### SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
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Tel : (33) 5 61 93 33 33

Telex: AIRBU 530526F

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ATA SYSTEM: 21

TITLE: AIR CONDITIONING - PACK COOLING AIR CONTROL - INTRODUCE LOGIC RELAY FOR

CONTROL PACK CLOSURE AT ENGINE START.

MODIFICATION No.: 27993P5459

This page transmits Revision No. 03 of Service Bulletin No. A320-21-1121.

#### ADDITIONAL WORK

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

#### **REASON**

Revision 03 has been issued to update the test and the effectivity.

#### **CHANGES**

#### PLANNING INFORMATION:

- EFFECTIVITY
  - . Effectivity updated.

#### ACCOMPLISHMENT INSTRUCTIONS :

- TESTS
  - . Test after the installation of the relay updated.

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

### **FILING INSTRUCTIONS**

This Service Bulletin has been generated electronically and is reissued as a complete document. Replace the complete document.

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

### **HISTORY OF PREVIOUS REVISIONS**

Revision 01 was issued to change a bundle because of incorrect wire identifications and wire terminal.

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## SERVICE BULLETIN REVISION TRANSMITTAL SHEET

- 3612-0285 on aircraft should be 2151-0285
- 3612-0148 on aircraft should be 2151-0148
- 3612-0173 on aircraft should be 2151-0173
- 3612-0284 on aircraft should be 2151-0284
- 3612-0364 on aircraft should be 2151-0364
- 3612-1000 on aircraft should be 3612-0100

The incorrect identified bundel was deleted from Kit A01 and was transferred to the new created Kit A02 which now contains the new bundle (PN D9000095120195) with correctly identified wires.

Config. 01 and Config. 02 were added.

Revision 02 was issued to incorporate minor changes. The revision also includes the manhour requirements for the additional work which was added during Revision No. 1 and to updates the effectifity.

#### **REVISION SEQUENCE**

ORIGINAL: Nov 30/99

REVISION No. : 01 - Nov 07/00 REVISION No. : 02 - Aug 22/01 REVISION No. : 03 - Jan 29/03

DATE: Nov 30/99 SERVICE BULLETIN No.: A320-21-1121

#### SERVICE BULLETIN SUMMARY

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

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - PACK COOLING AIR CONTROL - INTRODUCE LOGIC RELAY FOR

CONTROL PACK CLOSURE AT ENGINE START.

MODIFICATION No.: 27993P5459

#### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Several operators have reported unexpected closure of both pack flow control valves in flight. This was due to an erroneous signal from the Engine Interface Unit (EIU).

This Service Bulletin describes the modification to the aircraft wiring to take into consideration the position of the Environmental Control System (ECS) X-Bleed Valve. This will prevent the unexpected closure of both pack flow control valves.

Accomplishment of this Service Bulletin will improve the independence of operation of both pack-flow control valves during main engine start mode.

Furthermore, if the X-Bleed Valve is detected closed, the closure of only one pack instead of two will be commanded by the EIU discrete signal.

This Service Bulletin has been validated before delivery on A320 aircraft MSN 0975.

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

### **EFFECTIVITY**

This Service Bulletin is applicable to these customers:

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### SERVICE BULLETIN SUMMARY

002	86Z	AAR	ACA	ADR	AEF	AES	AFR	AIH	AJM	ALK	AMC	AMM	AMU	ANA	AUA	AWE	AWW	AZA	BAW
BMA	CES	CIB	CJG	CNW	CRX	CSC	CSN	CTN	CYP	C3J	C9L	DLH	EDW	EIN	EWG	FIN	F2I	GFA	G2X
G4I	HDA	HVN	IAC	IBE	IWD	I2L	JMC	KAC	KZW	LAJ	LFR	LXR	MEA	MON	MSR	MXA	NWA	OHY	PAL
PIC	QAF	QTR	RJA	SAB	SEU	SHJ	SHK	SLK	SSV	SYR	S2A	TAI	TAM	TAP	TAR	TAS	TCW	TNA	TWE
TWJ	UAL	USA	VIR	VKG	VLE														

### **CONCURRENT REQUIREMENTS**

None

### REFERENCES/REPERCUSSIONS

TFU : 73.25.00.019 (IAE Engines)

73.25.34.044 (CFM Engines)

OEB : None
AOT : None
SIL : None
LIFE LIMIT : None
LINE MAINTENANCE AFFECTED : None
OTHERS : None

### NATURE OF THE WORK

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

#### MANPOWER

Kit 211121A01R02 and Kit 211121A02R01

TOTAL MANHOURS 22.0

ELAPSED TIME (HOURS) 18.0

### MATERIAL INFORMATION

AIRCRAFT DATA

bundle, placard set, relay

### **APPENDICES**

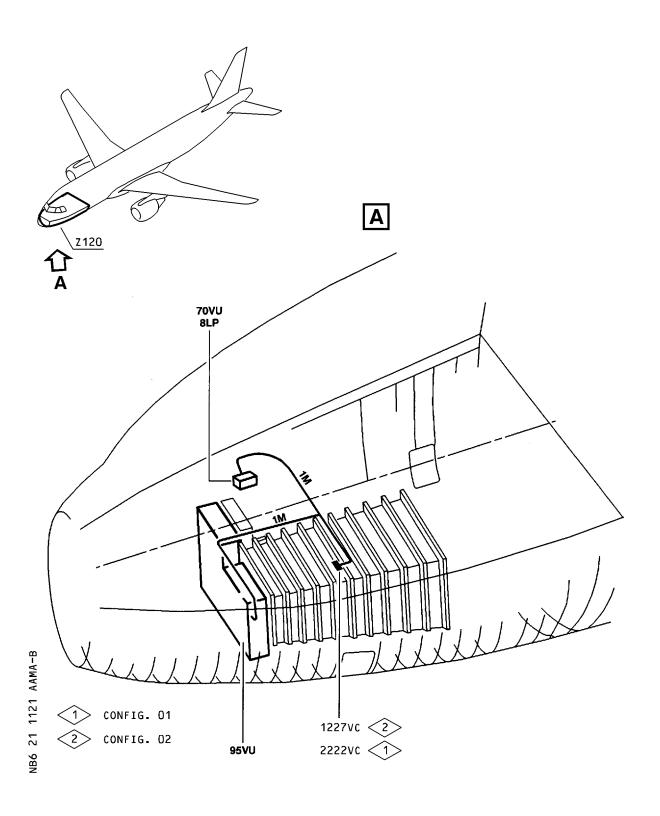
None

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#### 1. PLANNING INFORMATION

#### A. <u>EFFECTIVITY</u>

(1) Models

319-111 319-112 319-113 319-114 319-115 319-131 319-132 319-133 320-111 320-211 320-212 320-214 320-231 320-232 320-233 321-111 321-112 321-131 321-211 321-231

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

This Service Bulletin is applicable to aircraft MSN:

- NOTE (1) This modification is embodied before delivery on aircraft MSN 1021 and subsequent.
- NOTE (2) This Service Bulletin has been validated before delivery on A320 aircraft MSN 0975 .
- (b) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the

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information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
002	0588
86Z	0460
AAR	0771 0855
ACA	0059       0068       0073       0084       0122       0126       0127       0141       0149       0150         0154       0159       0174       0175       0183       0210       0231       0232       0233       0242         0248       0253       0254       0255       0265       0277       0279       0283       0284       0290         0302       0305       0309       0310       0311       0324       0330       0333       0341       0342         0350       0359       0378       0384       0403       0404       0426       0546       0572       0634         0639       0649       0656       0670       0672       0674       0675       0682       0684       0688         0691       0693       0695       0697       0711       0719       0721       0728       0732       0736         0740       0742       0752       0757       0769       0773       0779       0785       0800       0813         0817       0829       0831       0840       0845       0845
ADR	0043 0113 0114
AEF	0565 0575 0580 0659 0661 0667 0787 0792 0954 0990 1004
AES	0739 0743 0839 0892
AFR	0002 0003 0004 0005 0007 0010 0012 0013 0014 0016 0019 0020 0021 0033 0036 0044 0061 0062 0063 0100 0101 0102 0108 0115 0128 0129 0130 0131 0133 0144 0145 0155 0156 0184 0186 0187 0188 0203 0204 0211 0214 0215 0220 0226 0227 0228 0235 0236 0237 0239 0244 0270 0278 0285 0286 0287 0337 0352 0377 0491 0498 0509 0521 0529 0544 0598 0600 0608 0618 0625 0637 0644 0647 0660 0761 0777 0796 0938 0956 0985 0998 1000 1020
AIH	0163 0164 0168 0169 0179 0193 0230 0362 0363 0424 0444 0449 0808 0823
MCA	0422 0528 0624 0626 0628 0630 0666 0775
ALK	0304 0406
AMC	0112 0293 0331
AMM	0677 0781 0852 1006 1017
AMU	0550 0557 0573 0582 0620 0631 0805 0908
ANA	0138 0139 0148 0151 0167 0170 0196 0212 0219 0245 0300 0328 0365 0383 0413 0482 0501 0507 0531 0534 0549 0554 0658 0669 0685 0802 0811 0963 1008
AUA	0552 0570 0581 0768 0776 0797 0920 0935
AWE	0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082 0091 0092 0098 0099 0238 0271 0315 0317 0448 0455 0471 0527 0543 0584 0762 0770 0803 0856 0866 0889 0924 0931 0953 1003

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OPERATOR	MSN
AWW	0022 0023 0229 0397 0446
AZA	0434 0477 0488 0494 0495 0513 0514 0515 0516 0524 0526 0532 0576 0583 0586 0593 0599 0765 0819 0848 0940 0951 0959 0999
BAW	0006 0008 0011 0017 0018 0039 0042 0103 0109 0120
BMA	0806 0810 0835 0864 0934 0968 0974 1014
C3J	0772 0799 0828 0883 0914 0925
C9L	0547 0615 0622 0632 0662
CES	1005
CIB	0774 0793 0809 0884 0894 0905 0957 0971
CJG	0707 0724 0876 0921
CNW	0665 0754 0838 0854 0897 0909 0939 0967 0984 0986
CRX	0517 0519 0520 0577 0578 0585 0596 0603 0612 0621 0635 0643 0664 0673 0681 0701 0703 0713 0727 0734 0782 0827 0870 0891 0987 1018
CSC	0540 0551 0556 0878 0915 0919 1013
CSN	0696 0698 0704 0705 0709 0710 0712 0718 0720 0722 0849 0859 0881 0895 0900 0950 0966
CTN	0258 0767 0833 1009
CYP	0028 0035 0037 0038 0180 0256 0295 0316 0414 0430
DLH	0069 0070 0071 0072 0078 0083 0093 0104 0110 0111 0116 0117 0135 0137 0147 0161 0162 0172 0200 0201 0202 0209 0216 0217 0218 0267 0268 0269 0346 0382 0401 0412 0458 0468 0473 0474 0484 0493 0502 0505 0518 0560 0563 0564 0567 0595 0609 0610 0616 0623 0627 0636 0652 0689 0692 0694 0699 0700 0717 0723 0729 0738 0744 0853 0860 0875 0887 0901
EDW	0942 0947
EIN	0815 0841 0926 0991
EWG	0086 0646 0654 0794 1016
F2I	0025 0030 0140 0142 0157 0522 0533 0541 0545 0548 0553 0559 0562 0566 0574 0629 1012
FIN	0941 0961
G2X	0132
G4I	1002
GFA	0325 0375 0419 0421 0438 0445 0459 0466 0497 0537
HDA	0633 0756 0784 0812 0816 0877 0930 0993
HVN	0590 0591 0594 0597 0601 0605 0607 0611 0617 0619 0648 0650
I2L	0371 0530 0535 0542 0642 0726

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OPERATOR	MSN
IAC	0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075 0080 0089 0090 0095 0096 0097 0247 0257 0308 0314 0327 0336 0396 0398 0416 0423 0431 0432 0451 0469 0486 0490 0492 0499
IBE	0134 0136 0143 0146 0158 0173 0176 0177 0199 0207 0223 0224 0240 0241 0246 0264 0266 0274 0303 0312 0323 0356 0992 0994
IWD	0225 0879 0888
JMC	0393 0714 0716 0730 0735
KAC	0181 0182 0195
KZW	0094 0641 0651 0679
LAJ	0376 0386 0480
LFA	0313 0345
LXR	0191 0395
MEA	0640 0663 0668 0676 0760
MON	0379 0389 0391 0392 0983 1015
MSR	0165 0166 0178 0194 0198 0351 0366 0680 0687 0715 0725
MXA	0252 0259 0260 0261 0275 0276 0280 0291 0292 0296 0320 0321 0332 0347 0353 0361 0368 0369 0373 0405 0415 0428 0467
NWA	0031 0032 0034 0040 0041 0060 0106 0107 0118 0121 0125 0152 0153 0160 0171 0192 0197 0206 0208 0213 0262 0263 0272 0273 0281 0282 0297 0298 0306 0307 0318 0319 0329 0339 0340 0355 0358 0360 0367 0372 0380 0381 0387 0388 0399 0400 0408 0410 0417 0418 0766 0778 0786 0801 0807 0818 0830 0832 0846 0903 0907 0911 0923 0962 0964 0981 0988 0996 1011
OHY	0364 0385
PAL	0706 0745 0753
PIC	0604 0614
QAF	0927
QTR	0928 0932 0943 0977
RJA	0087 0088 0289 0407 0569
S2A	0024 0026 0027 0029
SAB	0970 0995
SEU	0653 0657 0737 0749 0973
SHJ	0910
SHK	0322 0326 0344 0478
SLK	0872 0899 0969

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OPERATOR	MSN									
SSV	0338 ( 0645 (		_	0429	0437	0447	0476	0496	0525	0579
SYR	0886	0918								
TAI	0425 ( 0912 (	-		0561	0733	0741	0747	0789	0874	0902
TAM	0243 ( 1010	0249	0250	0251	0334	0335	0440	0453	0758	0976
TAP	0185 ( 0933 (					0790	0821	0837	0906	0917
TAR	0119 ( 0958 (	-	0124	0205	0370	0390	0402	0511	0869	0880
TAS	0814 (	0937								
TCW	0354 (	0357	0394	0411	0443					
TNA	0441 (	0538	0555	0602	0606	0731	0746	0791	0822	
TWE	0288 (	0978								
TWJ	0913									
UAL	0435 (0464 (0500 (0571 (0690 (0820 (0851 (0898 (0898 (0851 (0898 (0898 (0851 (0898 (0888 (	0465 0503 0587 0702 0824 0857 0944	0470 0504 0589 0748 0825 0858 0948	0472 0506 0592 0751 0826 0862 0952	0475 0508 0613 0759 0834 0865 0955	0479 0510 0638 0780 0836 0867 0965	0483 0512 0655 0783 0842 0871 0980	0485 0523 0678 0788 0843 0873 0989	0487 0539 0683 0798 0847 0882 1001	0489 0568 0686 0804 0850 0893
USA	0844 ( 0936 (						0896	0904	0922	0929
VIR	0764									
VKG	0221 (	0222	0294	0299	0301	0348	0349			
VLE	0085 (	0189	0190	0343	0420	0436				

### (c) Effectivity by MSN and Kit/Configuration

The kits and configurations applicable to these MSNs are given at the end of this list: 0002-0008 0010-0014 0016-0021 0028 0031-0068 0073-0077 0080-0082 0084-0085 0087-0092 0095-0103 0106-0109 0112-0115 0118-0131

NOTE: Config. 01 is valid for aircraft on which Mod. No. 21678K1694 (ELECTRICAL POWER - AC/DC ESSENTIAL POWER

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DISTRIBUTION - PROVIDE PROVISIONS FOR ETOPS) is not embodied.

The kits and configurations applicable to these MSNs are given at the end of this list: 0132-0432 0434-0480 0482-0535 0537-0707 0709-1020

KIT No.	QTY PER A/C	CONFIGURATION
211121A01	1	02
211121A02	1	02

NOTE: Config. 02 is valid for aircraft on which Mod. No. 21678K1694 (ELECTRICAL POWER - AC/DC ESSENTIAL POWER DISTRIBUTION - PROVIDE PROVISIONS FOR ETOPS) is embodied.

The kits and configurations applicable to these MSNs are given at the end of this list: 0022-0027 0029-0030 0069-0072 0078 0083 0086 0093-0094 0104 0110-0111 0116-0117

KIT No.	QTY PER A/C	CONFIGURATION
211121A01	1	01
		02
211121A02	1	01
		02

NOTE (1) The wiring must be modified in accordance with Config. 01 or Config. 02

Selection of Config. 01 or Config. 02 depends on the embodiment of A320-24-1048 (Mod. No. 21678J0513, No. 21678K1689, No. 21678K1694, No. 21678K1806, No. 21678P1731, No. 21678P1828).

- NOTE (2) Config. 01 is valid for aircraft on which Service Bulletin No. A320-24-1048 (Mod. No. 21678J0513, No. 21678K1689, No. 21678K1694, No. 21678K1806, No. 21678P1731, No. 21678P1828) is not embodied.
- NOTE (3) Config. 02 is valid for aircraft on which Service Bulletin No. A320-24-1048 (Mod. No. 21678J0513, No. 21678K1689, No. 21678K1694, No. 21678K1806, No. 21678P1731, No. 21678P1828) is embodied.

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(3) Spares

None

#### B. <u>CONCURRENT REQUIREMENTS</u>

None

#### C. REASON

### (1) History

Several operators have reported unexpected closure of both pack flow control valves in flight. This was due to an erroneous signal from the Engine Interface Unit (EIU).

### (2) Objective/Action

This Service Bulletin describes the modification to the aircraft wiring to take into consideration the position of the Environmental Control System (ECS) X-Bleed Valve. This will prevent the unexpected closure of both pack flow control valves.

### (3) Advantages

Accomplishment of this Service Bulletin will improve the independence of operation of both pack-flow control valves during main engine start mode.

Furthermore, if the X-Bleed Valve is detected closed, the closure of only one pack instead of two will be commanded by the EIU discrete signal.

#### (4) Operational/Maintenance Consequences

This Service Bulletin has an operational impact. You are therefore requested to inform AIRBUS, at least four weeks in advance, of your intention to accomplish this Service Bulletin, in order to receive required amendments to your operational documentation. For this purpose, please send a fax, telex or mail to:

AI/SE-D, AIRBUS - Customer Services Directorate Fax No. (33) 5 61 93 28 06 Sita No. TLSBP7X E-mail sb.reporting@airbus.fr

These amendments will be confirmed by the next normal revision of operational documentation, once your Service Bulletin accomplishment report has been sent, as usual, to our Customer Services Directorate (SE-D).

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#### SERVICE BULLETIN

#### D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Kit 211121A01R02 and Kit 211121A02R01
  - (a) Modify the equipment and the wiring in the Shelf 95VU in the FWD Electronics Rack 90VU.
  - (b) Modify the wiring between the Shelf 95VU in the FWD
    Electronics Rack 90VU and the Annunciator Light Test Unit

#### E. COMPLIANCE

(1) Classification

Recommended

(2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

#### 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

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assumes that the work will be done by experienced personnel, and may need to be revised upwards to suit operators' circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying times for paints, sealants, etc.., and general administration work are also not included.

#### Kit 211121A01R02 and Kit 211121A02R01

Get access	1.0
Modify equipment and wiring in 95VU	4.0
Modify wiring between 95VU and 70VU	13.0
Tests	3.0

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Close-up 1.0
TOTAL MANHOURS 22.0
ELAPSED TIME (HOURS) 18.0

#### H. WEIGHT AND BALANCE

Manufacturers Empty Weight: +0.07 kg (+0.15 lb)

Effect on Balance : +0.35 kgm (+2.55 lb.ft)

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

Not changed

### J. <u>REFERENCES</u>

Aircraft Maintenance Manual (AMM) : 12-34-24 20-00-00 20-28-00 21-31-00 21-31-34 21-43-34

21-31-00 21-31-34 21-43-34 21-51-00 21-61-34 24-22-33 24-38-51 24-41-00 31-60-00 34-36-31 36-11-34 52-11-00

52-40-00 52-41-00

Elec. Std. Practices Manual (ESPM) : 20-30-00 21-51-10 20-52-21

Service Bulletin : A320-24-1048

### K. PUBLICATIONS AFFECTED

Aircraft Wiring Manual (AWM) : 21-51-00 21-51-03 21-63-07

36-12-00 36-12-02 93-00-00

93-00-95

Aircraft Schematic Manual (ASM) : 21-51-00 36-12-00

Illustrated Parts Catalog (IPC) : 36-12-08
Trouble Shooting Manual (TSM) : 21-00-00

Aircraft Wiring Lists (AWL)

Flight Crew Operating Manual (FCOM) : Chapter 1-21-10 Vol. 1

Aircraft Maintenance Manual (AMM) : 21-51-00

#### L. INTERCHANGEABILITY/MIXABILITY

None

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#### 2. MATERIAL INFORMATION

#### A. MATERIAL - PRICE AND AVAILABILITY

#### (1) Material

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

AIRBUS MATERIEL SUPPORT CENTER P.O. Box 630262 22312 HAMBURG GFRMANY

### (2) Price and Availability

Kit 211121A01R02 and Kit 211121A02R01

Cost : \* US Dollars

Availability: 150 calendar days from receipt of order

\* FOC - AIRBUS will make the material available Free Of Charge for orders placed before Dec 31/02.

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. <u>LIST OF COMPONENTS</u>

Kit 211121A01R02

ITEM	NEW PART No.	QTY UM	KEYWORD	ITEM	OLD PART	No. INT	INST DISP
1	E0245-28A0	1	Relay				
	D9100095105695	1	PLCRDSET				
	E0250A0S	1	Base				
	MS21042L04	2	Nut				
	NSA935401-03	105	Tie				
	NSA935401-04	25	Tie				
	NSA935401-05	80	Tie				
	NSA935401-08	80	Tie				

Kit 211121A02R01

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ITEM NEW PART No. QTY UM KEYWORD ITEM OLD PART No. INT INST DISP

D9000095120195 1 Bundle

D. <u>LIST OF MATERIALS - OPERATOR SUPPLIED</u>

None

E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

None

F. TOOLING - PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None

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### 3. ACCOMPLISHMENT INSTRUCTIONS

#### A. **GENERAL**

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

#### (1) Preparation

- (a) Make sure that the aircraft is electrically grounded, (Refer to AMM 12-34-24 Page block 201).
- (b) Put the access platform(s) in position.
- (c) Open the avionics compartment doors 811, 812, and 822, (Refer to AMM 52-41-00 Page block 001).
- (d) Open, safety and tag these circuit breakers:

PANEL	DESIGNATION	FIN	LOCATION
123VU	GEN1/EGIU1/115VAC	23XU1	AF12
123VU	GEN2/EGIU2/115VAC	23XU2	AF01
123VU	GND/PWR/PROT	2XG	AB07
122VU	ELEC/EXT PWR/CTL	11XG	X29
123VU	APU GEN/EGIU2/115VAC	23XS	AA08
106VU	CSM/G /EV/MAN/SPLY	6XE	B04
105VU	ELEC/CSM/G /EV AUTO/SPLY	7XE	C01
125VU	BAT BUS/301PP/SPLY	11PB	CC01
105VU	ELEC/HOT BUS/701PP SPLY	12PB1	E01
105VU	ELEC/HOT BUS/702PP SPLY	12PB2	E02
105VU	ELEC/HOT BUS/701PP SPLY	5PB1	D01
105VU	ELEC/HOT BUS/702PP SPLY	5PB2	D02
105VU	ELEC/BAT/REF/BCL1	9PB1	AS01
105VU	ELEC/BAT/REF/BCL2	9PB2	AS01
105VU	FLT CTL/ELAC1/STBY SPLY	16CE1	A01
105VU	FLT CTL/ELAC2/STBY/SPLY	16CE2	A02
105VU	FLT CTL/SEC1/STBY SPLY	22CE	B01
105VU	ADIRS/ADIRU1/28VDC	6FP1	C02
105VU	ELEC/STAT INV/CNTOR/CTL	14XB	G02

(e) Disconnect the battery connectors (2PB1, 2PB2) before you do this Service Bulletin, (Refer to AMM 24-38-51 Page block 401).

#### (2) Standard Practices

- (a) Put blanking caps on the disconnected electrical connectors.
- (b) Do the electrical bonding, (Refer to AMM 20-28-00 Page block 201).

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- (c) Obey the instructions of the wiring installation, (Refer to ESPM 20-30-00).
- (d) After the installation or modification of electrical wires, you must do a continuity test (Refer to ESPM 20-52-21).

#### **B.** MODIFICATION

- (1) Kit 211121A01R02 and Kit 211121A02R01, Config. 01
  - (a) Modify the equipment and the wiring in the Shelf 95VU in the FWD Electronics Rack 90VU

Refer to figures 1, 2, 3 and 6

- 1 On aircraft
  - a Remove all the computers installed in the Shelf 95VU

Refer to figure 1

(Refer to AMM 34-36-31 Page block 401)

(Refer to AMM 24-22-33 Page block 401)

(Refer to AMM 36-11-34 Page block 401)

(Refer to AMM 21-31-34 Page block 401)

(Refer to AMM 21-61-34 Page block 401)

(Refer to AMM 21-43-34 Page block 401)

FIN 2RT1 (or FIN 40RT1)

1 ILS Receiver (or MMR)

Retain

FIN 22XU1

L EGIU

Retain

FIN 1HA1

1 BMC

1

Retain

FIN 11HL

1 CPC

Retain

FIN 7HH

1 Pack Controller

Retain

FIN 1HC (If Mod. No. 20082K0067 is embodied)

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1 FWD Cargo Heat Controller

Retain

NOTE: You must install these computers again in ACCOMPLISHMENT INSTRUCTIONS paragraph 3.B.(1)(a)4.

- <u>b</u> Put blanking caps on the disconnected electrical connectors.
- c Disconnect the bonding braid.
- d Remove the attachment hardware from the shelf.

NOTE: Retain the hardware.

- 2 Remove the Shelf 95VU and install it on the work bench
  - $\underline{a}$  Install the relay 7HV:

Refer to figure 1

1 Relay E0245-28A0 Item 1

1 Base E0250A0S

with:

2 Nuts MS21042L04

Adjacent to the relay, in front and at the rear of it, bond the placard identified 7HV, supplied in:

1 Placard Set D9100095105695

<u>b</u> Modify the wiring in the Shelf 95VU in the FWD Electronics Rack 90VU

Refer to figures 1, 2, 3 and 6

- Remove the wires shown on the lines 1 thru 6 (Refer to figure 6).
- Install the wires shown on the lines 11 thru 22 (Refer to figure 6), supplied in:

Bundle D9000095120195

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

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

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25 Ties-Cable NSA935401-03 25 Ties-Cable NSA935401-04

- Do a continuity test of the new electrical wires.

- 3 Install the Shelf 95VU on aircraft.
  - a Do the electrical bonding on the shelf attachment.
  - <u>b</u> Attach the Shelf 95VU and connect the bonding braid with the hardware retained in ACCOMPLISHMENT INSTRUCTIONS paragraph B.(1) (a) 1.
  - c Connect the related connectors.
- 4 In the Shelf 95VU, install:

(Refer to AMM 34-36-31 Page block 401)

(Refer to AMM 24-22-33 Page block 401)

(Refer to AMM 36-11-34 Page block 401)

(Refer to AMM 21-31-34 Page block 401)

(Refer to AMM 21-61-34 Page block 401)

(Refer to AMM 21-43-34 Page block 401)

FIN 2RT1 (or 40RT1)

1 ILS Receiver (or MMR)

FIN 22XU1

1 EGIU

FIN 1HA1

1 BMC

FIN 11HL

1 CPC

FIN 7HH

1 Pack Controller

FIN 1HC (If Mod. No. 20082K0067 is embodied)

1 FWD Cargo Heat Controller

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#### SERVICE BULLETIN

NOTE: All these computers were retained at removal.

(b) Modify the wiring between the Shelf 95VU in the FWD Electronics Rack 90VU and the Annunciator Light Test Unit 70VU

Refer to figures 2, 3 and 6

 $\underline{1}$  Remove the wires shown on the line 7 (Refer to figure 6).

2 Install the wires shown on the lines 23 thru 24 (Refer to figure 6 ), supplied in :

Bundle

D9000095120195

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

- <u>3</u> Cut the wires to the necessary length, crimp the terminals and connect them.
- 4 Attach the wires with:

80 Ties-Cable NSA935401-03 80 Ties-Cable NSA935401-05 80 Ties-Cable NSA935401-08

- (2) Kit 211121A01R02 and Kit 211121A02R01, Config. 02
  - (a) Modify the equipment and the wiring in the Shelf 95VU in the FWD Electronics Rack 90VU

Refer to figures 1, 4, 5 and 7

- 1 On aircraft
  - a Remove all the computers installed in the Shelf 95VU

Refer to figure 1

(Refer to AMM 34-36-31 Page block 401)

(Refer to AMM 24-22-33 Page block 401)

(Refer to AMM 36-11-34 Page block 401)

(Refer to AMM 21-31-34 Page block 401)

(Refer to AMM 21-61-34 Page block 401)

(Refer to AMM 21-43-34 Page block 401)

FIN 2RT1 (or FIN 40RT1)

1 ILS Receiver (or MMR)

Retain

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#### SERVICE BULLETIN

FIN 22XU1

1 EGIU Retain

FIN 1HA1

1 BMC Retain

FIN 11HL

1 CPC Retain

FIN 7HH

1 Pack Controller Retain

FIN 1HC (If Mod. No. 20082K0067 is embodied)

1 FWD Cargo Heat Controller

Retain

NOTE: You must install these computers again in ACCOMPLISHMENT INSTRUCTIONS paragraph 3.B.(2)(a)4.

- <u>b</u> Put blanking caps on the disconnected electrical connectors.
- c Disconnect the bonding braid.
- d Remove the attachment hardware from the shelf.

NOTE: Retain the hardware.

- 2 Remove the Shelf 95VU and install it on the work bench
  - $\underline{a}$  Install the relay 7HV:

Refer to figure 1

1 Relay E0245-28A0 Item 1

1 Base E0250A0S

with:

2 Nuts MS21042L04

Adjacent to the relay, in front and at the rear of it, bond the placard identified 7HV, supplied in :

1 Placard Set D9100095105695

<u>b</u> Modify the wiring in the Shelf 95VU in the FWD Electronics Rack 90VU

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#### SERVICE BULLETIN

Refer to figures 1, 4, 5 and 7

- Remove the wires shown on the lines 1 thru 6 (Refer to figure 7).
- Install the wires shown on the lines 11 thru 22 (Refer to figure 7), supplied in:

Rundle

D9000095120195

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

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

25 Ties-Cable NSA935401-03 25 Ties-Cable NSA935401-04

- Do a continuity test of the new electrical wires.
- 3 Install the Shelf 95VU on aircraft.
  - a Do the electrical bonding on the shelf attachment.
  - <u>b</u> Attach the Shelf 95VU and connect the bonding braid with the hardware retained in ACCOMPLISHMENT INSTRUCTIONS paragraph B.(2) (a) 1.
  - c Connect the related connectors.
- 4 In the Shelf 95VU, install:

(Refer to AMM 34-36-31 Page block 401)

(Refer to AMM 24-22-33 Page block 401)

(Refer to AMM 36-11-34 Page block 401)

(Refer to AMM 21-31-34 Page block 401)

(Refer to AMM 21-61-34 Page block 401)

(Refer to AMM 21-43-34 Page block 401)

FIN 2RT1 (or 40RT1)

1 ILS Receiver (or MMR)

FIN 22XU1

1 EGIU

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#### SERVICE BULLETIN

FIN 1HA1

1 BMC

FIN 11HL

1 CPC

FIN 7HH

1 Pack Controller

FIN 1HC (If Mod. No. 20082K0067 is embodied)

1 FWD Cargo Heat Controller

NOTE: All these computers were retained at removal.

(b) Modify the wiring between the Shelf 95VU in the FWD Electronics Rack 90VU and the Annunciator Light Test Unit 70VU

Refer to figures 4, 5 and 7

- $\underline{1}$  Remove the wires shown on the line 7 (Refer to figure 7).
- 2 Install the wires shown on the lines 23 thru 24 (Refer to figure 7), supplied in:

Bundle

D9000095120195

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

- <u>3</u> Cut the wires to the necessary length, crimp the terminals and connect them.
- 4 Attach the wires with:

80	Ties-Cable	NSA935401-03
80	Ties-Cable	NSA935401-05
80	Ties-Cable	NSA935401-08

#### C. TEST

- (1) Job Set-up
  - (a) Make sure that the electrical connectors are clean and in the correct condition, before you connect them again, (Refer to AMM 24-38-51 Page block 401).
  - (b) Connect the battery connectors (2PB1, 2PB2), (Refer to AMM 24-38-51 Page block 401).
  - (c) Close these circuit breakers:

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PANEL	DESIGNATION	FIN	LOCATION
123VU	GEN1/EGIU1/115VAC	23XU1	AF12
123VU	GEN2/EGIU2/115VAC	23XU2	AF01
123VU	GND/PWR/PROT	2XG	AB07
122VU	ELEC/EXT PWR/CTL	11XG	X29
123VU	APU GEN/EGIU2/115VAC	23XS	AA08
106VU	CSM/G /EV/MAN/SPLY	6XE	B04
105VU	ELEC/CSM/G /EV AUTO/SPLY	7XE	C01
125VU	BAT BUS/301PP/SPLY	11PB	CC01
105VU	ELEC/HOT BUS/701PP SPLY	12PB1	E01
105VU	ELEC/HOT BUS/702PP SPLY	12PB2	E02
105VU	ELEC/HOT BUS/701PP SPLY	5PB1	D01
105VU	ELEC/HOT BUS/702PP SPLY	5PB2	D02
105VU	ELEC/BAT/REF/BCL1	9PB1	AS01
105VU	ELEC/BAT/REF/BCL2	9PB2	AS01
105VU	FLT CTL/ELAC1/STBY SPLY	16CE1	A01
105VU	FLT CTL/ELAC2/STBY/SPLY	16CE2	A02
105VU	FLT CTL/SEC1/STBY SPLY	22CE	B01
105VU	ADIRS/ADIRU1/28VDC	6FP1	C02
105VU	ELEC/STAT INV/CNTOR/CTL	14XB	G02

- (d) Energize the aircraft electrical circuits, (Refer to AMM 24-41-00 Page block 201).
- (e) Do the EIS start procedure, (Refer to AMM 31-60-00 Page block 201).
- (f) Make sure that the ground air supply unit is not connected to the aircraft.
- (g) On the Maintenance Panel 50VU:
  - Make sure that the ON legend of the ENG/FADEC GND PWR 1(2) push-button switch is off.
- (h) On the CABIN PRESS section of the 25VU:
  - Make sure that the ON legend of the DITCHING push-button switch is off.
- (i) On the center pedestal, on the ENG Panel 115VU:
  - Make sure that the ENG/MASTER 1(2) control switch is set to off.
- (2) Procedure

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(a) On each disconnected connector, do a visual check, connector after connector (Refer to AMM 20-00-00), to make sure that:

(Refer to ESPM 20-51-10)

- The label of the connector is the same as the label on the support plate
- The connector is correctly locked.
- (3) Test
  - (a) Do the operational test of the flow control and indicating system, (Refer to AMM 21-51-00 Page block 501).
  - (b) Do the operational test of the pressure control and monitoring, (Refer to AMM 21-31-00 Page block 501).
  - (c) Do the test after the removal/installation of the EGIU-1 (22XU1), (Refer to AMM 24-22-33 Page block 401).
  - (d) Do the test after the removal/installation of the ILS receiver (2RT-1), (Refer to AMM 34-36-31 Page block 401)

or

Do the test after the removal/installation of the MMR (40RT-1), (Refer to AMM 34-36-31 Page block 401).

- (e) Do the test after the removal/installation of the BMC (1HA-1), (Refer to AMM 36-11-34 Page block 401).
- (f) Do the test after the removal/installation of the cabin pressure controller (11HL), (Refer to AMM 21-31-34 Page block 401).
- (g) Do the test after the removal/installation of the pack controller (7HH), (Refer to AMM 21-61-34 Page block 401).
- (h) If Mod. No. 20082K0067 is embodied:

Do the test after the removal/installation of the FWD cargo heat controller (1HC), (Refer to AMM 21-43-34 Page block 401).

(4) Test procedure after the installation of the relay

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Action	Result
01. On the center pedestal, on the ENG Panel 115VU:  - Make sure that the ENG selector switch is in the MODE NORM position. On the Air COND Panel 30VU:  - Push the PACK 1 and PACK 2 push-button switches.	On the Air COND Panel 30VU: - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are on.
02. On the Center Pedestal 11VU: - Push the BLEED push-button switch.	On the Center Pedestal 11VU:  - The light in the BLEED push-button switch comes on (white). On the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and amber.
03. On the Air COND Panel 30VU: - Make sure that the X-BLEED selector switch is in the OPEN position. On the center pedestal, on the ENG Panel 115VU: - Make sure that the ENG selector switch is in the IGN START position.	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and green. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are off.
04. On the center Pedestal, on the ENG Panel 115VU: - Make sure that the ENG selector switch is in the MODE NORM position.	On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are on.  On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and become amber after approximately 30s.
05. On the Circuit Breaker Panel 121VU:  - Open the ENGINE/ENG1/FADEC B/AND EIU1 circuit breaker (4KS1) On the Circuit Breaker Panel 49VU:  - Open the ENGINE/1/FADEC A/AND EIU1 circuit breaker (2KS1) On the center pedestal, on the ENG Panel 115VU:  - Make sure that the ENG selector switch is in the IGN START position.	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and green. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are off.

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Action	Result
06. On the Air COND Panel 30VU:  - Make sure that the X-BLEED selector switch is in the SHUT position.  On the center pedestal, on the ENG panel 115VU:  - Reset the ENG selector switch (set the selector to NORM then to IGN START).	On the Air COND Panel 30VU:  - Make sure that the FAULT legend on the PACK 1 push-button switch is on. On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbol 1 is closed and becomes amber immediately.  - The pack flow control valve symbol 2 is closed and becomes amber after approximately 30s.
07. On the Air COND Panel 30VU: - Make sure that the X-BLEED selector switch is in the OPEN position. On the center pedestal, on the ENG Panel 115VU: - Reset the ENG selector switch (set the selector to NORM then to IGN START).	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and green. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are off.
08. On the Circuit Breaker Panel 49VU or 122VU: - Open the AIR BLEED/X FEED VALVE/BAT circuit breaker (2HV). On the center pedestal, on the ENG Panel 115VU: - Reset the ENG selector switch (set the selector to NORM then to IGN START).	On the Air COND Panel 30VU:  - Make sure that the FAULT legend on the PACK 1 push-button switch is on. On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbol 1 is closed and becomes amber immediately.  - The pack flow control valve symbol 2 is closed and becomes amber after approximately 30s.
09. On the Circuit Breaker Panel 49VU or 122VU: - Close the AIR BLEED/X FEED VALVE/BAT circuit breaker (2HV). On the center pedestal, on the ENG Panel 115VU: - Reset the ENG selector switch (set the selector to NORM then to IGN START).	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and green. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are off.

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Action	Result
10. On the center pedestal, on the ENG Panel 115VU: - Make sure that the ENG selector switch is in the MODE NORM position.	On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches come on after after approximately 30s.  On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and become amber after approximately 30s.
11. On the Circuit Breaker Panel 121VU: - Close the ENGINE/ENG1/FADEC B/AND EIU1 circuit breaker (4KS1). On the Circuit Breaker Panel 49VU: - Close the ENGINE/1/FADEC A/AND EIU1 circuit breaker (2KS1) Open the ENGINE/2/FADEC A/AND EIU2 circuit breaker (2KS2). On the center pedestal, on the ENG Panel 115VU: - Make sure that the ENG selector switch is in the IGN START position.	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbols 1 and 2 are closed and green. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are off.
12. On the Air COND Panel 30VU: - Make sure that the X-BLEED selector switch is in the SHUT position. On the center pedestal, on the ENG Panel 115VU: - Reset the ENG selector switch (set the selector to NORM then to IGN START).	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbol 2 is closed and becomes amber immediately.  - The pack flow control valve symbol 1 is closed and becomes amber after approximately 30s. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 2 push-button switch are on.

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Action	Result
13. On the Air COND Panel 30VU:  - Make sure that the X-BLEED selector switch is in the OPEN position.  On the center pedestal, on the ENG Panel 115VU:  - Reset the ENG selector switch (set the selector to NORM then to IGN START).	On the Center Pedestal 11VU, on the BLEED page of the lower ECAM display unit:  - The pack flow control valve symbol 1 is closed and becomes green immediately.  - The pack flow control valve symbol 2 is closed and becomes green. On the Air COND Panel 30VU:  - Make sure that the FAULT legends on the PACK 1 and PACK 2 push-button switches are off.
14. On the center pedestal, on the ENG Panel 115VU:  - Make sure that the ENG selector switch is in the MODE NORM position. On the Circuit Breaker Panel 49VU:  - Close the ENGINE/2/FADEC A/AND EIU2 circuit breaker (2KS). On the Air COND Panel 30VU:  - Make sure that the X-BLEED selector switch is in the AUTO position.	

### D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Close the avionics doors 811, 812 and 822, (Refer to AMM 52-41-00 Page block 1).
- (3) Remove the access platform(s).
- (4) Restore the systems and the aircraft to normal operating condition.

#### E. <u>DOCUMENTATION</u>

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

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Figure 1 Sheet 1 Modify the Equipment in the Shelf 95VU in the FWD Electronics Rack 90VU (Goto A3 section)

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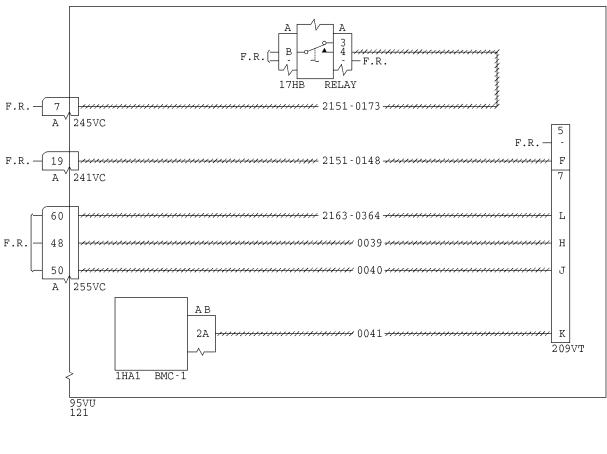
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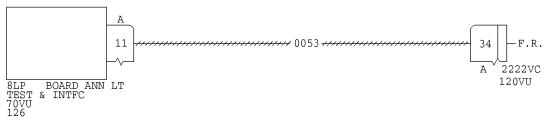
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SERVICE BULLETIN

BEFORE





HANN DELETED WIRE F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA3612 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

Figure 2 Sheet 1
Modify the Wiring in the Shelf 95VU in the FWD Electronics Rack 90VU
(Config. 01)

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SERVICE BULLETIN

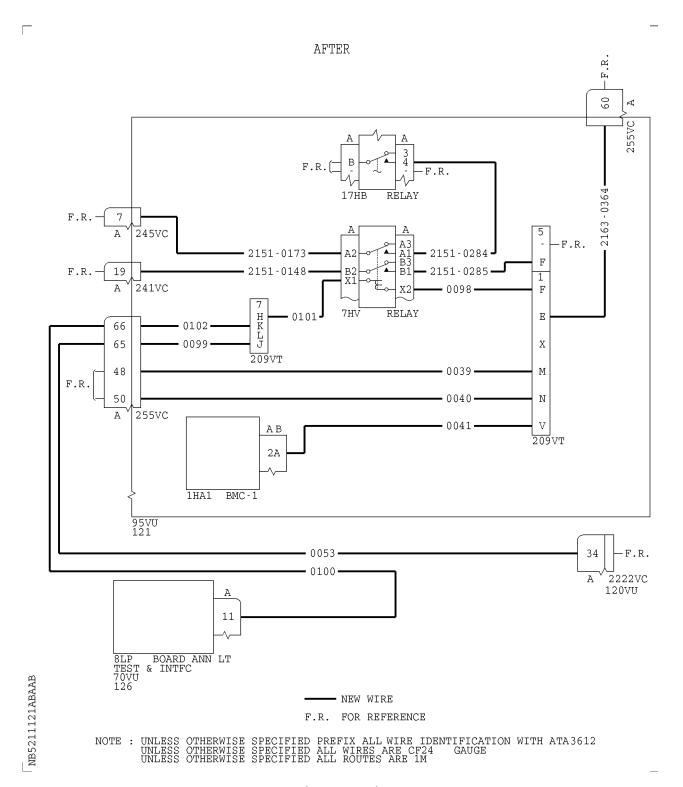


Figure 3 Sheet 1 Modify the Wiring between the 95VU and the 70VU (Config. 01)

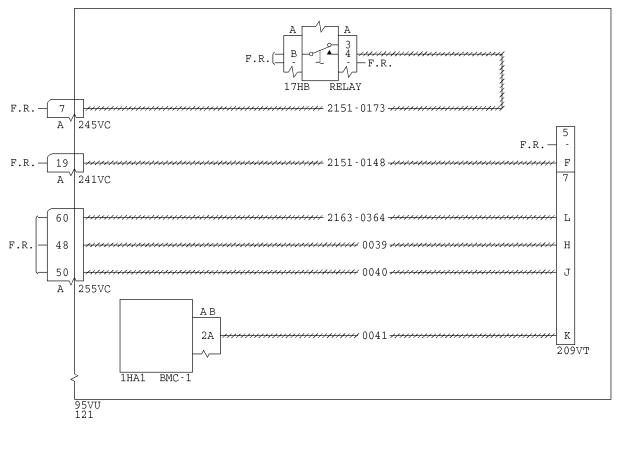
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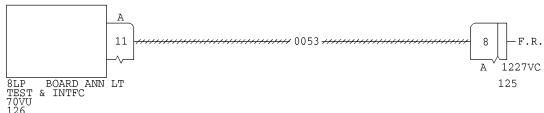
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SERVICE BULLETIN

**BEFORE** 

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////// DELETED WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA3612 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

Figure 4 Sheet 1
Modify the Wiring in the Shelf 95VU in the FWD Electronics Rack 90VU
(Config. 02)

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SERVICE BULLETIN

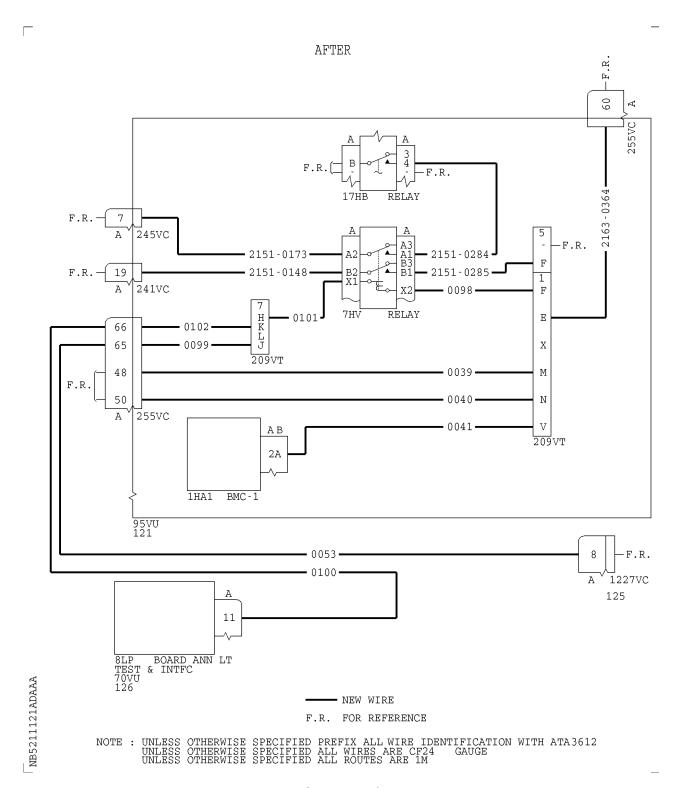


Figure 5 Sheet 1 Modify the Wiring between the 95VU and the 70VU (Config. 02)

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Figure 6 Sheet 1 Hook-Up Chart (Config. 01) (Goto A3 section)

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Figure 7 Sheet 1 Hook-Up Chart (Config. 02) (Goto A3 section)

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#### SERVICE BULLETIN REPORTING SHEET

TITLE: AIR CONDITIONING - PACK COOLING AIR CONTROL - INTRODUCE LOGIC RELAY FOR

CONTROL PACK CLOSURE AT ENGINE START.

MODIFICATION No.: 27993P5459

A - SB <u>WILL BE</u> embodied	ffectivity	YES/NO by defa	(if Nault)	0 pleas and pla	se com anned	ment) dates
(month/year) of embodiment:						
B - SB <u>HAS BEEN</u> embodied on aircraft: .						
Operator comments:						
From Airline:		  ıte:				
If operational documentation is affected information is needed prior to next normal please indicate required service(s): Either: Advance Data	mal revisio	on or pr	ior t	o SB er YES/N(	mbodim O	
Or : Intermediate/Temporary revision				YES/NO	0	
Important Information: This SR will only	, he incorn	orated	in voi	ır məin	tanan/	ca and

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

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

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

#### <u>Please return this completed sheet to:</u>

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

Attn: AI/SE-D32 Technical Data and Documentation Services FAX: (+33) 5 61 93 28 06 or via your Resident Customer Support Office.

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

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## SERVICE BULLETIN OUALITY 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.

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

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

X Effectivity X Kit content X Preparation X Reason X List of Materials X Mod/Inspection X Manpower Operator Supplied X Test X References X Re-identification X Close-Up X Publication X Tooling X Illustrations		Planning	Material	al			
	X X X	Reason Manpower References	<ul><li>X List of Materials</li><li>Operator Supplied</li><li>X Re-identification</li></ul>	X X X	Mod/Inspection Test Close-Up		

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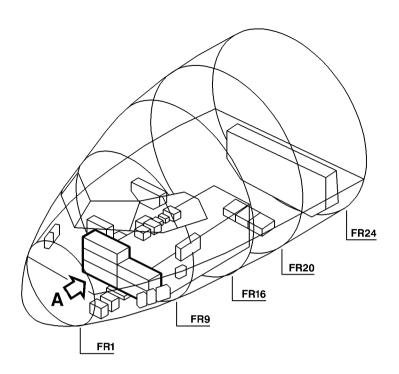
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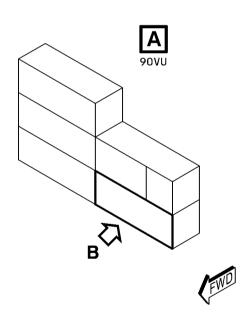
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**AFTER** 



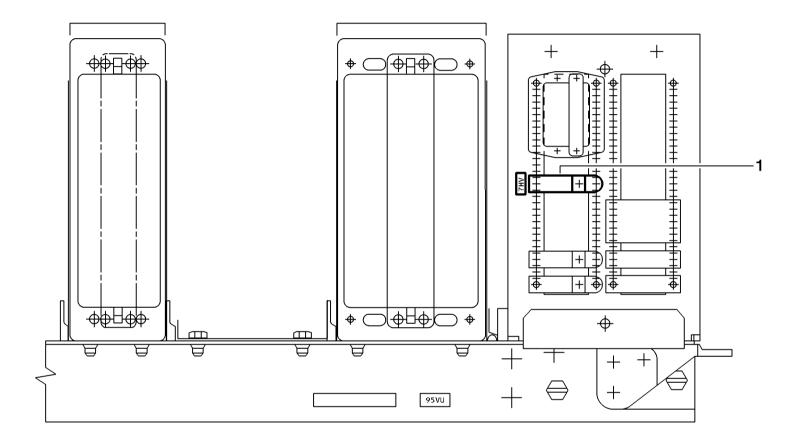


Figure 1 Sheet 1 Modify the Equipment in the Shelf 95VU in the FWD Electronics Rack 90VU

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SERVICE BULLETIN

L	END 1				LEAD							E N D				
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	Ins	structions
1	95VU	209VT	5F		2151-0148			CF24			95VU	241VC	19		D	Fig.2
2	95VU	209VT	7L		2163-0364			CF24			95 <b>V</b> U	255VC	60		D	Fig.2
3	95VU	209VT	7н		3612-0039			CF24			95 <b>V</b> U	255VC	48		D	Fig.2
4	95VU	209VT	7J		3612-0040			CF24			95 <b>V</b> U	255VC	50		D	Fig.2
5	95VU	209VT	7K		3612-0041			CF24			95VU	1HA1-AB	2A		D	Fig.2
6	95VU	17HB-A	4		2151-0173			CF24			95VU	245VC	7		D	Fig.2
7	70VU	8LP-A	11		3612-0053		1M	CF24			120VU	2222VC-A	34		D	Fig.2
8																
9																
10																
11	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	7HV-A		EN3155-017F1620		Fig.3
12	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC				Fig.3
13	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC				Fig.3
14	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC		EN3155-008M2222	(a) A	Fig.3
15	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	1HA1-AB		E0170FA2200	(a) A	Fig.3
16	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	7HV-A		EN3155-017F1620		Fig.3
17	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC		EN3155-008M2222		Fig.3
18	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	7HV - A		EN3155-017F1620		Fig.3
19	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC		EN3155-008M2222		Fig.3
20	95VU	7HV - A		EN3155-017F1620				CF24	3000	120	95VU	241VC		EN3155-014M2018		Fig.3
21	95VU	7HV - A		EN3155-017F1620				CF24	3000	120	95VU	245VC		EN3155-014M2018		Fig.3
22	95VU	7HV - A		EN3155-017F1620				CF24	3000	120	95VU	17HB-A		E0252DK2002	(a) A	Fig.3
23	95VU	255VC-A		EN3155-003F2222			1M	CF24	15000	600	120VU	2222VC-A		EN3155-014M2018	, ,	Fig.3
24	95VU	255VC-A	66	EN3155-003F2222	3612-0100		1M	CF24	10000	400	70VU	8LP-A	11	EN3155-015F2018	(a) A	Fig.3
25																

(a) = BUNDLE D9000095120195

A = ADDED WIRE D = DELETED WIRE

> Figure 6 Sheet 1 Hook-Up Chart (Config. 01)

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SERVICE BULLETIN

L	END 1				LEAD						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	Ir	structions
1	95VU	209VT	5F		2151-0148			CF24			95VU	241VC	19		D	Fig.4
2	95 <b>V</b> U	209VT	7L		2163-0364			CF24			95VU	255VC	60		D	Fig.4
3	95 <b>V</b> U	209VT	7н		3612-0039			CF24			95VU	255VC	48		D	Fig.4
4	95 <b>V</b> U	209VT	7J		3612-0040			CF24			95VU	255VC	50		D	Fig.4
5	95VU	209VT	7K		3612-0041			CF24			95VU	1HA1-AB	2A		D	Fig.4
6	95VU	17HB-A	4		2151-0173			CF24			95VU	245VC	7		D	Fig.4
7	70VU	8LP-A	11		3612-0053		1M	CF24			125	1227VC-A	8		D	Fig.4
8																
9																
10																
11	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	7HV - A		EN3155-017F1620		Fig.5
12	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC				Fig.5
13	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC				Fig.5
14	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC		EN3155-008M2222	(a) A	Fig.5
15	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	1HA1-AB		E0170FA2200	(a) A	Fig.5
16	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	7HV-A		EN3155-017F1620		Fig.5
17	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC		EN3155-008M2222	· ·	Fig.5
18	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	7HV - A		EN3155-017F1620	· ·	Fig.5
19	95VU	209VT		EN3155-016M2222				CF24	3000	120	95VU	255VC		EN3155-008M2222		Fig.5
20	95VU	7HV-A		EN3155-017F1620				CF24	3000	120	95VU	241VC		EN3155-014M2018		Fig.5
21	95VU	7HV - A		EN3155-017F1620				CF24	3000	120	95VU	245VC		EN3155-014M2018	` ′	Fig.5
22	95VU	7HV-A		EN3155-017F1620				CF24	3000	120	95VU	17HB-A		E0252DK2002	(a) A	Fig.5
23	95VU	255VC-A		EN3155-003F2222			1M	CF24	7000	280	125	1227VC-A		EN3155-014M2018	, ,	(1) Fig.5
24	95VU	255VC-A	66	EN3155-003F2222	3612-0100		1M	CF24	10000	400	70VU	8LP-A	11	EN3155-015F2018	(a) A	Fig.5
25																

(a) = BUNDLE D9000095120195

(1) = ON END 2, USE TERMINAL PN

A = ADDED WIRE

EN3155-014M2018 OR

D = DELETED WIRE EN3155-008M2222

Figure 7 Sheet 1 Hook-Up Chart (Config. 02)

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