AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
TECHNICAL PUBLICATIONS
1, Rond Point Maurice BELLONTE

© A320/A321

SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

Tel: (33) 61933333 Telex: Airbus 530526F

MODIFICATION NO: 24593K3795

31707 BLAGNAC CEDEX FRANCE

ATA SYSTEM: 21

TITLE : AIR CONDITIONING - DOOR AREA HEATING - INTRODUCE AN IMPROVED CONTROL LOGIC

FOR THE ADDITIONAL HEATING SYSTEM

This page transmits Revision No. 3 of Service Bulletin A320-21-1093.

ADDITIONAL WORK

No more work is necessary to do this revision.

REASON

This revision has been issued to include additional aircraft (MSN 221, 222, 294, 299, 301 and 349) in the effectivity.

Service Bulletin

- Page 1 of 25 Para. 1.A. EFFECTIVITY - A/C MSN 221, 222,

294, 299, 301 and 349 added.

- Page 2 Text shift.

- Page 4 Para. 1.J. PUBLICATIONS AFFECTED - Reference

to the Aircraft Wiring List added.

FILING INSTRUCTIONS

- Remove and discard the Service Bulletin pages 1 of 25, 2 and 4.
- Insert the revised Service Bulletin pages 1 of 25, 2 and 4.
- Put this Revision Transmittal Sheet in the front of the Service Bulletin.

HISTORY OF PREVIOUS REVISIONS

Revision No. 1 was issued to include two additional operators to the effectivity.

Revision No. 2 was issued to revise the Material Information for Kit AO2.

REVISION SEQUENCE

Original: Feb 17/95

Revision No.: 1 - Jul 10/95 Revision No.: 2 - May 07/96 Revision No.: 3 - $\frac{3}{100}$

DATE: Feb 17/95
REVISION No.: 3 - Nov 25/96

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31707 BLAGNAC CEDEX FRANCE



SERVICE BULLETIN SUMMARY

Tel: (33) 61933333 Telex: Airbus 530526F

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

MODIFICATION NO: 24593K3795

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - DOOR AREA HEATING - INTRODUCE AN IMPROVED CONTROL

LOGIC FOR THE ADDITIONAL HEATING SYSTEM

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

In-service experience has shown that when an additional heating system is installed it can be accidently left switched on. This Service Bulletin introduces an improved logic control for the additional heating system. The improved logic control will allow the Re-circulation Fans to automatically switch-off the heaters when no airflow is available.

EFFECTIVITY

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

ACA, CDN, CYP, DLH, MSR, OYC.

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

A320-21-1075

REFERENCES/REPERCUSSIONS

TFU : 21.65.00.001

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

6 DATE: Feb 17/95

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COMPLIANCE

Optional

MANPOWER

	•	Manhours/Aircraft			
Kit No.: 211093		A01	A02		

23.0 22.50 Total manhours

12.0 15.0 Elapsed time (hours)

MATERIAL INFORMATION

AIRCRAFT DATA

Refer to Para.3.A. MATERIAL INFORMATION in this Service Bulletin.

EQUIPMENT DATA

None

APPENDICES

None

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SERVICE BULLETIN

Tel: (33) 61933333 Telex: Airbus 530526F

MODIFICATION NO: 24593K3795

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - DOOR AREA HEATING - INTRODUCE AN IMPROVED CONTROL LOGIC FOR THE ADDITIONAL HEATING SYSTEM

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft Models: 320-211, 320-212, 320-231

(2) Aircraft

Operator and Fleet No.	MSN	Kit No.	Qty of kits	Config No. None
ACA 201-234	059,068,073,084,122,126, 127,141,149,150,154,159, 183,233,242,248,253,254, 255,265,277,290,310,311, 324,330,333,341,342,350, 359,378,384,426	A01 A02	34 34	
CDN 401-405 407-411 415,416	174,175,210,231,232 283,284,302,305,309 403,404	A01 A02	12 12	
CYP 001-008	028,035,037,038,180, 256,295,316	A01 A02	8 8	
DLH 001-010 012-034	069,070,071,072,078,083, 086,093,094,104 110,111,116,117,135,137, 147,161,162,172,200,201, 202,209,216,217,218,267,	A01 A02	33	
MSR 001-007	268,269,346,382,401 165,166,178,194,198, 351,366	A01 A02	7	
oyc 001-006	163,164,168,169,179, 193	A01 A02	6 6	
XP 053-057 059	221,222,294,299,301 349	A01 A01	5 1	

NOTE: To do this Service Bulletin you must accomplish Service Bulletin No. A320-21-1075 before or at the same time.

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(3) Spares

None

B. REASON

(1) History

In-service experience has shown that when an additional heating system is installed it can be accidently left switched on.

(2) Objective/Action

This Service Bulletin introduces an improved logic control for the additional heating system.

(3) Advantages

The improved logic control will allow the Re-circulation Fans to automatically switch-off the heaters when no airflow is available.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

In accordance with the operator's maintenance planning.

C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to:

- (1) Modify the wiring between zones 120 and 210.
- (2) Modify the wiring between zones 210 and 223.
- (3) Modify the circuit breaker panel 2000VU.

D. APPROVAL

The design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No. CO1. The changes specified in this Service Bulletin have been approved by the DGAC when they are major, or under the authority of DGAC Design Organisation Approval No. CO1, when they are minor.

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SA320/A321

SERVICE BULLETIN

E. MANPOWER

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

	Manhours/Aircraft			
	A01	A02		
Get access	3.0	4.0		
Modification	16.0	12.0		
Test		1.0		
Close-Up	4.0	5.50		
Total Manhours	23.0	22.50		
Elapsed time (hours)	12.0	15.0		

F. MATERIAL - COST AND AVAILABILITY

(1) Material

Operators with aircraft Listed in paragraph 1.A.(2) should submit a purchase order quoting this Service Bulletin.
The address is:

AIRBUS INDUSTRIE AIRSPARES MATERIAL SUPPORT CENTER WEG BEIM JAEGER 150 22335 HAMBURG GERMANY

(2) Cost and availability

Kit No.	Cost	Availability: *
211093A01 211093A02	(US Dollars) 548 536	150 150

NOTE: * Calendar days from receipt of order.

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G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Kit No. 211093A01

Manufacturers Empty Weight: +0.470 kg (+1.036 lb.)

Effect on Balance : +3.310 kgm (+23.941 lb.ft.)

Kit No. 211093A02

Manufacturers Empty Weight: +0.320 kg (+0.705 lb.)

Effect on Balance : +2.340 kgm (+16.925 lb.ft.)

I. REFERENCES

Aircraft Maintenance Manual (AMM): 06-41-53, 12-34-24, 21-42-00, 24-41-00,

52-10-00, 52-41-00

Service Bulletin No. A320-21-1075

J. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM): 21-21-01, 21-21-02, 21-42-00

Illustrated Parts Catalog (IPC) : 24-92-01

Aircraft Wiring Lists (AWL)

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2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

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

(1) Preparation

- (a) Electrically ground the aircraft (Ref. AMM 12-34-24, P. Block 301).
- (b) De-energize the aircraft electrical circuits (Ref. AMM 24-41-00, P. Block 201).
- (c) Put access platforms in position at a passenger/crew door and the FWD avionics door 811.
- (d) Open the passenger/crew door (Ref. AMM 52-10-00, P. BLock 201).
- (e) Open the FWD avionics door 811 (Ref. AMM 52-41-00, P. Block 201).
- (f) In the cockpit, remove and retain the ceiling panels 211HC, 212FC, 221BC and 221AC (Ref. AMM 06-41-53, P. Block 1).
- (g) In cockpit, remove and retain the sidewall panels 212HW, 212JW, 212KW and 212KC (Ref. AMM 06-41-53, P. Block 1).

(2) Standard practices

(a) After the installation or modification of electrical wires do a continuity test.

B. MODIFICATION

Kit No. 211093A01

(1) Do a modification to the wiring between zones 120 and 210.

Refer to Figures 2, 3 and 5

- (a) Do a modification to the wires as shown on lines 1 thru 4 (Refer to Figure 5).
- (b) Install the wires as shown on Lines 8 and 9 (Refer to Figure 5) supplied in:

Bundle D9000095105195

and route them with wires that are in the aircraft.

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- (c) Cut the wires to the nescessary length, crimp the terminals and connect them.
- (d) Attach the wires with:

Cable ties NSA935401-04
Cable ties NSA935401-05
Cable ties NSA935401-08

- (e) Do a continuity test of the new electrical wires.
- (2) Modify the wiring between zones 210 and 223.

Refer to Figures 4 and 5

(a) Install the wires as shown on lines 11, 12, 14, 15, 16 and 17 (Refer to Figure 5) supplied in:

Bundle

D9000095105195

and route them with wires that are in the aircraft

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

Cable ties NSA935401-04
Cable ties NSA935401-05
Cable ties NSA935401-08

(d) Do a continuity test of the new electrical wires.

Kit No. 211093A02

(3) Do a modification to the circuit breaker panel 2000VU.

Refer to Figures 6, 7 and 8

(a) Install these items on the circuit breaker panel 2000VU:

2 Relays	E024528A0	item	1
2 Bases	E0250A0S	item	2
4 Nuts	MS21042L04	item	3
4 Washers	AN96DC4L	item	4
1 Module	NSA937901M20-11	item	8
1 Label	NSA937901E1	item	9
1 Label	NSA937901E4	item	10

(b) Between the relays 5HJ1 and 5HJ2, install:

1 Electrical kit D92992237-008 item 6

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- SERVICE BULLETIN
- 1 Attach the new wires to existing wires with cable ties NSA935401-03, item 7, as required.
- 2 Connect the new wires as shown in Hook-Up Chart, Figure 8, Lines 5 to 16.
- 3 Re-route the wires as shown in Hook-Up Chart, Figure 8, Lines 1 to 4.
- 4 Attach the related placards D92392451026, item 5, in a position that can be clearly seen.
- 5 Attach the identification Labels D92392451026, item 5, to the new wires with cable ties NSA935401-03, item 7.
- 6 Do a continuity test of the new and re-routed electrical wires.

C. TESTS

(1) Do a test of the Lower door-area heating system (Ref. AMM 21-42-00, P. Block 501).

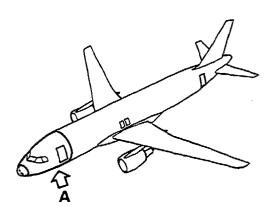
D. CLOSE-UP

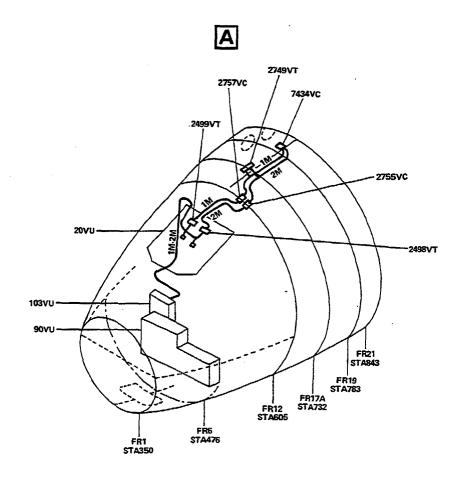
- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) In the cockpit, install the ceiling panels 211HC, 212FC, 221BC and 221AC (Ref. AMM 06-41-53, P. Block 1).
- (3) In the cockpit, install the sidewall panels 212HW, 212JW, 212KW and 212KC (Ref. AMM 06-41-53, P. Block 1).
- (4) Restore the systems and the aircraft to a normal operating condition.
- (5) Close the passenger/crew door (Ref. AMM 52-10-00, P. Block 201).
- (6) Close the FWD avionics door 811 (Ref. AMM 52-41-00, P. Block 201).
- (7) Remove the access platforms from the passenger/crew door and the FWD avionics door 811.
- (8) Disconnect the aircraft electrical ground-connection.

E. DOCUMENTAION

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

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NSB5 211093 AA 01

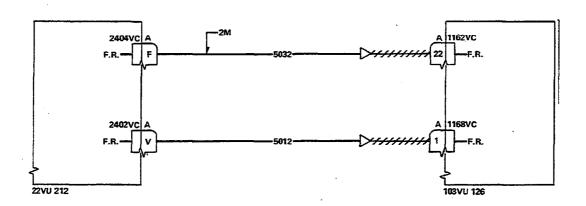
Modification to the Wiring Between Zones 210, 120 and 220 Figure 1

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BEFORE



CANANA OF D HOOK-ND

F.R.: FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA 2121 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

NSBE 211093 AB 60

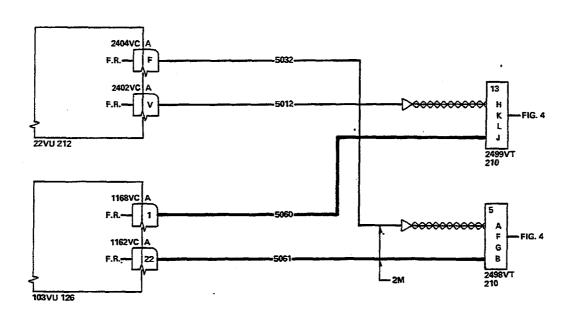
Modification to the Wiring Between Zones 120 and 210 Figure 2

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AFTER



NEW WIRE

F.R.: FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA 2121 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

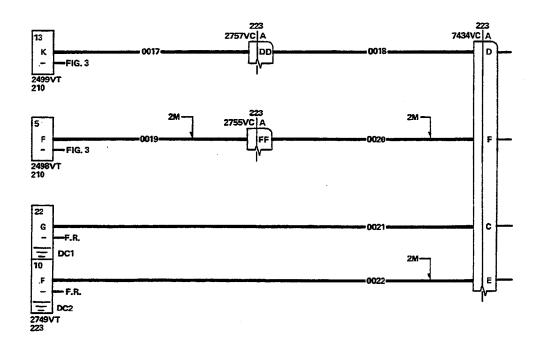
NSB6 211093 AC 00

Modification to the Wiring Between Zones 120 and 210 Figure 3

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AFTER



NEW WIRE

F.R.:

FOR REFERENCE

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA 2142 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

NSB5 211093 AD 01

Modification to the Wiring Between Zones 210 and 223 Figure 4

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L	END 1				LEAD							ENI	Instructions			
i	700000					Cal	Douto	Gauge	Leng	gth	Zone or	Elec. Ident.	Term	Terminal P/N	instru	cuons
n e	Zone or Panel	Elec. Ident.	Term	Terminal P/N	Wire Ident.	Coi			cm.	in.	Panel	1162VC-A	22	•	M20	Fig. 2
1 2	22VU 22VU	2404VC-A 2404VC-A	F		2121-5032 2121-5032		2M 2M	CF24 CF24 CF24			103VU 210 103VU	2498VT 1168VC-A		937910EA2000	M2N M2O	Fig. 3 Fig. 2
3 4	22VU 22VU	2402VC-A 2402VC-A	V		2121-5012 2121-5012		1M 1M	CF24		ž.	210	2499VT	13H	937910EA2200	M2N	Fig. 3
5 6 7 8	103VU	1168VC-A 1162VC-A	1 22	E0396DV2200 E0396DV2200	2121-5060 2121-5061		1M 2M	CF24 CF24	800 800	320 320	210 210	2499VT 2498VT	5B	937910EA2200 937910EA2000	(a) A (a) A	Fig. 3 Fig. 3
10 11 12	1	2499VT 2498VT	1	937910EA2200 937910EA2000	2142-0017 2142-0019	1	1M 2M	CF24 CF24	400 400	160 160		2757VC 2755VC		938152SA2000 938152SA2000	(a)A (a) A	Fig. 4 Fig. 4
13 14 15 16 17	223 223 223	2757VC-A 2755VC-A 2749VT 2749VT	FF 10F	938151PA2000 938151PA2000 937910EA2000 937910EA2000	2142-0018 2142-0020 2142-0022 2142-0021		1M 2M 2M 1M	CF24 CF24 CF24 CF24	600 600 200 200	240 240 80 80	223 223	7434VC 7434VC 7434VC 7434VC	F	938151PA2000 938151PA2000 938151PA2000 938151PA2000	(a) A (a) A (a) A (a) A	Fig. 4 Fig. 4 Fig. 4 Fig. 4
18 19 20 21		_														
22 22 24	3															

= ADDED WIRE

(a)

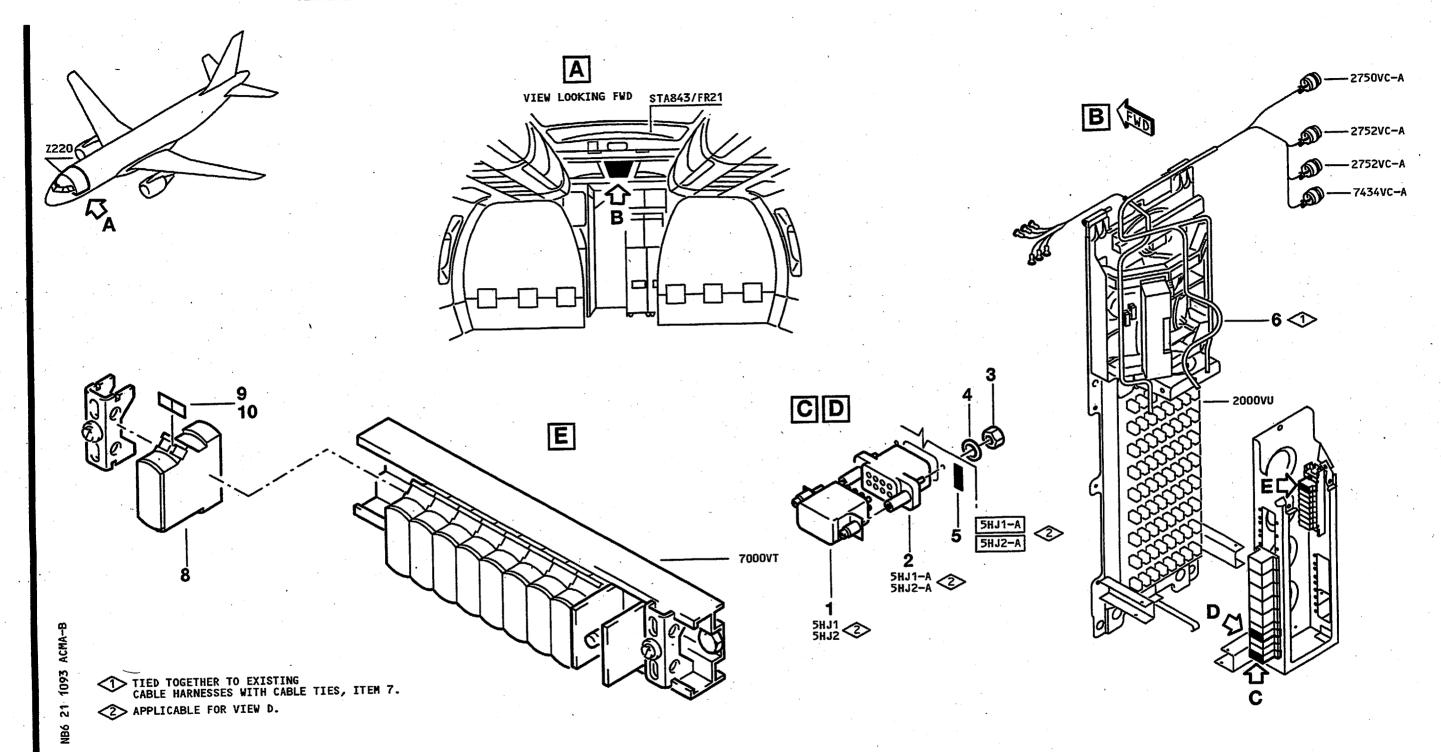
= BUNDLE D9000095105195

= OLD HOOK-UP ON END2 M20 = NEW HOOK-UP ON END2 M2N

Hook-Up Chart (Ref. Fig. 2, 3 and 4)
Figure 5

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Installation of Relays 5HJ1 and 5HJ2 Figure 6

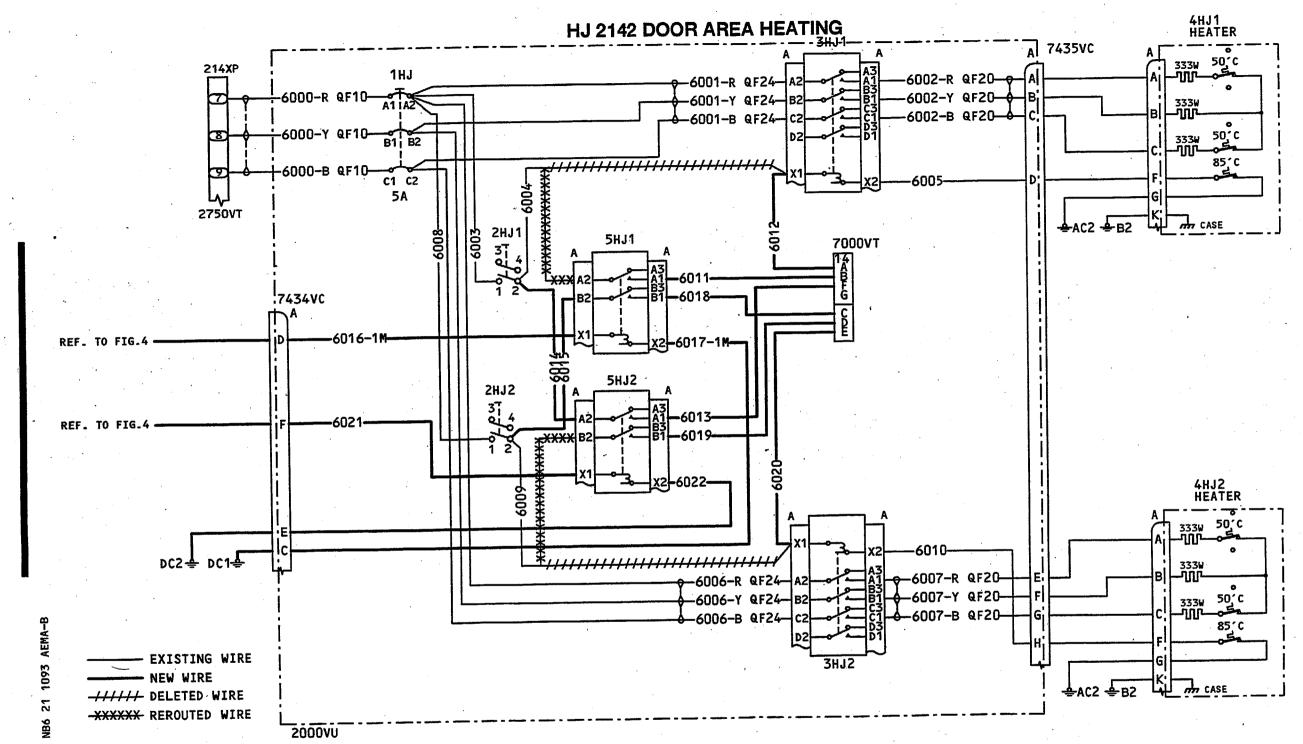
DATE: Feb 17/95 REVISION NO: 2 - MAY 07/96

Mr.

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Modification of the wiring in Circuit Breaker Panel 2000VU Figure 7

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ſ	END 1					LEAD				END 2				INSTRUCTION	s		
ŀ	I P	ZONE OR	ELEC. IDENT.	TERM.	TERMINAL P/N	WIRE IDENT	COL	ROUTE	GAUGE	LEN MM	GTH INCH	ZONE OR PANEL	ELEC. IDENT	TERM.	TERMINAL P/N		
ŀ	+	5 000\n	2HJ1	2	_	2142-6004		2M	CF24	1800	70.9	2000VU	3HJ1-A	X1	-	BEFORE	
•	- 1	2000VU	2HJ1	2	NSA936501TA2201	2142-6004	1 1	2M	CF24	1800	70.9	2000VU	5HJ1-A	A2	ASN-E0252DK1601	AFTER	
•	2	200070	2HJ2	2	-	2142-6009		2M	CF24	2100	82.7	2000VU	3HJ2-A	X1	-	BEFORE	
_		200070	2HJ2	2	NSA936501TA2201	2142-6009		2M	CF24	2100	82.7	2000VU	5HJ2-A	B2	ASN-E0252DK1601	AFTER	
	- 1		7434VC-A	D	NSA938152SA2000	2142-6016		1 M	CF24	2500	98.4	2000VU	5HJ1-A .	X1	ASN-E0252DK1601	A 13	
	5	5000An 5000An	7434VC-A	F	NSA938152SA2000	2142-6021		2M	CF24	2500	98.4	2000VU	5HJ2-A	X1	ASN-E0252DK1601	A 13	. i
	7	2000/0	7434VC-X 2HJ1	2	ASN-E0252DK1601	2142-6014		2M	CF24	1400	55.1	2000VU	5HJ2-A	A2	ASN-E0252DK1601	A 11)
	1	5000An	2HJ2	2	ASN-E0252DK1601	2142-6015		2M	CF24	1400	55.1	2000VU	5HJ1-A	B2	ASN-E0252DK1601	A 1) ;
	8		5HJ1-A	A1	ASN-E0252DK1601	2142-6011		2M	CF24	1000	39.4	2000VU	7000VT	14B	NSA937910EA2000	. A 1.)
	- 1	2000VU	5HJ1-A	B1	ASN-E0252DK1601	2142-6018		2M	CF24	1000	39.4	2000VU	7000VT	14C	NSA937910EA2000	A 1)
	10	2000VU	5HJ1-A	X2	ASN-E0252DK1601	2142-6017		1 M	CF24	2500	98.4	2000VU	7434VC-A	C	NSA938152SA2000	Å 1)
	11	2000VII	5HJ2-A	A1	ASN-E0252DK1601	2142-6013		2м	CF24	1000	39.4	2000VU	7000VT	14F	NSA937910EA2000	A 1)
	12	2000VU	5HJ2-A	B1	ASN-E0252DK1601	2142-6019		2M	CF24	1000	39.4	2000VU	7000VT	14D	NSA937910EA2000	A 1)
	13	5000An	5HJ2-A	X2	ASN-E0252DK1601	2142-6022		2M	CF24	2500	98.4	2000VU	7434VC-A	Ε	NSA938152SA2000	A 1) [
	14	2000VU	7000VT	14A	NSA937910EA2000	2142-6012	1	2M	CF24	900	35.4	2000VU	3HJ1-A	X1	ASN-E0252DK1601	A 1) .
	15		7000VT	14E	NSA937910EA2000	2142-6020		2M	CF24	900	35.4	2000VU	3HJ2-A	X1	ASN-E0252DK1601	A 1)
	16	5000AN	j ,	146	10/1/37/37/51/12/50									,			
	17																
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	24																
	25	ADDED 1	1		1) FI T -F	OUTPMENT DS	92992	223700800				-	i				•

A = ADDED WIRE

1) ELT.-EQUIPMENT D9299223700800

Hook-Up Chart Figure 8

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I T E M		NEW PART No.	QTY	KEYWORD	I T E M	OLD PART No.	I N T	I N S R U C S	D I S P O S
<u>Ki</u>	t No	o. 211093A01							
Ki	t No	D9000095105195 NSA935401-04 NSA935401-05 NSA935401-08	1 50 50 300	Bundle Tie Tie Tie					
1 2 3 4 5 6 7 8 9 10	В.	E024528A0 E0250A0S MS21042L04 AN960C4L D92392451026 D92992237008 NSA935401-03 NSA937901M20-11 NSA937901E1 NSA937901E4 SPECIAL TOOLS None LIST OF MATERIALS	2 4 4 1 1 50 1 1	Relay Base Nut Washer Placard set Elec. kit Tie Module Label Label					
		None							
	D.	PARTS TO BE RE-II	ENTIFIE	BY OPERATOR				I	D
I T E M		NEW PART No.	QTY	KEYWORD	I T E M	OLD PART No.	I N T	N S R U C	D I S P O S
		D92592600024	1	Circuit Breake Panel 2000VU	r	D92592600018	- -		

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AIRBUS INDUSTRIE CUSTOMER SERVICES DIRECTORATE TECHNICAL PUBLICATIONS 1, Rond Point Maurice BELLONTE 31707 BLAGNAC CEDEX FRANCE Tel: (33) 61-93-33-33 Telex: AIRBU 530526 F

MODIFICATION NO: 2459K3795

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - DOOR AREA HEATING - INTRODUCE AN IMPROVED CONTROL LOGIC FOR THE ADDITIONAL HEATING SYSTEM

IS BEING HEREWITH SUBMITTED TO YOU FOR REVIEW

Please fill:

... REJECTED

... WILL BE EMBODIED

... EFFECTIVITY

This SB can only be incorporated in your ''customized'' documentation within the agreed time schedule if this sheet is returned to us on the purchase date and signed by a duly authorized and empowered officer or representative.

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