM 27-94-34 Page block 401)

(Refer to AMM 32-31-71 Page block 401)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

1 SEC 3

1 LGCIU 1

1 LGCIU 2

1 Zone Controller

NOTE: These items of equipment were retained at removal.

- (d) Modify the wiring between the Rear Panel 120VU and the Shelf 93VU in the FWD electronics rack Refer to figures 18 and 23
 - $\frac{1}{2}$ Install the wires shown on the lines 1 thru 10 (Refer to figure 23), supplied in :

Bundle D9000095120295
Bundle D9000095117095

and route them with the wires that are in the Shelf 93VU.

- 2 Cut the wires to the necessary length, crimp the terminals and connect them.
- 3 Attach the wires with:

80 Tie-Cable NSA935401-03 180 Tie-Cable NSA935401-04 200 Tie-Cable NSA935401-06

- 4 Do a continuity test of the new electrical wires.
- (2) Config. 02

I

- (a) Modify the equipment and the wiring in the cockpit Refer to figures 1, 2, 3, 4, 13, 20 and 25
 - Remove the temperature sensor 21HK: (Refer to AMM 21-63-17 Page block 401)
 - 1 Temperature Item (40) Retain Sensor
 - Remove the panel 211HC:
 (Refer to AMM 25-13-41 Page block 401)
 Refer to figure 1
 - 1 Panel Item (13) Discard
 - Remove the wires shown on the lines 1 thru 9(Refer to figure 25).
 - $\frac{4}{\text{Refer to figure 13}}$
 - 5 Install the panel 211HC: (Refer to AMM 25-13-41 Page block 401) Refer to figure 1
 - 1 Panel D2511183200000 Item 13
 - $\underline{\underline{6}}$ Below the floor, remove: Refer to figure 3

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

	1	Duct	D2161001800000	Item	(42)	Discard
		With:				
	2	Sleeve			(43)	
	4	Clamp				Discard
	1	Clamp		Item	(60)	Discard
	<u>7</u>	Install :				
		Refer to figure 4				
	1	Duct	D2161017600000	Item	7	
		With:				
	2	Sleeve	A2121212520200	Item	1	
	4	Clamp	ASNA0033-036	Item	2	
	2	Washer	ASNA2397-10L	Item	4	
	2	Screw	NAS1096-3-8	Item	22	
	1	Nut	NAS1726-3	Item	28	
	1	Clamp	NSA5516-33ND	Item	32	
	2	Clamp	NSA5516A28ND	Item	33	
	8	In front of FR13, or	n the RH side re	move		
	_	Refer to figure 3	in the kill stacy it		•	
	1	Duct		T t em	(61)	Discard
	-	With:		1 (6111	(01)	Discard
	3	Clamp		Item	(60)	Discard
	0	Enom the ferward no	inforcement plate	o.f. +1		atnical bay
	_	From the forward re			ne ete	ctricat bay
		and from the Aft Cro Refer to figure 2	ussbeam Zuvu, Tem	ove.		
	1	Fitting		T t om	(62)	Discard
	2	-				Discard
	_	With:		1 00111	(04)	Discuru
	2	Rivet		Ttom	(63)	Discard
	4	Rivet				Discard
	-					
(b)		lify the equipment a		the R	ear Pa	nel 120VU
	Ret	er to figures 8 , 10	U , 11 and 13			
	<u>1</u>	On the RH side of t	he Rear Panel 120	VU, r	emove	:
		Refer to figure 8				
	3	Washer	ASNA2397-10L	Item	(45)	Discard
	3	Nut	NAS1726-3E	Item	(46)	Discard
	3	Screw	NAS1096-3-10	Item	(55)	Discard
	2	Seal	D2161018420000		(48)	Discard
	2	Plate-Blanking	D2161017920000		(47)	Discard
	4	Screw	NAS1102-3-10	Item	(50)	Discard
	1	Plate Assy	D2161018200000	Item	(51)	Discard
	1	Plate-Blanking	D2161017800000	Item	(53)	Discard
	2	Seal	D2161019120000		(52)	
	2	On the RH side of t	he Rear Panel 120	VU, ii	nstall	:
	=	Refer to figures 10		-,		
	2	Clamp	ASNA0033-036	Item	2	
	5	Washer	ASNA2397-10L	Item		
	-	. .				

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

1	Silencer	D0003005400900	Item	5
1	Sensor Box Assy	D2161018000000	Item	8
2	Seal	D2161018420000	Item	9
1	Duct	D2161018500000	Item	10
1	Duct	D2161018600000	Item	11
1	Mesh Assy	D2161018700000	Item	12
2	Screw	NAS1096-3-8	Item	22
3	Screw	NAS1096-3-15	Item	24
2	Screw	NAS1102-06-10	Item	26
4	Screw	NAS1102-3-11	Item	27
2	Clamp	NSA5516-28ND	Item	31
	FIN 21HK			
1	Temperature		Item	(40
	Sensor			
	With:			
4	Screw	NAS1100-04-7	Item	25

NOTE: Item (40) was retained at removal.

- $\underline{\mathbf{3}}$ Connect the connector 21HK-B that you stowed to the temperature sensor 21HK.
- (c) Modify the wiring in the Shelf 93VU in the FWD electronics rack

Refer to figures 15 , 17 , 22 , 26 and 27

 $\underline{\mathbf{1}}$ From the Shelf 93VU, remove the items of equipment 1CE3, 5GA1, 5GA2 and 8HK :

)

(Refer to AMM 21-63-34 Page block 401) (Refer to AMM 27-94-34 Page block 401) (Refer to AMM 32-31-71 Page block 401)

1 SEC 3 Retain
1 LGCIU 1 Retain
1 LGCIU 2 Retain
1 Zone Controller Retain

- 2 Remove the Shelf 93VU:
 - a Disconnect the connectors, (Refer to AWM 93-00-93).
 - \underline{b} Disconnect the bonding braid.
 - \underline{c} Remove the shelf from the electronics rack in the aircraft and install it on bench.

NOTE: Retain the attachment hardware for the installation.

3 On bench:

- \underline{a} Remove the wires shown on the lines 1 thru 25 (Refer to figure 26) and 1 thru 5 (Refer to figure 27).
- \underline{b} On the Shelf 93VU, remove from the mounting rail of the terminal block assy 213VT:

The lockwire from the end-clamp attachment screws

1 End Clamp Retain

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

NSA937901MA2202 Module Discard in positions 12 and 13

- c Install on the mounting rail of the terminal block assy 213VT:
- End Clamp

NOTE: Use the end clamp retained at removal. Safety the screws in the end clamp with Lockwire MS20995C32.

d Install the wires shown on the lines 1 thru 10 (Refer to figure 22), supplied in :

D9000095120395 Bundle and route them with the wires that are in the Shelf 93VU.

- e Cut the wires to the necessary length, crimp the terminals and connect them.
- f Attach the wires with:

Tie-Cable NSA935401-03 10 10 Tie-Cable NSA935401-04

- g Do a continuity test of the new electrical wires.
- 4 Install the Shelf 93VU in the electronics rack on the aircraft and connect the connectors.

NOTE: Use the attachment hardware retained at removal.

- 5 Install the bonding braid.
- On the Shelf 93VU, install the items of equipment 1CE3, 5GA1, 5GA2 and 8HK:

(Refer to AMM 21-63-34 Page block 401) (Refer to AMM 27-94-34 Page block 401)

(Refer to AMM 32-31-71 Page block 401)

- SEC 3
- LGCIU 1 1
- LGCIU 2 1
- Zone Controller

NOTE: These items of equipment were retained at removal.

- (3) Config. 03
 - Modify the equipment and the wiring in the cockpit Refer to figures 1 , 2 , 3 , 13 , 20 and 25
 - Remove the panel 211HC: (Refer to AMM 25-13-41 Page block 401) Refer to figure 1
 - 1 Panel Item (13) Retain
 - 2 Remove the wires shown on the lines 1 thru 10 (Refer to figure 25).

SERVICE BULLETIN No.: A320-21-1112 DATE: Aug 06/98

SERVICE BULLETIN

	<u>3</u>		move the connector 21HK-A fer to figure 13			
	<u>4</u>	(Re	stall the panel 211HC : efer to AMM 25-13-41 Page block 401 fer to figure 1)		
	1		Panel	Item	(13)	
		NO	TE : Item (13) was retained at remo	val.		
	<u>5</u>		front of FR13, on the RH side, remfer to figure 3	iove :		
	1		Duct	Item	(61)	Discard
	3		th : Clamp	Ttem	(60)	Discard
	1		Cap			Discard
	1		Clamp	Item	(2)	Discard
	<u>6</u>	and	om the forward reinforcement plate d from the Aft Crossbeam 20VU, remo fer to figure 2		ne eleo	ctrical bay
	1		Fitting	Item	(62)	Discard
	2		Fitting	Item	(64)	Discard
	2		th : Rivet	T 4	((7)	Discard
	2		Rivet			Discard
(b)	ra	ck	y the wiring in the Shelf 93VU in t to figures 16 , 17 , 22 , 28 and 2		ID eled	ctronics
	1	5G/ (Re	om the Shelf 93VU, remove the items A1, 5GA2 and 8HK : efer to AMM 21-63-34 Page block 401 efer to AMM 27-94-34 Page block 401 efer to AMM 32-31-71 Page block 401)	equipme	ent 1CE3,
	1		SEC 3			Retain
	1		LGCIU 1			Retain
	1		LGCIU 2 Zone Controller			Retain Retain
		D				Retain
	2		move the Shelf 93VU:		07 /	
		<u>a</u>	Disconnect the connectors, (Refer	to AV	/M 93-0	JU-93).
		<u>b</u>	Disconnect the bonding braid.			
		<u>c</u>	Remove the shelf from the electron aircraft and install it on bench.	ics r	ack ir	n the
			NOTE: Retain the attachment hardwinstallation.	are 1	for the	9
	<u>3</u>	0n	bench :			
		<u>a</u>	Remove the wires shown on the line	s 1 t	hru 25	5 (Refer to

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

SERVICE BULLETIN

figure 28) and 1 thru 5 (Refer to figure 29).

 \underline{b} On the Shelf 93VU, remove from the mounting rail of the terminal block assy 213VT :

The lockwire from the end-clamp attachment screws

- 1 End Clamp Retain
- 2 Module NSA937901MA2202 Discard in positions 12 and 13
 - $\underline{\mathbf{c}}$ Install on the mounting rail of the terminal block assy 213VT:
- 1 End Clamp

NOTE: Use the end clamp retained at removal. Safety the screws in the end clamp with Lockwire MS20995C32.

 \underline{d} Install the wires shown on the lines 1 thru 10 (Refer to figure 22), supplied in :

Bundle D9000095120395 and route them with the wires that are in the Shelf 93VU.

- \underline{e} Cut the wires to the necessary length, crimp the terminals and connect them.
- f Attach the wires with:
- 10 Tie-Cable NSA935401-03 10 Tie-Cable NSA935401-04
 - g Do a continuity test of the new electrical wires.
- $\underline{4}$ Install the Shelf 93VU in the electronics rack on the aircraft and connect the connectors.

NOTE: Use the attachment hardware retained at removal.

- 5 Install the bonding braid.
- 6 On the Shelf 93VU, install the items of equipment 1CE3, 5GA1, 5GA2 and 8HK:

(Refer to AMM 21-63-34 Page block 401) (Refer to AMM 27-94-34 Page block 401) (Refer to AMM 32-31-71 Page block 401)

- 1 SEC 3
- 1 LGCIU 1
- 1 LGCIU 2
- 1 Zone Controller

NOTE: These items of equipment were retained at removal.

C. TEST

- (1) Job Set-Up
 - (a) Install the forward galley unit, (Refer to AMM 25-31-41

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

Page block 401).

- (b) Connect the battery connectors, (Refer to AMM 24-38-51 Page block 401).
- (c) Energize the aircraft electrical circuits, (Refer to AMM 24-41-00 Page block 201).
- (d) Remove the safety clips and tags and close these circuit breakers:

PANEL	DESIGNATION	FIN	LOCATION
105VU	FLT CTL/ELAC1/STBY SPLY	16CE1	01 A
105VU	FLIGHT CONTROLS/ELAC2/STBY SPLY	16CE2	02 A
105VU	FLT CTL/SEC1/STBY SPLY	22CE	01 B
105VU	ADIRS/ADIRU1/28VDC	6FP1	02 C
105VU	ELEC/HOT BUS/701PP SPLY	5PB1	01 D
105VU	ELEC/HOT BUS/702PP SPLY	5PB2	02 D
105VU	ELEC/BAT REF/BCL1	9PB1	O1AS
105VU	ELEC/BAT REF/BCL2	9PB2	O1AS
105VU	ELEC/HOT BUS/701PP SPLY	12PB1	01 E
105VU	ELEC/HOT BUS/702PP SPLY	12PB2	02 E
105VU	ELEC/STAT INV/CNTOR/CTL	14XB	02 G
105VU	ELEC/CSM/G /EV AUTO/SPLY	7XE	01 C
106VU	CSM/G /EV/MAN/SPLY	6XE	04 B
122VU	ELEC/EXT PWR/CTL	11XG	29 X
123VU	GND/PWR/PROT	2 X G	07AB
123VU	APU GEN/EGIU2/115VAC	23XS	08AA
123VU	GEN1/EGIU1/115VAC	23XU1	12AF
123VU	GEN2/EGIU2/115VAC	23XU2	01 A F
125VU	BAT BUS/301PP/SPLY	11PB	0100

(2) Tests

Ī

- (a) Config. 01
 - $\underline{1}$ Do the test after the removal/installation of the forward galley unit, (Refer to AMM 25-31-41 Page block 401).
 - On each connector that you disconnected, do a visual check to make sure that:

(Refer to AWM 20-00-00)

- The label of the connector is the same as as the label on the support plate
- The connector is correctly locked.
- <u>3</u> Do the test after the removal/installation of the batteries (2PB1, 2PB2), (Refer to AMM 24-38-51 Page block 401).
- 4 Test after the removal/installation of the Shelf 93VU in the FWD electronics rack
 - \underline{a} Do the test after the removal/installation of the zone controller (8HK), (Refer to AMM 21-63-34 Page block 401).

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

- \underline{b} Do the test (for 1 CE3 only) after the removal/installation of the Spoiler Elevator Computer (SEC), (Refer to AMM 27-94-34 Page block 401).
- \underline{c} Do the test after the removal/installation of the LGCIU (5GA1, 5GA2), (Refer to AMM 32-31-71 Page block 401).
- 5 Test after the removal/installation of the connectors of the Rear Panel 120VU
 - <u>a</u> Do the operational test of the cabin recirculation fans (14HG and 15HG), (Refer to AMM 21-21-00 Page block 501).
 - <u>b</u> Do the operational test of the avionics equipment ventilation from the Multipurpose Control and Display Unit (MCDU), (Refer to AMM 21-26-00 Page block 501).
 - \underline{c} Do the operational test of the FWD (4HN) or AFT (33HN) cargo compartment outlet isolation valve in the ditching configuration, (Refer to AMM 21-28-00 Page block 501).
 - \underline{d} Do the operational test of the outflow valve closing in the ditching configuration, (Refer to AMM 21-31-00 Page block 501).
 - <u>e</u> Do the windshear procedure, (Refer to AMM 22-60-00 Page block 501).
 - \underline{f} Do the operational test of the radio navigation selection in standby mode using the RMP1 and 2, (Refer to AMM 23-13-00 Page block 501).
 - g Do the BITE test of the Cabin Intercommunication Data System (CIDS) through the PTP, (Refer to AMM 23-73-00 Page block 501).
 - \underline{h} Do the functional test of the IDG disconnect system engine in operation, (Refer to AMM 24-21-00 Page block 501).
 - <u>i</u> Do the test after the removal/installation of the generator line contactors (9XU1 and 9XU2) and the bus transfer contactors (11XU1 and 11XU2), (Refer to AMM 24-22-55 Page block 401).
 - j Do the test after the removal/installation of the APU generator line contactor (3XS), (Refer to AMM 24-23-55 Page block 401).
 - \underline{k} Do the operational test of the GEN FAULT warning, (Refer to AMM 24-27-00 Page block 501).
 - Do the operational test of the DC generation switching, (Refer to AMM 24-32-00 Page block 501).
 - \underline{m} Do the test after the removal/installation of the transformer 1 (2) contactors (5PU1, 5PU2, 14PU), (Refer to AMM 24-32-55 Page block 401).
 - n Do the operational test of the Ground Power Control Unit

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

(GPCU), (Refer to AMM 24-41-00 Page block 501).

- \underline{o} Do the test after the removal/installation of the external power contactor (3XG), (Refer to AMM 24-41-55 Page block 401).
- <u>p</u> Do the test after the removal/installation of the contactors (12XX, 14XX), (Refer to AMM 24-42-55 Page block 401).
- <u>q</u> Do the test after the removal/installation of the DC service bus ground supply contactor (3PX), (Refer to AMM 24-43-55 Page block 401).
- \underline{r} Do the test after the removal/installation of the AC service bus normal supply contactor (12XN), (Refer to AMM 24-51-55 Page block 401).
- <u>s</u> Do the test after the removal/installation of the DC service bus normal supply contactor (8PN), (Refer to AMM 24-61-55 Page block 401).
- $\underline{\mathbf{t}}$ Do the operational test of the captain and first officer seats (3MS, 4MS), (Refer to AMM 25-11-00 Page block 501).
- \underline{u} Do the operational test of the emergency locator transmitter (1MX), (Refer to AMM 25-65-33 Page block 501).
- \underline{v} Do the operational test of the engine fire and overheat detection with the Centralized Fault Display System (CFDS), (Refer to AMM 26-12-00 Page block 501).
- $\underline{\mathbf{w}}$ Do the functional test of the ENG 1 (2) fire push-button switch sub-functions related to the engine shutdown and isolation (with external air supply), (Refer to AMM 26-21-00 Page block 501).
- \underline{x} Do the operational test of the APU fire extinguishing P/BSW function (single channel configuration) and the APU emergency shutdown circuit, (Refer to AMM 26-22-00 Page block 501).
- \underline{y} Do the operational test of the spoiler hydraulic actuation, (Refer to AMM 27-64-00 Page block 501).
- \underline{z} Do the operational test of the side stick assembly, (Refer to AMM 27-92-41 Page block 501).
- <u>aa</u> Do the test after the removal/installation of the pedal position transducer unit, (Refer to AMM 27-92-15 Page block 401).
- <u>ab</u> Do the functional test of the center tank fuel control, (Refer to AMM 28-21-00 Page block 501).
- <u>ac</u> Do the operational test of the main transfer system, (Refer to AMM 28-26-00 Page block 501).

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

- \underline{ad} Do the functional test of the ACT inward pressure relief valve, (if the ACT is installed), (Refer to AMM 28-28-00 Page block 501).
- <u>ae</u> Do the operational test of the ACT manual transfer system, (if the ACT is installed), (Refer to AMM 28-28-00 Page block 501).
- <u>af</u> Do the special test of the tank level sensing system, (Refer to AMM 28-46-00 Page block 501).
- ag Do the operational test of the Ram Air Turbine (RAT) automatic deployment, (Refer to AMM 29-22-00 Page block 501).
- <u>ah</u> Do the operational test of the fluid low level warning system, (Refer to AMM 29-31-00 Page block 501).
- <u>ai</u> Do the operational test of the reservoir low air pressure warning of the blue hydraulic system, (Refer to AMM 29-34-00 Page block 501).
- <u>aj</u> Do the operational test of the engine air intake ice protection, (Refer to AMM 30-21-00 Page block 501).
- \underline{ak} Do the operational test of the probe ice protection, (Refer to AMM 30-31-00 Page block 501).
- <u>al</u> Do the operational test of the windshield anti-icing and defogging, (Refer to AMM 30-42-00 Page block 501).
- <u>am</u> Do the functional test of the windshield rain protection, (Refer to AMM 30-45-00 Page block 501).
- <u>an</u> Do the operational test of the recorders control with the Centralized Fault Display System (CFDS), (Refer to AMM 31-33-00 Page block 501).
- <u>ao</u> Do the operational test of the System Data Acquisition Concentrator (SDAC), (Refer to AMM 31-50-00 Page block 501).
- <u>ap</u> Do the operational test of the EFIS/ECAM switching functions, (Refer to AMM 31-60-00 Page block 501).
- \underline{aq} Do the EIS input test, (Refer to AMM 31-60-00 Page block 501).
- \underline{ar} Do the operational test of the normal braking system, (Refer to AMM 32-42-00 Page block 501).
- <u>as</u> Do the operational test of the parking brake system, (Refer to AMM 32-45-00 Page block 501).
- <u>at</u> Do the functional test of the Tire Pressure Indicating System (TPIS), (Refer to AMM 32-49-00 Page block 501).
- \underline{au} Do the operational test of the landing lights, (Refer to AMM 33-42-00 Page block 501).
- \underline{av} Do the operational test of the 5 minutes time delay of

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

ADIRU 2 and 3 power disconnection in emergency configuration, (Refer to AMM 34-10-00 Page block 501).

- <u>aw</u> Do the operational test of the GPWS ground self-test function, (Refer to AMM 34-48-00 Page block 501).
- \underline{ax} Do the operational test of the Global Positioning System (GPS), (Refer to AMM 34-58-00 Page block 501).
- <u>ay</u> Do the test after the removal/installation of the start contactors (5KA, 10KA), (Refer to AMM 49-42-55 Page block 401).
- \underline{az} Do the functional test of the FWD cargo compartment door, (Refer to AMM 52-31-00 Page block 501).
- \underline{ba} Do the operational test of the door warning system, (Refer to AMM 52-71-00 Page block 501).
- <u>bb</u> For aircraft powered by CFM engines, do the operational test of the engine interface units (1KS1, 1KS2), (Refer to AMM 73-25-34 Page block 501).
- <u>bc</u> Do the operational test of the Engine Vibration Monitoring Unit (EVMU) through the Centralized Fault Display System (CFDS), (Refer to AMM 77-32-34 Page block 501).
- <u>bd</u> At the next APU start up, make sure that all APU parameters are correct.
- $\underline{6}$ Do the test after the removal/installation of the cabin temperature sensor (21HK), (Refer to AMM 21-63-17 Page block 401).
- (b) Config. 02

- 1 Do the test after the removal/installation of the forward galley unit, (Refer to AMM 25-31-41 Page block 401).
- On each connector that you disconnected, do a visual check to make sure that:

(Refer to AWM 20-00-00)

- The label of the connector is the same as as the label on the support plate
- The connector is correctly locked.
- $\underline{3}$ Do the test after the removal/installation of the batteries (2PB1, 2PB2), (Refer to AMM 24-38-51 Page block 401).
- 4 Test after the removal/installation of the Shelf 93VU in the FWD electronics rack
 - <u>a</u> Do the test after the removal/installation of the zone controller (8HK), (Refer to AMM 21-63-34 Page block 401).
 - \underline{b} Do the test (for 1 CE3 only) after the

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

removal/installation of the Spoiler Elevator Computer (SEC), (Refer to AMM 27-94-34 Page block 401).

- <u>c</u> Do the test after the removal/installation of the LGCIU (5GA1, 5GA2), (Refer to AMM 32-31-71 Page block 401).
- 5 Do the test after the removal/installation of the cabin temperature sensor (21HK), (Refer to AMM 21-63-17 Page block 401).

(c) Config. 03

- 1 Do the test after the removal/installation of the forward galley unit, (Refer to AMM 25-31-41 Page block 401).
- On each connector that you disconnected, do a visual check to make sure that:

(Refer to AWM 20-00-00)

- The label of the connector is the same as as the label on the support plate
- The connector is correctly locked.
- <u>3</u> Do the test after the removal/installation of the batteries (2PB1, 2PB2), (Refer to AMM 24-38-51 Page block 401).
- $\underline{4}$ Test after the removal/installation of the Shelf 93VU in the FWD electronics rack
 - <u>a</u> Do the test after the removal/installation of the zone controller (8HK), (Refer to AMM 21-63-34 Page block 401).
 - \underline{b} Do the test (for 1 CE3 only) after the removal/installation of the Spoiler Elevator Computer (SEC), (Refer to AMM 27-94-34 Page block 401).
 - <u>c</u> Do the test after the removal/installation of the LGCIU (5GA1, 5GA2), (Refer to AMM 32-31-71 Page block 401).

D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) De-energize the aircraft electrical circuits, (Refer to AMM 24-41-00 Page block 201).
- (3) Install the floor panel 212PF, (Refer to AMM 53-12-11 Page block 401).
- (4) Install the assembly panels 212JW and 212HW, (Refer to AMM 05-22-10 Page block 601) and the panel on the RH side of the rear panel 120VU.
- (5) Close the passenger/crew door 831, (Refer to AMM 52-10-00 Page block 201).
- (6) Close the avionics doors 811, 822 and 824, (Refer to AMM 52-41-00 Page block 1).

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

- (7) Close the cargo door 825, (Refer to AMM 52-30-00 Page block 201).
- (8) Disconnect the aircraft electrical ground-connection, (Refer to AMM 12-34-24 Page block 201).
- (9) Remove the access platform(s).
- (10) Restore the systems and the 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.

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

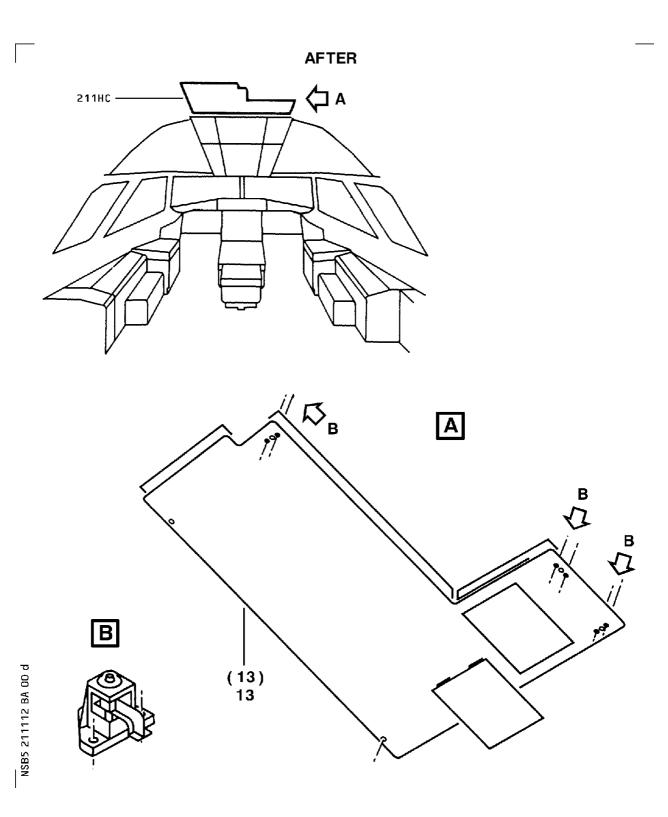


Figure 1 Sheet 1 Modification to the Equipment in the Cockpit (Config. 01 and Config. 02)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 32

SERVICE BULLETIN

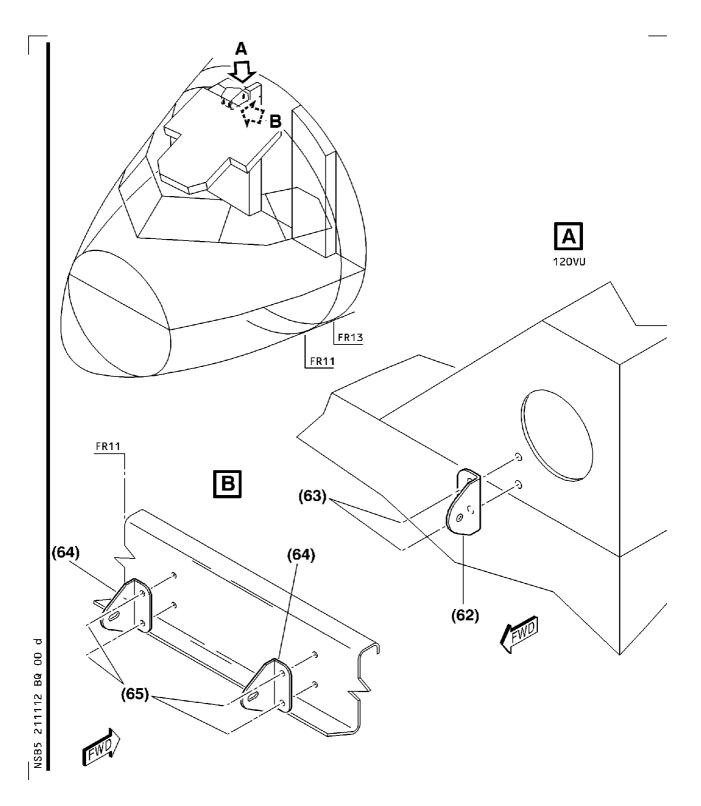


Figure 2 Sheet 1
Removal of the Attachment Fitting of the Temperature Probe Casing (Config. 01, Config. 02 and Config. 03)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 33

I

This Page Intentionally Left Blank

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

DATE : Aug 06/98

Figure 4 Sheet 1
Modification to the Equipment in the Cockpit (Config. 01 and Config. 02)

REVISION No. : 02 - Dec 21/00 Page : 40

SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

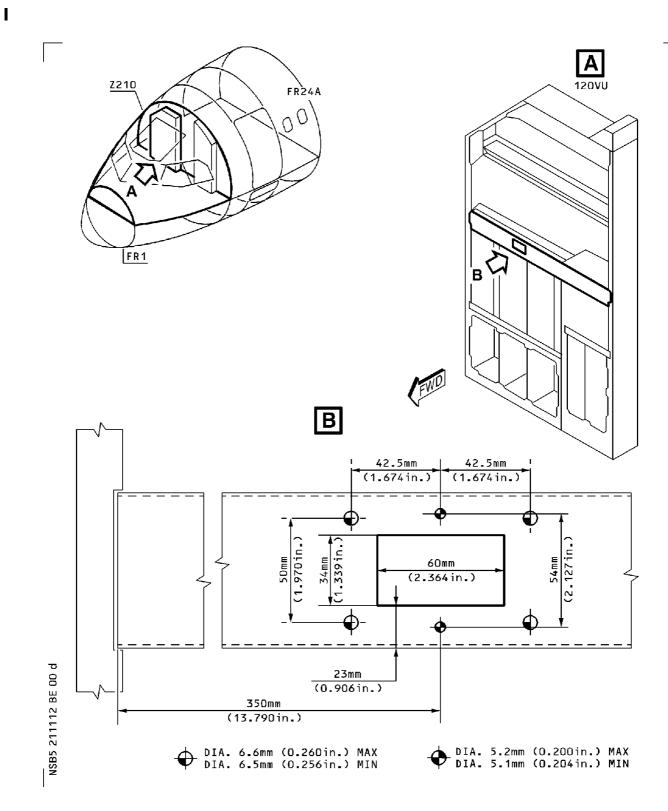


Figure 5 Sheet 1 Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 41

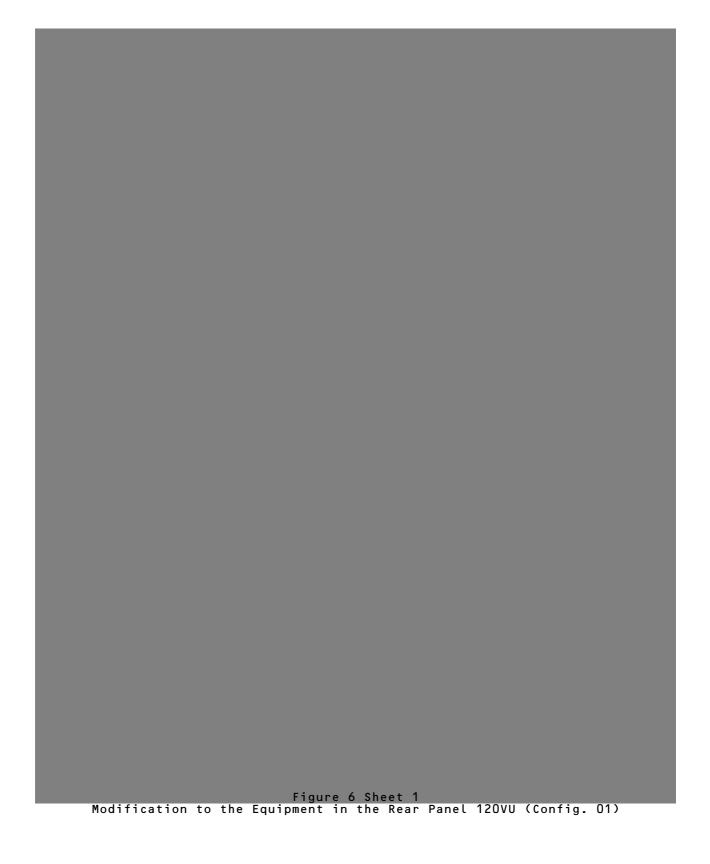
I

ı

SERVICE BULLETIN

This Page Intentionally Left Blank

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



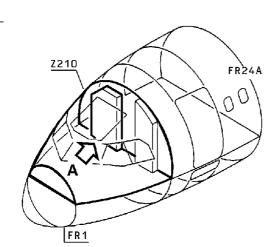
DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

I

Figure 7 Sheet 1
Modification to the Equipment in the Rear Panel 120VU (Config. 01)

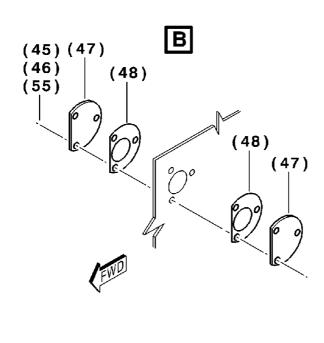
DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

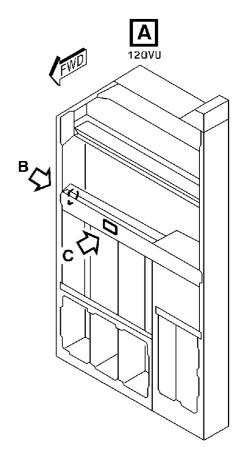
SERVICE BULLETIN

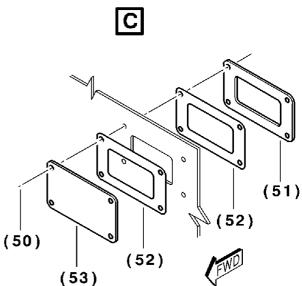


I

NSB5 211112 BT 00 d







 $$\operatorname{\mathtt{Figure}}$ 8 Sheet 1 Modification to the Equipment in the Rear Panel 120VU (Config. 02)

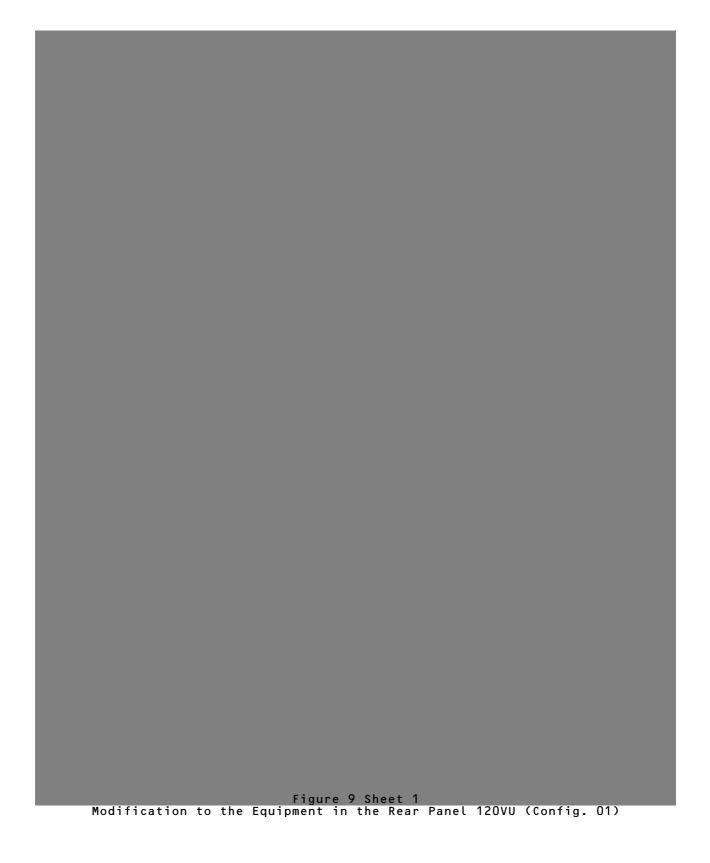
DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

ı

SERVICE BULLETIN

This Page Intentionally Left Blank

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

SERVICE BULLETIN

I

I

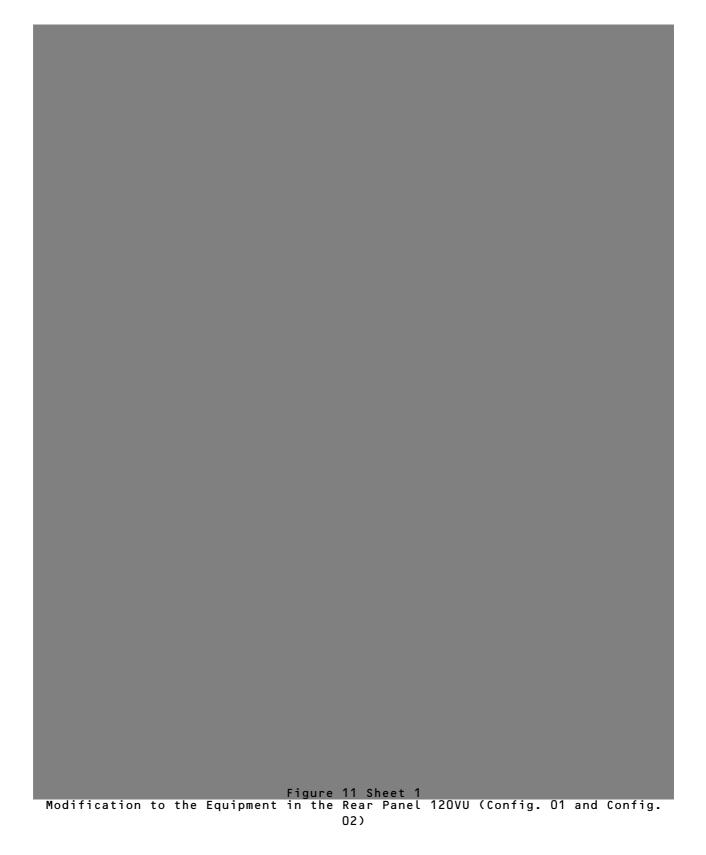
Z210 FR24A 00 FR1 11 24 10 NSB5 211112 BJ 00 d 22 31

Figure 10 Sheet 1
Modification to the Equipment in the Rear Panel 120VU (Config. 01 and Config.

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

This Page Intentionally Left Blank

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



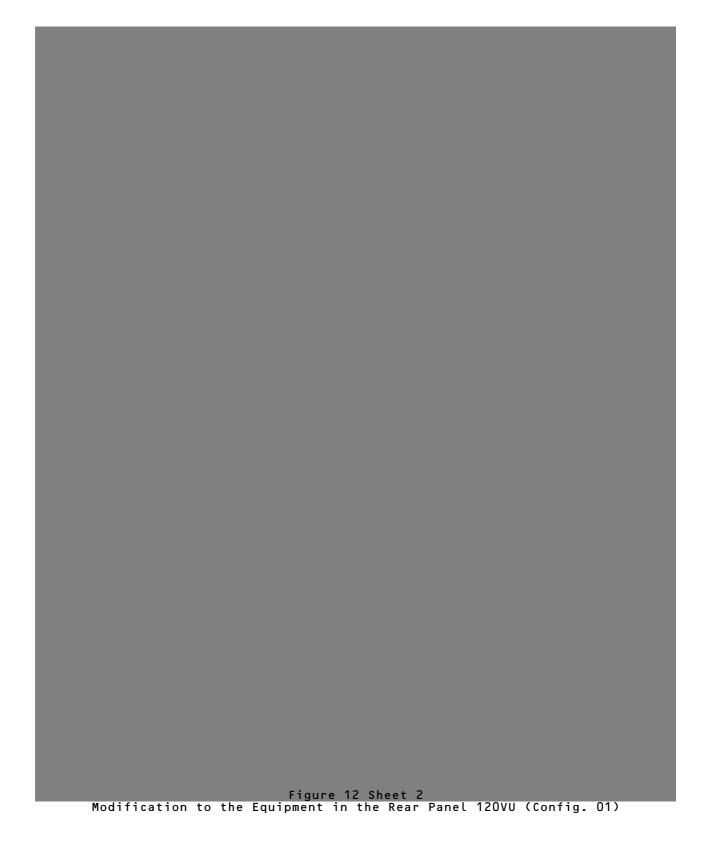
REVISION No. : 02 - Dec 21/00 Page : 54

DATE : Aug 06/98

SERVICE BULLETIN No.: A320-21-1112

Figure 12 Sheet 1
Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

Figure 12 Sheet 3 Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 59

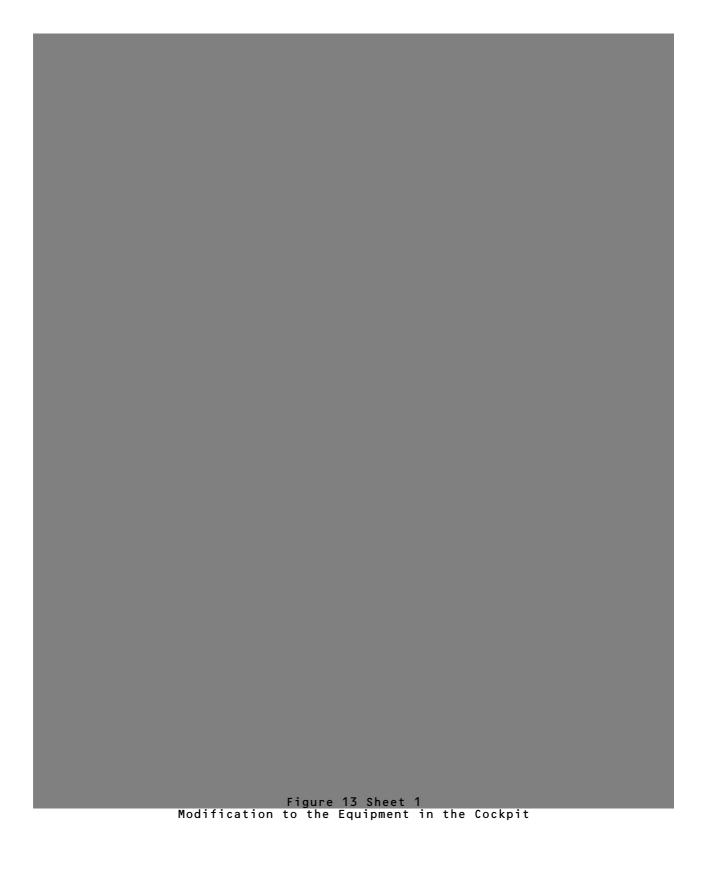
I

ı

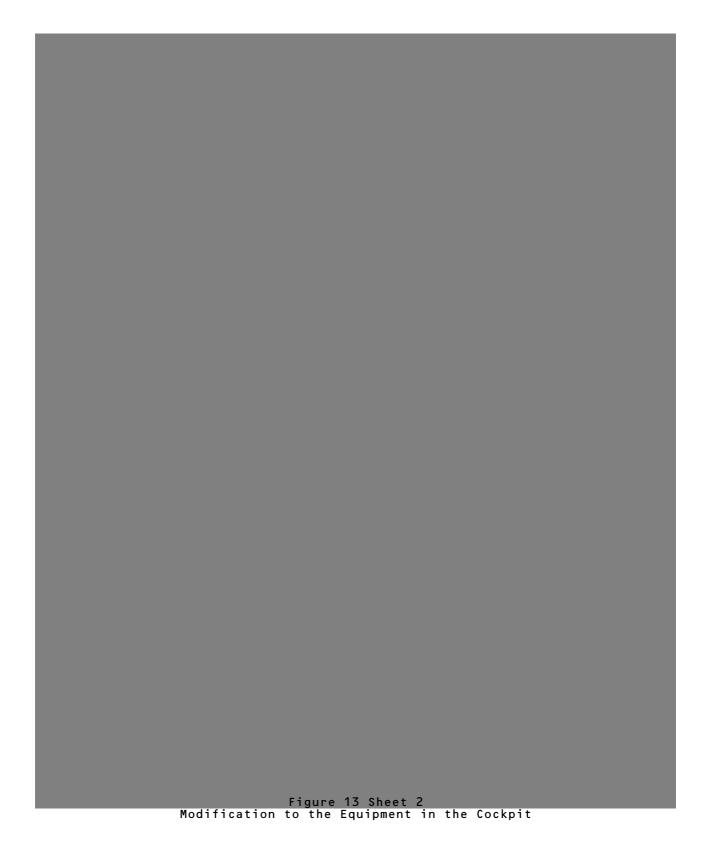
SERVICE BULLETIN

This Page Intentionally Left Blank

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



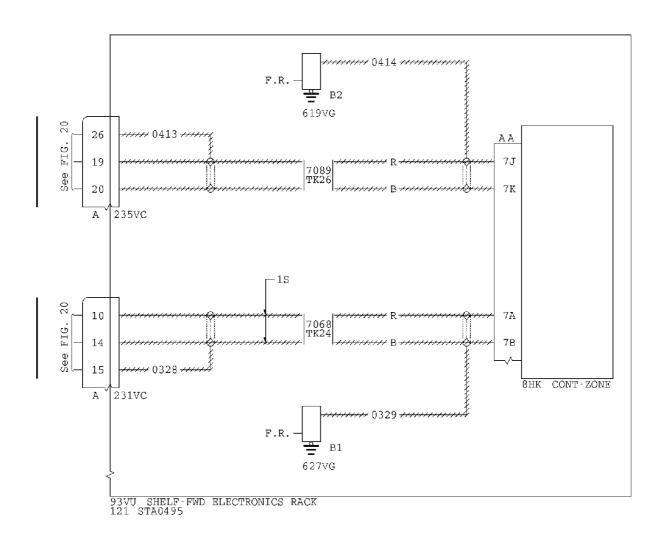
DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

BEFORE

_ NB5211112AAAAB



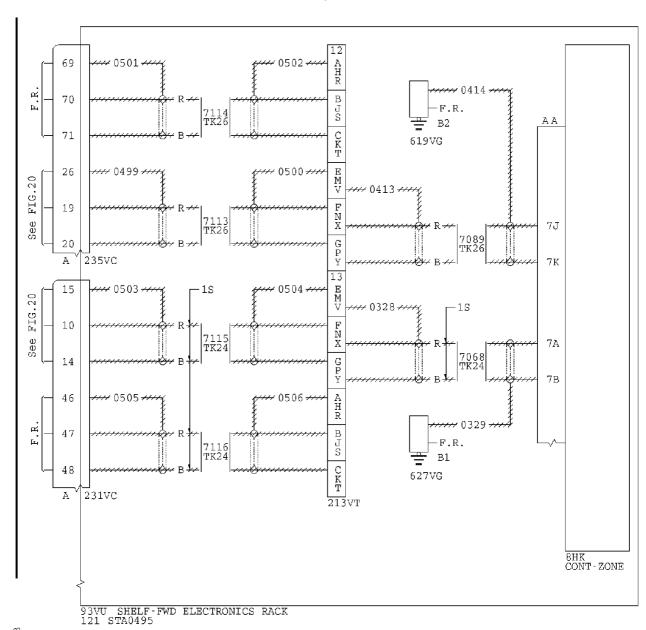
DELETED WIRE F.R. FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2163 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2S

Figure 14 Sheet 1
Modification to the Wiring in the Shelf 93VU in the FWD Electronics Rack (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

BEFORE



////// DELETED WIRE

F.R. FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA 2163 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2S

Figure 15 Sheet 1
Modification to the Wiring in the Shelf 93VU in the FWD Electronics Rack (Config. 02)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

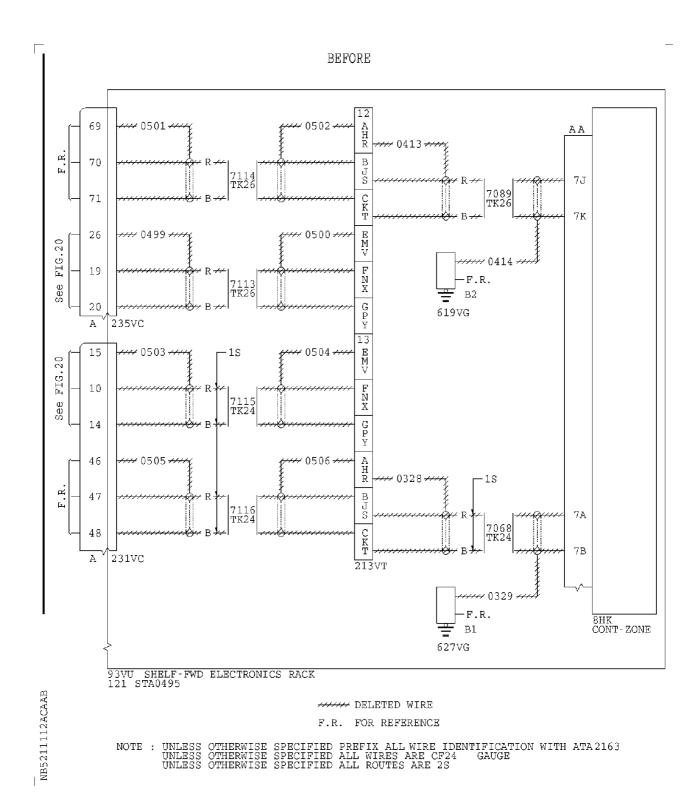


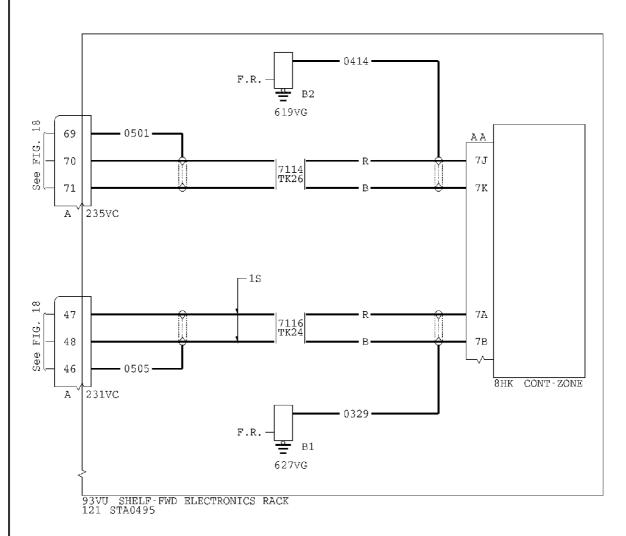
Figure 16 Sheet 1
Modification to the Wiring in the Shelf 93VU in the FWD Electronics Rack (Config. 03)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 67

AFTER

_ NB5211112AGAAA



CONFIG. 01

- NEW WIRE

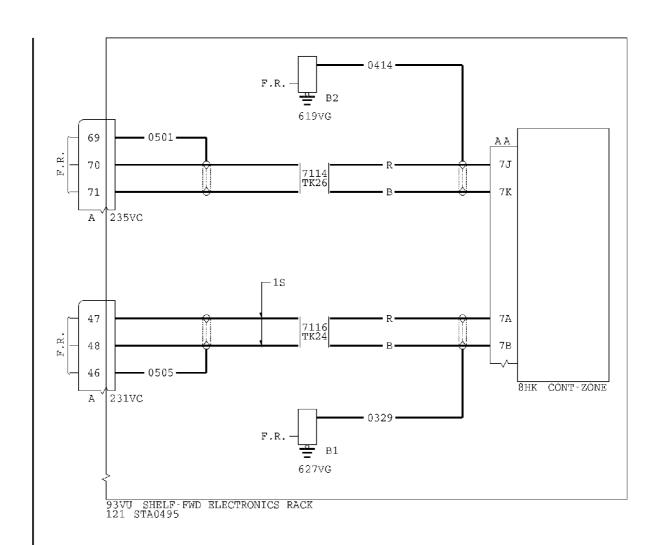
F.R. FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2163 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2S

 $$\operatorname{\textsc{Figure}}$$ 17 Sheet 1 Modification to the Wiring in the Shelf 93VU in the FWD Electronics Rack

DATE : Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

AFTER



CONFIG. 02 AND CONFIG. 03

----- NEW WIRE

F.R. FOR REFERENCE

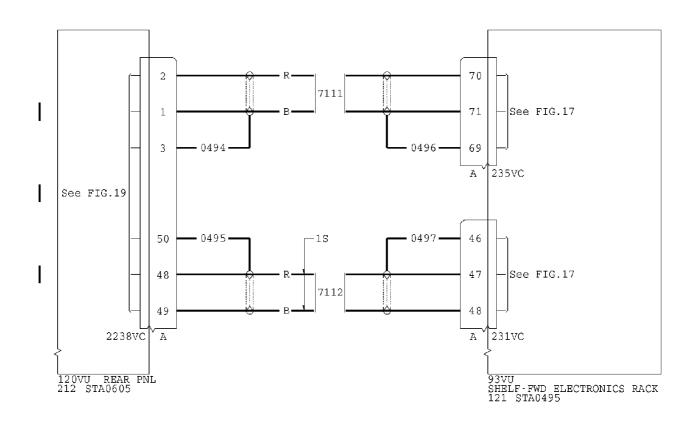
NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2163 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2S

 $$\operatorname{\textsc{Figure}}$$ 17 Sheet 2 Modification to the Wiring in the Shelf 93VU in the FWD Electronics Rack

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

I

AFTER



F.R. FOR REFERENCE

F.R. FOR REFERENCE

OUNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA 2163 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE TK24 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2S
SHIELDING CONTINUITY WIRES ARE CF24 GAUGE

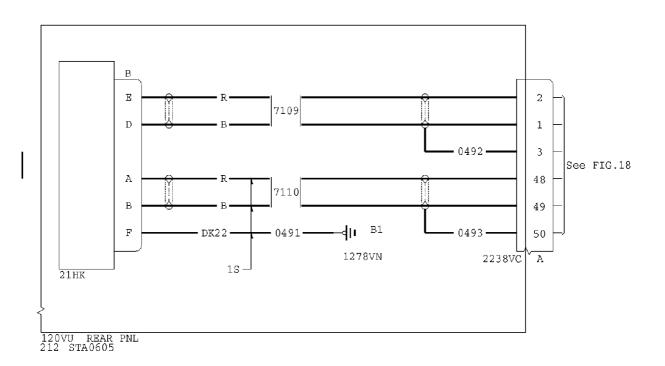
Figure 18 Sheet 1
Modification to the Wiring Between the Rear Panel 120VU and the Shelf 93VU in the FWD Electronics Rack (Config. 01)

- NEW WIRE

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

AFTER

__ NB5211112ABAAB



---- NEW WIRE

F.R. FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2163 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE TT24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2S SHIELDING CONTINUITY WIRES ARE DK24 GAUGE

Figure 19 Sheet 1 Modification to the Wiring in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

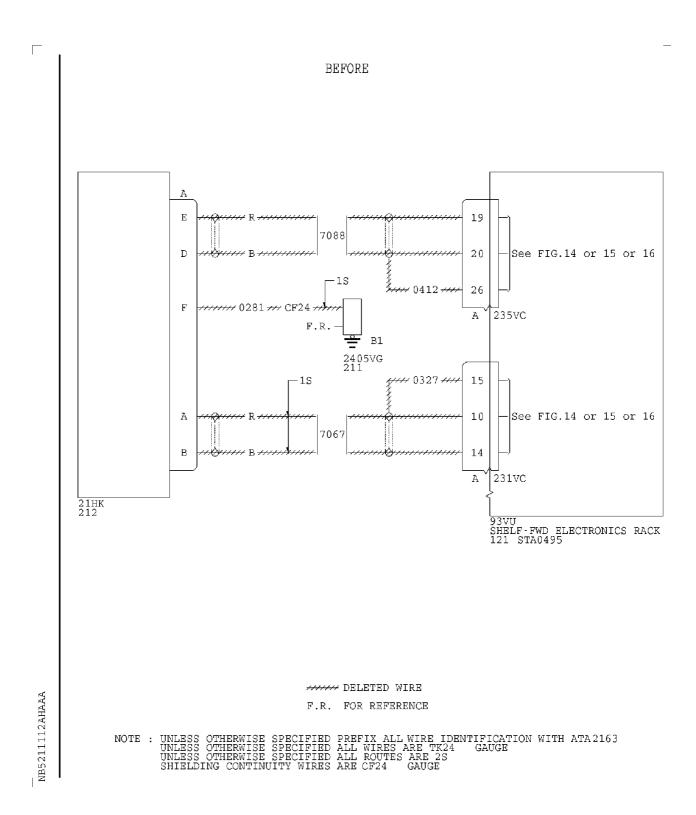
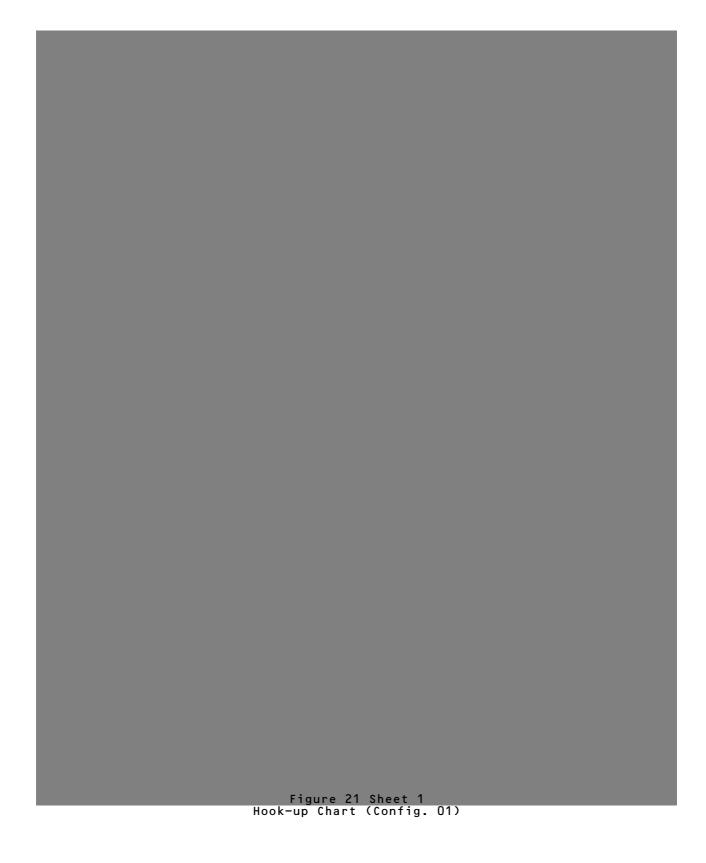


Figure 20 Sheet 1
Modification to the Wiring Between the Connector 21HK-A and the Shelf 93VU in the FWD Electronics Rack (Config. 01, Config. 02 and Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

Figure 22 Sheet 1
Hook-up Chart (Config. 01, Config. 02 and Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112



DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 78

I Figure 23 Sheet 1 Hook-up Chart (Config. 01)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 80

I

Figure 24 Sheet 1 Hook-up Chart (Config. 01)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 82

I

Figure 25 Sheet 1
Hook-up Chart (Config. 01, Config. 02 and Config. 03)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 84

Figure 26 Sheet 1 Hook-up Chart (Config. 02)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 86

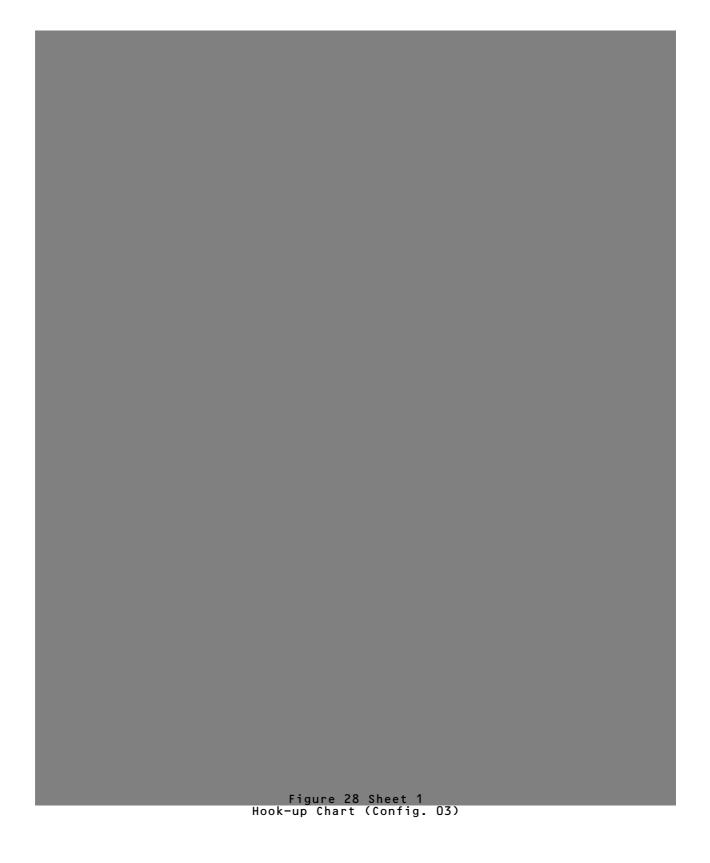
I

I

Figure 27 Sheet 1 Hook-up Chart (Config. 02)

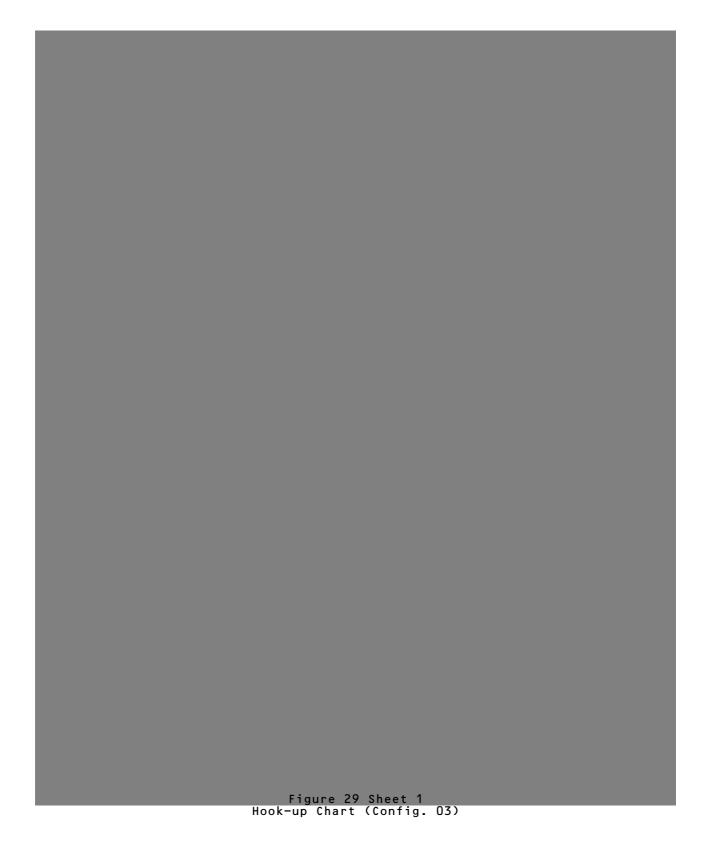
DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 88



DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 90

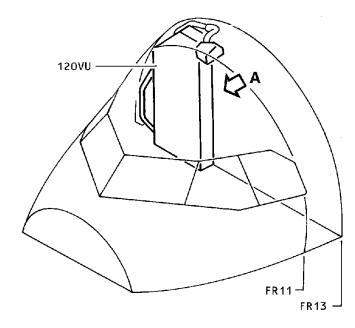


DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 92



BEFORE

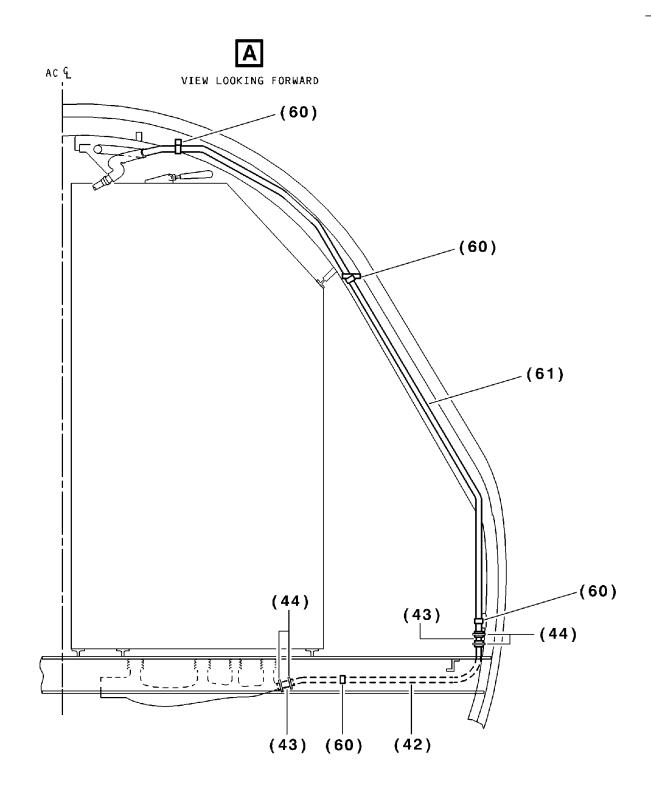


CONFIG.01 and CONFIG.02

Figure 3 Sheet 1 Modification to the Equipment in the Cockpit

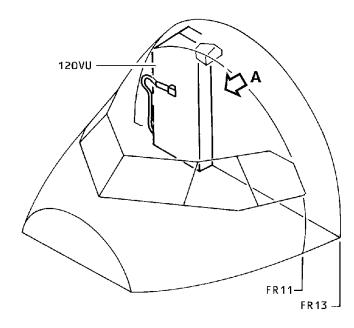
DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 35/36





BEFORE

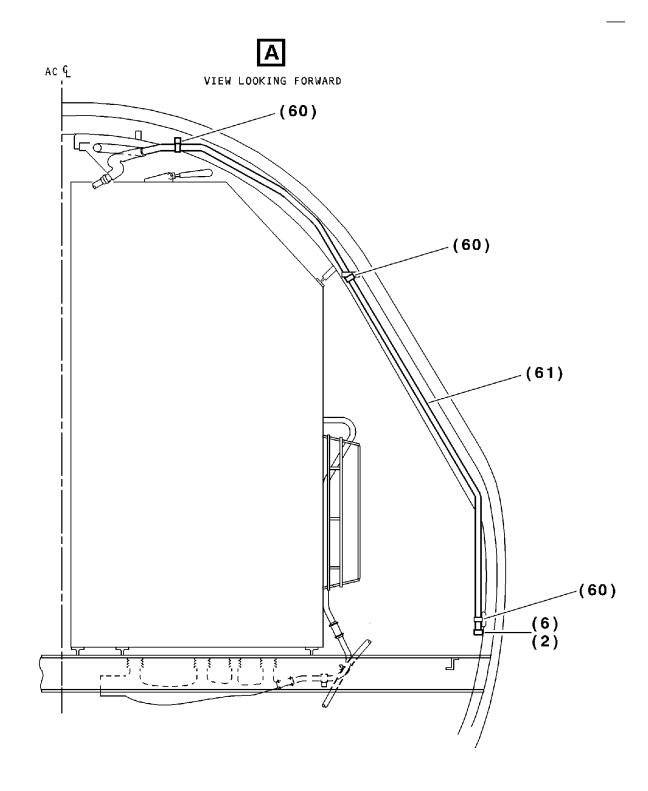


CONFIG.03

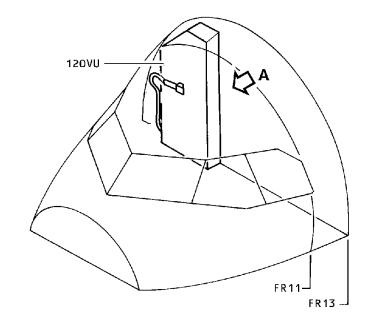
Figure 3 Sheet 2 Modification to the Equipment in the Cockpit

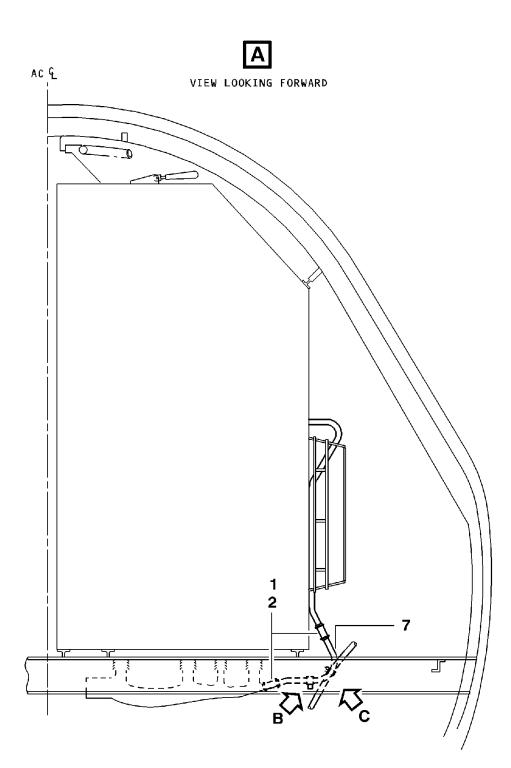
DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

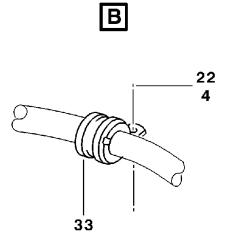
REVISION No. : 02 - Dec 21/00 Page : 37/38



AFTER







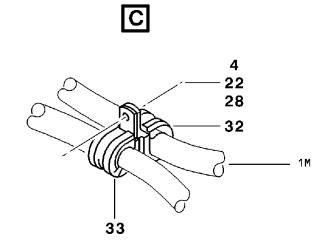
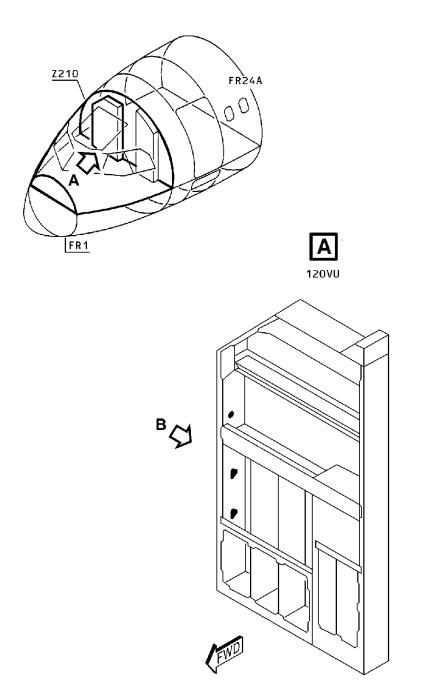


Figure 4 Sheet 1 Modification to the Equipment in the Cockpit (Config. 01 and Config. 02)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 39/40



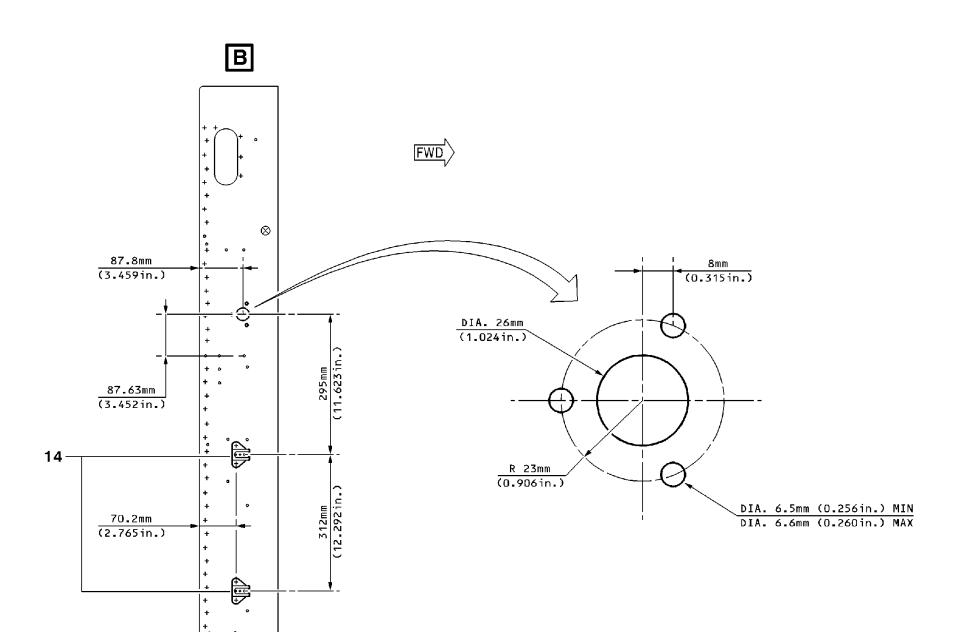
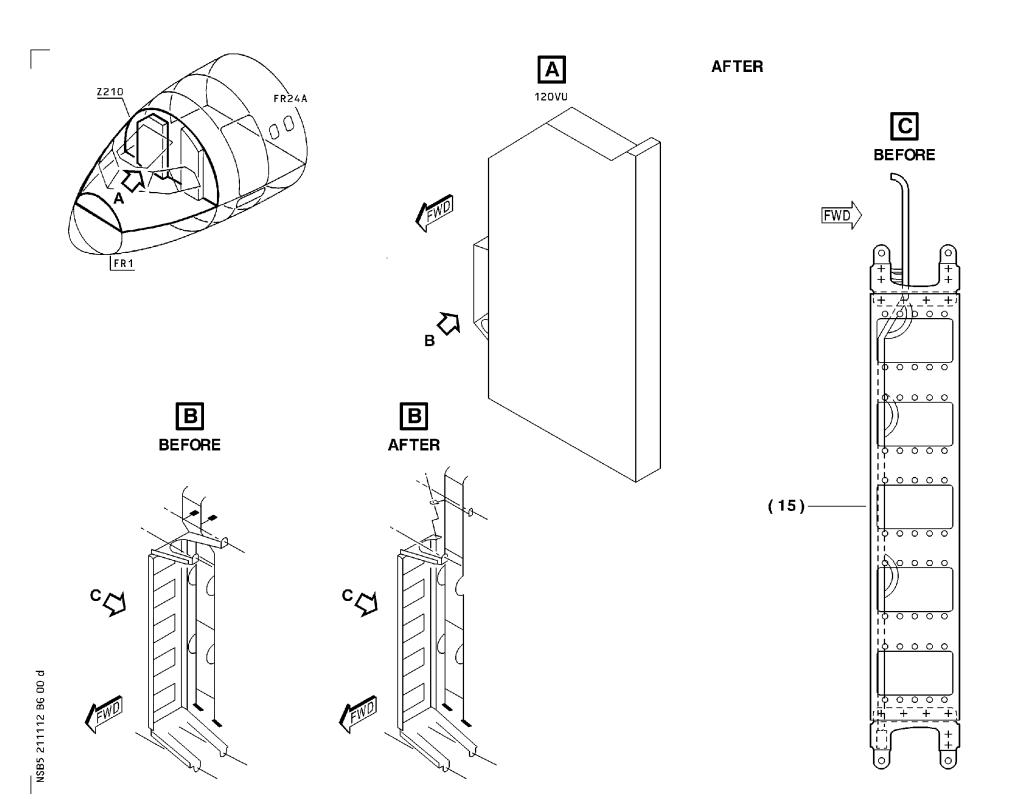


Figure 6 Sheet 1 Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 43/44

SERVICE BULLETIN



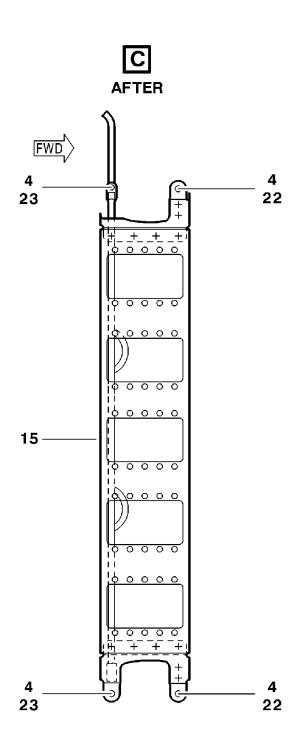
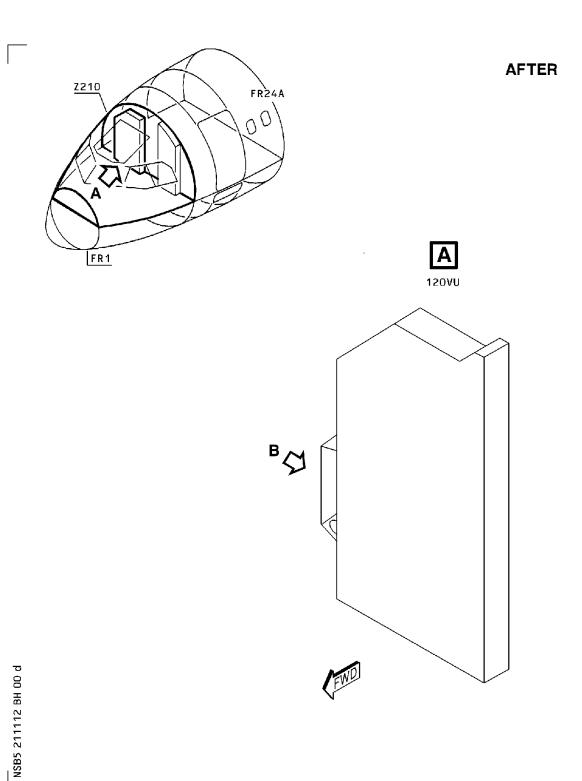


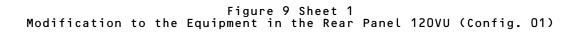
Figure 7 Sheet 1 Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 45/46

SERVICE BULLETIN

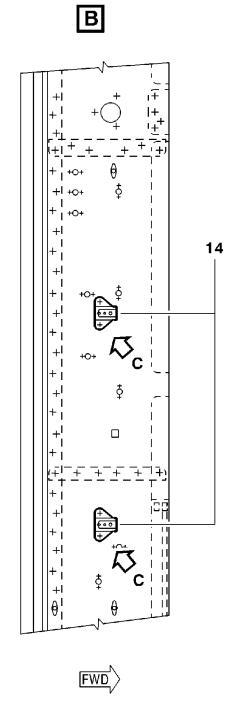


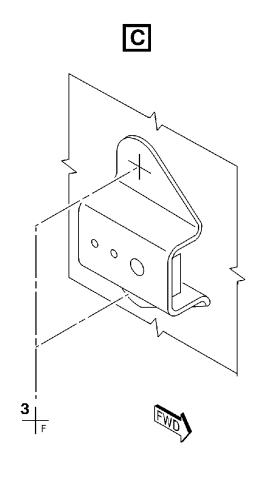


DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

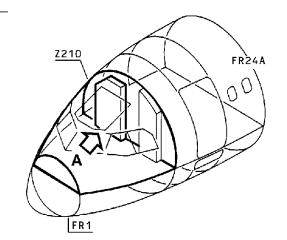
REVISION No.: 02 - Dec 21/00 Page: 49/50

Printed in France © Airbus Industrie 1998, All rights reserved

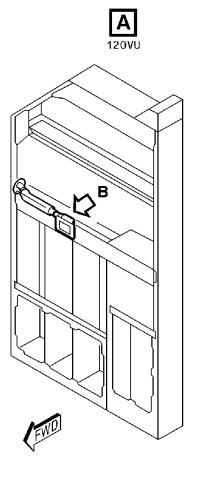




HEAD ON HIDDEN SIDE



AFTER



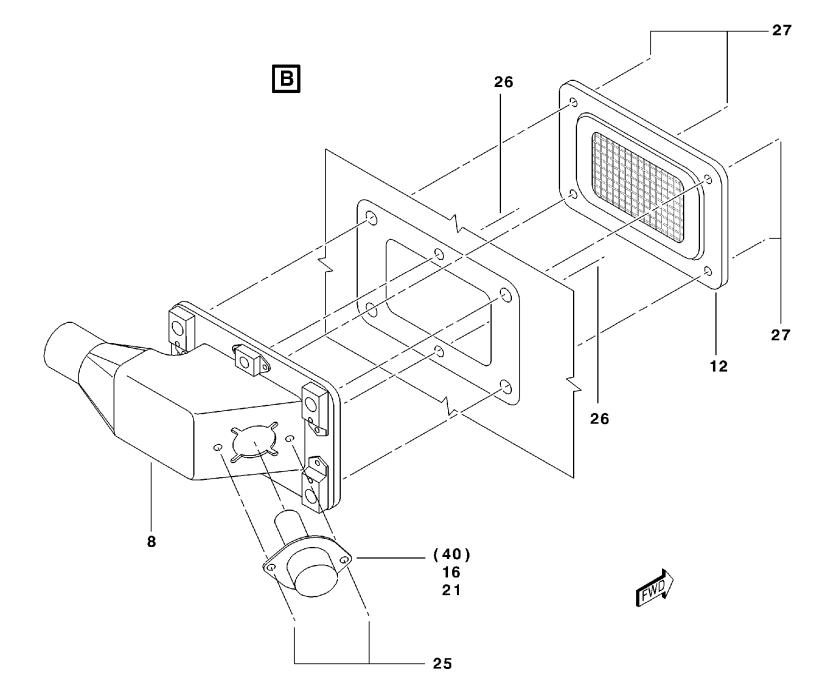


Figure 11 Sheet 1
Modification to the Equipment in the Rear Panel 120VU (Config. 01 and Config.

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No. : 02 - Dec 21/00

Page : 53/54

SERVICE BULLETIN

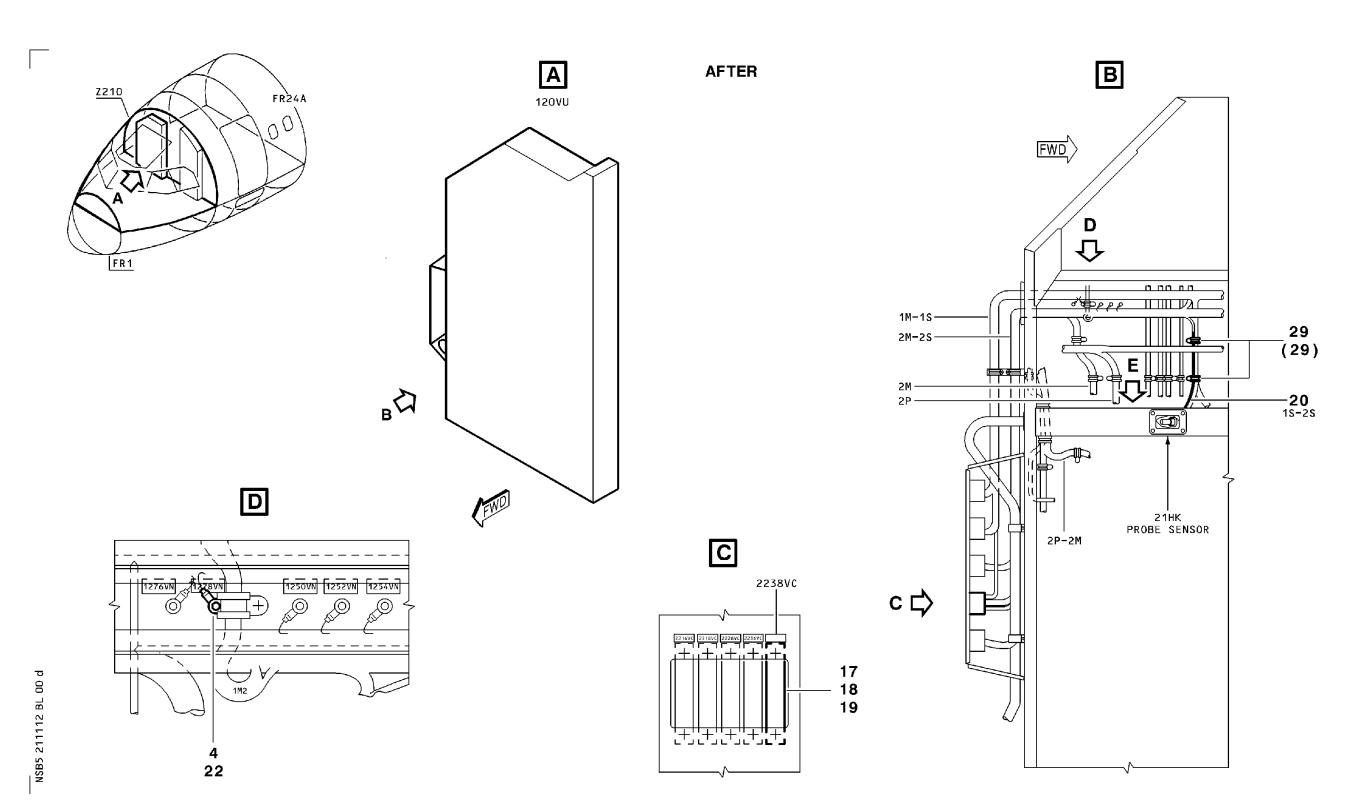
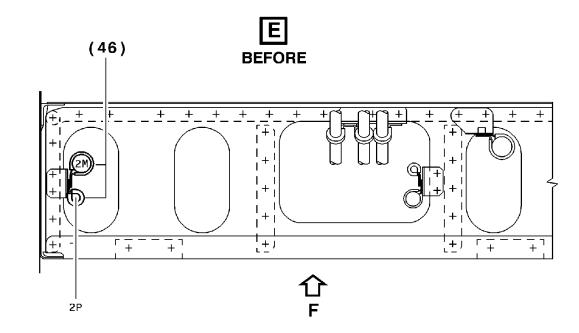


Figure 12 Sheet 1 Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 55/56

SERVICE BULLETIN



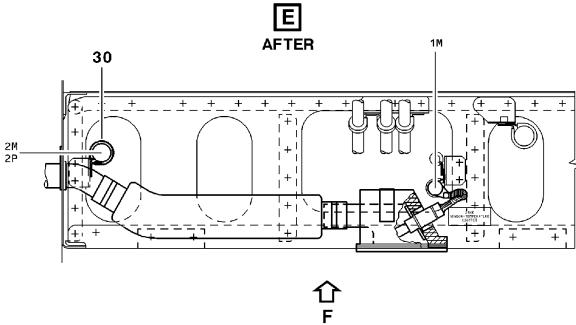
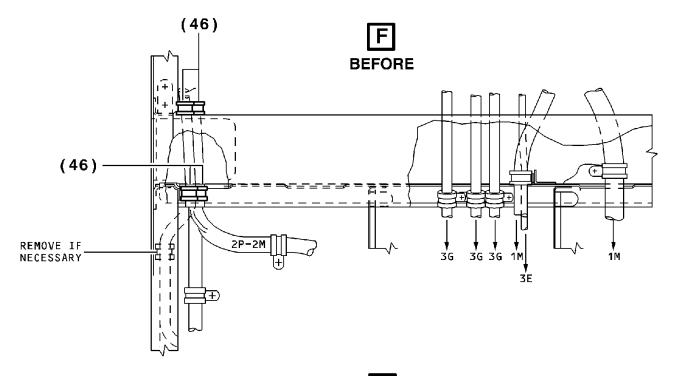
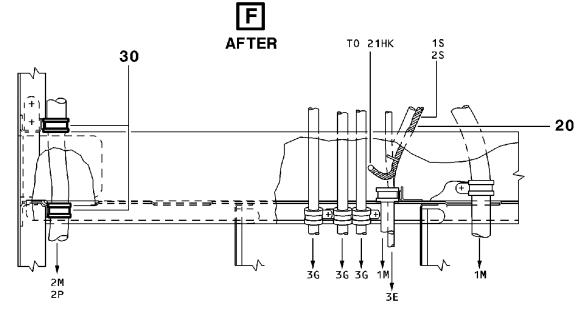


Figure 12 Sheet 2 Modification to the Equipment in the Rear Panel 120VU (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page : 57/58





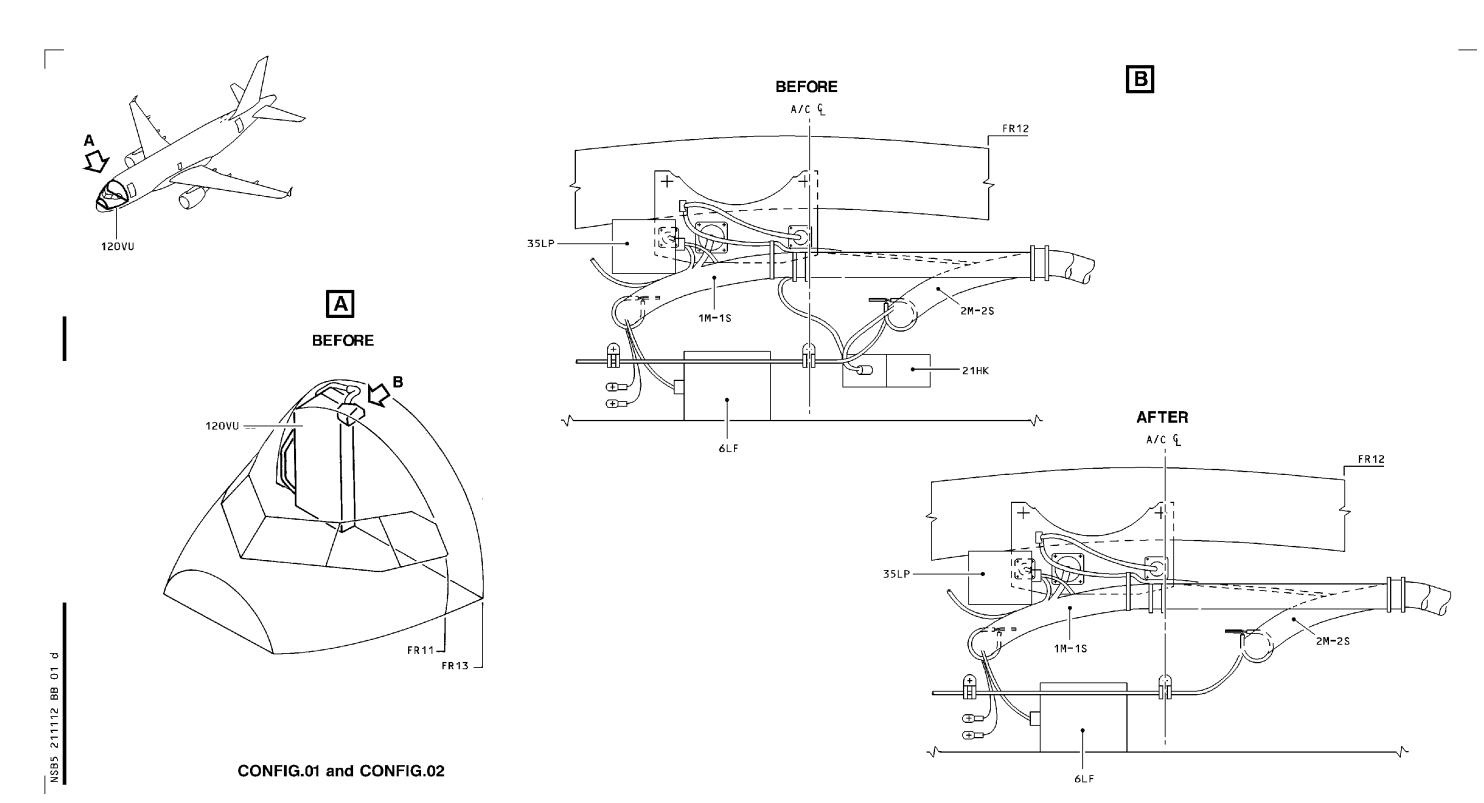


Figure 13 Sheet 1 Modification to the Equipment in the Cockpit

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No. : 02 - Dec 21/00 Page : 61/62

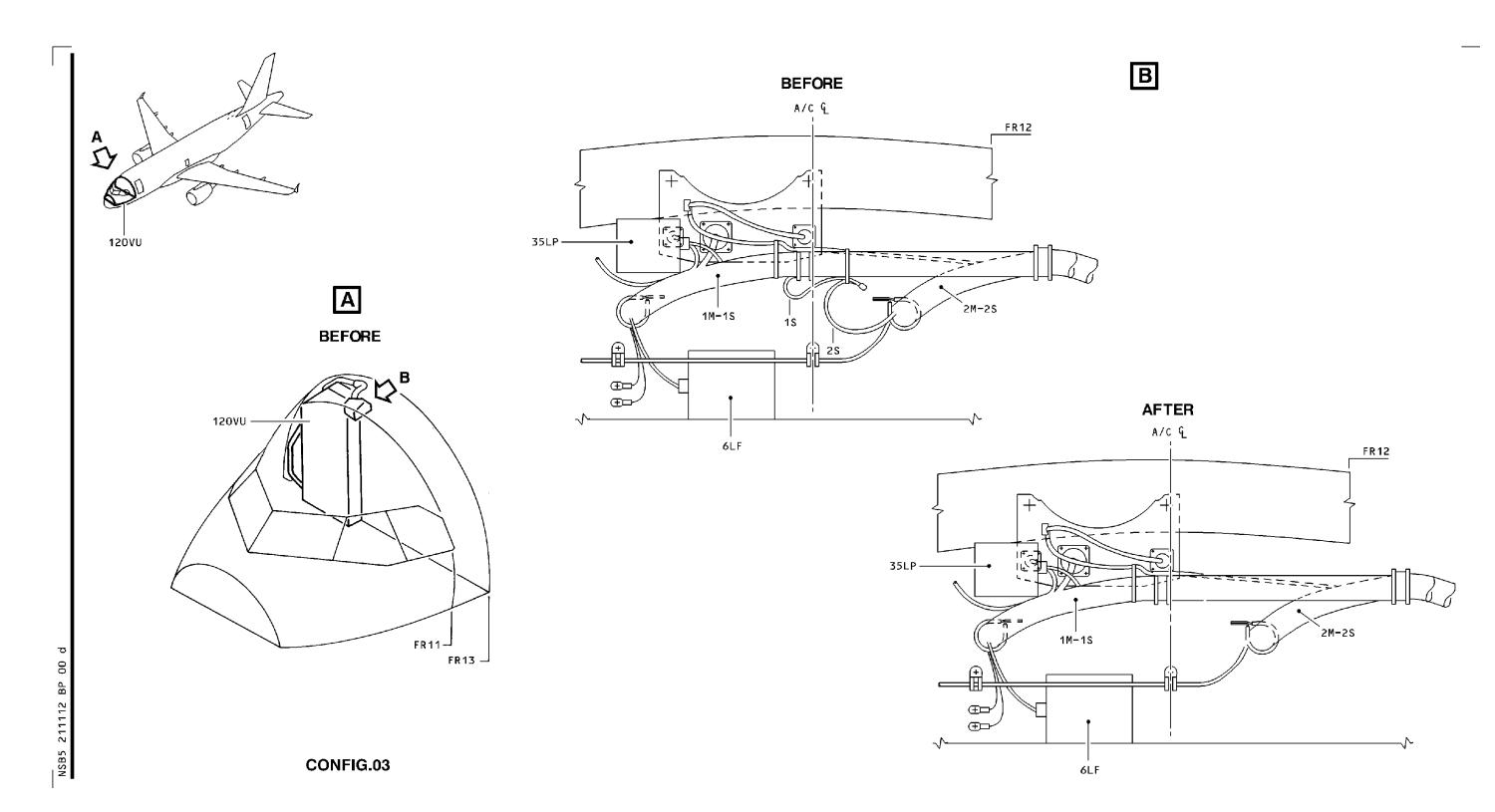


Figure 13 Sheet 2 Modification to the Equipment in the Cockpit

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 63/64



L		E N D	1				L E A	D				E N D	2			
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Ins	tructions
1	93VU	8HK-AA	SH		2163-7068		1s	TK24			93 V U	231VC	SH		D	Fig.14
2	93VU	8HK-AA	7в		2163-7068	В	1S	TK24			93 V U	231VC	14		D	Fig.14
3	93VU	8HK-AA	7A		2163-7068	R	1S	TK24			93 V U	231VC	10		D	Fig.14
4	93VU	8HK-AA	SH		2163-7089		28	TK26			93 V U	235VC	SH		D	Fig.14
5	93VU	8HK-AA	7K		2163-7089	В	2S	TK26			93VU	235VC	20		D	Fig.14
6	93VU	8HK-AA	7Ј		2163-7089	R	2S	TK26			93VU	235VC	19		D	Fig.14
7	93VU	2163-7068	W.F.		2163-0328		1s	CF24			93VU	231VC	15		D	Fig.14
8	93VU	2163-7068	W.F.		2163-0329		1s	CF24			93 V U	627VG	GND		D	Fig.14
9	93 V U	2163-7089	W.F.		2163-0413		2S	CF24			93 V U	235VC	26		D	Fig.14
10	93 v u	2163-7089	W.F.		2163-0414		2S	CF24			93VU	619VG	GND		D	Fig.14
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25																

D = DELETED WIRE

SH = SHIELD

W.F. = WIRE FERRULE

Figure 21 Sheet 1 Hook-up Chart (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 73/74

SERVICE BULLETIN

L		E N D	1				LEA	D				E N D	2			
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	I	nstructions
1	93VU	8HK - AA	SH	E0718-02-30	2163-7114		2S	TK26	2100	84	93 V U	235VC	SH	E0718-02-30	(c) A	Fi17sh1
2	93VU	8HK-AA	7K	E0170FA2200	2163-7114	В	28	TK26	2100	84	93 V U	235VC	71	EN3155-008M2222	(c) A	Fi17sh1
3	93 v u	8HK-AA	7Ј	E0170FA2200	2163-7114	R	2S	TK26	2100	84	93 V U	235VC	70	EN3155-008M2222	(C) A	Fi17sh1
4	93 v u	8HK-AA	SH	E0718-02-30	2163-7116		1S	TK24	2100	84	93 v u	231VC	SH	E0718-02-30	(c) A	Fi17sh1
5	93VU	8HK-AA	7в	E0170FA2200	2163-7116	В	1s	TK24	2100	84	93 V U	231VC	48	EN3155-014M2018	(c) A	Fi17sh1
6	93VU	8HK-AA	7A	E0170FA2200	2163-7116	R	1s	тк24	2100	84	93VU	231VC	47	EN3155-014M2018	(c) A	Fi17sh1
7	93VU	2163-7116	W.F.	Е0160-1-ОН	2163-0329		1s	CF24	2100	84	93VU	627 v G	GND	EN3155-015F2018	(C) A	Fi17sh1
8	93VU	2163-7114	W.F.	E0160-1-0H	2163-0414		2S	CF24	2100	84	93 V U	619 v G	GND	EN3155-015F2018	(c) A	Fi17sh1
9	93 V U	2163-7114	W.F.	E0160-1-0H	2163-0501		25	CF24	500	20	93 V U	235VC	69	EN3155-008M2222	(c) A	Fi17sh1
10	93VU	2163-7116	W.F.	E0160-1-0H	2163-0505		1S	CF24	500	20	93 V U	231VC	46	EN3155-014M2018	(C) A	Fi17sh1
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25																

(c) = BUNDLE D9000095120395

W.F. = WIRE FERRULE

A = ADDED WIRE

= SHIELD

SH

Figure 22 Sheet 1 Hook-up Chart (Config. 01, Config. 02 and Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 75/76

SERVICE BULLETIN

L		E N D	1				L E A	D				E N D	2			
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N		Instructions
1	93VU	8HK-AA	SH	E0718-02-30	2163-7114		2S	TK26	2100	84	93 V U	235VC	SH	E0718-02-30	(c) A	Fi17sh2
2	93 V U	8HK-AA	7K	E0170FA2200	2163-7114	В	2S	TK26	2100	84	93 V U	235VC	71	EN3155-008M2222	(c) A	Fi17sh2
3	93 V U	8HK-AA	7ј	E0170FA2200	2163-7114	R	2S	TK26	2100	84	93 V U	235VC	70	EN3155-008M2222	(C) A	Fi17sh2
4	93 VU	8HK-AA	SH	E0718-02-30	2163-7116		1S	TK24	2100	84	93 V U	231VC	SH	E0718-02-30	(C) A	Fi17sh2
5	93VU	8HK-AA	7в	E0170FA2200	2163-7116	В	1s	TK24	2100	84	93 V U	231VC	48	EN3155-014M2018	(c) A	Fi17sh2
6	93VU	8HK-AA	7A	E0170FA2200	2163-7116	R	1s	TK24	2100	84	93 V U	231VC	47	EN3155-014M2018	(c) A	Fi17sh2
7	93VU	2163-7116	W.F.	E0160-1-0H	2163-0329		1s	CF24	2100	84	93 V U	627VG	GND	EN3155-015F2018	(C) A	Fi17sh2
8	93 V U	2163-7114	W.F.	E0160-1-0H	2163-0414		2S	CF24	2100	84	93 V U	619 v G	GND	EN3155-015F2018	(c) A	Fi17sh2
9	93 V U	2163-7114	W.F.	E0160-1-0H	2163-0501		2S	CF24	500	20	93 V U	235VC	69	EN3155-008M2222	(C) A	Fi17sh2
10	93 V U	2163-7116	W.F.	E0160-1-0H	2163-0505		1S	CF24	500	20	93 v u	231VC	46	EN3155-014M2018	(C) A	Fi17sh2
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25																

(c) = BUNDLE D9000095120395

W.F. = WIRE FERRULE

A = ADDED WIRE SH = SHIELD

> Figure 22 Sheet 2 Hook-up Chart (Config. 01, Config. 02 and Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 77/78



L		E N D	1				L E A	D				E N D	2			
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	In	structions
1	120VU	2163-7111	W.F.	E0160-1-0H	2163-0494		2S	CF24	500	20	120 V U	2238VC-A	3	EN3155-014M2018	(d) A	Fig.18
2	120VU	2163-7112	W.F.	Е0160-1-ОН	2163-0495		1S	CF24	500	20	120VU	2238VC-A	50	EN3155-014M2018	(d) A	Fig.18
3	93VU	2163-7111	W.F.	Е0160-1-0н	2163-0496		2S	CF24	500	20	93 V U	235VC-A	69	EN3155-003F2222	(d) A	Fig.18
4	93 v u	2163-7112	W.F.	Е0160-1-0н	2163-0497		1S	CF24	500	20	93 V U	231VC-A	46	EN3155-015F2018	(d) A	Fig.18
5	93VU	231VC-A	SH	E0718-02-30	2163-7112		1s	TK24	9000	360	120VU	2238VC-A	SH	E0718-02-30	(b) A	Fig.18
6	93VU	231VC-A	48	EN3155-015F2018	2163-7112	В	1s	TK24	9000	360	120VU	2238VC-A	49	EN3155-014M2018	(b) A	Fig.18
7	93VU	231VC-A	47	EN3155-015F2018	2163-7112	R	1s	TK24	9000	360	120VU	2238VC-A	48	EN3155-014M2018	(b) A	Fig.18
8	93VU	235VC-A	SH	E0718-02-30	2163-7111		2S	TK24	9000	360	120VU	2238VC-A	SH	E0718-02-30	(b) A	Fig.18
9	93 V U	235VC-A	71	EN3155-003F2222	2163-7111	В	2S	TK24	9000	360	120VU	2238VC-A	1	EN3155-014M2018	(b) A	Fig.18
10	93VU	235VC-A	70	EN3155-003F2222	2163-7111	R	2S	TK24	9000	360	120VU	2238VC-A	2	EN3155-014M2018	(b) A	Fig.18
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
\vdash			<u> </u>				L									
(b		LE D900009511709		SH = SH	HIELD											

(d) = BUNDLE D9000095120295

W.F. = WIRE FERRULE

A = ADDED WIRE

Figure 23 Sheet 1 Hook-up Chart (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 79/80



L i		E N D	1				LEA	D				E N D	2			
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Lenç mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Ir.	structions
1	120 V U	21HK-B	F	EN3155-019F2018	2163-0491		1s	DK22	3000	120	120 V U	1278 V N	GND	NSA936501TA2206	(d) A	Fig.19
2	120VU	21нк-в	SH	E0718-03-30	2163-7109		2S	TT24	3000	120	120VU	2238VC	SH	E0718-03-30	(d) A	Fig.19
3	120VU	21HK-B	D	EN3155-019F2018	2163-7109	В	2S	TT24	3000	120	120VU	2238VC	1	EN3155-015F2018	(d) A	Fig.19
4	120VU	21HK-B	E	EN3155-019F2018	2163-7109	R	2S	TT24	3000	120	120VU	2238VC	2	EN3155-015F2018	(d) A	Fig.19
5	120VU	21нк-в	SH	E0718-03-30	2163-7110		1s	ТТ24	3000	120	120VU	2238VC	SH	E0718-03-30	(d) A	Fig.19
6	120VU	21нк-в	В	EN3155-019F2018	2163-7110	В	1s	тт24	3000	120	120VU	2238VC	49	EN3155-015F2018	(d) A	Fig.19
7	120VU	21HK-B	А	EN3155-019F2018	2163-7110	R	1S	TT24	3000	120	120VU	2238VC	48	EN3155-015F2018	(d) A	Fig.19
8	120 V U	2163-7109	W.F.	Е0160-1-ОН	2163-0492		2S	DK24	500	20	120VU	2238VC	3	EN3155-015F2018	(d) A	Fig.19
9	120VU	2163-7110	W.F.	Е0160-1-ОН	2163-0493		1S	DK24	500	20	120VU	2238VC	50	EN3155-015F2018	(d) A	Fig.19
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																

(d) = BUNDLE D9000095120295

W.F. = WIRE FERRULE

A = ADDED WIRE

SH = SHIELD

Figure 24 Sheet 1 Hook-up Chart (Config. 01)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 81/82



L		END	1				L E A	. D				END	2			
n e		Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Insti	ructions
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	93VU 93VU 93VU 93VU 93VU 93VU 93VU 211	2163-7067 2163-7088 231VC-A 231VC-A 235VC-A 235VC-A 235VC-A 235VC-A 2405VG	W.F. W.F. SH 14 10 SH 20 19 GND		2163-0327 2163-0412 2163-7067 2163-7067 2163-7067 2163-7088 2163-7088	B R R	1S 2S 1S 1S 2S 2S 2S 1S	CF24 CF24 TK24 TK24 TK24 TK24 TK24 CF24			93VU 93VU 212 212 212 212 212 212 212	231VC-A 235VC-A 21HK-A 21HK-A 21HK-A 21HK-A 21HK-A 21HK-A 21HK-A	15 26 SH A SH D E		D D D D D	Fig.20 Fig.20 Fig.20 Fig.20 Fig.20 Fig.20 Fig.20 Fig.20
17 18 19 20 21 22 23 24 25																

D = DELETED WIRE

SH = SHIELD

W.F. = WIRE FERRULE

Figure 25 Sheet 1 Hook-up Chart (Config. 01, Config. 02 and Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 83/84

SERVICE BULLETIN

	L		E N D	1				L E A	D				E N D	2			
	n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Instr	ructions
- i l :	1	93 V U	213VT	SH		2163-7068		1s	TK24			93 V U	8HK-AA	SH		D	Fig.15
	2	93VU	213VT	13Y		2163-7068	В	1S	TK24			93 V U	8HK-AA	7в		D	Fig.15
	3	93VU	213VT	13X		2163-7068	R	1S	TK24			93 v u	8HK-AA	7A		D	Fig.15
	4	93VU	213VT	SH		2163-7089		2S	TK26			93 VU	8HK-AA	SH		D	Fig.15
	5	93VU	213VT	12Y		2163-7089	В	2S	TK26			93VU	8HK-AA	7K		D	Fig.15
	6	93VU	213VT	12X		2163-7089	R	2S	TK26			93VU	8HK-AA	7J		D	Fig.15
	7	93VU	213VT	SH		2163-7113		2S	TK26			93VU	235VC	SH		D	Fig.15
	8	93VU	213VT	12G		2163-7113	В	2S	TK26			93 V U	235VC	20		D	Fig.15
	9	93VU	213VT	12F		2163-7113	R	2S	TK26			93 V U	235VC	19		D	Fig.15
1		93VU	213VT	SH		2163-7114		2S	TK26			93 V U	235VC	SH		D	Fig.15
1		93 V U	213VT	12C		2163-7114	В	2S	TK26			93 v u	235VC	71		D	Fig.15
1		93VU	213VT	12B		2163-7114	R	2S	TK26			93VU	235VC	70		D	Fig.15
1	3	93VU	213VT	SH		2163-7115		1s	TK24			93VU	231VC	SH		D	Fig.15
1	4	93VU	213VT	13G		2163-7115	В	1s	TK24			93 V U	231VC	14		D	Fig.15
1	5	93VU	213VT	13F		2163-7115	R	1s	TK24			93 V U	231VC	10		D	Fig.15
1		93VU	213VT	SH		2163-7116		1S	TK24			93 v u	231VC	SH		D	Fig.15
1 1	7	93VU	213VT	13C		2163-7116	В	18	TK24			93 v u	231VC	48		D	Fig.15
1	8	93VU	213VT	13В		2163-7116	R	18	TK24			93VU	231VC	47		D	Fig.15
1	9	93VU	2163-7068	W.F.		2163-0328		1s	CF24			93VU	213VT	13V		D	Fig.15
2	0	93VU	2163-7068	W.F.		2163-0329		1s	CF24			93VU	627VG	GND		D	Fig.15
2	1	93VU	2163-7089	W.F.		2163-0413		2S	CF24			93 V U	213VT	12V		D	Fig.15
2	2	93VU	2163-7089	W.F.		2163-0414		25	CF24			93 V U	619VG	GND		D	Fig.15
2	3	93VU	2163-7113	W.F.		2163-0499		2S	CF24			93VU	235VC	26		D	Fig.15
2	4	93 V U	2163-7113	W.F.		2163-0500		28	CF24			93 V U	213VT	12E		D	Fig.15
2.	5	93VU	2163-7114	W.F.		2163-0501		2S	CF24			93VU	235VC	69		D	Fig.15

D = DELETED WIRE

SH = SHIELD

W.F. = WIRE FERRULE

Figure 26 Sheet 1 Hook-up Chart (Config. 02)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 85/86



L		END	1				L E A	D				E N D	2			
n e	Zone or	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Co	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Ins	tructions
1 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	93VU 93VU 93VU	2163-7115 2163-7115 2163-7116 2163-7116	W.F. W.F. W.F.		2163-0502 2163-0503 2163-0505 2163-0506		2s 1s 1s 1s	CF24 CF24 CF24 CF24			93VU 93VU 93VU 93VU	213VT 231VC 213VT 231VC 213VT	12A 15 13E 46 13A		D D D	Fig.15 Fig.15 Fig.15 Fig.15

D = DELETED WIRE W.F. = WIRE FERRULE

Figure 27 Sheet 1 Hook-up Chart (Config. 02)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 87/88

SERVICE BULLETIN

	L		E N D	1				L E A	D				E N D	2			
	n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Instr	ructions
- (l :	1	93 V U	213VT	SH		2163-7068		1s	TK24			93 V U	8HK-AA	SH		D	Fig.16
- :	2	93VU	213VT	13Т		2163-7068	В	1S	TK24			93 V U	8HK-AA	7в		D	Fig.16
	3	93VU	213VT	13S		2163-7068	R	1S	TK24			93 v u	8HK-AA	7A		D	Fig.16
- -	4	93VU	213VT	SH		2163-7089		2S	TK26			93 VU	8HK-AA	SH		D	Fig.16
	5	93VU	213VT	12Т		2163-7089	В	2S	TK26			93VU	8HK-AA	7K		D	Fig.16
- 11 '	6	93VU	213VT	12S		2163-7089	R	2S	TK26			93VU	8HK-AA	7J		D	Fig.16
-	7	93VU	213VT	SH		2163-7113		2S	TK26			93VU	235VC	SH		D	Fig.16
- 11 3	8	93VU	213VT	12G		2163-7113	В	2S	TK26			93 V U	235VC	20		D	Fig.16
	9	93VU	213VT	12F		2163-7113	R	2S	TK26			93 V U	235VC	19		D	Fig.16
1		93VU	213VT	SH		2163-7114		2S	TK26			93 v u	235VC	SH		D	Fig.16
1		93 V U	213VT	12C		2163-7114	В	2S	TK26			93 v u	235VC	71		D	Fig.16
1		93VU	213VT	12B		2163-7114	R	2S	TK26			93VU	235VC	70		D	Fig.16
1	3	93VU	213VT	SH		2163-7115		1S	TK24			93VU	231VC	SH		D	Fig.16
14	4	93VU	213VT	13G		2163-7115	В	1s	TK24			93 V U	231VC	14		D	Fig.16
1	5	93VU	213VT	13F		2163-7115	R	1s	TK24			93 V U	231VC	10		D	Fig.16
1		93VU	213VT	SH		2163-7116		1S	TK24			93 V U	231VC	SH		D	Fig.16
1		93VU	213VT	13C		2163-7116	В	1S	TK24			93 V U	231VC	48		D	Fig.16
1		93VU	213VT	13B		2163-7116	R	1S	TK24			93VU	231VC	47		D	Fig.16
19		93VU	2163-7068	W.F.		2163-0328		1s	CF24			93VU	213VT	13R		D	Fig.16
2		93VU	2163-7068	W.F.		2163-0329		1s	CF24			93VU	627VG	GND		D	Fig.16
2:		93VU	2163-7089	W.F.		2163-0413		2S	CF24			93 V U	213VT	12R		D	Fig.16
2:		93VU	2163-7089	W.F.		2163-0414		2S	CF24			93 V U	619VG	GND		D	Fig.16
2		93VU	2163-7113	W.F.		2163-0499		2S	CF24			93 V U	235VC	26		D	Fig.16
24		93 V U	2163-7113	W.F.		2163-0500		28	CF24			93 v u	213VT	12E		D	Fig.16
2.	5	93VU	2163-7114	W.F.		2163-0501		25	CF24			93VU	235VC	69		D	Fig.16

D = DELETED WIRE

SH = SHIELD

W.F. = WIRE FERRULE

Figure 28 Sheet 1 Hook-up Chart (Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 89/90



L i		E N D	1				L E A	D				E N D	2			
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	In	structions
1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	93VU 93VU 93VU 93VU 93VU	2163-7114 2163-7115 2163-7116 2163-7116	W.F. W.F. W.F. W.F.		2163-0502 2163-0503 2163-0504 2163-0505 2163-0506		2S 1S 1S 1S 1S	CF24 CF24 CF24 CF24			93VU 93VU 93VU 93VU 93VU	213VT 231VC 213VT 231VC 213VT	12A 15 13E 46 13A		D D D	Fig.16 Fig.16 Fig.16 Fig.16
19 20 21 22 23 24 25																

W.F. = WIRE FERRULE

= DELETED WIRE

D

Figure 29 Sheet 1 Hook-up Chart (Config. 03)

DATE : Aug 06/98 SERVICE BULLETIN No. : A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 91/92



SERVICE BULLETIN REPORTING SHEET

TITLE : AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - RELOCATE

COCKPIT TEMPERATURE REGULATION SENSOR.

MODIFICATION No.: 26601P4974 26602P4973 26713P5392

Please complete the appropriate item :

Signature :

	•	or embodiment	
	Rejected		YES/NO
		If YES,	please provide
		short e	xplanation
From Airline :			
Name/Title :			

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.

Date :

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.

5 DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 1 of 1



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)

_	Is this	SB easy	to	und	lerstand ?		Υ /	N		
-	Quality	rating	o f	the	Illustrations		4	3	2	1
-	Quality	rating	o f	the	Accomplishment	Instructions	4	3	2	1
-	Quality	rating	o f	this	SB		4	3	2	1

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
Χ	Effectivity)	Χ	Kit Content	Χ	Preparation
Χ	Reason	X	List of Materials	Χ	Mod/Inspection
Χ	Manpower		Operator Supplied	X	Test
Χ	References)	X	Re-identification	X	Close-up
X	Publication)	Χ	Tooling	Χ	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.

5 DATE: Aug 06/98 SERVICE BULLETIN No.: A320-21-1112

REVISION No.: 02 - Dec 21/00 Page: 1 of 1