

SERVICE BULLETIN  
REVISION TRANSMITTAL SHEET

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ATA SYSTEM : 21

TITLE : AIR CONDITIONING – AIR DISTRIBUTION AND RECIRCULATION – REPLACEMENT OR  
MODIFICATION OF THE RECIRCULATION FANS 14HG AND 15HG AND MODIFICATION  
OF THE ELECTRICAL WIRING

MODIFICATION No. : 26369K2212

This page transmits Revision No. 01 of Service Bulletin No. A320-21-1109.

ADDITIONAL WORK

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

REASON

This Service Bulletin has been validated on A320 aircraft MSN 0088.  
Revision No. 01 issued to add minor improvements after validation.

CHANGES

TITLE :

- Title updated.

SUMMARY :

- REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES  
In EVALUATION TABLE, KIT PRICE added, Validation Sentence added.

PLANNING INFORMATION :

- REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES  
Validation Sentence added.
- REFERENCES  
Reference to AMM 25-13-41 deleted. Reference to AMM 25-11-41 added.

MATERIAL INFORMATION :

- MATERIAL – PRICE AND AVAILABILITY  
Price and availability added.
- LIST OF COMPONENTS  
Kit A01: PN revised  
Kit A02: Clamps PN NSA5516-33NV quantity 4 and NSA5516-41NV quantity 2  
added.

ACCOMPLISHMENT INSTRUCTIONS :

- GENERAL  
Sentence for the panels 212KW, 212JW and 212HW deleted. Sentence for the  
third occupant seat added. Page block 001 added in para. 3.A.(1).(i).

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# A319/A320/A321

## SERVICE BULLETIN REVISION TRANSMITTAL SHEET

### - MODIFICATION

Paragraphs concerning the modification of the equipment and the wiring in the relay box 103VU updated.

Note for connector identification related to the installed recirculation fan added.

### - CLOSE-UP

Sentence for the panels 212KW, 212JW and 212HW deleted. Sentence for the third occupant seat added. Page block 001 added in para. 3.D.(4).

### - ILLUSTRATION

Figure 5, sheets 1 and 2 updated.

Figure 20, sheets 1 and 2 updated.

### 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

No previous revisions.

### REVISION SEQUENCE

ORIGINAL : Dec 07/99

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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 – AIR DISTRIBUTION AND RECIRCULATION – REPLACEMENT OR  
MODIFICATION OF THE RECIRCULATION FANS 14HG AND 15HG AND MODIFICATION  
OF THE ELECTRICAL WIRING

MODIFICATION No. : 26369K2212

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Several operators have reported damage to the electrical wiring on the power supply circuit for the recirculation fans. To date, three cases of fan circuit wiring damage have been reported. In each case the fan circuit breaker protected the circuit from further damage.

Investigation revealed, that the power consumption of the fans, mainly during fan start sequence, could be higher than the original specification. This could cause an overload of the electrical wiring.

The existing contacts used in this circuit are size 20 which are able to carry currents up to 7.5A. The connectors concerned are the recirculation fan connectors and the interface connectors at FR34 and the terminal blocks of relay box 103VU.

This Service Bulletin details the modification of the electrical power supply circuit for the recirculation fans and the replacement or alternative modification of the existing recirculation fans. This Service Bulletin will:

- increase the amperage of the circuit breakers 1HG and 3HG,
- replace the existing interface connectors at FR34,
- increase the wire gage on the aircraft, between the circuit breaker panel 122VU and the connectors on the recirculation fans 14HG and 15HG,
- replace the existing connectors 14HG-A and 15HG-A at the recirculation fans,
- perform Apparatebau Gauting GmbH Service Bulletin No. VD3900-21-06, if modified recirculation fans shall be installed instead of new fans,
- install new or modified recirculation fans 14HG and 15HG with new connectors which have increased contact size,
- modify the wiring and increase the contact size of the terminal blocks in the relay box 103VU.

Accomplishment of this Service Bulletin will prevent damage to the power supply circuit for the recirculation fans. Thus allowing the recirculation system to operate fully.

This Service Bulletin has been validated on A320 aircraft MSN 0088.

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## SERVICE BULLETIN SUMMARY

EVALUATION TABLE			
COMPLIANCE	Desirable	CANCELS INSPECTION SB	No
POTENTIAL AD	No	A/C OPERATION AFFECTED	No
RELIABILITY AFFECTED	Yes	PAX COMFORT AFFECTED	Yes
COST SAVING	No	ETOPS AFFECTED	No
STRUCTURAL LIFE EXTN	No	VENDOR SB INVOLVED	YES
KIT PRICE (USD) A01	see SB	KIT PRICE (USD) A02	see SB

### EFFECTIVITY

This Service Bulletin is applicable to these operators :

AAA ACA ADR AEL AFR AWE BAW CYP DLH IAC NWA RJA

NOTE : This Service Bulletin is not applicable to aircraft on which Service Bulletin A320-21-1020 has been accomplished.

### CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of :

Service Bulletin No. A320-21-1042 Mod No. 22519P2529

### REFERENCES/REPERCUSSIONS

TFU : 21.21.41.004  
OEB : None  
AOT : None  
SIL : None  
LIFE LIMIT : None  
LINE MAINTENANCE AFFECTED : No  
OTHER : None

### NATURE OF THE WORK

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

### MANPOWER

Kit 211109A01

TOTAL MANHOURS 16.0  
ELAPSED TIME (HOURS) 8.0

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# A319/A320/A321

## SERVICE BULLETIN SUMMARY

NOTE : If Apparatebau Gauting GmbH Service Bulletin VD3900-21-06 will be performed, manhours to modify recirculation fans have to be added.

Kit 211109A02

TOTAL MANHOURS	45.5
----------------	------

ELAPSED TIME (HOURS)	28.5
----------------------	------

### MATERIAL INFORMATION

#### AIRCRAFT DATA

Kit 211109A01

Fans, electrical kit, ties.

Kit 211109A02

Placard, bundle, connectors, backshells, circuit-breakers, plugs, screws, washers, ties.

### APPENDICES

None

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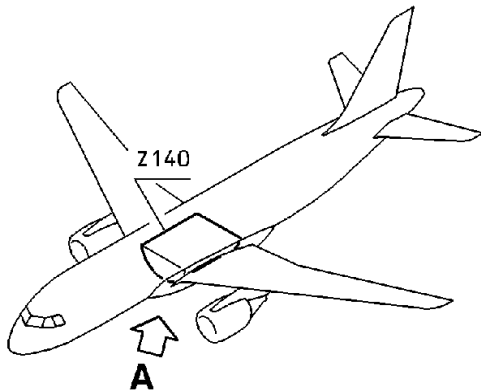
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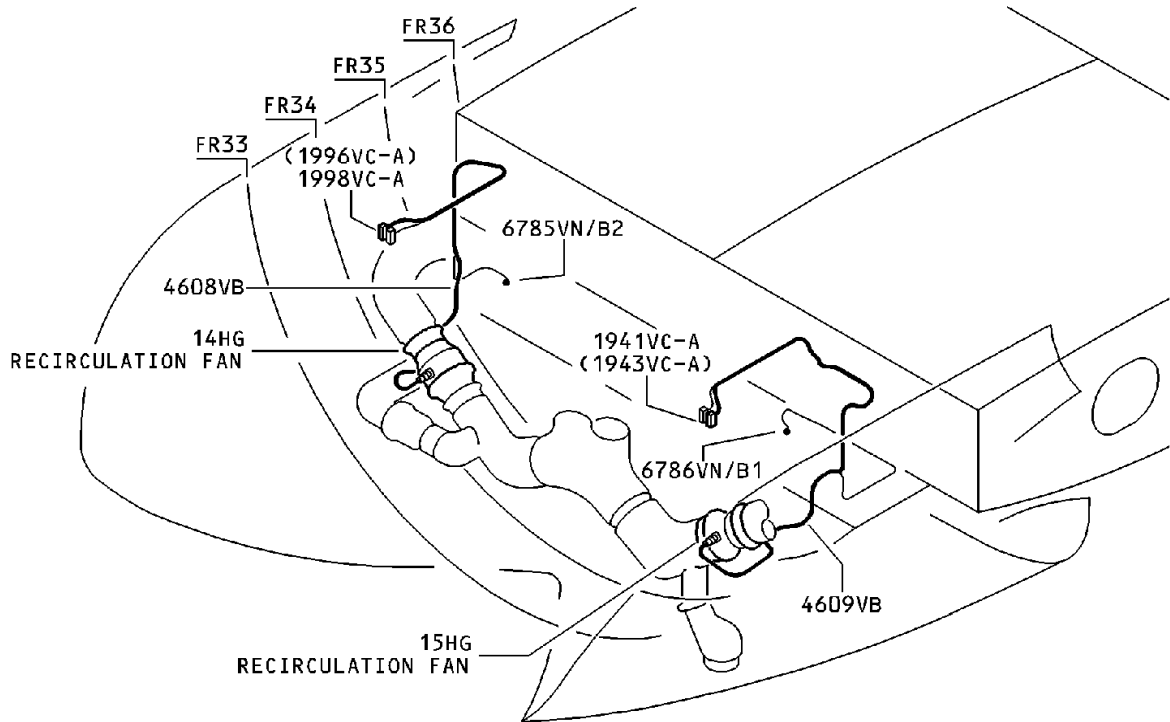
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# **A319/A320/A321**

## SERVICE BULLETIN SUMMARY



**A**



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MODIFICATION No. : 26369K2212

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#### 1. PLANNING INFORMATION

##### A. EFFECTIVITY

###### (1) Models

320-111 320-211 320-212 320-231

###### (2) Aircraft

###### (a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0002-0008 0010-0014 0016-0078 0080-0104 0106-0107

NOTE : This modification is applicable by Service Bulletin only.

###### (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 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.

OPERATOR	MSN
AAA	0022 0023 0024 0025 0026 0027 0029 0030
ACA	0059 0068 0073 0084
ADR	0043

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OPERATOR	MSN
AEL	0085
AFR	0002 0003 0004 0005 0007 0010 0012 0013 0014 0016 0019 0020 0021 0033 0036 0044 0061 0062 0063 0100 0101 0102
AWE	0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082 0091 0092 0098 0099
BAW	0006 0008 0011 0017 0018 0039 0042 0103
CYP	0028 0035 0037 0038
DLH	0069 0070 0071 0072 0078 0083 0086 0093 0094 0104
IAC	0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075 0080 0089 0090 0095 0096 0097
NWA	0031 0032 0034 0040 0041 0060 0106 0107
RJA	0087 0088

(c) Effectivity by MSN and Kit/Configuration

MSN

0002-0008 0010-0014 0016-0078 0080-0104 0106 0107

KIT No.	QTY PER A/C	CONFIGURATION
211109A01	1	None
211109A02	1	None

(3) Spares

Recirculation fan VD3900-02

**B. CONCURRENT REQUIREMENTS**

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of :  
Service Bulletin No. A320-21-1042 Mod No. 22519P2529

**C. REASON**

(1) History

Several operators have reported damage to the electrical wiring on the power supply circuit for the recirculation fans. To date, three cases of fan circuit wiring damage have been reported. In each case the fan circuit breaker protected the circuit from further damage. Investigation revealed, that the power consumption of the fans, mainly during fan start sequence, could be higher than the original specification. This could cause an overload of the electrical wiring.

The existing contacts used in this circuit are size 20 which are able to carry currents up to 7.5A. The connectors concerned are the recirculation fan connectors and the interface connectors at FR34 and the terminal blocks of relay box 103VU.

This Service Bulletin has been validated on A320 aircraft MSN 0088.

(2) Objective/Action

This Service Bulletin details the modification of the electrical

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power supply circuit for the recirculation fans and the replacement or alternative modification of the existing recirculation fans.  
This Service Bulletin will:

- increase the amperage of the circuit breakers 1HG and 3HG,
- replace the existing interface connectors at FR34,
- increase the wire gage on the aircraft, between the circuit breaker panel 122VU and the connectors on the recirculation fans 14HG and 15HG,
- replace the existing connectors 14HG-A and 15HG-A at the recirculation fans,
- perform Apparatebau Gauting GmbH Service Bulletin No.VD3900-21-06 if modified recirculation fans shall be installed instead of new fans,
- install new or modified recirculation fans with new connectors 14HG and 15HG which have increased contact size,
- modify the wiring and increase the contact size of the terminal blocks in the relay box 103VU.

(3) Advantages

Accomplishment of this Service Bulletin will prevent damage to the power supply circuit for the recirculation fans. Thus allowing the recirculation system to operate fully.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Kit 211109A01

- (a) Remove the cabin recirculation fans 14HG and 15HG.
- (b) Perform modification of recirculation fans 14HG and 15HG as described in Apparatebau Gauting GmbH Service Bulletin No. VD3900-21-06.  
  
NOTE : This workstep is applicable only, if modified recirculation fans shall be installed instead of new fans.
- (c) Do a modification to the aircraft electrical wiring on the power supply circuit for the recirculation fan 14HG.
- (d) Do a modification to the aircraft electrical wiring on the power supply circuit for the recirculation fan 15HG.
- (e) Install the new or modified recirculation fans 14HG and 15HG.

(2) Kit 211109A02

- (a) Modify the equipment in the rear circuit breaker panel 122VU.

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- (b) Modify the equipment in the rear panel 120VU.
- (c) Modify the equipment and the wiring in the relay box 103VU.
- (d) Modify the wiring between the rear panel 120VU and the rear circuit breaker panel 122VU.
- (e) Modify the wiring between the relay box 103VU and the rear panel 120VU.
- (f) Modify the wiring between the relay box 103VU and the avionics compartment.

**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 times for paints, sealants, etc, and general administration work are also not included.

**Kit 211109A01**

Get access	1.5
Modification	12.5
Test	0.5
Close-up	1.5
TOTAL MANHOURS	16.0
ELAPSED TIME (HOURS)	8.0

NOTE : If Apparatebau Gauting GmbH Service Bulletin VD3900-21-06 will be performed, manhours to modify recirculation fans have to be added.

**Kit 211109A02**

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Get access	5.0
Modification of equipment in 122VU	1.0
Modification of equipment in 120VU	1.0
Modification of EQPT and wiring in 103VU	7.5
Modification of wiring 120VU/122VU	13.0
Modification of wiring 120VU/103VU	4.0
Modification of wiring 103VU/AVNCS COMPT	9.0
Close-up	5.0
TOTAL MANHOURS	45.5
ELAPSED TIME (HOURS)	28.5

### H. WEIGHT AND BALANCE

Kit 211109A01

None

Kit 211109A02

None

### I. ELECTRICAL LOAD DATA

Not changed

### J. REFERENCES

Aircraft Maintenance Manual (AMM) : 06-31-53 11-00-00 12-34-24  
 20-21-15 20-28-00 21-21-00  
 21-21-51 24-41-00 25-11-41  
 25-54-12 52-10-00 52-30-00  
 52-41-00 52-41-13

Standard Manual (SM)

Consumable Material List (CML)

Service Bulletin (SB) : A320-21-1042

Apparatebau Gauting Service Bulletin : VD3900-21-06

### K. PUBLICATIONS AFFECTED

Aircraft Wires List (AWL)

Aircraft Wiring Manual (AWM) : 21-21-01 21-21-02

Illustrated Parts Catalog (IPC) : 21-21-02 21-21-51 24-92-01  
 24-92-02 25-71-11

### L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
Fan	VD3900-02	VD3901-00	03	No
Fan	VD3900-02	VD3900-021	03	No

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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 INDUSTRIE. Quote the number of this Service Bulletin. The address is :

AIRBUS INDUSTRIE  
MATERIEL SUPPORT CENTER  
P.O. Box 630262  
22312 HAMBURG  
GERMANY

Vendor parts are to be purchased from:

APPARATEBAU GAUTING GMBH  
AMMERSEE STRASSE 31  
82131 GAUTING  
GERMANY

**(2) Price and Availability****Kit 211109A01**

Cost : 610 US Dollars

Availability : 150 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.

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

**Kit 211109A02**

Cost : 2020 US Dollars

Availability : 150 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.

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

**B. INDUSTRY SUPPORT INFORMATION**

None

**C. LIST OF COMPONENTS**

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ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
25	NSA935401-03	21	EA	TIE					
27	NSA935401-05	4	EA	TIE					
20	VD3901-00	2	EA	FAN	(20)	VD3900-02	03	(01)	
24	D9299701100200	1	EA	EQUIPMNT					

NOTE : (01) These vendor parts are to be purchased from:

APPARATEBAU GAUTING GMBH  
AMMERSEE STRASSE 31  
82131 GAUTING  
GERMANY

Kit 211109A02

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
1	EN3545D03FXB16A	1		CNCTR					
2	EN3545D03MXA16A	1		Plug					
3	EN3545SCD	2		BACKSHLL					
4	NSA931322-150	2		C/B		NSA931322-100		(02)	
5	E0736N08-01	12		Screw					
6	ASNA2553-0401	12		washers					
8	E0393D01	1		BACKSHLL					
9	EN3545D03FXA26A	2		Plug					
10	EN3545D03MXB26A	2		CNCTR					
	D9000095209395	1		Bundle					
	D9100095207395	1		Placard					
	NSA5516-33NV	4		Clamp					
	NSA5516-41NV	2		Clamp					
	NSA935401-03	200		Tie					
	NSA935401-05	200		Tie					
	NSA935401-08	200		Tie					

NOTE : (02) Discard

### D. LIST OF MATERIALS - OPERATOR SUPPLIED

DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	INST	DISP
Elec.Bond.Coating	07-001	As required		
Lockwire	None	As required		

NOTE : Lockwire is LN9424-1.4314.9-0.4.

### E. PARTS TO BE RE IDENTIFIED BY THE OPERATOR

ITEM	NEW PART No	KEYWORD	ITEM	OLD PART No.	INT
20	VD3900-021	FAN	(20)	VD3900-02	03

NOTE : Applicable only if Apparatebau Gauting GmbH Service Bulletin No. VD3900-21-06 will be performed.

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# A319/A320/A321

## SERVICE BULLETIN

### F. TOOLING – PRICE AND AVAILABILITY

None

### G. SPECIAL TOOLS

None

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### 3. ACCOMPLISHMENT INSTRUCTIONS

#### A. GENERAL

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

**WARNING** : MAKE SURE THAT AIR IS NOT SUPPLIED TO THE AIR CONDITIONING SYSTEM FROM THE MAIN ENGINE, THE APU OR A GROUND SOURCE. HOT COMPRESSED AIR CAN CAUSE INJURY TO PERSONNEL.

#### (1) Preparation

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

PANEL	DESIGNATION	FIN	LOCATION
122VU	AIR COND/RECIRC FAN/L/CTL	2HG	X20
122VU	AIR COND/RECIRC FAN/L/SPLY	1HG	X18
122VU	AIR COND/RECIRC FAN/R/CTL	11HG	W20
122VU	AIR COND/RECIRC FAN/R/SPLY	3HG	W18

- (e) Carry out these safety precautions:
  - 1 On the panel 30VU make sure that:
    - the APU BLEED pushbutton switch is in the OFF position (the ON legend is off),
    - the ENG 1 BLEED and the ENG 2 BLEED pushbutton switches are in the OFF position (the OFF legends are on).
  - 2 Put a warning notice in position to tell persons not to operate these pushbutton switches.
  - 3 On the HP and LP ground connector, put a warning notice in position to tell persons not to supply the ground air.
- (f) Open the FWD cargo compartment door 825, refer to AMM 52-30-00 Page block 201.
- (g) In the cockpit, remove the third occupant seat 14MM (Refer to AMM 25-11-41 Page block 401).
- (h) In the FWD cargo compartment, remove the ceiling panels 131AC, 131BC and 131CC, refer to AMM 06-41-53 Page block 001 and AMM 25-54-12 Page block 401.
- (i) In the FWD cargo compartment, remove the partition panels 131AW, 131BW and 132BW, refer to AMM 06-41-53 and AMM 25-54-12 Page block 401.
- (j) In the FWD cargo compartment, at FR34, remove the partition panels 131PW and 132PW, refer to AMM 06-41-53

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Page block 001 and AMM 25-54-12 Page block 401.

- (k) Remove the air conditioning duct from the LH and RH recirculation fans 14HG and 15HG.
- (l) Open the avionics compartment door 822.
- (m) If necessary for better access to the working area, remove the relay box 103VU from the aircraft.

(2) Standard Practices

- (a) Refer to the AIRBUS INDUSTRIE 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 relationship.
- (b) For the specification of the consumable materials (Mat. No.), refer to the Consumable Materials List (CML ).
- (c) For the identification of access panels, refer to AMM 06-41-53 .
- (d) For the electrical bonding procedure, refer to AMM 20-28-00 .
- (e) On the bonding contact points apply elec.bond.coating (Mat. No. 07-001) .
- (f) For the Frame (FR) identification, refer to AMM 06-31-53 Page block 001.
- (g) After the modification or installation of electrical wires, do a continuity test.
- (h) Safety all the electrical connectors to the electrical receptacles with lockwire LN9424-1.4314.9-0.4.
- (i) For the torque loading of electrical component fasteners, refer to AMM 20-21-15 Page block 201.
- (j) For the installation of placards, refer to AMM 11-00-00 Page block 201.

B. MODIFICATION

(1) Kit 211109A01

- (a) Remove the cabin recirculation fans 14HG and 15HG, Item (20), refer to AMM 21-21-51 Page block 401.  
Refer to Figure 18 Sheet 1 and Figure 19 Sheet 1
- (b) Perform modification of recirculation fans 14HG and 15HG.

NOTE : This workstep is applicable only, if modified recirculation fans shall be installed instead of new fans.

- 1 Modify recirculation fans VD3900-02 to VD3900-021 as described in Apparatebau Gauting GmbH Service Bulletin No. VD3900-21-06.

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- 2 Re-identify modified recirculation fans as described in Apparatebau Gauting GmbH Service Bulletin VD3900-21-06.
- (c) Do a modification to the aircraft electrical wiring on the power supply circuit for the recirculation fan 14HG.
- 1 Between the interface connector 1996VC-A and the connector at the recirculation fan 14HG remove these items of attachment hardware:  
Refer to Figure 19
- |    |         |           |         |
|----|---------|-----------|---------|
| 2  | ties    | Item (27) | discard |
| 4  | ties    | Item (25) | discard |
| 12 | spacers | Item (32) | retain  |
| 12 | clamps  | Item (31) | retain  |
| 7  | washers | Item (29) | retain  |
| 6  | screws  | Item (28) | retain  |
| 1  | screw   | Item (33) | retain  |
| 1  | clamp   | Item (34) | retain  |
| 2  | clamps  | Item (35) | retain  |
| 2  | washers | Item (36) | retain  |
| 2  | screws  | Item (37) | retain  |
| 1  | screw   | Item (38) | retain  |
| 1  | washer  | Item (39) | retain  |
| 1  | nut     | Item (40) | retain  |
- 2 Between the interface connector 1996VC-A, the connector 14HG-A at the recirculation fan 14HG and the electrical ground point 6785VN/B2 remove the electrical wires.  
Refer to Figure 20 and 21
- a Between the connector 1996VC-A and the connector 14HG-A, disconnect the wires as shown on Hook-Up Chart, Figure 21, lines 12 thru 14.
- b Between the electrical ground point 6785VN/B2 and the connector 14HG-A, disconnect the wire as shown on Hook-Up Chart, Figure 21, line 18.
- c Remove the connector 14HG-A:  
Refer to Figure 19 Sheet 6
- |   |           |           |         |
|---|-----------|-----------|---------|
| 1 | connector | Item (41) | discard |
| 1 | backshell | Item (42) | discard |
- 3 Between the interface connector 1998VC-A, the connector 14HG-A at the recirculation fan 14HG and the electrical ground point 6785VN/B2 install and assemble the electrical kit, item 24.  
Refer to Figure 19 , 20 and 21
- a Route the new wires with the existing wires in the aircraft.
- b Install the applicable wires, supplied in the electrical kit, item 24, as shown in Hook-Up Chart, Figure 21, lines 15 thru 17 and 19 and assemble them with

connector, item 41, and backshell, item 42.

NOTE (1) Connector, item 41, and backshell, item 42, are supplied in the electrical kit, item 24.

NOTE (2) If recirculation fan PN VD3901-00 is installed, use connector PN E0052R14B12SNF, item 41, which is supplied in the electrical kit, item 24.  
If recirculation fan PN VD3901-021 is installed, use connector PN E0052R14B12SXF, item 41, which is supplied in the electrical kit, item 24.

c Attach the identification label 14HG-A, supplied in the electrical kit, item 24, to the new wires with cable ties NSA935401-03, item 25.

4 Install in the same positions these items of attachment hardware, that you removed and retained in paragraph 3.B.(1)(c)1, as shown:  
Refer to Figure 19

12	spacers	Item (32)	retained
12	clamps	Item (31)	retained
7	washers	Item (29)	retained
6	screws	Item (28)	retained
1	screw	Item (33)	retained
1	clamp	Item (34)	retained
2	clamps	Item (35)	retained
2	washers	Item (36)	retained
2	screws	Item (37)	retained
1	screw	Item (38)	retained
1	washer	Item (39)	retained
1	nut	Item (40)	retained

together with these new items:

2	ties	NSA935401-05	Item 27
4	ties	NSA935401-03	Item 25

(d) Do a modification to the aircraft electrical wiring on the power supply circuit for the recirculation fan 15HG.

1 Between the interface connector 1943VC-A and the connector at the recirculation fan 15HG remove these items of attachment hardware:

Refer to Figure 18

2	ties	Item (27)	discard
15	ties	Item (25)	discard
6	spacers	Item (32)	retain
10	clamps	Item (31)	retain
5	washers	Item (29)	retain
2	screws	Item (28)	retain
1	screw	Item (33)	retain
1	clamp	Item (34)	retain
3	clamps	Item (35)	retain

- |   |         |           |        |
|---|---------|-----------|--------|
| 3 | washers | Item (36) | retain |
| 3 | screws  | Item (37) | retain |
| 1 | screw   | Item (38) | retain |
| 1 | washer  | Item (39) | retain |
| 1 | nut     | Item (40) | retain |
| 2 | screws  | Item (43) | retain |
- 2 Between the interface connector 1943VC-A, the connector 15HG-A at the recirculation fan 15HG and the electrical ground point 6786VN/B1 remove the electrical wires.  
Refer to Figure 20 and 21
- a Between the connector 1943VC-A and the connector 15HG-A, disconnect the wires as shown on Hook-Up Chart, Figure 21, lines 1 thru 3.
- b Between the electrical ground point 6786VN/B1 and the connector 15HG-A, disconnect the wire as shown on Hook-Up Chart, Figure 21, line 7.
- c Remove the connector 15HG-A:  
Refer to Figure 18 Sheet 6
- |   |           |           |         |
|---|-----------|-----------|---------|
| 1 | connector | Item (41) | discard |
| 1 | backshell | Item (42) | discard |
- 3 Between the interface connector 1941VC-A, the connector 15HG-A at the recirculation fan 15HG and the electrical ground point 6786VN/B1 install and assemble the electrical kit, item 24.  
Refer to Figure 18 , 20 and 21
- a Route the new wires with the existing wires in the aircraft.
- b Install the applicable wires, supplied in the electrical kit, item 24, as shown in Hook-Up Chart, Figure 21, lines 4 thru 6 and 8 and assemble them with connector, item 41, and backshell, item 42.
- NOTE (1) Connector, item 41, and backshell, item 42, are supplied in the electrical kit, item 24.
- NOTE (2) If recirculation fan PN VD3901-00 is installed, use connector PN E0052R14B12SNF, item 41, which is supplied in the electrical kit, item 24.  
If recirculation fan PN VD3901-021 is installed, use connector PN E0052R14B12SXF, item 41, which is supplied in the electrical kit, item 24.
- c Attach the identification label 15HG-A, supplied in the electrical kit, item 24, to the new wires with cable ties NSA935401-03, item 25.
- 4 Install in the same positions these items of attachment hardware, that you removed and retained in paragraph

3.B.(1)(d)1 , as shown:

Refer to Figure 18

6	spacers	Item (32)	retained
10	clamps	Item (31)	retained
5	washers	Item (29)	retained
2	screws	Item (28)	retained
1	screw	Item (33)	retained
1	clamp	Item (34)	retained
3	clamps	Item (35)	retained
3	washers	Item (36)	retained
3	screws	Item (37)	retained
1	screw	Item (38)	retained
1	washer	Item (39)	retained
1	nut	Item (40)	retained
1	screws	Item (43)	retained

together with these new items:

2	ties	NSA935401-05	Item 27
15	ties	NSA935401-03	Item 25

(e) Install the new or modified recirculation fans 14HG and 15HG, Item 20, refer to AMM 21-21-51 Page block 401.

Refer to Figure 18 Sheet 1 and Figure 19 Sheet 1

(2) Kit 211109A02

(a) Modify the equipment in the rear circuit breaker panel 122VU.  
Refer to Figure 2

1 Remove from the position X18 :

FIN 1HG

1	circuit breaker	NSA931322-100	Item (4)	Discard
with :				
6	screws	E0736N08-01		Discard
6	washers	ASNA2553-0401		Discard

2 Remove from the position W18 :

FIN 3HG

1	circuit breaker	NSA931322-100	Item (4)	Discard
with :				
6	screws	E0736N08-01		Discard
6	washers	ASNA2553-0401		Discard

3 Install at the position X18 :

FIN 1HG

1	circuit breaker	NSA931322-150	Item 4	
with :				
6	screws	E0736N08-01	Item 5	
6	washers	ASNA2553-0401	Item 6	

4 Install at the position W18 :

FIN 3HG

1	circuit breaker	NSA931322-150	Item 4	
with :				
6	screws	E0736N08-01	Item 5	
6	washers	ASNA2553-0401	Item 6	

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- (b) Modify the equipment in the rear panel 120VU.  
Refer to figure 1

1 Install the 2234VC :

1 connector EN3545D03FXB16A Item 1

2 On the rear panel 120VU, bond the placard 2234VC, supplied in:

1 placard set D9100095207395 Item 12

- (c) Modify the equipment and the wiring in the relay box 103VU.

Refer to Figure 3

Refer to Figure 4

Refer to Figure 8

Refer to Figure 12

Refer to Figure 15

1 Install the 1140VC and 1158VC :

2 connectors EN3545D03MXB26A Item 10

2 On the relay box 103VU, bond the placards 1140VC and 1158VC, supplied in :

placard set D9100095207395 Item 12

3 Remove the wires shown on the lines 1 thru 22 (Refer to figure 12 ).

4 Install the wires shown on the lines 1 thru 22 (Refer to figure 15 ), supplied in :

1 bundle D9000095209395 Item 11

5 Route them with the wires that are in the relay box.

6 Cut the wires to the necessary length, crimp the terminals and connect them.

7 Attach the wires with :

50 cable-ties NSA935401-03 Item 13

50 cable-ties NSA935401-05 Item 14

50 cable-ties NSA935401-08 Item 15

8 If necessary and if the dimension of the existing clamps is too small, you can use the clamps supplied in Kit 211109A01 :

4 clamp NSA5516-33NV

2 clamp NSA5516-41NV

- (d) Modify the wiring between the rear panel 120VU and the rear circuit breaker panel 122VU.

Refer to figure 5 Sheet 1 and 2

Refer to Figure 9 Sheet 1 and 2

Refer to Figure 13

Refer to Figure 16

1 Remove the wires shown on the lines 1 thru 3 (Refer to figure 13 ) and on the lines 1 thru 3 (Refer to figure 16 ).

2 Modify the connection of the wires shown on the lines 7

thru 18 (Refer to figure 13 ) and on the lines 7 thru 18 (Refer to figure 16 ).

- 3 Install the wires shown on the lines 22 thru 24 (Refer to figure 13 ) and on the lines 22 thru 24 (Refer to figure 16 ), supplied in :

bundle D9000095209395 Item 11

- 4 Route them with the wires that are in the panels.

- 5 Cut the wires to the necessary length, crimp the terminals and connect them.

- 6 Attach the wires with :

50 cable-ties NSA935401-03 Item 13

50 cable-ties NSA935401-05 Item 14

50 cable-ties NSA935401-08 Item 15

- (e) Modify the wiring between the relay box 103VU and the rear panel 120VU.

Refer to figure 1

Refer to figure 3

Refer to figure 6

Refer to figure 10

Refer to figure 14

- 1 Remove the wires shown on the lines 1 thru 6 (Refer to figure 14 ).

- 2 Install the wires shown on the lines 10 thru 15 (Refer to figure 14 ), supplied in :

bundle D9000095209395 Item 11

- 3 Route them with the wires that are in the panels.

- 4 Cut the wires to the necessary length, crimp the terminals and connect them to :

FIN 1140VC-A and 1140VC-A1

1 plug connector EN3545D03FXA26A Item 9

1 backshell E0393D01 Item 8

FIN 1158VC-A and 1158VC-A1

1 plug connector EN3545D03FXA26A Item 9

1 backshell EN3545SCD Item 3

FIN 2234VC-A and 2234VC-A1

1 plug connector EN3545D03MXA16A Item 2

1 backshell EN3545SCD Item 3

- 5 Install the identification plates 1140VC-A, 1158VC-A and 2234VC-A, supplied in :

bundle D9000095209395 Item 11

- 6 Attach the wires with :

50 cable-ties NSA935401-03 Item 13

50 cable-ties NSA935401-05 Item 14

50 cable-ties NSA935401-08 Item 15

- (f) Modify the wiring between the relay box 103VU and the avionics compartment.



Refer to figure 7 , 11 and 17

- 1 Remove the wires shown on the lines 1 thru 6 (Refer to figure 17 ).
- 2 Install the wires shown on the lines 10 thru 15 (Refer to figure 17 ), supplied in :  
bundle D9000095209395 Item 11
- 3 Route them with the wires that are in the aircraft.
- 4 Cut the wires to the necessary length, crimp the terminals and connect them.
- 5 Attach the wires with :

50	cable-ties	NSA935401-03	Item 13
50	cable-ties	NSA935401-05	Item 14
50	cable-ties	NSA935401-08	Item 15

#### C. TEST

- (1) Close the circuit breakers, you have opened in paragraph 3.A.(1)(d) .
- (2) Do the operational test of the cabin recirculation fans 14HG and 15HG, refer to AMM 21-21-00 Page 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 third occupant seat 14MM (Refer to AMM 25-11-41 Page block 401).
- (3) In the FWD cargo compartment, install the ceiling panels 131AC, 131BC and 131CC, refer to AMM 25-54-12 Page block 401.
- (4) In the FWD cargo-compartment, install the partition panels 131AW, 131BW and 132BW (Refer to AMM 06-41-53 Page block 001and AMM 25-54-12 Page block 401).
- (5) In the FWD cargo compartment, at FR34, install the partition panels 131PW and 132PW, refer to AMM 06-41-53 Page block 001and AMM 25-54-12 Page block 401.
- (6) Close the FWD cargo compartment door 825, refer to AMM 52-30-00 Page block 201.
- (7) Close the avionics compartment door 822, refer to AMM 52-41-00 Page block 001.
- (8) Remove the access platforms.

#### E. DOCUMENTATION

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

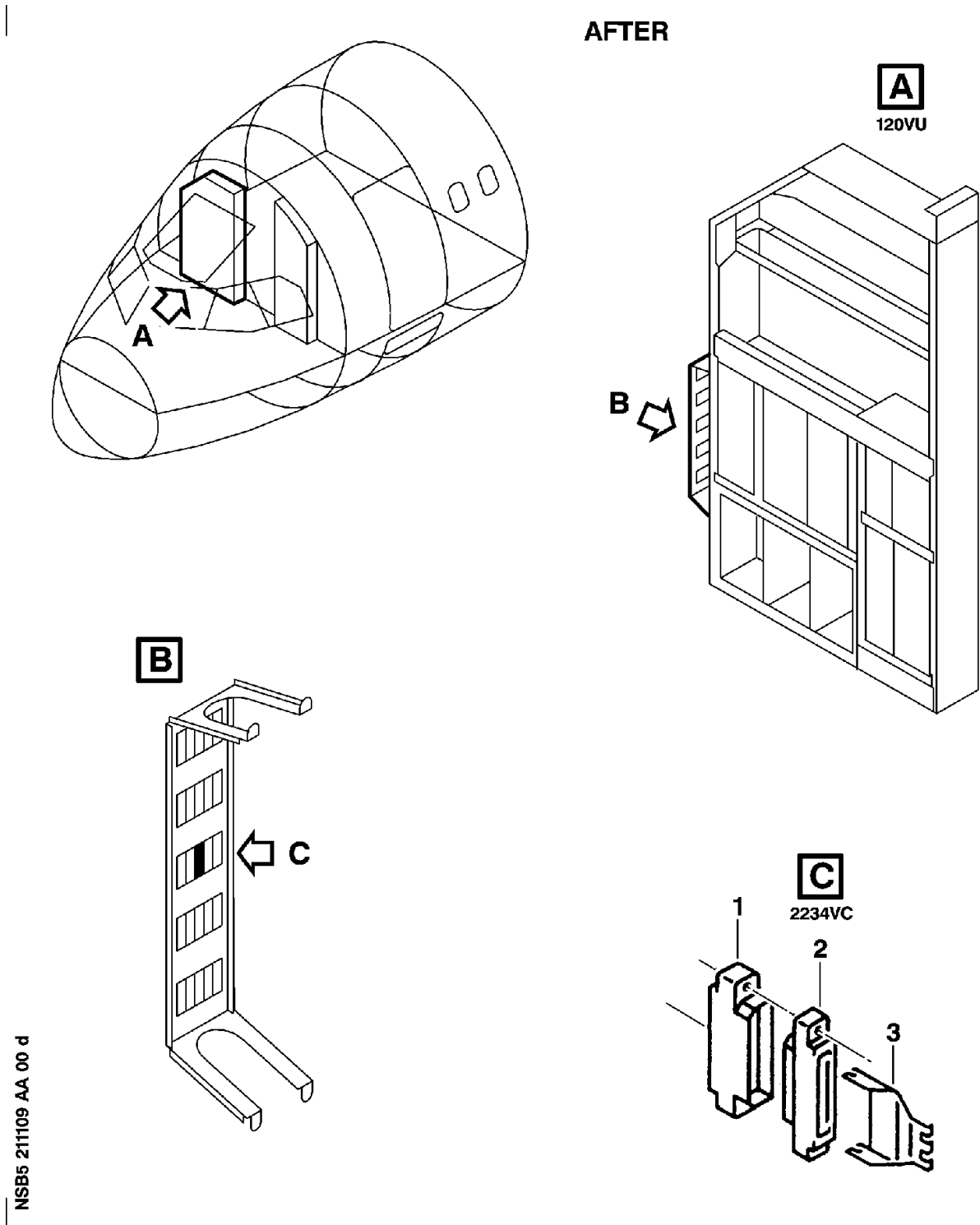


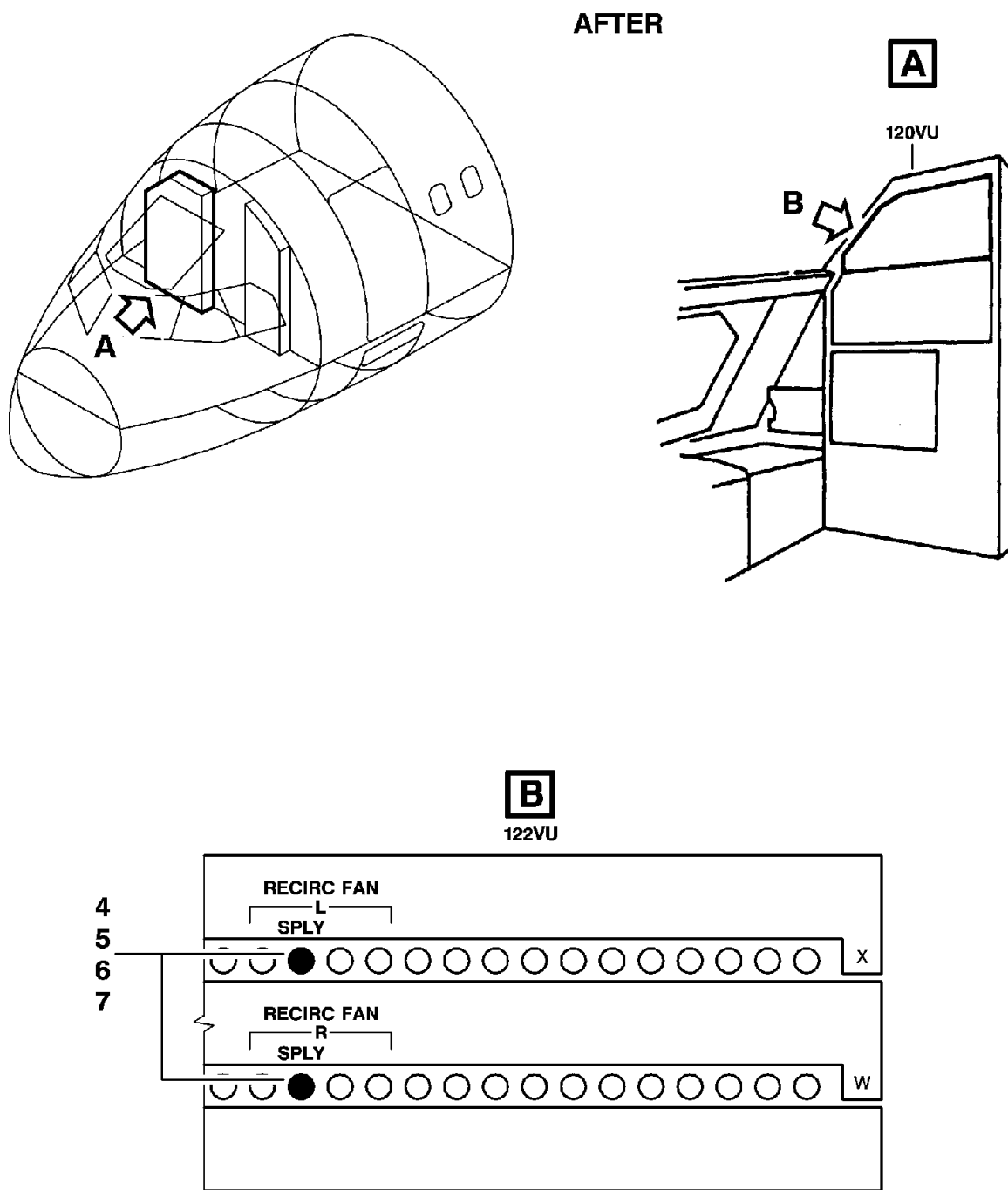
Figure 1 Sheet 1  
Modification of the Equipment in the Rear Panel 120VU

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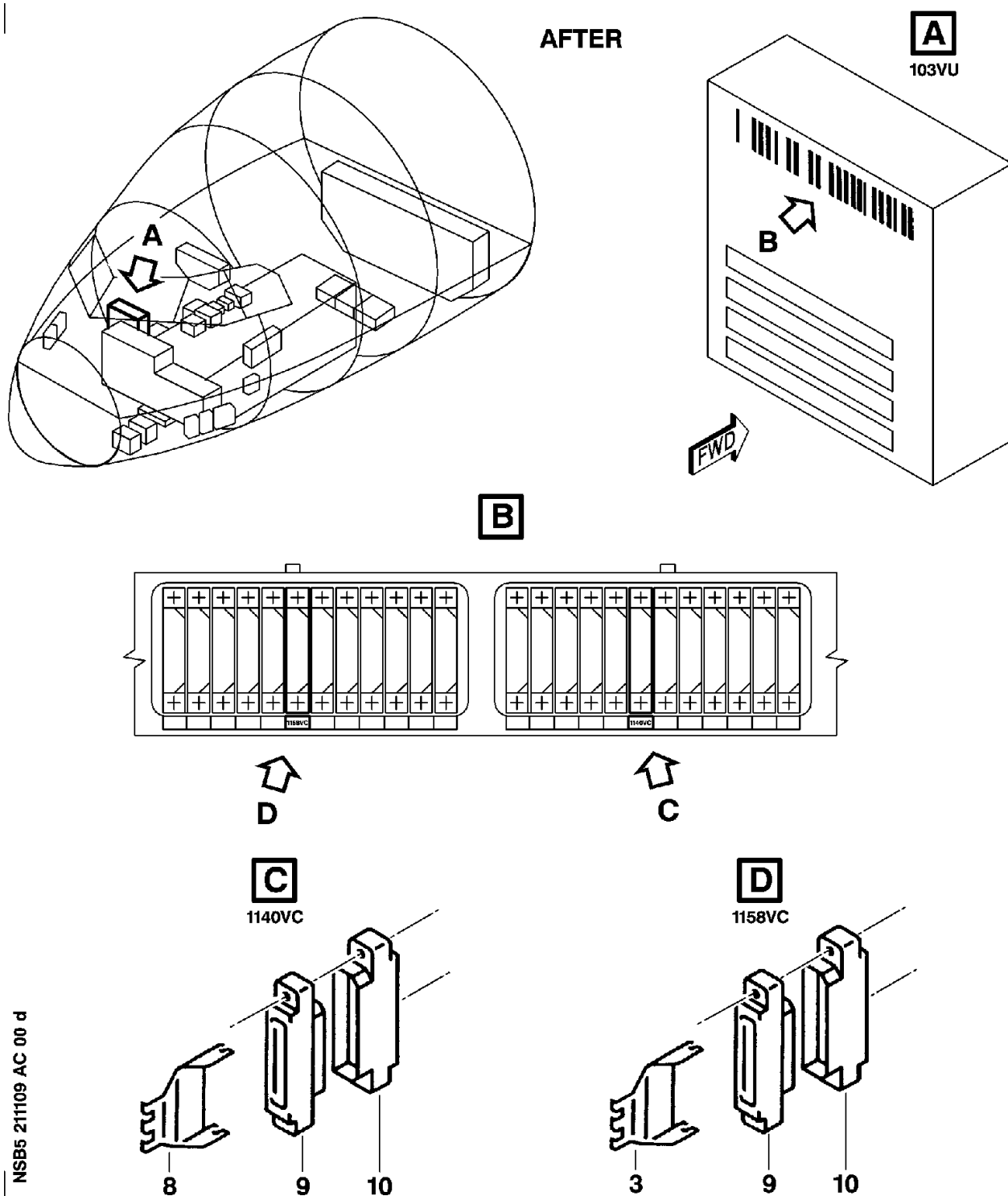
Figure 2 Sheet 1  
Modification of the Equipment in the Rear Circuit Breaker Panel 122VU

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Figure 3 Sheet 1  
Modification of the Equipment in the Relay Box 103VU

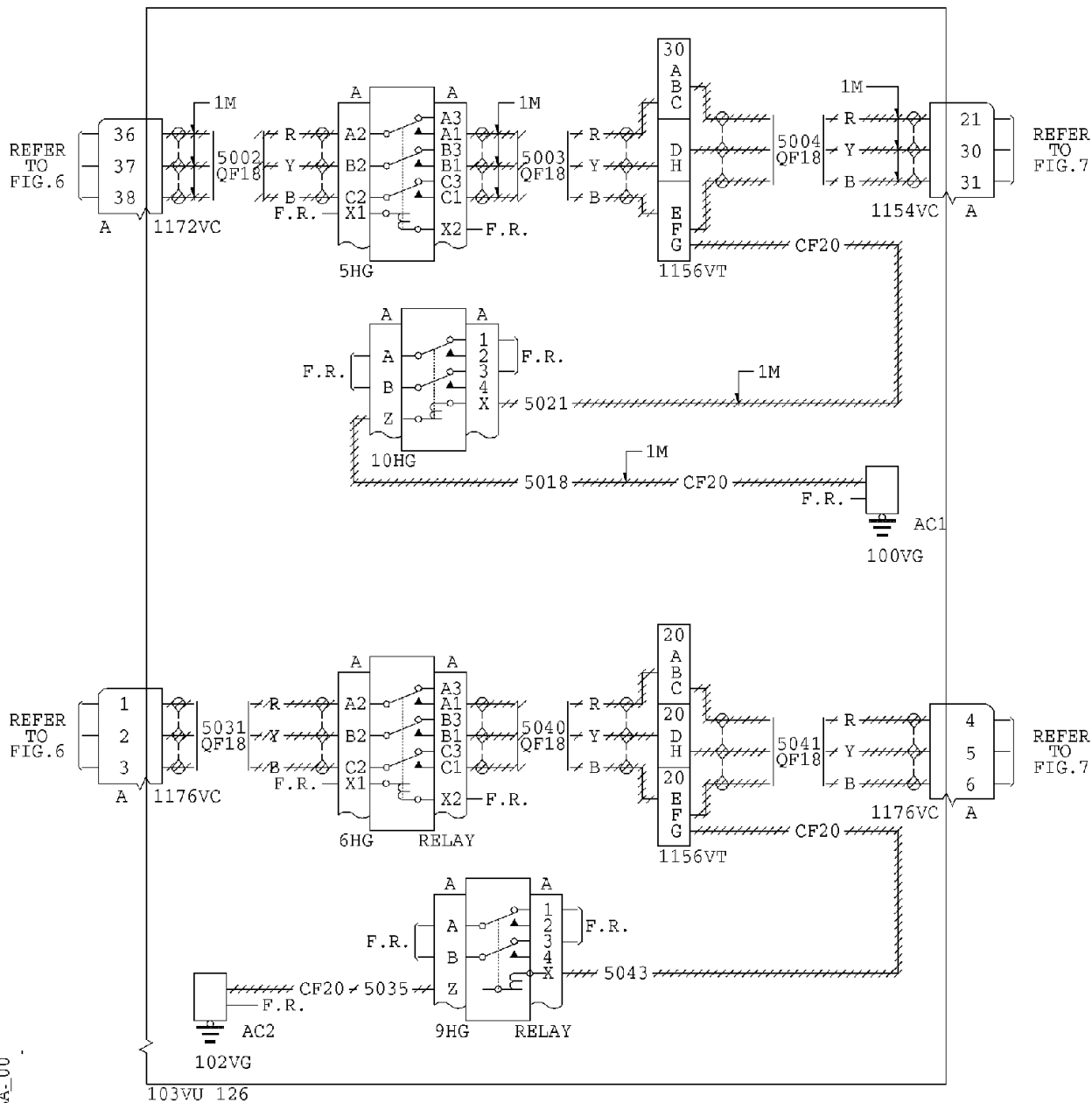
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///// DELETED WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DK18 GAUGE  
 UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M  
 SHIELDING CONTINUITY WIRES ARE CF24 GAUGE

**Figure 4 Sheet 1**  
**Modification of the Wiring in the Relay Box 103VU**

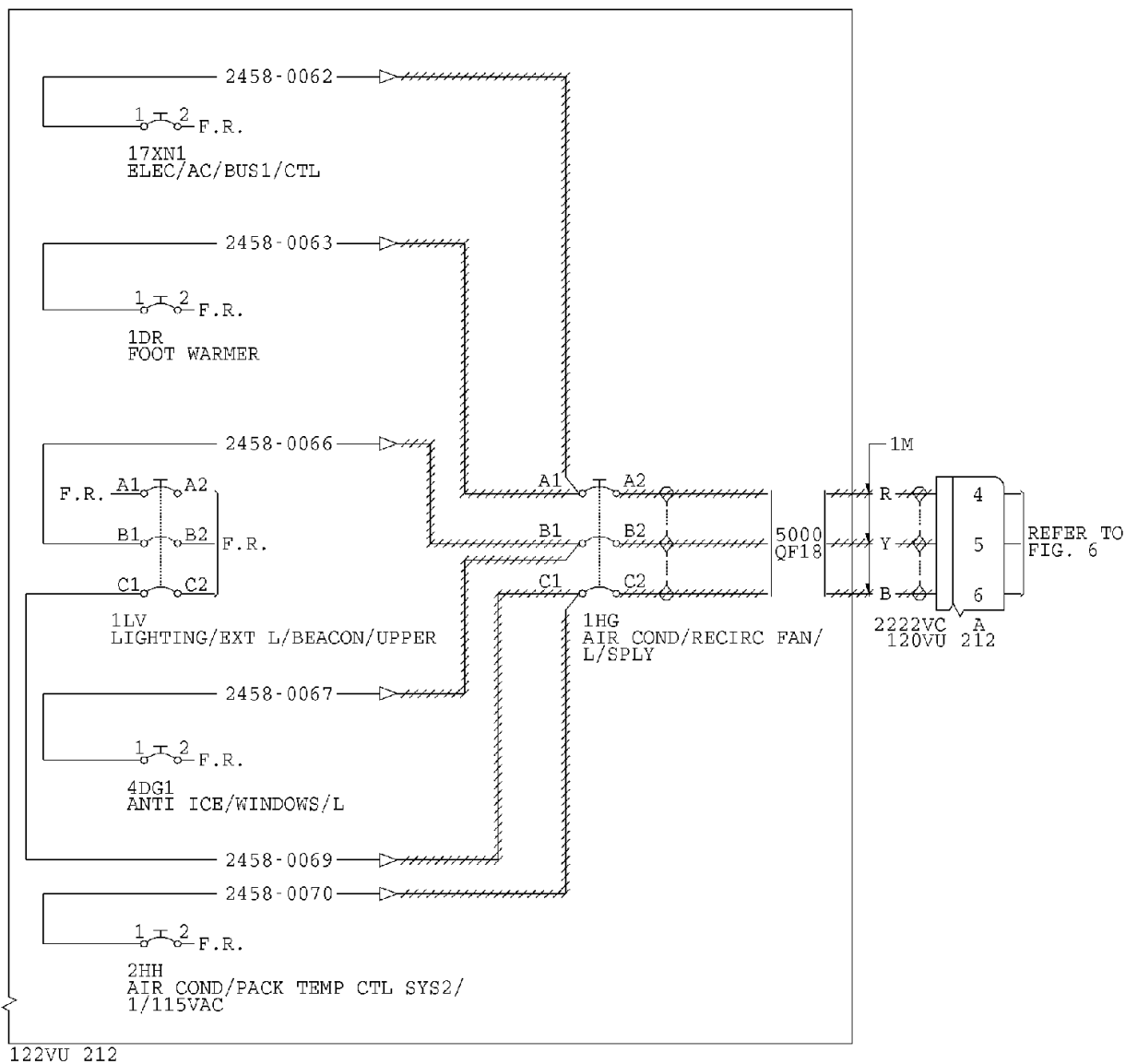
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
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 OLD HOOK-UP    
  DELETED WIRE    
 F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF10 GAUGE  
 UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1P

Figure 5 Sheet 1  
 Modification of the Wiring Between the Rear Panel 120VU and the Rear Circuit Breaker Panel 122VU

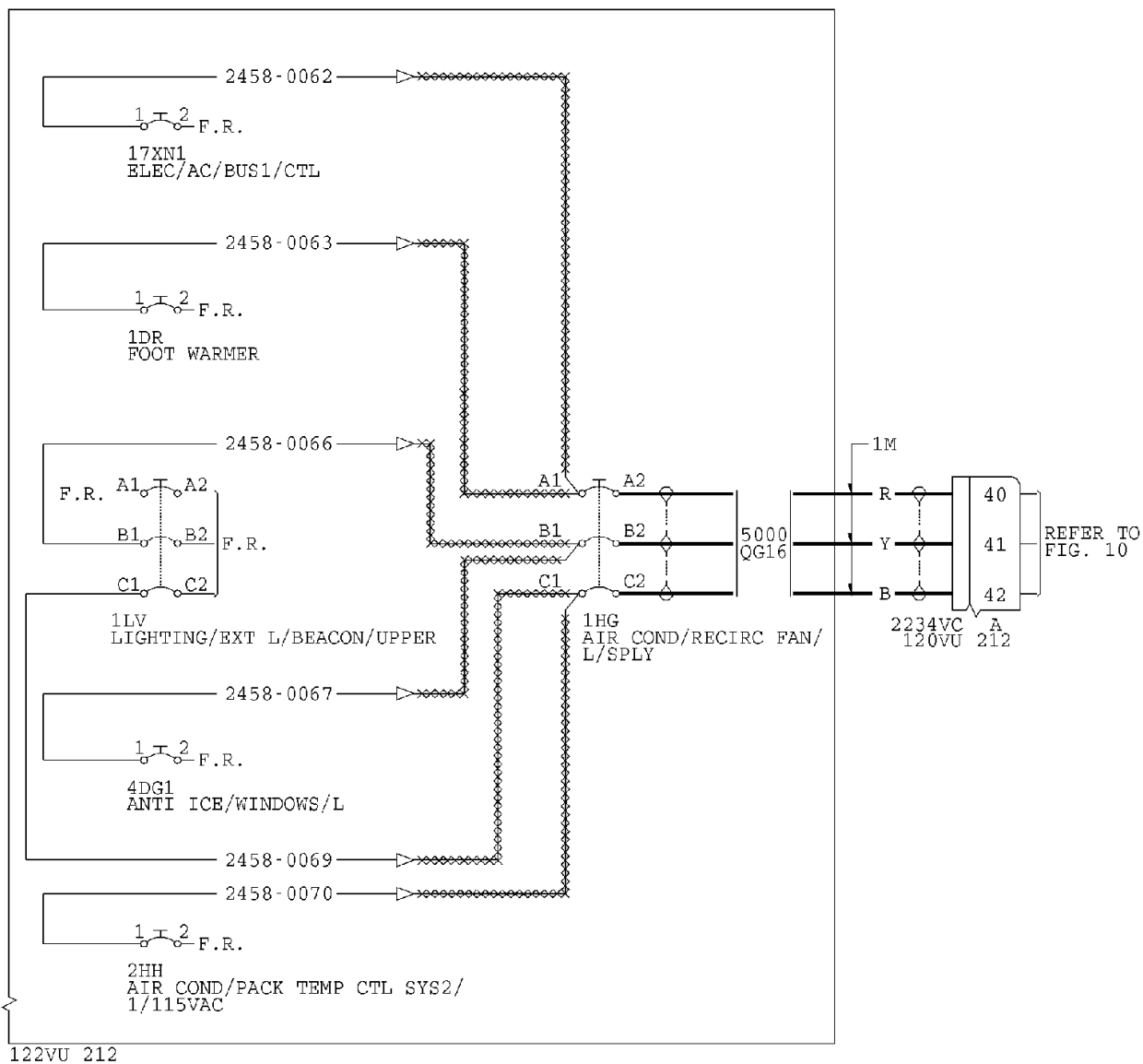
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122VU 212

— NEW HOOK-UP — NEW WIRE F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF10 GAUGE  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1P

NB5211109BFAAB

**Figure 5 Sheet 2**  
**Modification of the Wiring Between the Rear Panel 120VU and the Rear Circuit Breaker Panel 122VU**

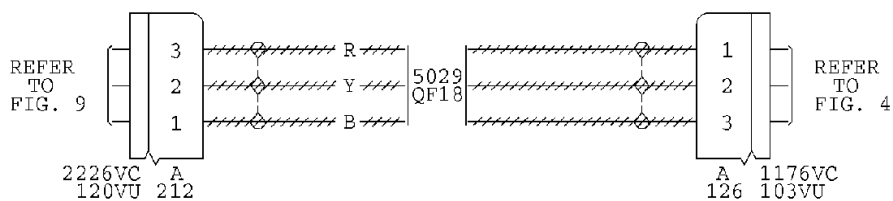
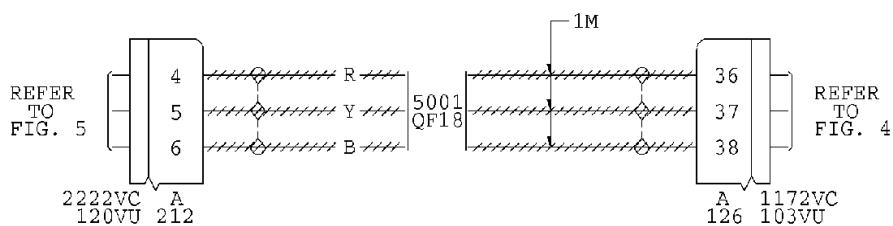
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////// DELETED WIRE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

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**Figure 6 Sheet 1**  
**Modification of the Wiring Between the Relay Box 103VU and the Rear Panel 120VU**

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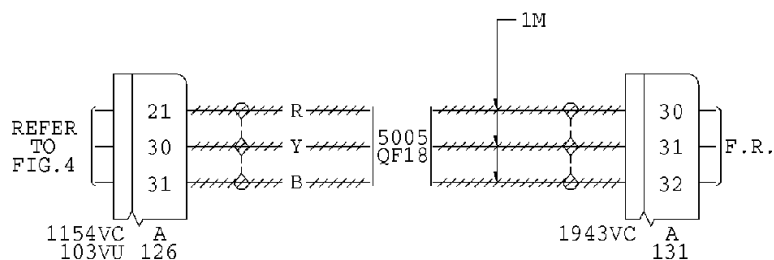
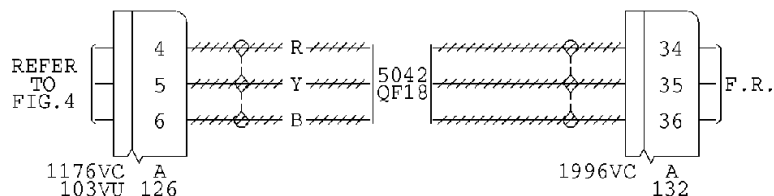
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////// DELETED WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

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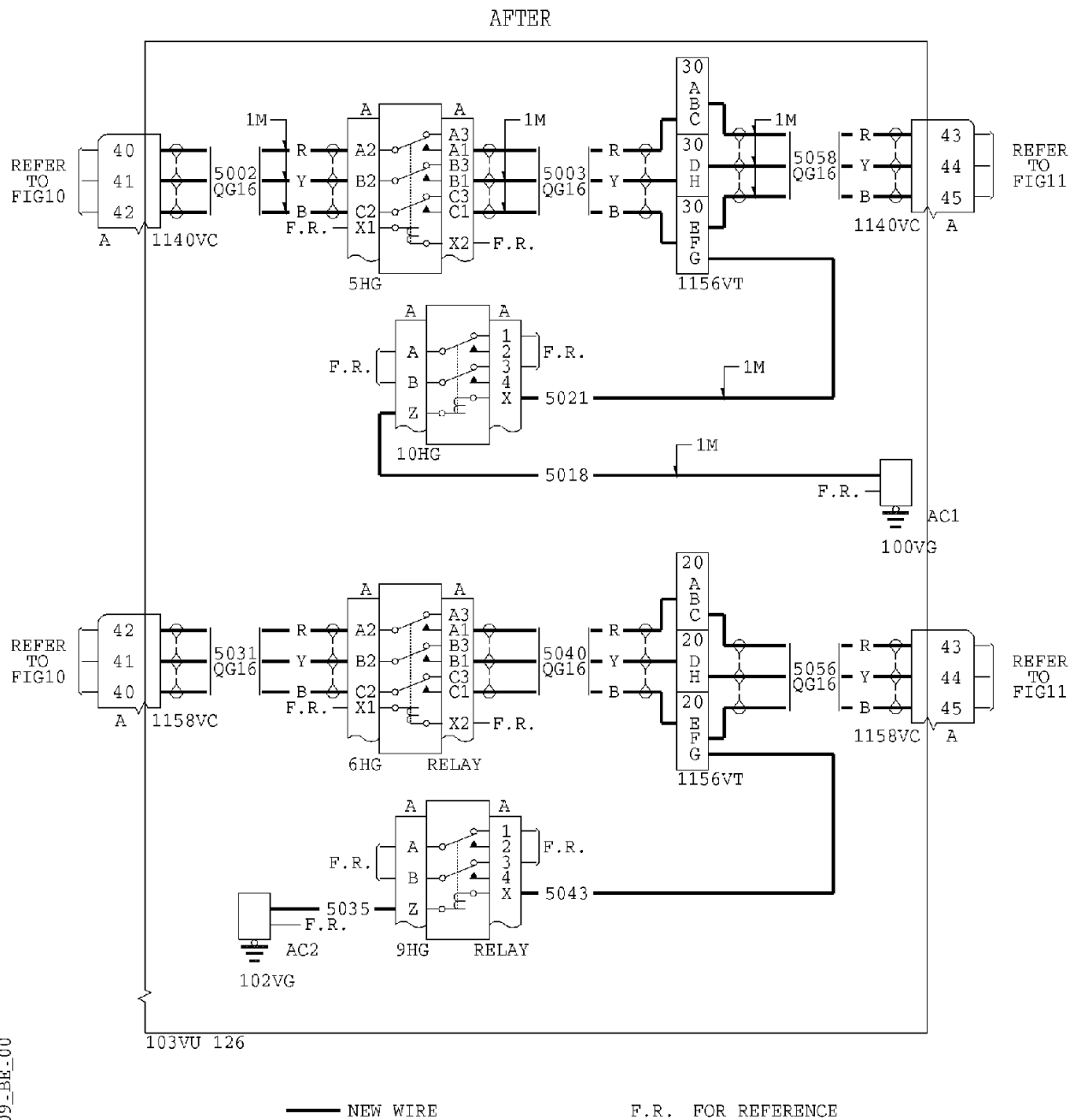
**Figure 7 Sheet 1**  
**Modification of the Wiring Between the Relay Box 103VU and the avionics compartment**

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NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DK18 GAUGE  
 UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

**Figure 8 Sheet 1**  
**Modification of the Wiring in the Relay Box 103VU**

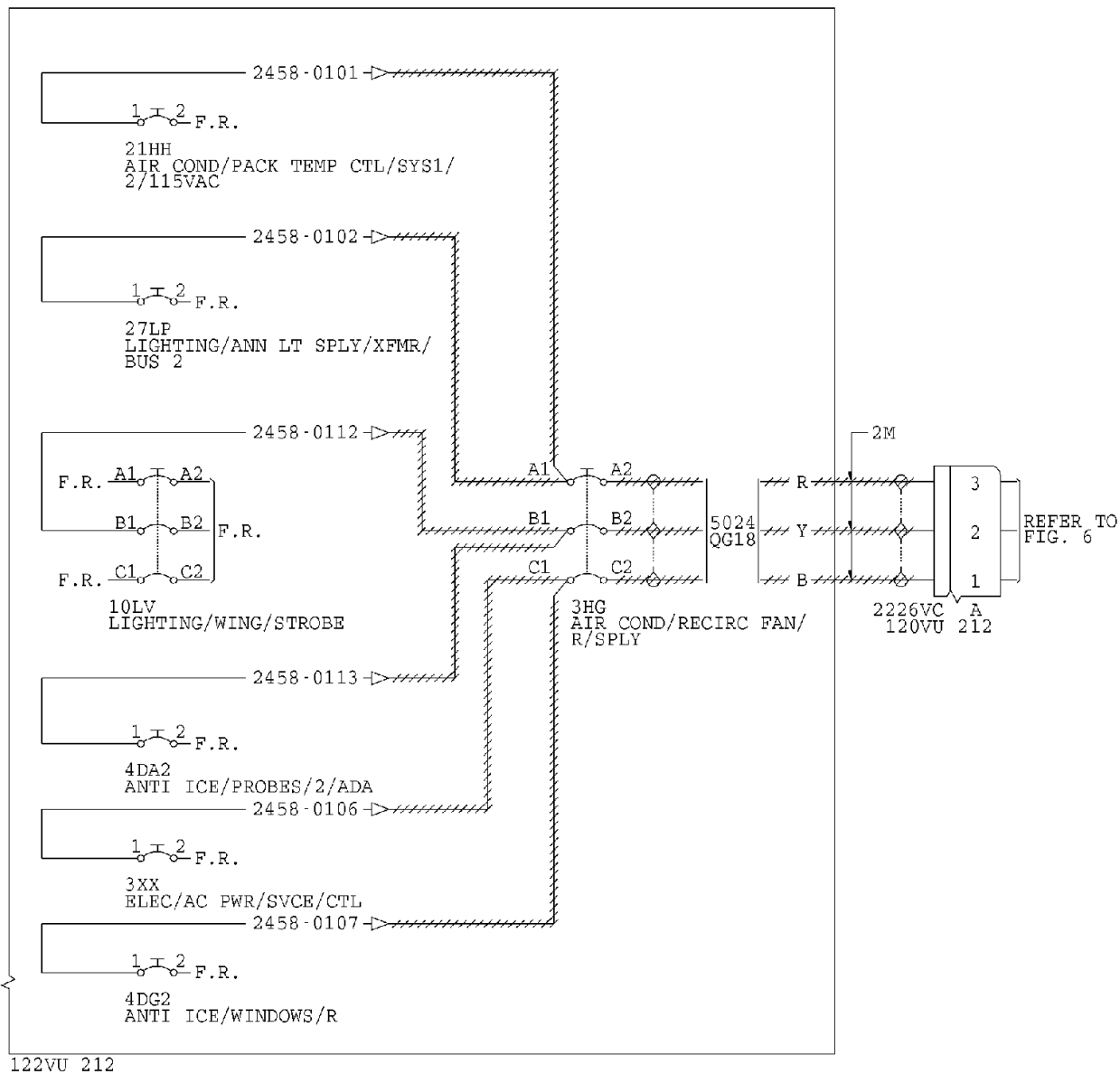
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OLD HOOK-UP

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DK10 GAUGE  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2P

Figure 9 Sheet 1  
Modification of the Wiring Between the Rear Panel 120VU and the Rear Circuit  
Breaker Panel 122VU

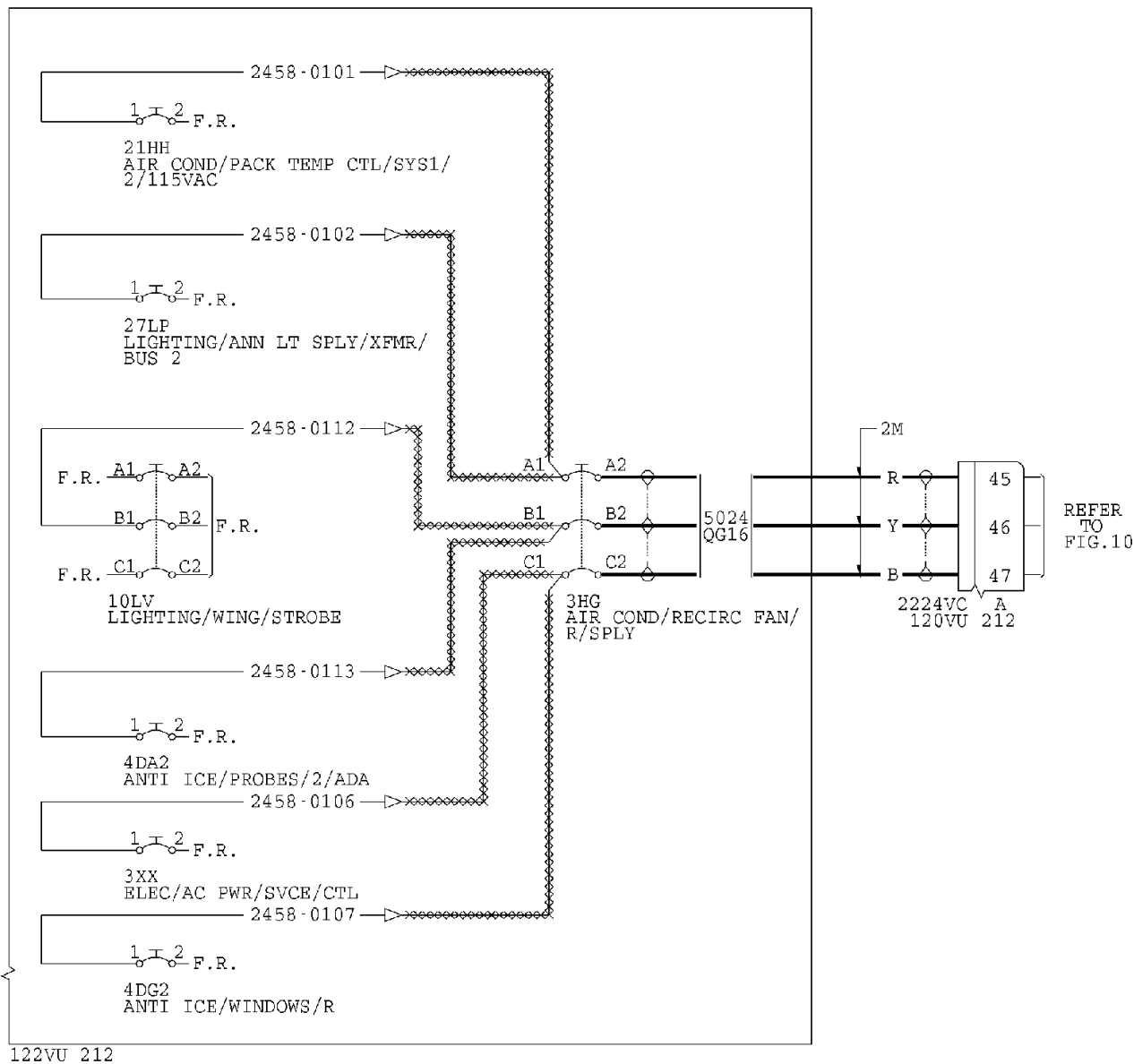
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NEW HOOK-UP

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DK10 GAUGE  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2P

**Figure 9 Sheet 2**  
**Modification of the Wiring Between the Rear Panel 120VU and the Rear Circuit Breaker Panel 122VU**

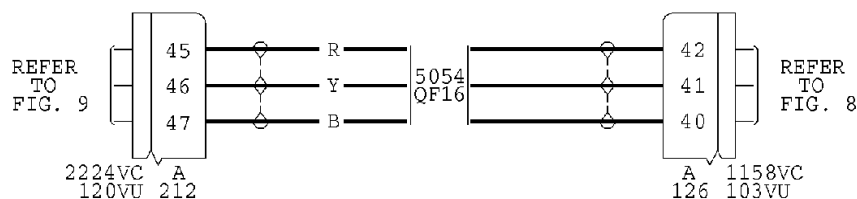
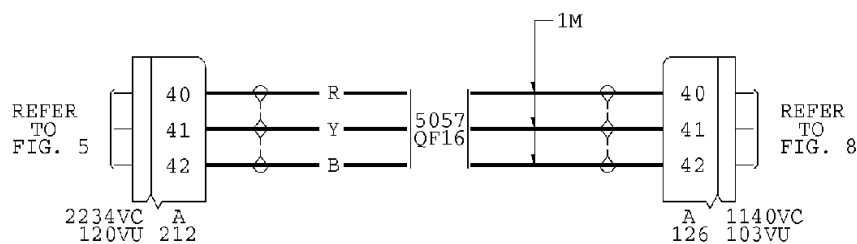
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— NEW WIRE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

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Figure 10 Sheet 1  
Modification of the Wiring Between the Relay Box 103VU and the Rear Panel 120VU

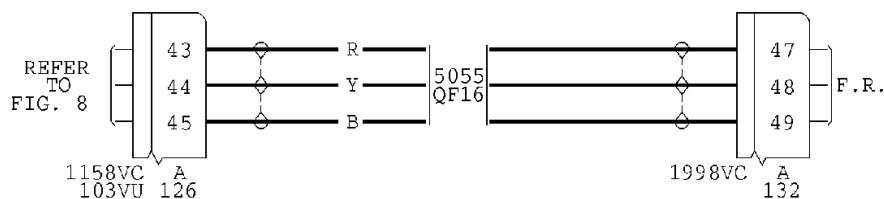
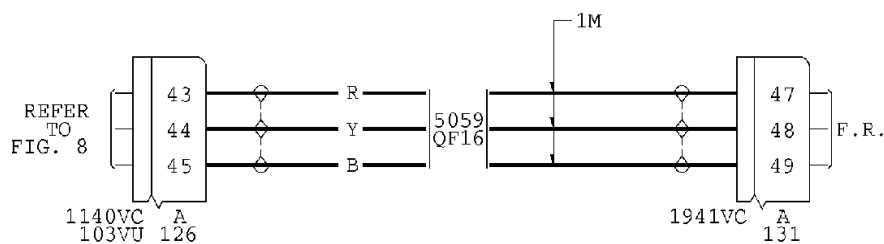
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— NEW WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2121  
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

NSB5\_211109\_BH\_00

**Figure 11 Sheet 1**  
**Modification of the Wiring Between the Relay Box 103VU and the avionics compartment**

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Figure 12 Sheet 1  
Hook-up Chart

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Figure 13 Sheet 1  
Hook-up Chart

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Figure 14 Sheet 1  
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Figure 15 Sheet 1  
Hook-up Chart

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Figure 16 Sheet 1  
Hook-up Chart

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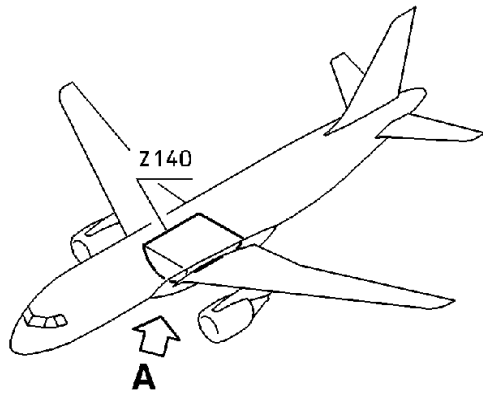
**Figure 17 Sheet 1**  
**Hook-up Chart**

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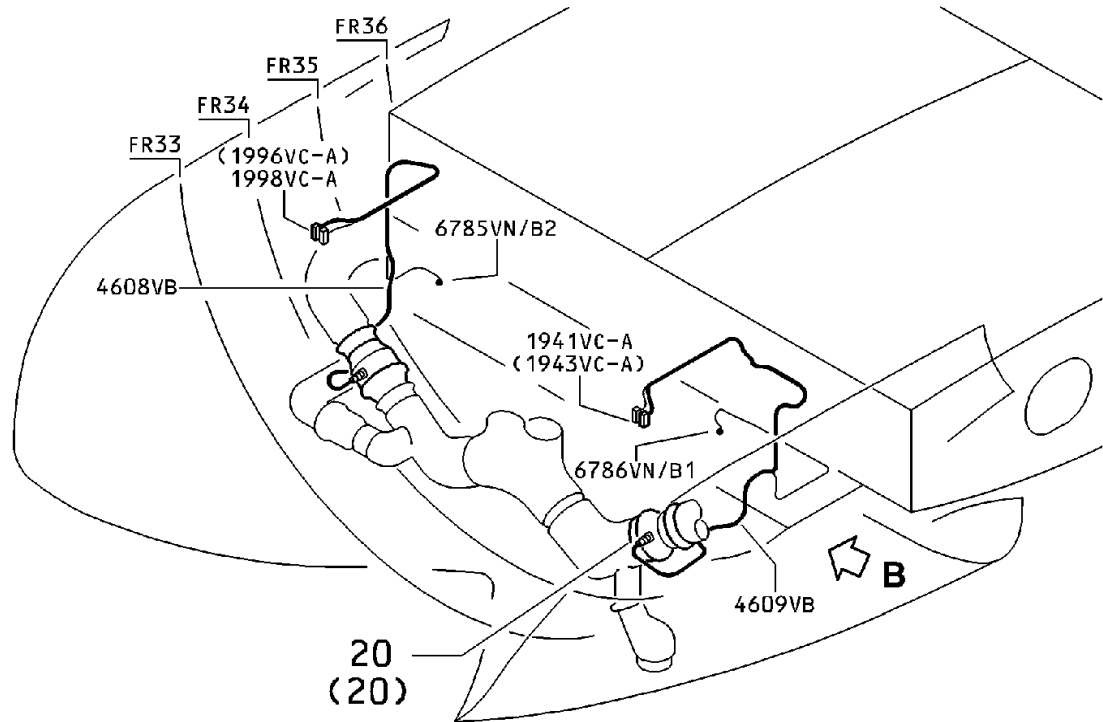
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**A**



NB6 21 1109 ACMA-A

Figure 18 Sheet 1  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

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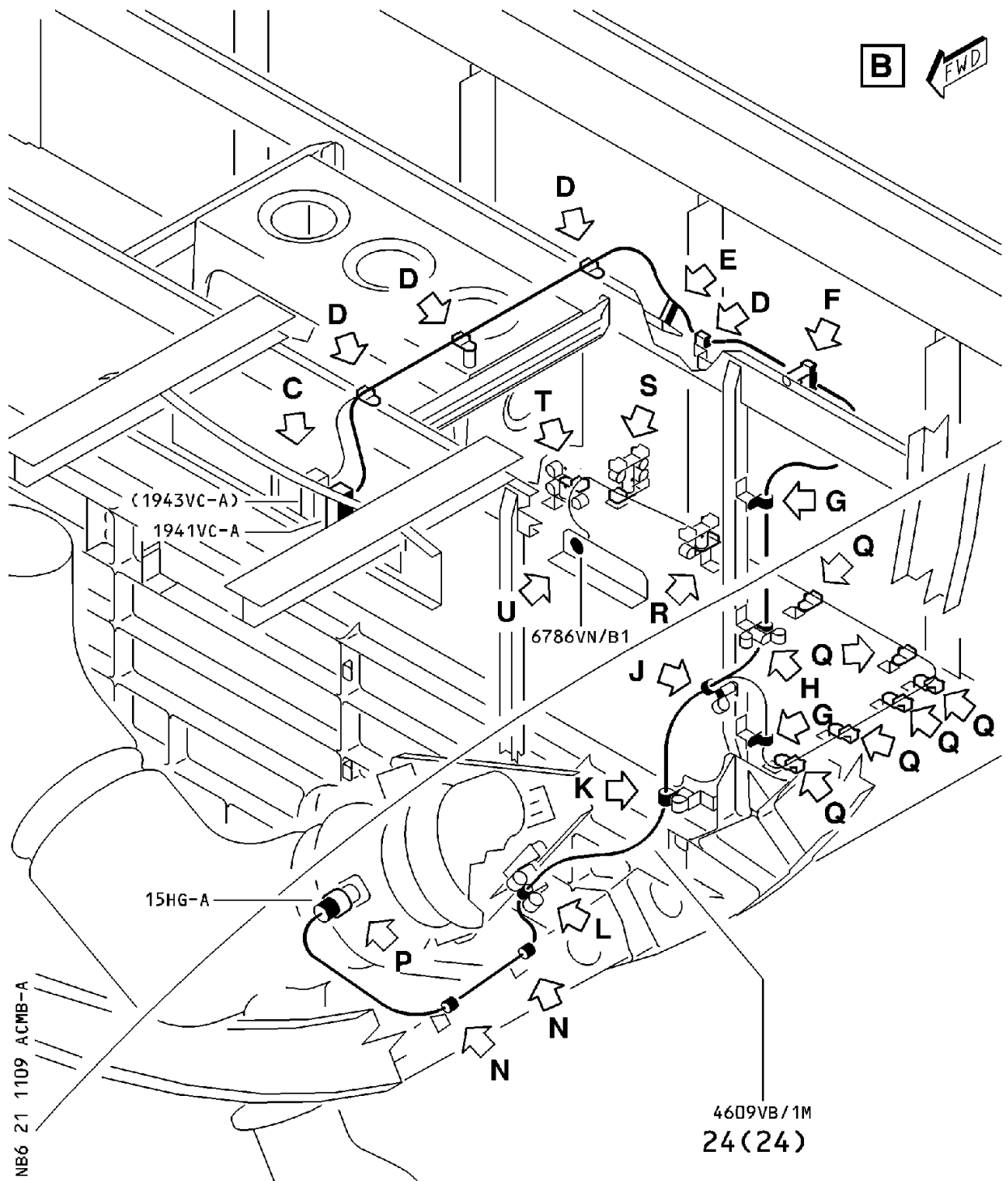


Figure 18 Sheet 2  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

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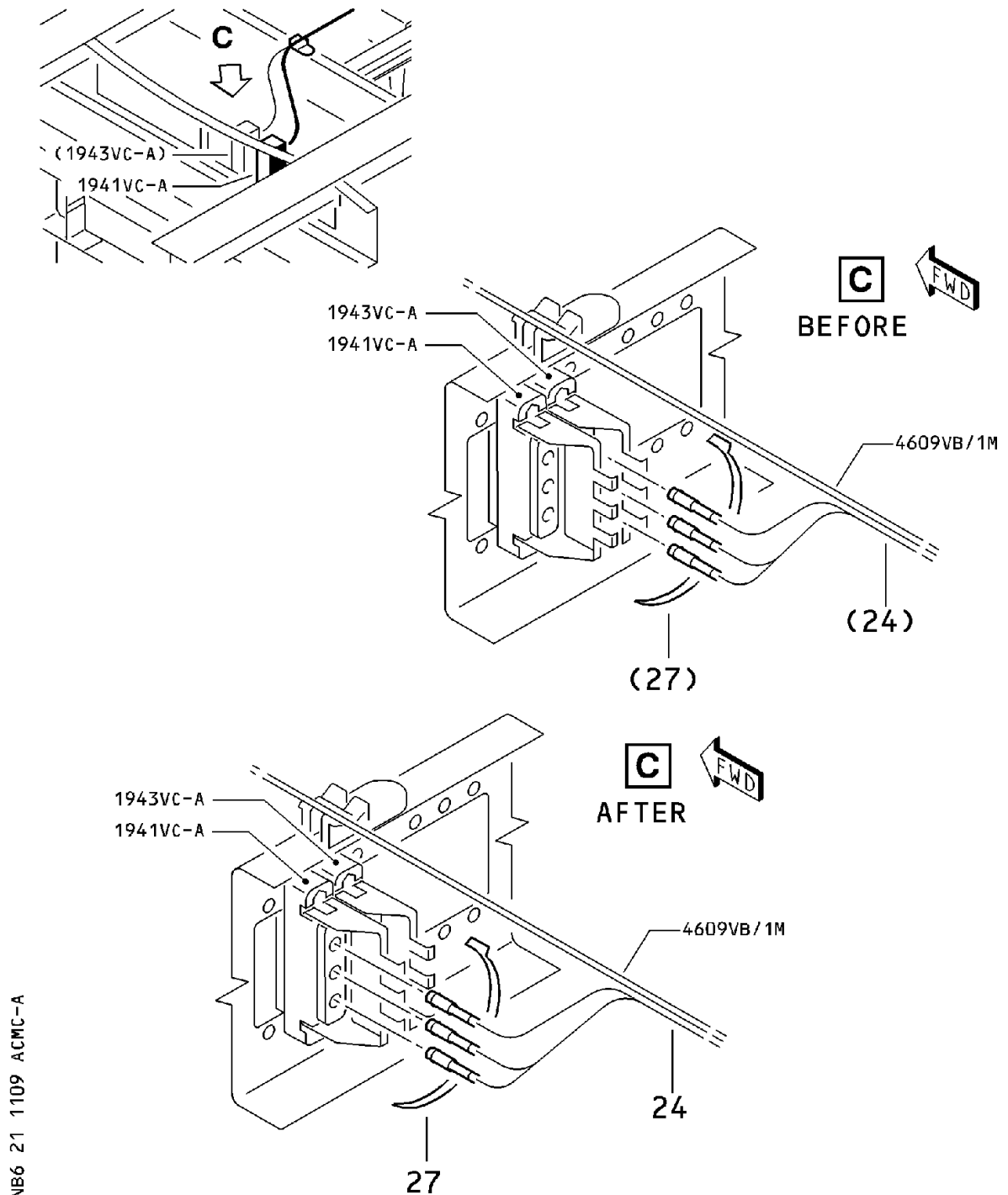


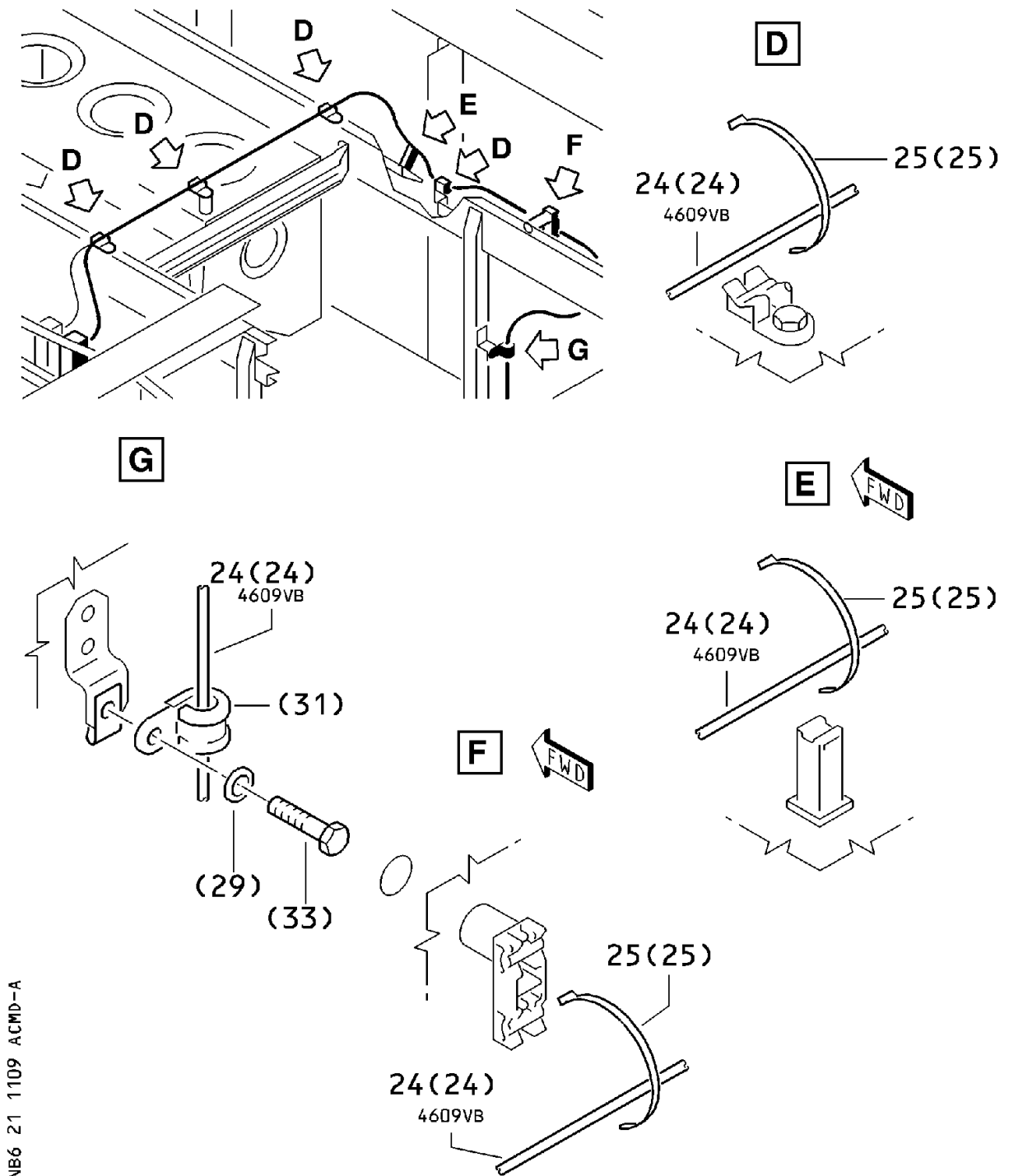
Figure 18 Sheet 3  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

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Figure 18 Sheet 4  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

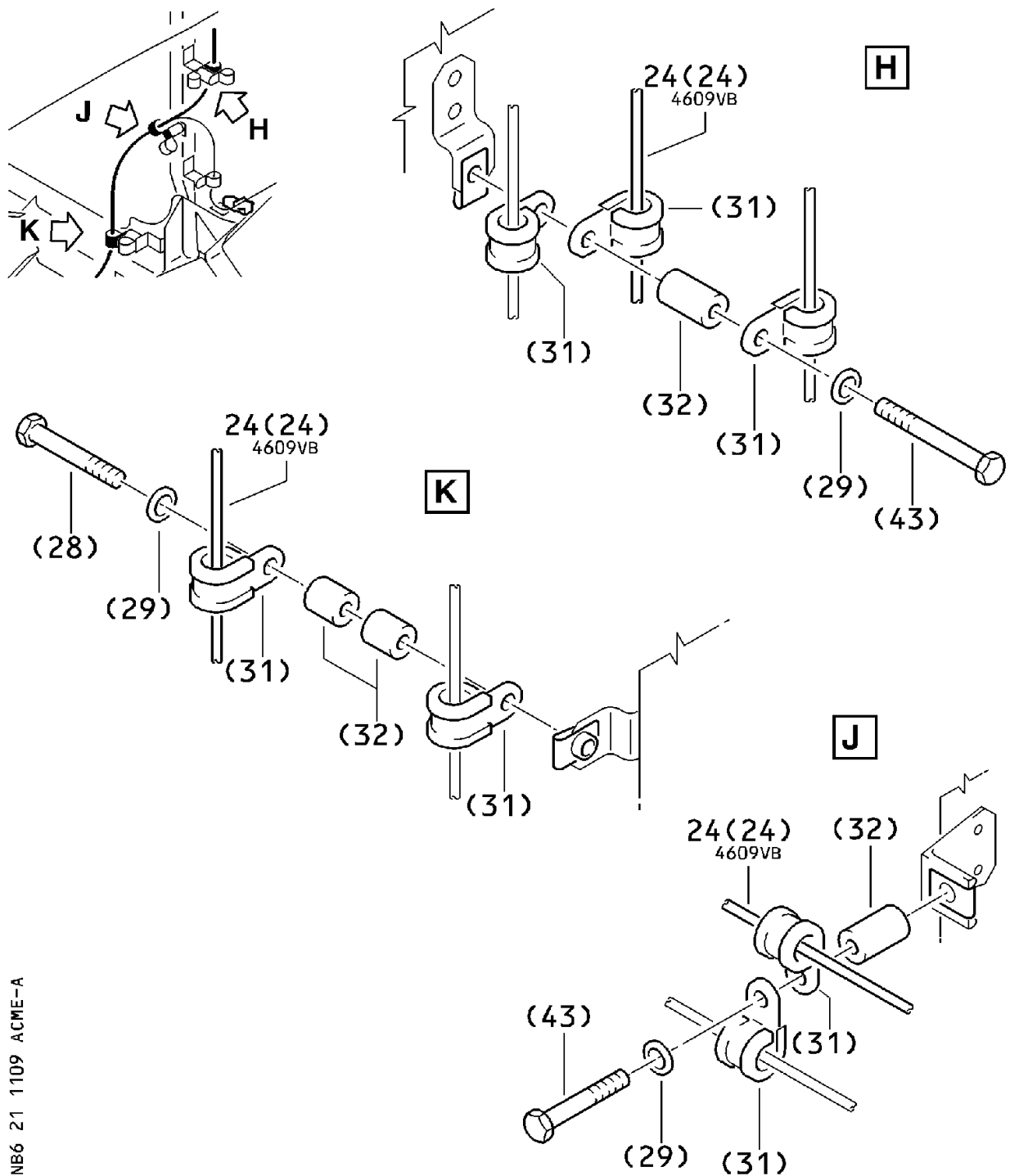
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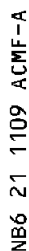
Figure 18 Sheet 5  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

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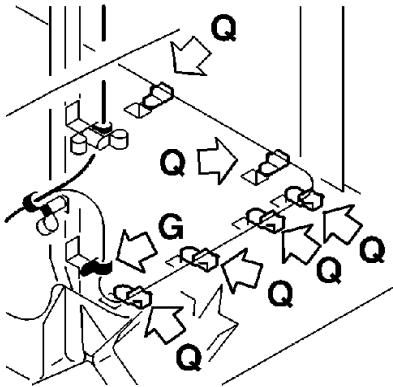
Page : 49



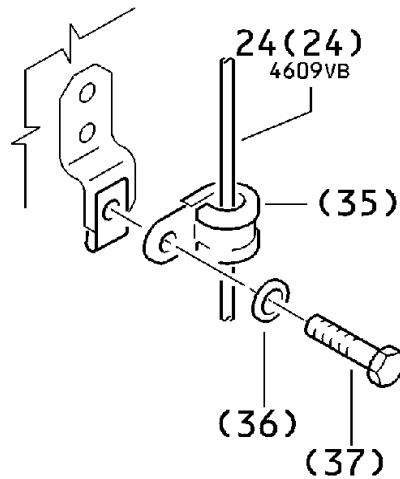
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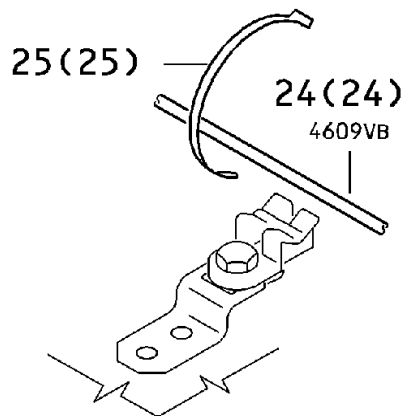
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**G**



**Q**



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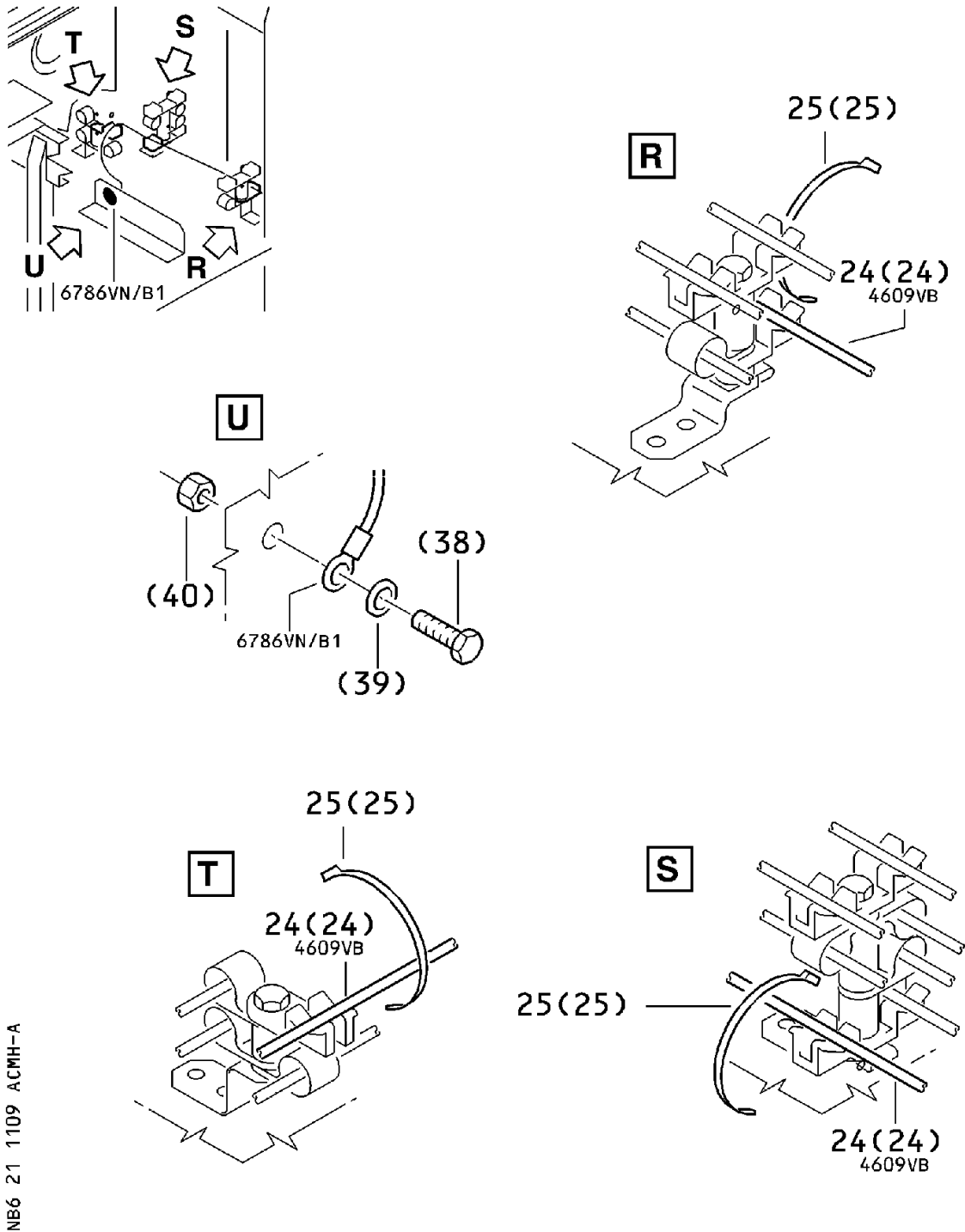
Figure 18 Sheet 7  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

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Figure 18 Sheet 8  
Modification to the Aircraft Wiring for the Recirculation Fan 15HG

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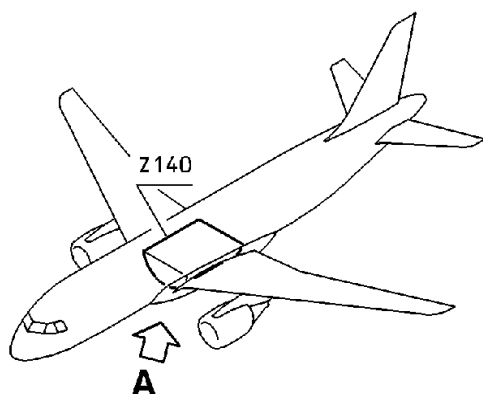
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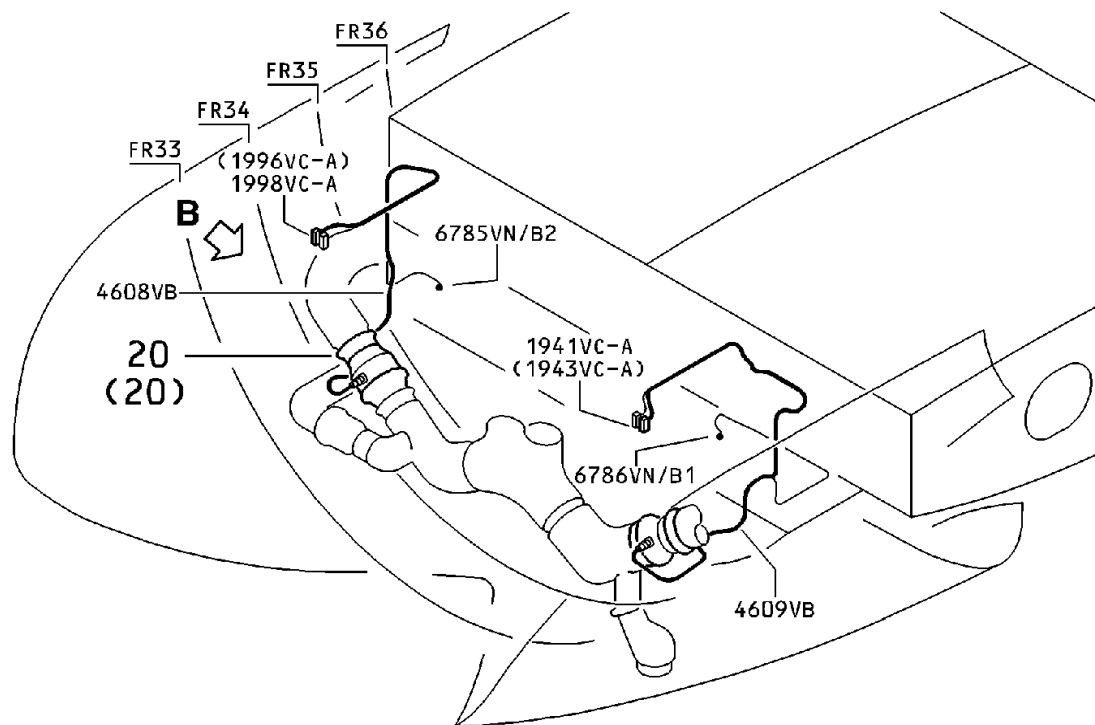


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SERVICE BULLETIN



**A**



NB6 21 1109 AEMA-A

Figure 19 Sheet 1  
Modification of the Aircraft Wiring for the Recirculation Fan 14HG

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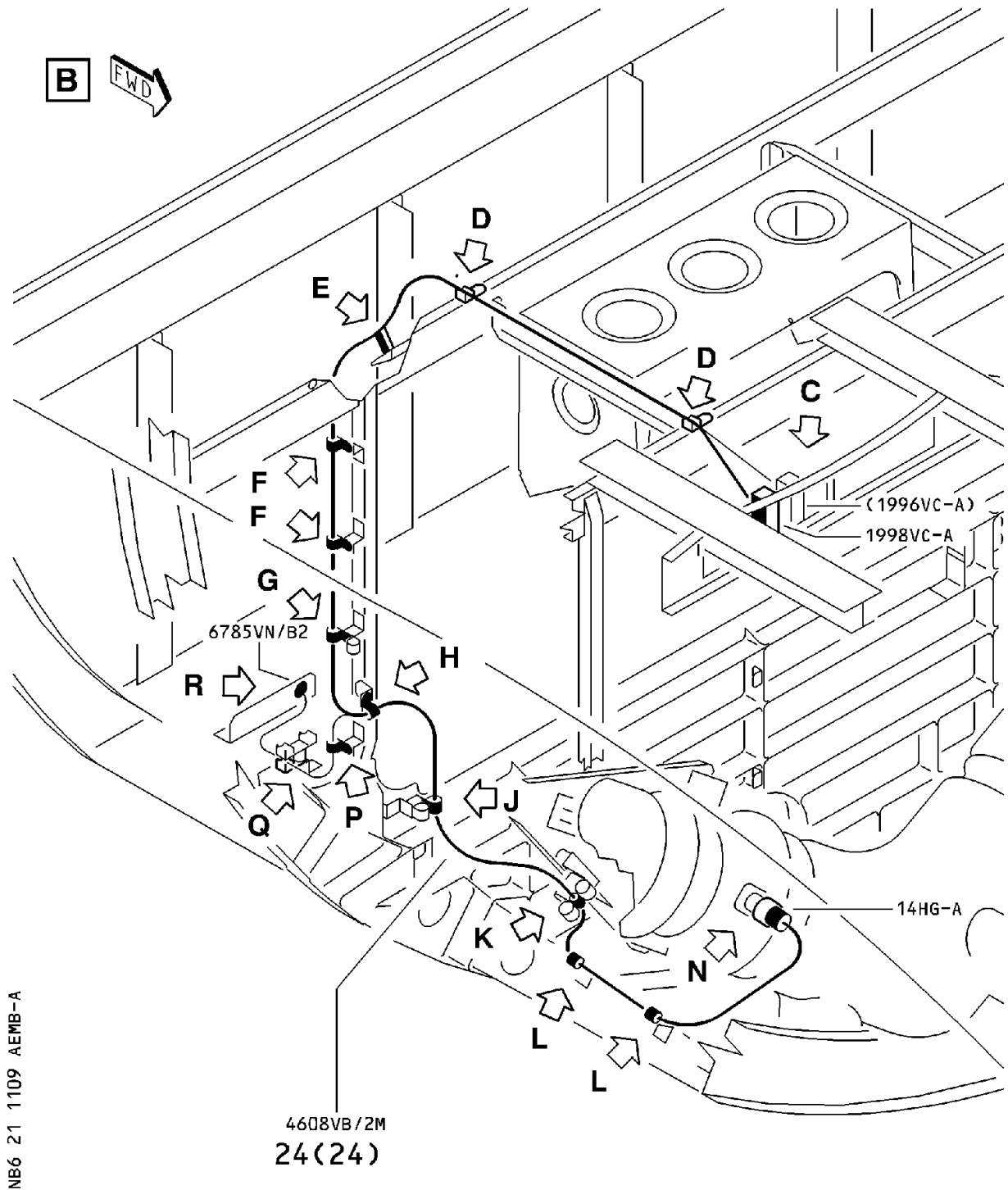


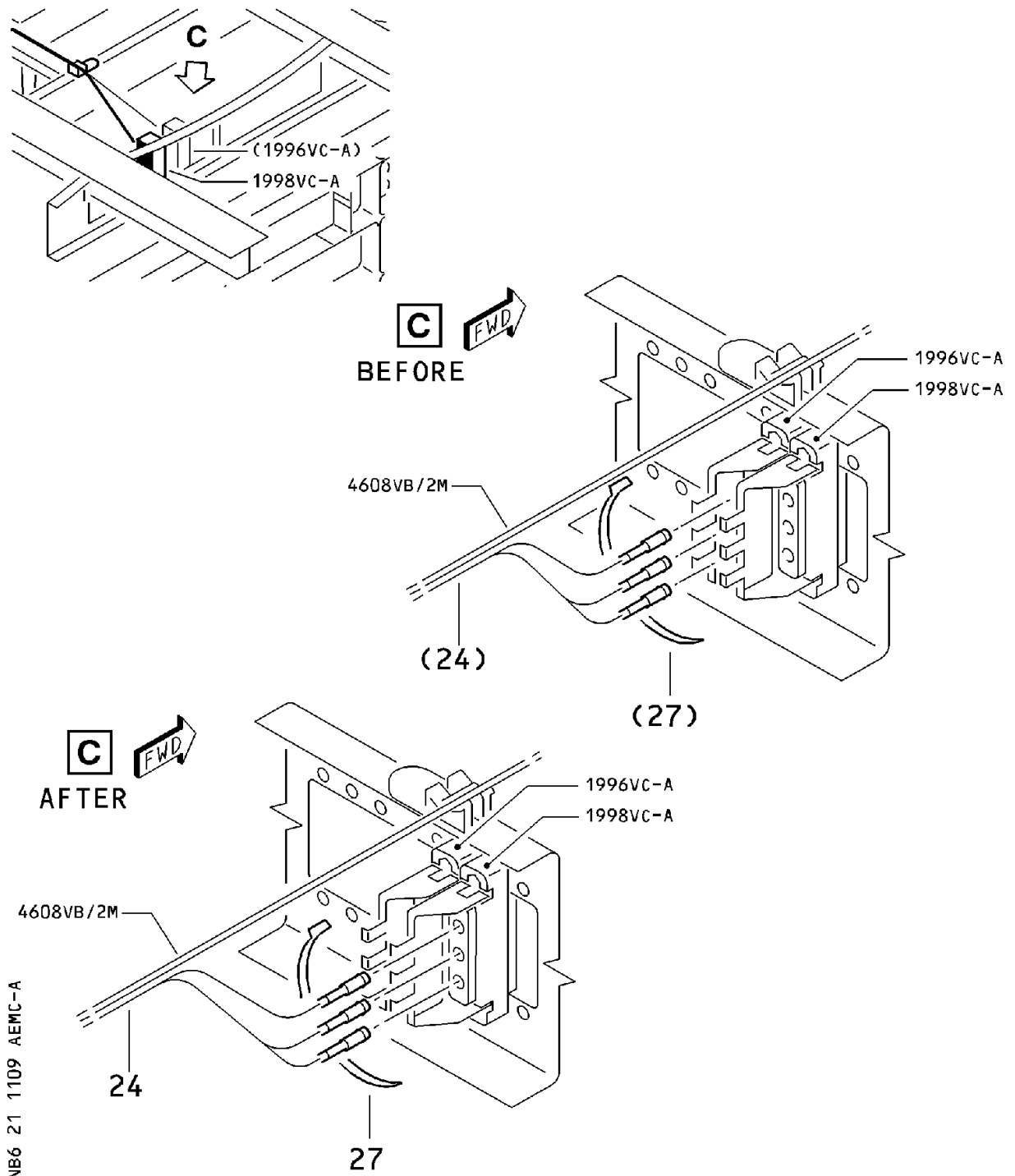
Figure 19 Sheet 2  
Modification of the Aircraft Wiring for the Recirculation Fan 14HG

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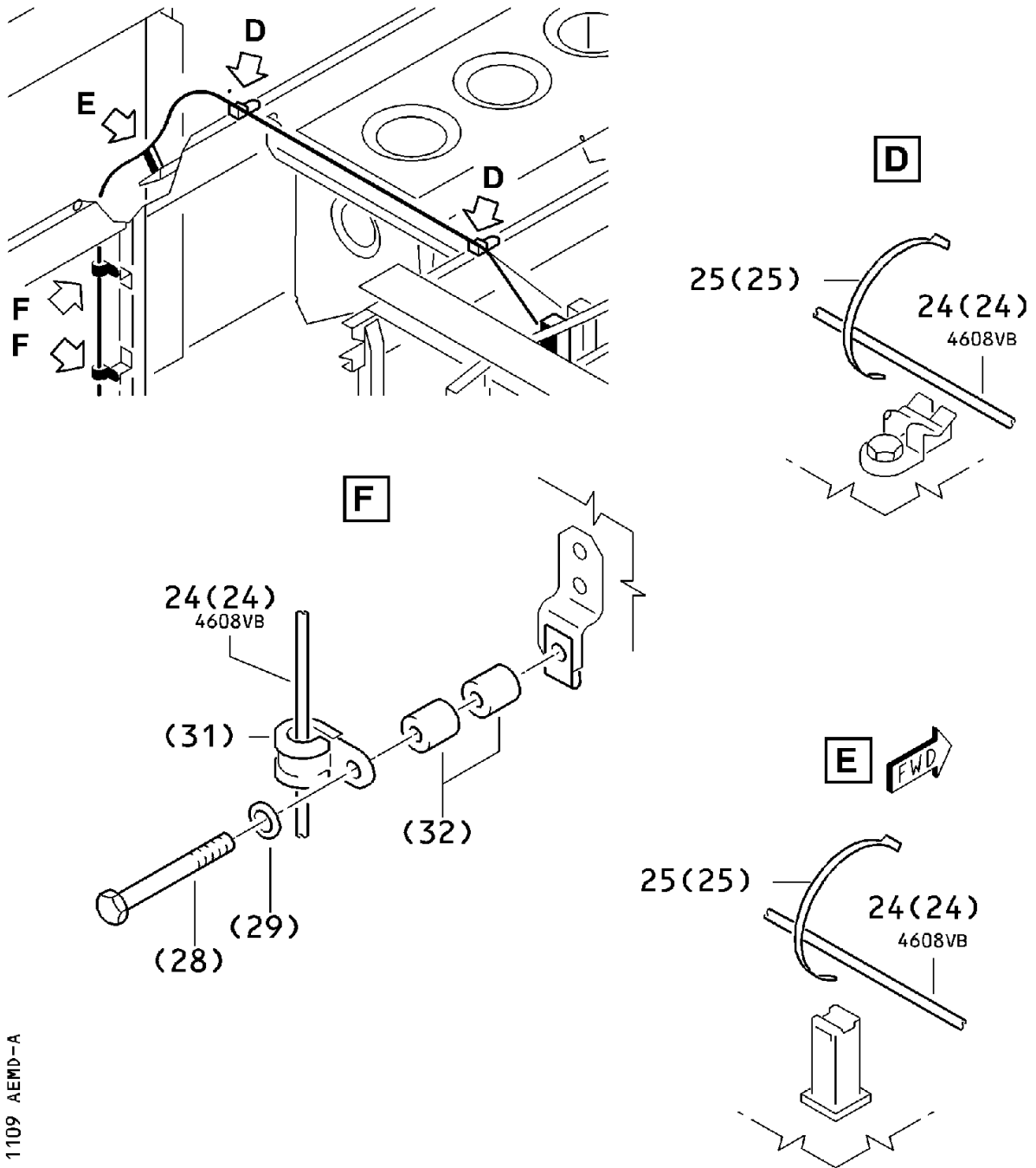


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Figure 19 Sheet 4  
Modification of the Aircraft Wiring for the Recirculation Fan 14HG

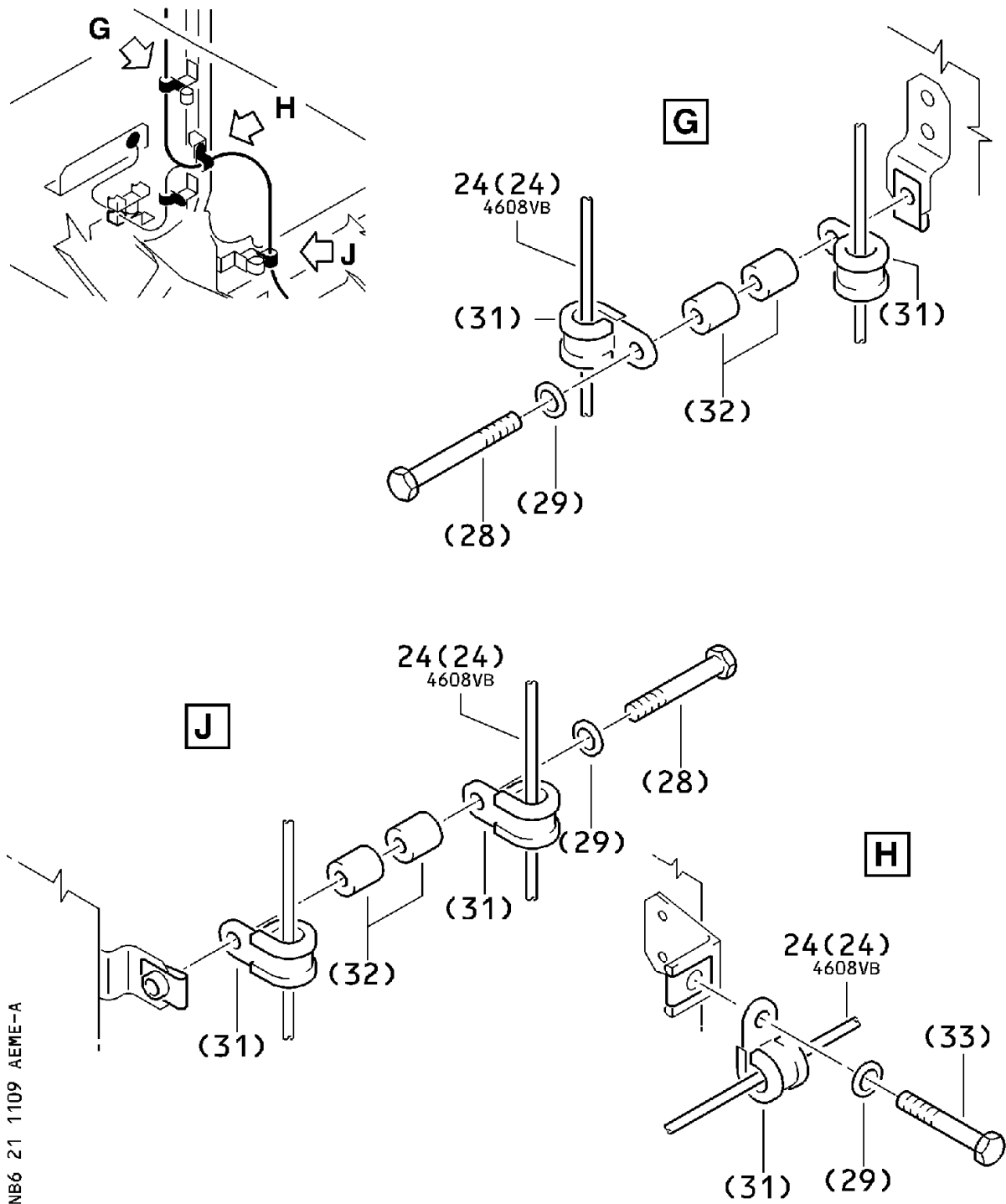
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Figure 19 Sheet 5  
Modification of the Aircraft Wiring for the Recirculation Fan 14HG

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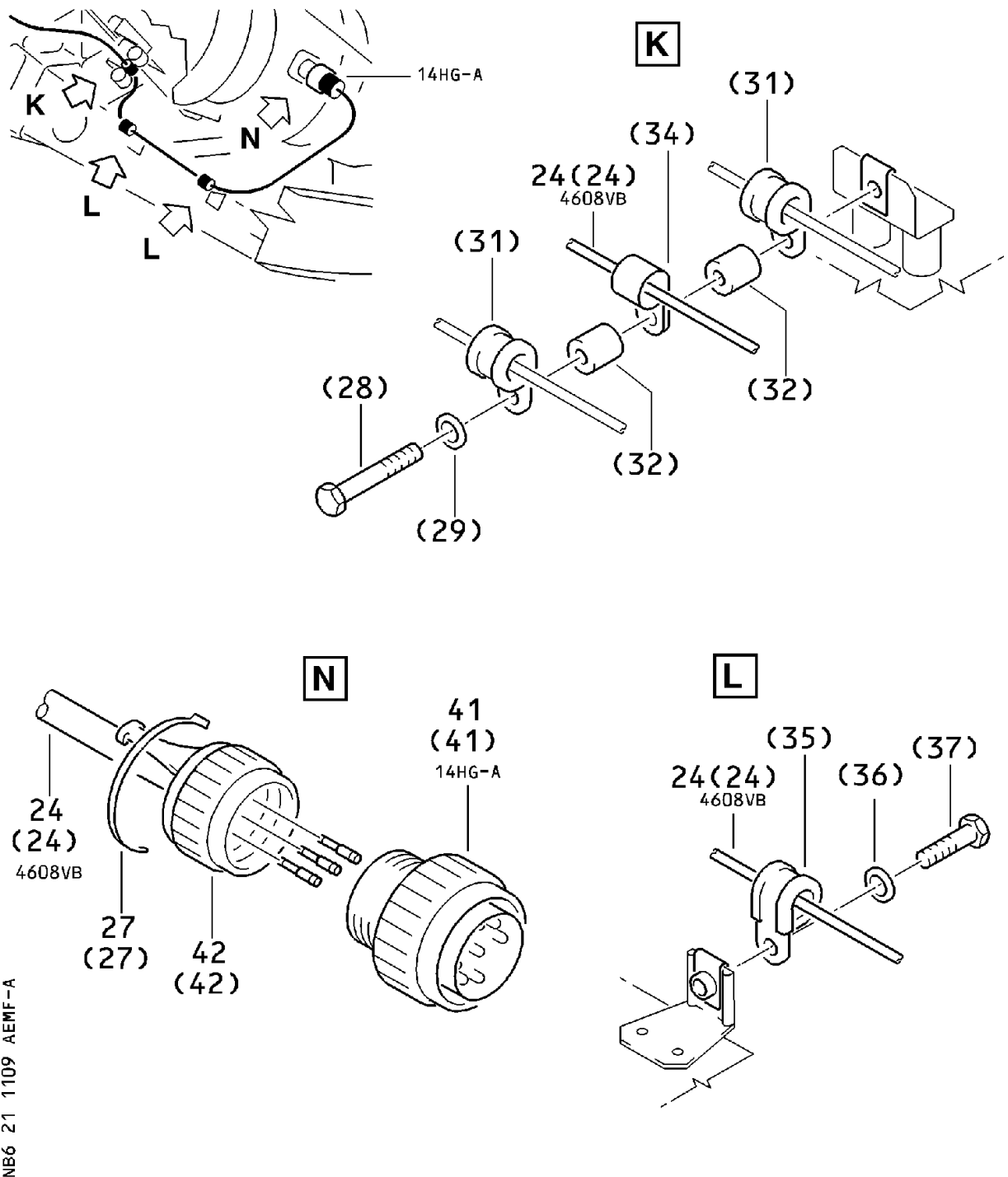


Figure 19 Sheet 6  
Modification of the Aircraft Wiring for the Recirculation Fan 14HG

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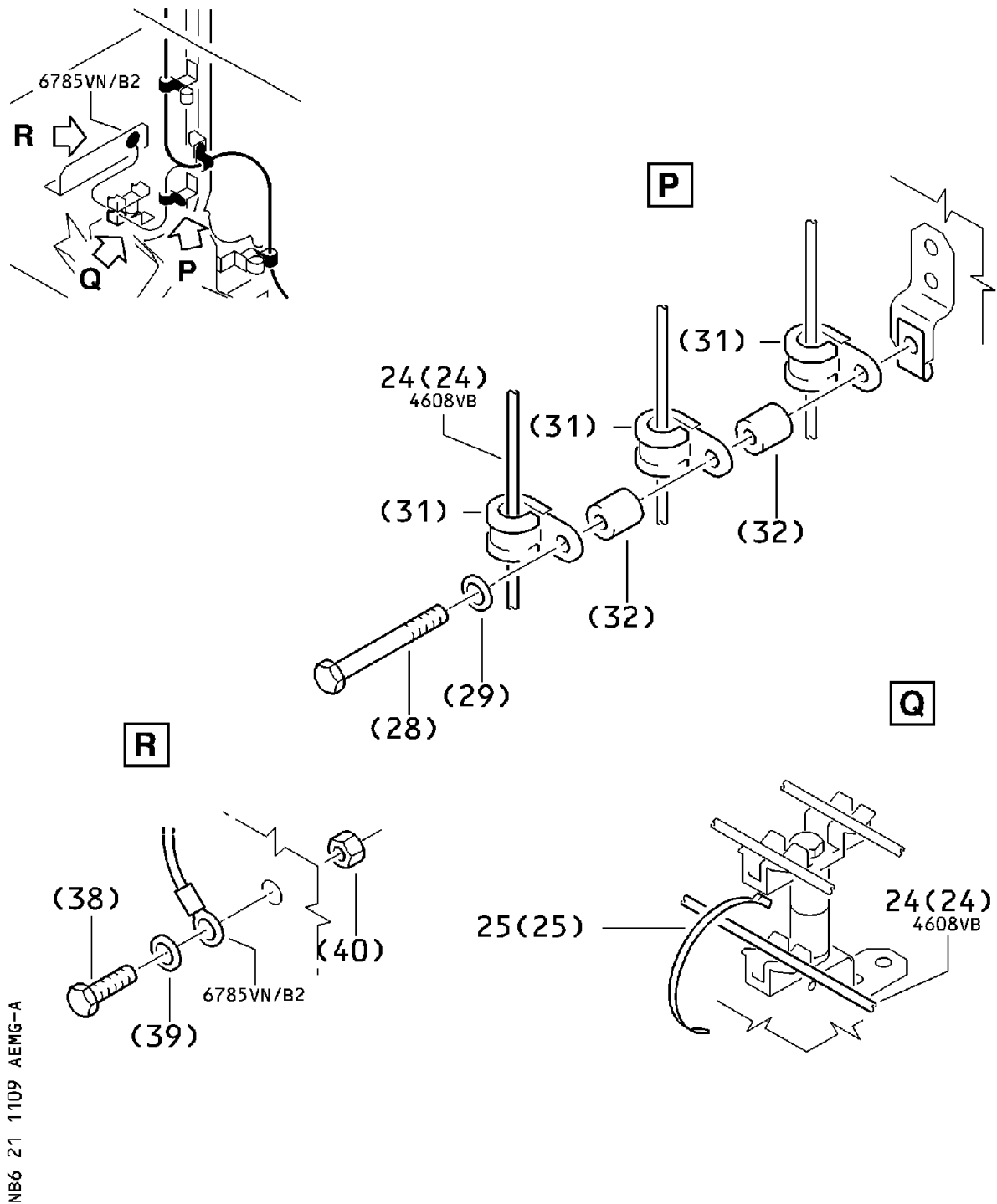


Figure 19 Sheet 7  
Modification of the Aircraft Wiring for the Recirculation Fan 14HG

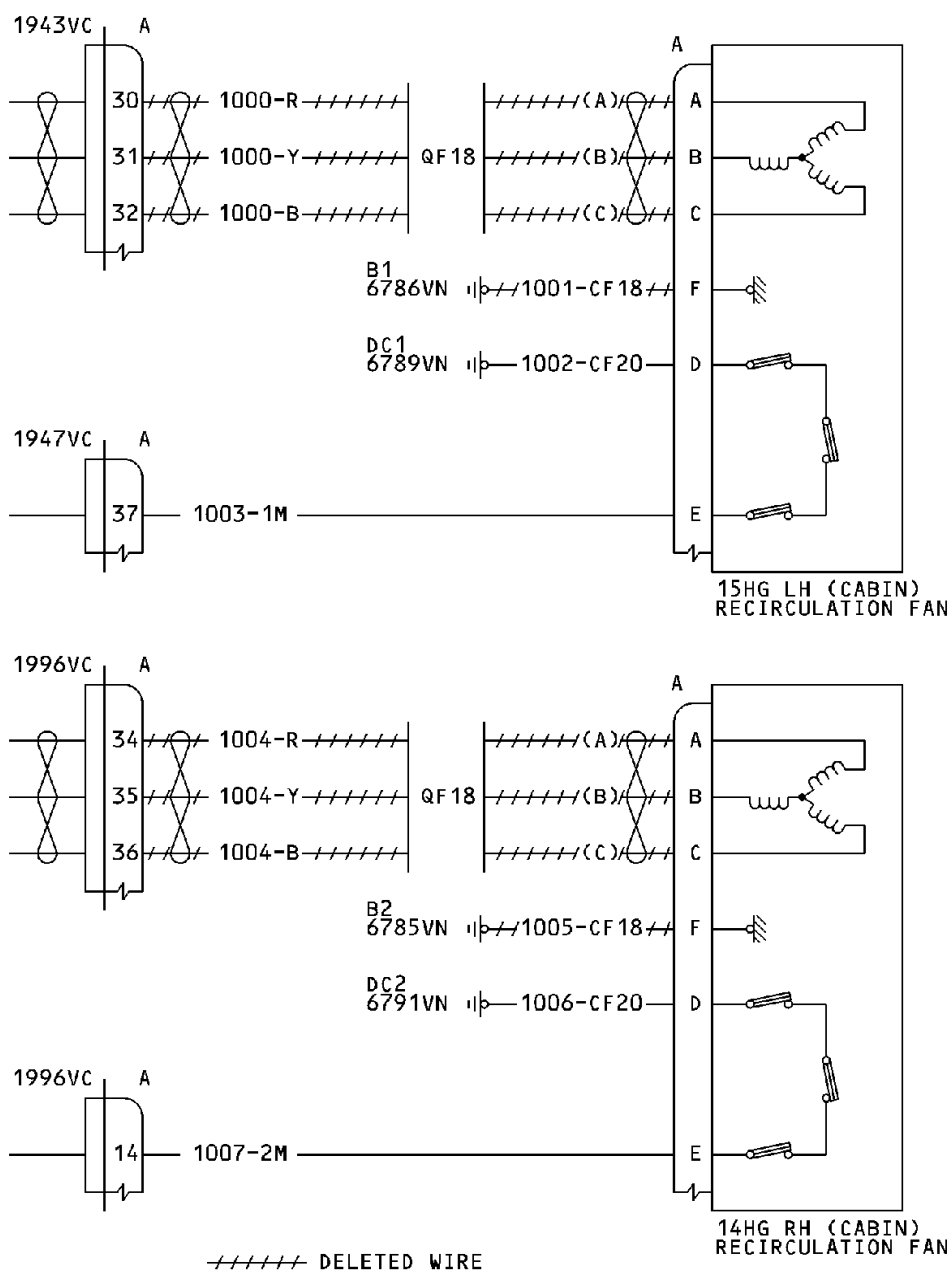
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## BEFORE



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Figure 20 Sheet 1  
Wiring Diagram for the Recirculation Fans 14HG and 15HG between the Interface  
Connectors and the Fan Connectors

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The diagrams show the wiring for two cabin recirculation fans. The top diagram is for the 15HG LH (CABIN) RECIRCULATION FAN, and the bottom diagram is for the 14HG RH (CABIN) RECIRCULATION FAN. Both diagrams include a terminal block with terminals A, M, J, K, L, D, and E. The wiring is as follows:

- 15HG LH (CABIN) RECIRCULATION FAN:**
  - Terminal A is connected to terminal 47 of a 1941VC terminal block.
  - Terminal M is connected to terminal 48 of a 1941VC terminal block.
  - Terminal J is connected to terminal 49 of a 1941VC terminal block.
  - Terminal K is connected to terminal 1000-R of a 1000-R-Y-B terminal block.
  - Terminal L is connected to terminal 1001-CF 16 of a 1001-CF 16 terminal block.
  - Terminal D is connected to terminal 1002-CF 20 of a 1002-CF 20 terminal block.
  - Terminal E is connected to terminal 1003-1M of a 1003-1M terminal block.
- 14HG RH (CABIN) RECIRCULATION FAN:**
  - Terminal A is connected to terminal 47 of a 1947VC terminal block.
  - Terminal M is connected to terminal 48 of a 1947VC terminal block.
  - Terminal J is connected to terminal 49 of a 1947VC terminal block.
  - Terminal K is connected to terminal 1004-R of a 1004-R-Y-B terminal block.
  - Terminal L is connected to terminal 1005-CF 16 of a 1005-CF 16 terminal block.
  - Terminal D is connected to terminal 1006-CF 20 of a 1006-CF 20 terminal block.
  - Terminal E is connected to terminal 1007-2M of a 1007-2M terminal block.

A legend at the bottom indicates that a solid line represents NEW WIRE.

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Figure 20 Sheet 2  
Wiring Diagram for the Recirculation Fans 14HG and 15HG between the Interface  
Connectors and the Fan Connectors

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Figure 21 Sheet 1  
Hook-Up Chart

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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	103VU	1156VT	30E		2121-5003	B	1M	QF18			103VU	5HG-A	C1		D	Fig 4
2	103VU	1156VT	30C		2121-5003	R	1M	QF18			103VU	5HG-A	A1		D	Fig 4
3	103VU	1156VT	30H		2121-5003	Y	1M	QF18			103VU	5HG-A	B1		D	Fig 4
4	103VU	1156VT	30F		2121-5004	B	1M	QF18			103VU	1154VC	31		D	Fig 4
5	103VU	1156VT	30B		2121-5004	R	1M	QF18			103VU	1154VC	21		D	Fig 4
6	103VU	1156VT	30D		2121-5004	Y	1M	QF18			103VU	1154VC	30		D	Fig 4
7	103VU	1156VT	30G		2121-5021		1M	CF20			103VU	10HG-A	X		D	Fig 4
8	103VU	1156VT	20B		2121-5040	R		QF18			103VU	6HG-A	A1		D	Fig 4
9	103VU	1156VT	20D		2121-5040	Y		QF18			103VU	6HG-A	B1		D	Fig 4
10	103VU	1156VT	20E		2121-5040	B		QF18			103VU	6HG-A	C1		D	Fig 4
11	103VU	1156VT	20F		2121-5041	B		QF18			103VU	1176VC	6		D	Fig 4
12	103VU	1156VT	20C		2121-5041	R		QF18			103VU	1176VC	4		D	Fig 4
13	103VU	1156VT	20H		2121-5041	Y		QF18			103VU	1176VC	5		D	Fig 4
14	103VU	1156VT	20G		2121-5043			CF20			103VU	9HG-A	X		D	Fig 4
15	103VU	5HG-A	C2		2121-5002	B	1M	QF18			103VU	1172VC	38		D	Fig 4
16	103VU	5HG-A	A2		2121-5002	R	1M	QF18			103VU	1172VC	36		D	Fig 4
17	103VU	5HG-A	B2		2121-5002	Y	1M	QF18			103VU	1172VC	37		D	Fig 4
18	103VU	6HG-A	C2		2121-5031	B		QF18			103VU	1176VC	3		D	Fig 4
19	103VU	6HG-A	A2		2121-5031	R		QF18			103VU	1176VC	1		D	Fig 4
20	103VU	6HG-A	B2		2121-5031	Y		QF18			103VU	1176VC	2		D	Fig 4
21	103VU	9HG-A	Z		2121-5035			CF20			103VU	102VG	/		D	Fig 4
22	103VU	10HG-A	Z		2121-5018		1M	CF20			103VU	100VG	/		D	Fig 4
23																
24																
25																
D = DELETED WIRE																

Figure 12 Sheet 1  
Hook-up Chart



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	120VU	2222VC	6		2121-5000	B	1M	QF18			122VU	1HG	C2		D	Fig 5, sh1
2	120VU	2222VC	4		2121-5000	R	1M	QF18			122VU	1HG	A2		D	Fig 5, sh1
3	120VU	2222VC	5		2121-5000	Y	1M	QF18			122VU	1HG	B2		D	Fig 5, sh1
4																
5																
6																
7	122VU	1HG	A1		2458-0062			CF10			122VU	17XN1	1		M1O	Fig 5, sh1
8	122VU	17XN1	1		2458-0062			CF10			122VU	1HG	A1	NSA936501TA1003	(b) M2N	Fig 5, sh2
9	122VU	1HG	A1		2458-0063			CF10			122VU	1DR	1		M1O	Fig 5, sh1
10	122VU	1DR	1		2458-0063			CF10			122VU	1HG	A1	NSA936501TA1003	(b) M2N	Fig 5, sh2
11	122VU	1HG	B1		2458-0066			CF10			122VU	1LV	B1		M1O	Fig 5, sh1
12	122VU	1LV	B1		2458-0066			CF10			122VU	1HG	B1	NSA936501TA1003	(b) M2N	Fig 5, sh2
13	122VU	1HG	B1		2458-0067			CF10			122VU	4DG1	1		M1O	Fig 5, sh1
14	122VU	4DG1	1		2458-0067			CF10			122VU	1HG	B1	NSA936501TA1003	(b) M2N	Fig 5, sh2
15	122VU	1HG	C1		2458-0069			CF10			122VU	1LV	C1		M1O	Fig 5, sh1
16	122VU	1LV	C1		2458-0069			CF10			122VU	1HG	C1	NSA936501TA1003	(b) M2N	Fig 5, sh2
17	122VU	1HG	C1		2458-0070			CF10			122VU	2HH	1		M1O	Fig 5, sh1
18	122VU	2HH	1		2458-0070			CF10			122VU	1HG	C1	NSA936501TA1003	(b) M2N	Fig 5, sh2
19																
20																
21																
22	120VU	2234VC	42	EN3155-003F1614	2121-5000	B	1M	QG16	4500	180	122VU	1HG	C2	NSA936501TA1603	(a) A	Fig 5, sh2
23	120VU	2234VC	40	EN3155-003F1614	2121-5000	R	1M	QG16	4500	180	122VU	1HG	A2	NSA936501TA1603	(a) A	Fig 5, sh2
24	120VU	2234VC	41	EN3155-003F1614	2121-5000	Y	1M	QG16	4500	180	122VU	1HG	B2	NSA936501TA1603	(a) A	Fig 5, sh2
25																
(a) = BUNDLE D9000095209395      A = ADDED WIRE      D = DELETED WIRE																
(b) = TERMINAL SUPPLIED IN BUNDLE D9000095209395      M1O = OLD HOOK-UP ON END 1      M2N = NEW HOOK-UP ON END 2																

Figure 13 Sheet 1  
Hook-up Chart

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	103VU	1172VC-A	38		2121-5001	B	1M	QF18			120VU	2222VC-A	6		D	Fig 6
2	103VU	1172VC-A	36		2121-5001	R	1M	QF18			120VU	2222VC-A	4		D	Fig 6
3	103VU	1172VC-A	37		2121-5001	Y	1M	QF18			120VU	2222VC-A	5		D	Fig 6
4	103VU	1176VC-A	3		2121-5029	B	2M	QF18			120VU	2226VC-A	1		D	Fig 6
5	103VU	1176VC-A	1		2121-5029	R	2M	QF18			120VU	2226VC-A	3		D	Fig 6
6	103VU	1176VC-A	2		2121-5029	Y	2M	QF18			120VU	2226VC-A	2		D	Fig 6
7																
8																
9																
10	103VU	1140VC-A	42	EN3155-003F1614	2121-5057	B	1M	QF16	3000	120	120VU	2234VC-A	42	EN3155-008M1614	(a) A	Fig 10
11	103VU	1140VC-A	40	EN3155-003F1614	2121-5057	R	1M	QF16	3000	120	120VU	2234VC-A	40	EN3155-008M1614	(a) A	Fig 10
12	103VU	1140VC-A	41	EN3155-003F1614	2121-5057	Y	1M	QF16	3000	120	120VU	2234VC-A	41	EN3155-008M1614	(a) A	Fig 10
13	103VU	1158VC-A	40	EN3155-003F1614	2121-5054	B	2M	QF16	3000	120	120VU	2224VC-A	47	EN3155-008M1614	(a) A	Fig 10
14	103VU	1158VC-A	42	EN3155-003F1614	2121-5054	R	2M	QF16	3000	120	120VU	2224VC-A	45	EN3155-008M1614	(a) A	Fig 10
15	103VU	1158VC-A	41	EN3155-003F1614	2121-5054	Y	2M	QF16	3000	120	120VU	2224VC-A	46	EN3155-008M1614	(a) A	Fig 10
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
(a) = BUNDLE D9000095209395																
A = ADDED WIRE																
D = DELETED WIRE																

Figure 14 Sheet 1  
Hook-up Chart

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	103VU	1156VT	30F	EN3155-016M1616	2121-5003	B	1M	QG16	3000	120	103VU	5HG-A	C1	EN3155-017F1216	(a) A	Fig 8
2	103VU	1156VT	30C	EN3155-016M1616	2121-5003	R		QG16	3000	120	103VU	5HG-A	A1	EN3155-017F1216	(a) A	Fig 8
3	103VU	1156VT	30H	EN3155-016M1616	2121-5003	Y	1M	QG16	3000	120	103VU	5HG-A	B1	EN3155-017F1216	(a) A	Fig 8
4	103VU	1156VT	30G	EN3155-016M1616	2121-5021		1M	DK18	2500	100	103VU	10HG-A	X	E0252DK2002	(a) A	Fig 8
5	103VU	1156VT	20E	EN3155-016M1616	2121-5040	B		QG16	3000	120	103VU	6HG-A	C1	EN3155-017F1216	(a) A	Fig 8
6	103VU	1156VT	20B	EN3155-016M1616	2121-5040	R		QG16	3000	120	103VU	6HG-A	A1	EN3155-017F1216	(a) A	Fig 8
7	103VU	1156VT	20D	EN3155-016M1616	2121-5040	Y		QG16	3000	120	103VU	6HG-A	B1	EN3155-017F1216	(a) A	Fig 8
8	103VU	1156VT	20G	EN3155-016M1616	2121-5043			DK18	2500	100	103VU	9HG-A	X	E0252DK2002	(a) A	Fig 8
9	103VU	1156VT	20F	EN3155-016M1616	2121-5056	B		QG16	1500	60	103VU	1158VC	45	EN3155-008M1614	(a) A	Fig 8
10	103VU	1156VT	20C	EN3155-016M1616	2121-5056	R		QG16	1500	60	103VU	1158VC	43	EN3155-008M1614	(a) A	Fig 8
11	103VU	1156VT	20H	EN3155-016M1616	2121-5056	Y		QG16	1500	60	103VU	1158VC	44	EN3155-008M1614	(a) A	Fig 8
12	103VU	1156VT	30E	EN3155-016M1616	2121-5058	B	1M	QG16	1500	60	103VU	1140VC	45	EN3155-008M1614	(a) A	Fig 8
13	103VU	1156VT	30B	EN3155-016M1616	2121-5058	R	1M	QG16	1500	60	103VU	1140VC	43	EN3155-008M1614	(a) A	Fig 8
14	103VU	1156VT	30D	EN3155-016M1616	2121-5058	Y	1M	QG16	1500	60	103VU	1140VC	44	EN3155-008M1614	(a) A	Fig 8
15	103VU	5HG-A	C2	EN3155-017F1216	2121-5002	B	1M	QG16	3000	120	103VU	1140VC	42	EN3155-008M1614	(a) A	Fig 8
16	103VU	5HG-A	A2	EN3155-017F1216	2121-5002	R	1M	QG16	3000	120	103VU	1140VC	40	EN3155-008M1614	(a) A	Fig 8
17	103VU	5HG-A	B2	EN3155-017F1216	2121-5002	Y	1M	QG16	3000	120	103VU	1140VC	41	EN3155-008M1614	(a) A	Fig 8
18	103VU	6HG-A	C2	EN3155-017F1216	2121-5031	B		QG16			103VU	1158VC	40	EN3155-008M1614	(a) A	Fig 8
19	103VU	6HG-A	A2	EN3155-017F1216	2121-5031	R		QG16	3000	120	103VU	1158VC	42	EN3155-008M1614	(a) A	Fig 8
20	103VU	6HG-A	B2	EN3155-017F1216	2121-5031	Y		QG16	3000	120	103VU	1158VC	41	EN3155-008M1614	(a) A	Fig 8
21	103VU	9HG-A	Z	E0252DK2002	2121-5035			DK18	2500	100	103VU	102VG	/	EN3155-015F2018	(a) A	Fig 8
22	103VU	10HG-A	Z	E0252DK2002	2121-5018		1M	DK18	3000	120	103VU	100VG	/	EN3155-015F2018	(a) A	Fig 8
23																
24																
25																
(a) = BUNDLE D9000095209395																
A = ADDED WIRE																

 Figure 15 Sheet 1  
 Hook-up Chart

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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	120VU	2226VC	1		2121-5024	B	2M	QG18			122VU	3HG	C2		D	Fig 9, sh1
2	120VU	2226VC	3		2121-5024	R	2M	QG18			122VU	3HG	A2		D	Fig 9, sh1
3	120VU	2226VC	2		2121-5024	Y	2M	QG18			122VU	3HG	B2		D	Fig 9, sh1
4																
5																
6																
7	122VU	3HG	A1		2458-0101			DK10			122VU	21HH	1		M1O	Fig 9, sh1
8	122VU	21HH	1		2458-0101			DK10			122VU	3HG	A1	NSA936501TA1003	(b) M2N	Fig 9, sh2
9	122VU	3HG	A1		2458-0102			DK10			122VU	27LP	1		M1O	Fig 9, sh1
10	122VU	27LP	1		2458-0102		2P	DK10			122VU	3HG	A1	NSA936501TA1003	(b) M2N	Fig 9, sh2
11	122VU	3HG	C1		2458-0106			DK10			122VU	3XX	1		M1O	Fig 9, sh1
12	122VU	3XX	1		2458-0106		2P	DK10			122VU	3HG	C1	NSA936501TA1003	(b) M2N	Fig 9, sh2
13	122VU	3HG	C1		2458-0107			DK10			122VU	4DG2	1		M1O	Fig 9, sh1
14	122VU	4DG2	1		2458-0107			DK10			122VU	3HG	C1	NSA936501TA1003	(b) M2N	Fig 9, sh2
15	122VU	3HG	B1		2458-0112			DK10			122VU	10LV	B1		M1O	Fig 9, sh1
16	122VU	10LV	B1		2458-0112		2P	DK10			122VU	3HG	B1	NSA936501TA1003	(b) M2N	Fig 9, sh2
17	122VU	3HG	B1		2458-0113			DK10			122VU	4DA2	1		M1O	Fig 9, sh1
18	122VU	4DA2	1		2458-0113		2P	DK10			122VU	3HG	B1	NSA936501TA1003	(b) M2N	Fig 9, sh2
19																
20																
21																
22	120VU	2224VC	47	EN3155-003F1614	2121-5024	B	2M	QG16	4500	180	122VU	3HG	C2	NSA936501TA1603	(a) A	Fig 9, sh2
23	120VU	2224VC	45	EN3155-003F1614	2121-5024	R	2M	QG16	4500	180	122VU	3HG	A2	NSA936501TA1603	(a) A	Fig 9, sh2
24	120VU	2224VC	46	EN3155-003F1614	2121-5024	Y	2M	QG16	4500	180	122VU	3HG	B2	NSA936501TA1603	(a) A	Fig 9, sh2
25																
(a) = BUNDLE D9000095209395      A = ADDED WIRE      D = DELETED WIRE																
(b) = TERMINAL SUPPLIED IN BUNDLE D9000095209395      M1O = OLD HOOK-UP ON END 1																

Figure 16 Sheet 1  
Hook-up Chart

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	103VU	1154VC-A	31		2121-5005	B	1M	QF18			131	1943VC	32		D	Fig 7
2	103VU	1154VC-A	21		2121-5005	R	1M	QF18			131	1943VC	30		D	Fig 7
3	103VU	1154VC-A	30		2121-5005	Y	1M	QF18			131	1943VC	31		D	Fig 7
4	103VU	1176VC-A	6		2121-5042	B	2M	QF18			132	1996VC	36		D	Fig 7
5	103VU	1176VC-A	4		2121-5042	R	2M	QF18			132	1996VC	34		D	Fig 7
6	103VU	1176VC-A	5		2121-5042	Y	2M	QF18			132	1996VC	35		D	Fig 7
7																
8																
9																
10	103VU	1140VC-A	45	EN3155-003F1614	2121-5059	B	1M	QF16	18000	720	131	1941VC	49	EN3155-003F1614	(a) A	Fig 11
11	103VU	1140VC-A	43	EN3155-003F1614	2121-5059	R	1M	QF16	18000	720	131	1941VC	47	EN3155-003F1614	(a) A	Fig 11
12	103VU	1140VC-A	44	EN3155-003F1614	2121-5059	Y	1M	QF16	18000	720	131	1941VC	48	EN3155-003F1614	(a) A	Fig 11
13	103VU	1158VC-A	45	EN3155-003F1614	2121-5055	B	2M	QF16	16000	640	132	1998VC	49	EN3155-003F1614	(a) A	Fig 11
14	103VU	1158VC-A	43	EN3155-003F1614	2121-5055	R	2M	QF16	16000	640	132	1998VC	47	EN3155-003F1614	(a) A	Fig 11
15	103VU	1158VC-A	44	EN3155-003F1614	2121-5055	Y	2M	QF16	16000	640	132	1998VC	48	EN3155-003F1614	(a) A	Fig 11
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
(a) = BUNDLE D9000095209395																
A = ADDED WIRE																
D = DELETED WIRE																

Figure 17 Sheet 1  
Hook-up Chart















LINE	END 1				LEAD						END 2				INSTRUCTIONS
	ZONE OR PANEL	ELEC. IDENT.	TERM.	TERMINAL P/N	WIRE IDENT	COL	ROUTE	GAUGE	LENGTH		ZONE OR PANEL	ELEC. IDENT	TERM.	TERMINAL P/N	
									MM	INCH					
1	131	1943VC-A	30	E0395FV2001	2121-1000	R	1M	QF 18			137	15HG-A	A	NSA938152SA2000	D 
2	131	1943VC-A	31	E0395FV2001	2121-1000	Y	1M	QF 18	-	-	137	15HG-A	B	NSA938152SA2000	D 
3	131	1943VC-A	32	E0395FV2001	2121-1000	B	1M	QF 18	-	-	137	15HG-A	C	NSA938152SA2000	D 
4	131	1941VC-A	47	E0395FV1601	2121-1000	R	1M	QF 16	3600	141	137	15HG-A	M	NSA938152SA1600	A 
5	131	1941VC-A	48	E0395FV1601	2121-1000	Y	1M	QF 16	-	-	137	15HG-A	J	NSA938152SA1600	A 
6	131	1941VC-A	49	E0395FV1601	2121-1000	B	1M	QF 16	-	-	137	15HG-A	K	NSA938152SA1600	A 
7	191	6786VN	B1	NSA936501TA1604	2121-1001		1M	CF 18			137	15HG-A	F	NSA938152SA2000	D
8	191	6786VN	B1	NSA936501TA1604	2121-1001		1M	CF 16	2900	114	137	15HG-A	L	NSA938152SA1600	A 
9	191	6789VN	DC1	NSA936501TA2004	2121-1002		1M	CF20	2800	110	137	15HG-A	D	NSA938152SA2000	E
10	131	1947VC-A	37	E0395FV2200	2121-1003		1M	CF24	3490	137	137	15HG-A	E	NSA938152SA2000	E
12	132	1996VC-A	34	E0395FV2001	2121-1004	R	2M	QF 18			138	14HG-A	A	NSA938152SA2000	D 
13	132	1996VC-A	35	E0395FV2001	2121-1004	Y	2M	QF 18	-	-	138	14HG-A	B	NSA938152SA2000	D 
14	132	1996VC-A	36	E0395FV2001	2121-1004	B	2M	QF 18	-	-	138	14HG-A	C	NSA938152SA2000	D 
15	132	1998VC-A	47	E0395FV1601	2121-1004	R	2M	QF 16	3600	141	138	14HG-A	M	NSA938152SA1600	A 
16	132	1998VC-A	48	E0395FV1601	2121-1004	Y	2M	QF 16	-	-	138	14HG-A	J	NSA938152SA1600	A 
17	132	1998VC-A	49	E0395FV1601	2121-1004	B	2M	QF 16	-	-	138	14HG-A	K	NSA938152SA1600	A 
18	192	6785VN	B2	NSA936501TA1604	2121-1005		2M	CF 18			138	14HG-A	F	NSA938152SA2000	D
19	192	6785VN	B2	NSA936501TA1604	2121-1005		2M	CF 16	1900	75	138	14HG-A	L	NSA938152SA1600	A 
20	192	6791VN	DC2	NSA936501TA2004	2121-1006		2M	CF20	1730	68	138	14HG-A	D	NSA938152SA2000	E
21	132	1996VC-A	14	E0395FV2000	2121-1007		2M	CF24	3430	135	138	14HG-A	E	NSA938152SA2000	E
22															
23															
24															
25															
A = ADDED WIRE															
D = DELETED WIRE															
E = EXISTING WIRE															
1)ELT.EQUIPMENT D9299701100100															

 Figure 21 Sheet 1  
 Hook-Up Chart

DATE : Dec 07/99

SERVICE BULLETIN No. : A320-21-1109

REVISION No. : 01 - Sep 27/01

Page : 63/64

SERVICE BULLETIN  
REPORTING SHEET

TITLE : AIR CONDITIONING – AIR DISTRIBUTION AND RECIRCULATION – REPLACEMENT OR  
MODIFICATION OF THE RECIRCULATION FANS 14HG AND 15HG AND MODIFICATION  
OF THE ELECTRICAL WIRING

MODIFICATION No. : 26369K2212

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  
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# A319/A320/A321

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- Quality rating of the Accomplishment Instructions	4	3	2	1
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X Reason	X List of Materials	X Mod/Inspection
X Manpower	Operator Supplied	X Test
X References	X Re-identification	X Close-up
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REVISION No. : 01 - Sep 27/01

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