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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 - PRESSURIZATION CONTROL - MODIFICATION OF PIN
PROGRAMMING TO DISABLE USE OF EXTERNAL MODE (RETRO SOLUTION)

MODIFICATION No. : 32221K7821

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Operators have reported cases of cabin pressure fluctuation during the climb and descent phase. Investigations have shown Cabin Pressure Controller (CPC) mode switching between internal and external modes which results in cabin pressure rate schedule changes. CPC switching is caused by a temporary loss of FMS data which is normal during manual updating of the system in flight.

This Service Bulletin details the procedure to change the pin programming by modification of the wiring in shelf 95VU and shelf 96VU in order to deactivate the external mode function of the CPC.

The accomplishment of this Service Bulletin will avoid cabin pressure fluctuations caused by CPC mode switching during the climb and descent phase.

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)A01R00	FOC		

EFFECTIVITY

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

ACA CIB DLH SAS

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CONCURRENT REQUIREMENTS

None

REFERENCES/REPERCUSSIONS

TFU	: None
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None
LINE MAINTENANCE AFFECTED	: No
OTHERS	: None

NATURE OF THE WORK

Kit 211138A01R00
AIRCRAFT : YES
EQUIPMENT : NO
HARD : NO
SOFT : NO
OBRM : NO

MANPOWER

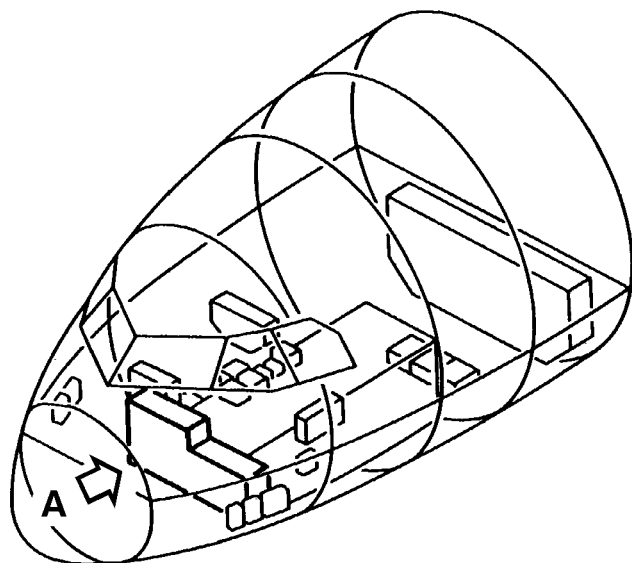
Kit 211138A01R00	
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	12.00

MATERIAL INFORMATION

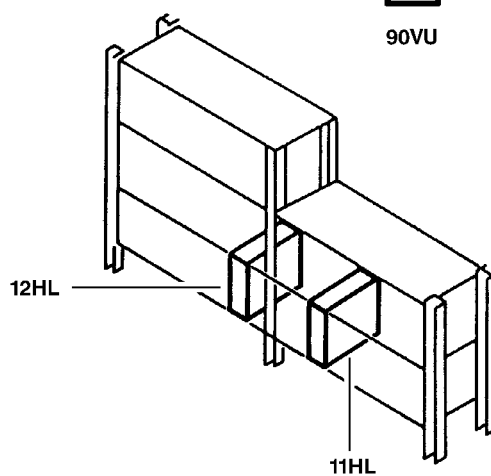
AIRCRAFT DATA
Kit 211138A01R00
Bundle.

APPENDICES

None



90VU



NSB5 211138 SU 00 d

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ATA SYSTEM : 21

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PROGRAMMING TO DISABLE USE OF EXTERNAL MODE (RETRO SOLUTION)

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1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Models

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

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0717 0723 0729 0738 0744 0774 0793 0809 0853 0860 0875 0884
0887 0894 0901 0905 0957 0971 1080 1161 1188 1214 1260 1273
1337 1365 1367 1381 1402 1416 1437 1562 1577 1587 1602 1611
1619 1623 1630 1632 1638 1642 1668 1673 1675 1718-1719 1726
1742 1748 1756 1765 1772 1783 1798 1805 1807 1811 1817 1848
1853 1864 1874 1886 1940 1963 2018 2055

NOTE (01) This modification is applicable by Service Bulletin only.

NOTE (02) This Service Bulletin is only applicable to aircraft listed above on which Mod. No. 26251K4384 (AIR CONDITIONING - PRESSURIZATION CONTROL - REMOVAL OF

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PIN PROGRAMMING TO ENABLE USE OF EXTERNAL MODE) is embodied.

(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 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
ACA	1562 1577 1602 1611 1623 1630 1632 1638 1668 1673 1718 1719 1726 1742 1748 1756 1765 1772 1783 1805 1811 1853 1864 1874 1886 1940 1963 2018 2055
CIB	0774 0793 0809 0884 0894 0905 0957 0971 1381 1402 1416 1437
DLH	0717 0723 0729 0738 0744 0853 0860 0875 0887 0901 1080 1161 1188 1214 1260 1273 1337 1365 1367
SAS	1587 1619 1642 1675 1798 1807 1817 1848

(c) Effectivity by MSN and Kit/Configuration

The kits and configurations applicable to these MSNs are given at the end of this list:

0717 0723 0729 0738 0744 0774 0793 0809 0853 0860 0875 0884
0887 0894 0901 0905 0957 0971 1080 1161 1188 1214 1260 1273
1337 1365 1367 1381 1402 1416 1437 1562 1577 1587 1602 1611
1619 1623 1630 1632 1638 1642 1668 1673 1675 1718-1719 1726
1742 1748 1756 1765 1772 1783 1798 1805 1807 1811 1817 1848
1853 1864 1874 1886 1940 1963 2018 2055

KIT No.	QTY PER A/C	CONFIGURATION
211138D00R00	1	None

(3) Spares

None

B. CONCURRENT REQUIREMENTS

None

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C. REASON

(1) History

Operators have reported cases of cabin pressure fluctuation during the climb and descent phase. Investigations have shown Cabin Pressure Controller (CPC) mode switching between internal and external modes which results in cabin pressure rate schedule changes. CPC switching is caused by a temporary loss of FMS data which is normal during manual updating of the system in flight.

NOTE (01) This modification is applicable by Service Bulletin only.

NOTE (02) This Service Bulletin is only applicable to aircraft listed above on which Mod. No. 26251K4384 (AIR CONDITIONING - PRESSURIZATION CONTROL - REMOVAL OF PIN PROGRAMMING TO ENABLE USE OF EXTERNAL MODE) is embodied.

(2) Objective/Action

This Service Bulletin details the procedure to change the pin programming by modification of the wiring in shelf 95VU and shelf 96VU in order to deactivate the external mode function of the CPC.

(3) Advantages

The accomplishment of this Service Bulletin will avoid cabin pressure fluctuations caused by CPC mode switching during the climb and descent phase.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Modify the wiring in the shelf 95VU.
- (2) Modify the wiring in the shelf 96VU.

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

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume 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 time for paints, sealants, etc. and general administration work are also not included.

Kit 211138A01R00

Get Access	0.50
Removal/Installation of 95VU and 96VU	6.00
Modification of the wiring	1.50
Test	3.50
Close-up	0.50
TOTAL MANHOURS	12.00
ELAPSED TIME (HOURS)	12.00

H. WEIGHT AND BALANCE

Not changed

I. ELECTRICAL LOAD DATA

Not changed

J. REFERENCES

Aircraft Maintenance Manual (AMM)	: 12-34-24 21-31-34 21-61-34 24-22-33 24-41-00 34-36-31 36-11-34 52-41-00
Elec. Std. Practices Manual (ESPM)	: 20-25-51 20-33-00 20-33-44
Standards Manual (SM)	

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K. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM)	: 21-31-34
Aircraft Wiring Manual (AWM)	: 23-31-01 23-31-02 93-00-95 93-00-96
Aircraft Wiring List (AWL)	

L. INTERCHANGEABILITY/MIXABILITY

Not applicable



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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
GERMANY

(2) Price and Availability

Kit 211138A01R00

Cost : FOC US Dollars

Availability : 90 calendar days from receipt of order

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 211138A01R00

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
	D9000095216895	1		BUNDLE					
	NSA935401-03	50		TIE					

NOTE : Refer to the AIRBUS Standards Manual (SM) if you find part numbers for the hardware components in the related kit(s) which you can not identify in the LIST OF COMPONENTS of this Service Bulletin. The SM will give you the correct part number to part number relationship.

D. LIST OF MATERIALS – OPERATOR SUPPLIED

(1) Consumable Materials

None

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(2) Components

None

E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

None

F. TOOLING – PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None



3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

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

(1) Preparation

- (a) Electrically ground the aircraft, refer to AMM 12-34-24 Page block 201.
- (b) Put the access platform(s) in position.
- (c) Open the access door 811, refer to AMM 52-41-00 Page block 001.
- (d) Do the preparation procedure as specified in the removal/installation of the Cabin Pressure Controllers (CPCs) 11HL and 12HL, refer to AMM 21-31-34 Page block 401.
- (e) Do the preparation procedure as specified in the removal/installation of the Electrical Generation Interface Units (EGIUs) 22XU1 and 22XU2, refer to AMM 24-22-33 Page block 401.
- (f) Do the preparation procedure as specified in the removal/installation of the Instrument Landing System (ILS) receivers 2RT1 and 2RT2 or the Multi-Mode Receivers (MMRs) 40RT1 and 40RT2, refer to AMM 34-36-31 Page block 401.
- (g) Do the preparation procedure as specified in the removal/installation of the Bleed Monitoring Computers (BMCs) 1HA1 and 1HA2, refer to AMM 36-11-34 Page block 401.
- (h) Do the preparation procedure as specified in the removal/installation of the Pack Controllers (PCs) 7HH and 27HH, refer to AMM 21-61-34 Page block 401.

(2) Standard Practices

- (a) Refer to the AIRBUS Standards Manual (SM) if you find part numbers for the hardware components in the related kit(s) which you can not identify in the LIST OF COMPONENTS of this Service Bulletin. The SM will give you the correct part number to part number relationship.
- (b) Obey the instructions for the general wiring installation, refer to ESPM 20-33-00.
- (c) To install new wires, cut them to the necessary length, crimp the terminals and connect them.
- (d) Do a continuity test of the new wires.

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- (e) For the cable tie application and tooling, refer to ESPM 20-25-51 and ESPM 20-33-44.

B. MODIFICATION

- (1) Modify the wiring in the shelf 95VU.
Refer to Figure 1
Refer to Figure 2

- (a) Remove the CPC1 (FIN 11HL), refer to AMM 21-31-34 Page block 401.
- (b) Remove the EGIU-1 (FIN 22XU1), if necessary, refer to AMM 24-22-33 Page block 401.
- (c) Remove the ILS receiver 1 (FIN 2RT1) or the MMR1 (FIN 40RT1), if necessary, refer to AMM 34-36-31 Page block 401.
- (d) Remove the BMC-1 (FIN 1HA1), if necessary, refer to AMM 36-11-34 Page block 401.
- (e) Remove the PC1 (FIN 7HH), if necessary, refer to AMM 21-61-34 Page block 401.

NOTE : Removal of all the above applicable computers has to be done in relation with the aircraft configuration.

- (f) On the electronics rack 90VU, remove and retain the shelf 95VU and its fasteners.
- (g) Install the wire shown on the line 1, refer to Figure 2 , supplied in :

bundle D9000095216895

- (h) Route it with the wires that are in the rack.
- (i) Attach the wire with :
- 25 cable tie NSA935401-03
- (j) On the electronics rack 90VU, install the shelf 95VU and its fasteners retained at removal.
- (k) Install the CPC1 (FIN 11HL), refer to AMM 21-31-34 Page block 401.
- (l) Install the EGIU-1 (FIN 22XU1), if removed, refer to AMM 24-22-33 Page block 401.
- (m) Install the ILS receiver 1 (FIN 2RT1) or the MMR1 (FIN 40RT1), if removed, refer to AMM 34-36-31 Page block 401.
- (n) Install the BMC-1 (FIN 1HA1), if removed, refer to AMM 36-11-34 Page block 401.

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- (o) Install the PC1 (FIN 7HH), if removed, refer to AMM 21-61-34 Page block 401.
- (2) Modify the wiring in the shelf 96VU.
Refer to Figure 1
Refer to Figure 2
 - (a) Remove the CPC2 (FIN 12HL), refer to AMM 21-31-34 Page block 401.
 - (b) Remove the EGIU-2 (FIN 22XU2), if necessary, refer to AMM 24-22-33 Page block 401.
 - (c) Remove the ILS receiver 2 (FIN 2RT2) or the MMR2 (FIN 40RT2), if necessary, refer to AMM 34-36-31 Page block 401.
 - (d) Remove the BMC-2 (FIN 1HA2), if necessary, refer to AMM 36-11-34 Page block 401.
 - (e) Remove the PC2 (FIN 27HH), if necessary, refer to AMM 21-61-34 Page block 401.

NOTE : Removal of all the above applicable computers has to be done in relation with the aircraft configuration.

- (f) On the electronics rack 90VU, remove and retain the shelf 96VU and its fasteners.
- (g) Install the wire shown on the line 2, refer to Figure 2 ,
supplied in :

bundle D9000095216895

- (h) Route it with the wires that are in the rack.

- (i) Attach the wire with :

25 cable tie NSA935401-03

- (j) On the electronics rack 90VU, install the shelf 96VU and its fasteners retained at removal.
- (k) Install the CPC2 (FIN 12HL), refer to AMM 21-31-34 Page block 401.
- (l) Install the EGIU-2 (FIN 22XU2), if removed, refer to AMM 24-22-33 Page block 401.
- (m) Install the ILS receiver 2 (FIN 2RT2) or the MMR2 (FIN 40RT2), if removed, refer to AMM 34-36-31 Page block 401.
- (n) Install the BMC-2 (FIN 1HA2), if removed, refer to AMM 36-11-34 Page block 401.



- (o) Install the PC2 (FIN 27HH), if removed, refer to AMM 21-61-34 Page block 401.

C. TEST

- (1) Do the test after the removal/installation of the CPCs 11HL and 12HL, refer to AMM 21-31-34 Page block 401.
- (2) Do the test after the removal/installation of the EGIUs 22XU1 and 22XU2, refer to AMM 24-22-33 Page block 401, if installed.
- (3) Do the test after the removal/installation of the ILS receivers 2RT1 and 2RT2 or the MMRs 40RT1 and 40RT2, refer to AMM 34-36-31 Page block 401, if installed.
- (4) Do the test after the removal/installation of the BMCs 1HA1 and 1HA2, refer to AMM 36-11-34 Page block 401, if installed.
- (5) Do the test after the removal/installation of the PCs 7HH and 27HH, refer to AMM 21-61-34 Page block 401, if installed.

D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Close the access doors 811, refer to AMM 52-41-00 Page block 001.
- (3) Remove the access platform(s).
- (4) Disconnect the aircraft electrical ground-connection, refer to AMM 12-34-24 Page block 201.
- (5) Restore the systems and the aircraft to normal operating condition.
- (6) Do the close-up procedure as specified in the removal/installation of the CPCs 11HL and 12HL, refer to AMM 21-31-34 Page block 401.
- (7) Do the close-up procedure as specified in the removal/installation of the EGIUs 22XU1 and 22XU2, refer to AMM 24-22-33 Page block 401.
- (8) Do the close-up procedure as specified in the removal/installation of the ILS receivers 2RT1 and 2RT2 or the MMRs 40RT1 and 40RT2, refer to AMM 34-36-31 Page block 401.
- (9) Do the close-up procedure as specified in the removal/installation of the BMCs 1HA1 and 1HA2, refer to AMM 36-11-34 Page block 401.
- (10) Do the close-up procedure as specified in the removal/installation of the PCs 7HH and 27HH, refer to AMM 21-61-34 Page block 401.

E. DOCUMENTATION

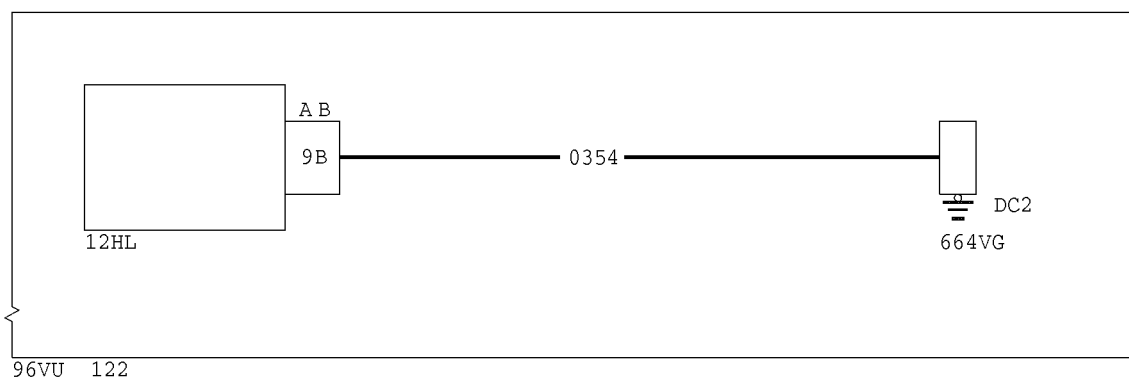
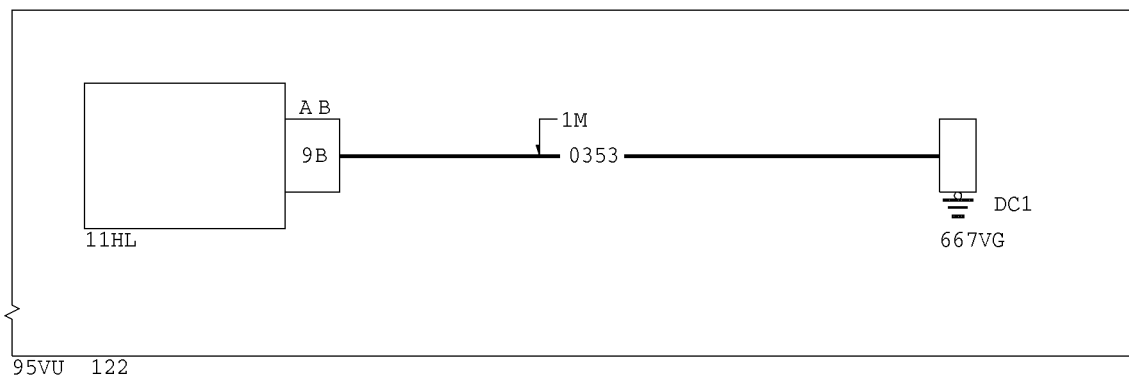
Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

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— NEW WIRE

NE5211138AAAAA

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2131
 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF22 GAUGE
 UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

Figure 1 Sheet 1
 Modification of the Wiring in 90VU

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Figure 2 Sheet 1
Hook-up Chart (Goto A3 section)

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SERVICE BULLETIN REPORTING SHEET

TITLE : AIR CONDITIONING - PRESSURIZATION CONTROL - MODIFICATION OF PIN
PROGRAMMING TO DISABLE USE OF EXTERNAL MODE (RETRO SOLUTION)

MODIFICATION No. : 32221K7821

Please complete the appropriate item (A or B):

A - SB WILL BE embodied YES/NO (if NO please comment)
If YES, aircraft concerned (as per SB effectivity by default) and planned dates
(month/year) of embodiment:

.

B - SB HAS BEEN embodied on aircraft:

.

Operator comments:

.

From Airline:

Name/Title:

Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If
information is needed prior to next normal revision or prior to SB embodiment,
please indicate required service(s):

Either: Advance Data YES/NO

Or : Intermediate/Temporary revision. YES/NO

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.

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:

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Attn: AI/SE-D32 Technical Data and Documentation Services

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or via your Resident Customer Support Office.

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

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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)

- | | | | | |
|---|-------|---|---|---|
| - 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 ? | Y / 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.

Planning	Material	Instructions
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

Comments :

Operator :

Date:

Name/Title :

Please return this form to :

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC
Attn : AI/SE-T1 Service Bulletins Management
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.

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Line	E N D 1				L E A D						E N D 2				Instructions
	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Co	Rte	Gauge	Length		Zone or Panel	Elec.Ident.	Term	Terminal P/N	
									mm	Inch					
1	95VU	11HL-AB	9B	E0170FA2200	2131-0353		1M	CF22	2500	100	95VU	667VG	GND	EN3155-015F2018	(a) A
2	96VU	12HL-AB	9B	E0170FA2200	2131-0354		2M	CF22	2000	80	96VU	664VG	GND	EN3155-015F2018	(a) A
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
(a) = BUNDLE D9000095216895															
A = ADDED WIRE															
GND = GROUND															

Figure 2 Sheet 1
Hook-up Chart