



A318/A319/A320/A321

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - COCKPIT AIR HEATING - IMPROVE FOOT WARMER EFFICIENCY.

MODIFICATION No. : 35861P9435 35861P9449

This page transmits Revision No. 01 of Service Bulletin No. A320-21-1908.

ADDITIONAL WORK

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

REASON

Revision No. 01 issued to add aircraft MSN 2233 and MSN 2243, to include design office changes and to include modifications after the validation on A321-211 aircraft MSN 2342.

CHANGES

SUMMARY :

– REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

. Kit 211908A05R01 price added in evaluation table.

– EFFECTIVITY

. Sentence added.

– MANPOWER

. Config. 01 : 3.0 TOTAL MANHOURS become 10.0 and 1.5 ELAPSED TIME hours become 6.0. Config. 02 : 108.0 TOTAL MANHOURS become 109.0 and 57.0 ELAPSED TIME hours become 58.0. Config. 03 : manpower added.

– MATERIAL INFORMATION

. Material information added for kit 211908A05R01.

PLANNING INFORMATION :

– EFFECTIVITY

. Para. 1.A. Aircraft MSN 2233 and MSN 2243 added for operator AFL. Note Config. 03 added.

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– DESCRIPTION

. Para. 1.D. Config. 01 modified. Config. 03 added.

– MANPOWER

. Para. 1.G. Config. 01 : 3.0 TOTAL MANHOURS become 10.0 and 1.5 ELAPSED TIME hours become 6.0. 1.0 added for tests. Config. 02 : 108.0 TOTAL MANHOURS become 109.0 and 57.0 ELAPSED TIME hours become 58.0. 6.0 for test become 7.0. Config. 03 : manpower added.

– WEIGHT AND BALANCE

. Para. 1.H. Paragraph updated for config. 03.

– ELECTRICAL LOAD DATA

. Para. 1.I. Paragraph updated for config. 03.

– REFERENCES

. Para. 1.J. Reference to AMM 23-71-00 added.

– INTERCHANGEABILITY/MIXABILITY

. Para. 1.L. PN and note added for config. 03.

MATERIAL INFORMATION :

– MATERIAL - PRICE AND AVAILABILITY

. Para. 2.A. Price added for kit 211908A05R01.

– LIST OF COMPONENTS

. Para. 2.C. In kit 211908A02R08 : PN D9550003000196 becomes D9550003000197, PN D9000095220396 becomes D9000095220397, PN D11311898A00 becomes D11311898B00, D33110306A00 becomes D33110306C00, PN ASNA2080G01 becomes ASNA2080G04, PN NSA931320-050A becomes NSA931320-050. Kit 211908A05R01 added.

– LIST OF MATERIALS - OPERATOR SUPPLIED

. Para. 2.D. Rivets PN ASNA2080G01 added.

ACCOMPLISHMENT INSTRUCTIONS :

– GENERAL

. Para. 3.A. Config. 03 and Config. 01 added in paragraph Preparation.

– MODIFICATION

. Para. 3.B. Installation of the panels assy added in Config. 01. Text added or modified in Config. 02. Config. 03 added.

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– TESTS

. Para. 3.C. Tests added for Config. 01 and for Config. 03.

– CLOSE-UP

. Para. 3.D. Config. 01 Tests added.

– RESTORATION OF AIRCRAFT TO ITS INITIAL CONFIGURATION

. Para. 3.G. Config. 01 : preparation added. Config. 03 added for restoration.

– TESTS

. Para. 3.H. Test added for config. 01 and Config. 03.

– CLOSE-UP

. Para. 3.I. Config. 01 : close-up added. Config. 03 added.

ILLUSTRATIONS :

- Figure 1 added.
- Figure 4 added.
- Figure 6 sheet 3 updated and sheet 4 added.
- Figure 8, sheet 1 modified.
- Figure 9, sheet 1 modified.
- Figure 11, sheet 1 modified.
- Figure 14, sheet 1 and sheet 2 added.
- Figure 18, sheet 1 modified.
- Figure 21, sheet 1 modified.
- Figure 23, sheet 1 modified.
- Figure 24, sheet 1 modified.
- Figure 25, sheet 1 modified.
- Figure 26, sheet 1 modified.

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.

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SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

HISTORY OF PREVIOUS REVISIONS

No previous revisions.

REVISION SEQUENCE

ORIGINAL : Mar 08/06

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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 - COCKPIT AIR HEATING - IMPROVE FOOT WARMER EFFICIENCY.

MODIFICATION No. : 35861P9435 35861P9449

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

On longer flight on A320 family aircraft, low temperatures are being experienced at pilot foot level. The temperature drop is proportional to the length of the flight, and pilot reports indicate that it becomes uncomfortable after approximately 3/3.5 hours of flight. The temperature drop appears to be most noticeable on newer aircraft, and the majority of pilot reports refer to "moving air".

Several flight tests have been conducted and the cold feet sensation reported by the airlines has been reported on all flights, with surface and air temperatures dropping steadily as the flight length increases. The cockpit airflow pattern and distribution system have an influence on the low temperatures at pilot foot level. This is compounded by cooler air entering the cockpit from the avionics bay and by temperature losses across the cockpit distribution ducting from one air outlet to another. Cockpit foot warmers improve the situation as per their basic function.

To improve the situation a package of modifications have been developed which are proposed by this Service Bulletin.

This evaluation Service Bulletin installs :

- On aircraft MSN 2342 only : Thermal insulation around the forward pedestal to eliminate cold surfaces which could cool the air in the pedestal area by convection.
- On all aircraft :

A new duct routing which will drive the air to a better location to ensure a good comfort of the pilot's feet.
- A heater in the cockpit distribution ducting just before the foot level outlet (last outlet in the circuit) to allow the increase of the outlet temperature at this level.

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SERVICE BULLETIN SUMMARY

Accomplishment of this evaluation Service Bulletin will provide information of all evolution (the cockpit air heating, thermal insulation, foot warmer) efficiency in operational conditions for a six months period.

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) A02R08	15,230	KIT PRICE (USD) A03R03	6,010
KIT PRICE (USD) A04R00	37,410	KIT PRICE (USD) A05R01	15,170

EFFECTIVITY

This Service Bulletin is applicable to this operator :

AFL

NOTE : This modification is applicable by Service Bulletin only.

NOTE : This Service Bulletin has been accomplished at Revision No. 00 on aircraft MSN 2342 to validate its content.

CONCURRENT REQUIREMENTS

This Service Bulletin cannot be accomplished if the following Service Bulletin has been accomplished:

Service Bulletin No. A320-21-1909 Mod. No. 35861P9430

REFERENCES/REPERCUSSIONS

TFU	: 21.21.00.022
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None
LINE MAINTENANCE AFFECTED	: No
OTHERS	: None

NATURE OF THE WORK

AIRCRAFT : YES
EQUIPMENT : NO
HARD : NO

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SERVICE BULLETIN SUMMARY

SOFT : NO

OBRM : NO

MANPOWER

For Config. 01

	TOTAL MANHOURS	10.0
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	ELAPSED TIME (HOURS)	6.0
--	----------------------	-----

	For Config. 02 thru Config. 03	
--	--------------------------------	--

	TOTAL MANHOURS	109.0
--	----------------	-------

	ELAPSED TIME (HOURS)	58.0
--	----------------------	------

For Config. 01 , restoration of the aircraft

	TOTAL MANHOURS	10.0
--	----------------	------

	ELAPSED TIME (HOURS)	6.0
--	----------------------	-----

For Config. 02 thru Config. 03 , restoration of the aircraft

	TOTAL MANHOURS	109.0
--	----------------	-------

	ELAPSED TIME (HOURS)	58.0
--	----------------------	------

MATERIAL INFORMATION

AIRCRAFT DATA

Kit 211908A02R08

	Ducts, brackets, bundle, panel, placard
--	---

Kit 211908A05R01

	Ducts, brackets, bundle, panel, placard
--	---

Kit 211908A03R03

Lateral panels

Kit 211908A04R00

Heaters

APPENDICES

None

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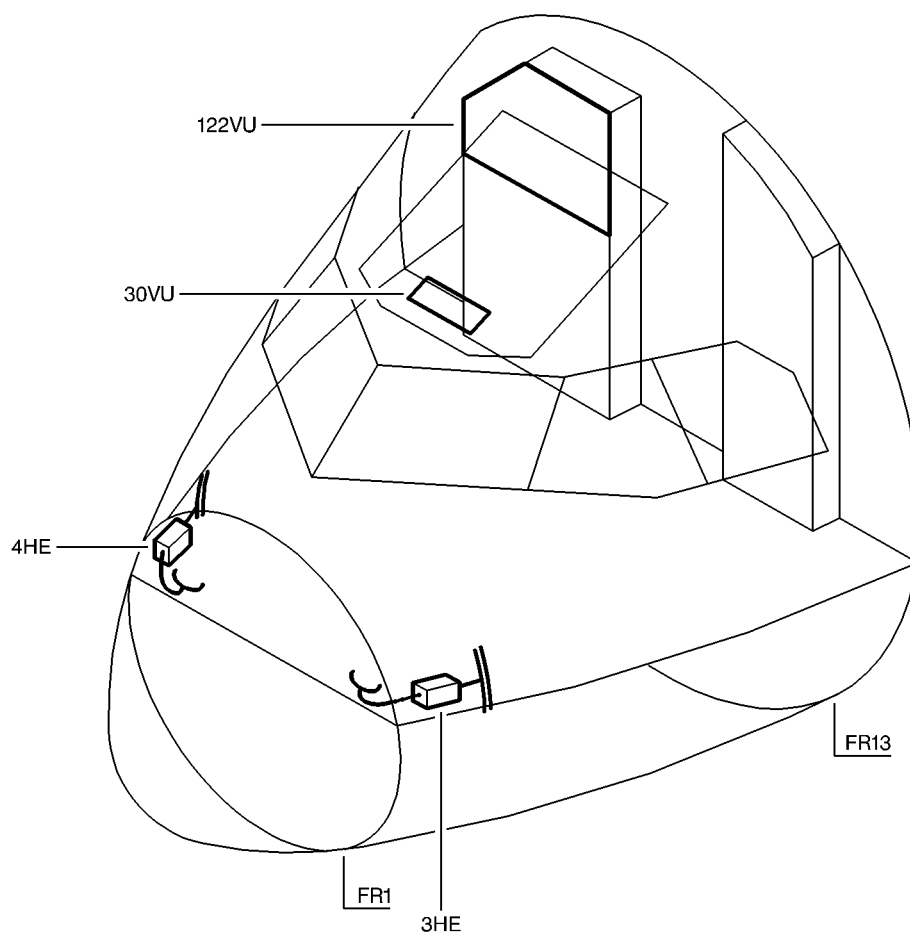
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SERVICE BULLETIN SUMMARY



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TITLE : AIR CONDITIONING - COCKPIT AIR HEATING - IMPROVE FOOT WARMER EFFICIENCY.

MODIFICATION No. : 35861P9435 35861P9449

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1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Models

319-111 320-214 321-211

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

2233 2243 2330 2337 2342

NOTE : This Service Bulletin has been accomplished at Revision No. 00 on aircraft MSN 2342 to validate its content.

(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.

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OPERATOR MSN

AFL 2233 2243 2330 2337 2342

(c) Effectivity by MSN and Kit/Configuration

The kits and configurations applicable to these MSNs are given at the end of this list:
2330 2337 2342

KIT No.	QTY PER A/C	CONFIGURATION
211908A02R08	1	02
211908A03R03	1	01
211908A04R00	1	02

NOTE (01) Config. 01 concerns the modification No. 35861P9435 which replaces the lateral panels on the center pedestal (only for aircraft MSN 2342).

NOTE (02) Config. 02 concerns the modification No. 35861P9449 which installs the equipment and the associated wiring on the foot air outlet in the cockpit and concerns aircraft with panel 30VU equipped with FIN 5HB PN ABS0951C3LM007.

The kits and configurations applicable to these MSNs are given at the end of this list:
2233 2243

KIT No.	QTY PER A/C	CONFIGURATION
211908A04R00	1	03
211908A05R01	1	03

NOTE : Config. 03 concerns the modification No. 35861P9449 which installs the equipment and the associated wiring on the foot air outlet in the cockpit and concerns aircraft with panel 30VU equipped with FIN 5HB PN 058-003-00.

(3) Spares

Placard	D11311478A00
Placard	723-4071-03
Placard	723-4207-01

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B. CONCURRENT REQUIREMENTS

This Service Bulletin cannot be accomplished if the following Service Bulletin has been accomplished:
Service Bulletin No. A320-21-1909 Mod. No. 35861P9430

C. REASON

(1) History

On longer flight on A320 family aircraft, low temperatures are being experienced at pilot foot level. The temperature drop is proportional to the length of the flight, and pilot reports indicate that it becomes uncomfortable after approximately 3/3.5 hours of flight. The temperature drop appears to be most noticeable on newer aircraft, and the majority of pilot reports refer to "moving air".

Several flight tests have been conducted and the cold feet sensation reported by the airlines has been reported on all flights, with surface and air temperatures dropping steadily as the flight length increases. The cockpit airflow pattern and distribution system have an influence on the low temperatures at pilot foot level. This is compounded by cooler air entering the cockpit from the avionics bay and by temperature losses across the cockpit distribution ducting from one air outlet to another. Cockpit foot warmers improve the situation as per their basic function.

To improve the situation a package of modifications have been developed which are proposed by this Service Bulletin.

(2) Objective/Action

This evaluation Service Bulletin installs :

- On aircraft MSN 2342 only : Thermal insulation around the forward pedestal to eliminate cold surfaces which could cool the air in the pedestal area by convection.
- On all aircraft :
 - A new duct routing which will drive the air to a better location to ensure a good comfort of the pilot's feet.
- A heater in the cockpit distribution ducting just before the foot level outlet (last outlet in the circuit) to allow the increase of the outlet temperature at this level.

(3) Advantages

Accomplishment of this evaluation Service Bulletin will provide information of all evolution (the cockpit air heating, thermal insulation, foot warmer) efficiency in operational conditions for a six months period.



(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Config. 01

- (a) Remove the equipment for access.
- (b) Replace the lateral panels at LH side.
- (c) Replace the lateral panels at RH side.
- (d) Replace the panels assy at LH side.
- (e) Replace the panels assy at RH side.
- (f) Install the removed equipment for access.

(2) Config. 02

- (a) In the cockpit, remove the equipment for access.
- (b) Install the heater 3HE at LH side.
- (c) Install the heater 4HE at RH side.
- (d) Modify the equipment and the wiring in the rear panel 120VU.
- (e) Modify the equipment and the wiring between the cockpit and the avionics compartment.
- (f) In the RH side, modify the routing between FR2 and FR3.
- (g) In the LH side, modify the routing between FR2 and FR3.
- (h) In the avionics compartment, modify the equipment.
- (i) Modify the wiring between the equipment (FINs 3HE and 4HE) and the avionics compartment.
- (j) Modify the wiring in the relay box 103VU.
- (k) In the cockpit, install the equipment removed for access.

(3) Config. 03

- (a) In the cockpit, remove the equipment for access.
- (b) Install the heater 3HE at LH side.
- (c) Install the heater 4HE at RH side.

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- (d) Modify the equipment and the wiring in the rear panel 120VU.
- (e) Modify the equipment and the wiring between the cockpit and the avionics compartment.
- (f) In the RH side, modify the routing between FR2 and FR3.
- (g) In the LH side, modify the routing between FR2 and FR3.
- (h) In the avionics compartment, modify the equipment.
- (i) Modify the wiring between the equipment (FINs 3HE and 4HE) and the avionics compartment.
- (j) Modify the wiring in the relay box 103VU.
- (k) In the cockpit, install the equipment removed for access.

E. COMPLIANCE

(1) Classification

Desirable

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule.

F. APPROVAL

Approved under EASA Design Organisation Approval No. EASA.21J.031.

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 operator's 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.

For Config. 01

Get access	3.0
Replacement of the panels at LH side	1.5

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Replacement of the panels at RH side	1.5
Replacement of panels assy at LH side	1.5
Replacement of panels assy at RH side	1.5
Test	1.0
TOTAL MANHOURS	10.0
ELAPSED TIME (HOURS)	6.0

For Config. 02 thru Config. 03

Get access	4.0
Removal of the equipment	16.0
Installation of the heater at LH side	20.5
Installation of the heater at RH side	20.5
Modif. equipment and wiring in 120VU	3.0
Modif. equipment and wiring CKPT/AVNCS	6.0
Modification of the routing in RH side	2.0
Modification of the routing in LH side	2.0
Modification of equipment in AVNCS	1.0
Modif. wiring between equipment/AVNCS	6.0
Modification of the wiring in 103VU	1.0
Installation of the removed equipment	16.0
Test	7.0
Close-up	4.0
TOTAL MANHOURS	109.0
ELAPSED TIME (HOURS)	58.0

For Config. 01 , restoration of the aircraft

Restoration to initial conditions	10.0
TOTAL MANHOURS	10.0
ELAPSED TIME (HOURS)	6.0

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For Config. 02 thru Config. 03 , restoration of the aircraft

Restoration to initial conditions	109.0
TOTAL MANHOURS	109.0
ELAPSED TIME (HOURS)	58.0

H. WEIGHT AND BALANCE

Config. 01

Manufacturers Empty Weight : -0.86 kg (-1.90 lb)

Effect on Balance : -3.87 kgm (-27.99 lb.ft)

Config. 02 thru Config. 03

Manufacturers Empty Weight : +4.00 kg (+8.82 lb)

Effect on Balance : +18.00 kgm (+130.19 lb.ft)

I. ELECTRICAL LOAD DATA

(1) Direct Current (DC) Load Changes

Not changed

(2) Alternating Current (AC) Load Changes

(a) Config. 02 , Kit 211908A02R08 and Config. 03 , Kit 211908A05R01

Circuit Breaker : 1HE (New)

Designation : CKPT FOOT HEATERS

Busbar : 204XP-C

Nominal Power : 288 VA

Electrical Load Data : + 288 VA



J. REFERENCES

Aircraft Maintenance Manual (AMM) : 06-41-53 11-00-00 12-34-24
20-28-00 21-26-00 21-51-00
21-55-00 21-63-00 22-82-12
22-96-00 22-97-00 23-13-00
23-13-13 23-51-00 23-51-12
23-71-00 24-38-51 24-41-00
25-11-51 25-13-14 25-13-44
25-15-51 26-12-00 26-12-12
27-21-42 31-10-00 31-50-00
31-60-00 32-45-00 33-12-00
33-13-00 33-14-00 34-41-00
34-41-12 34-52-00 34-52-12
36-11-00 49-00-00 52-41-00
52-51-00

Consumable Material List (CML)

Elec. Std. Practices Manual (ESPM) : 20-25-51 20-30-00 20-33-44
20-52-10 20-55-00

Structural Repair Manual (SRM) : 51-42-00 51-43-00 51-44-00
51-46-00 51-49-00

Standards Manual (SM)

Service Bulletin No. A320-21-1909

K. PUBLICATIONS AFFECTED

Aircraft Wiring List (AWL)

L. INTERCHANGEABILITY/MIXABILITY

Config. 02

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
Placard	D11311478A00	D11311898B00	03	Not applicable
Placard	723-4071-03	D33110306C00	03	Not applicable

NOTE : For definitions of interchangeability codes in column INT. refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

Config. 03

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
Placard	D11311478A00	D11311898B00	03	Not applicable
Placard	723-4207-01	D33110305B00	03	Not applicable

NOTE : For definitions of interchangeability codes in column INT. refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

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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
SPARES SUPPORT AND SERVICES
Weg bein Jaeger 150
D-22335 HAMBURG
GERMANY

For ordering by internet: <http://spares.airbus.com>
For ordering by fax: +49 40 50 76 25 90

(2) Price and Availability

Kit 211908A02R08

Cost : 15,230.00US Dollars

Availability : 120 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.

Kit 211908A03R03

Cost : 6,010.00 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.

Kit 211908A04R00

Cost : 37,140.00US 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.

Kit 211908A05R01

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Cost : 15,170.00US Dollars

Availability : 120 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

AIRBUS will provide the material at no charge for the aircraft selected for evaluation only and will credit the manhours indicated in this Service Bulletin at the operator's agreed in-house warranty labor rate upon receipt of a warranty claim.

C. LIST OF COMPONENTS

Kit 211908A02R08

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
1	D2122872600000	2		Tee					
2	D2122872700000	1		Mouthpic					
3	D2122872700100	1		Mouthpic					
4	D2122872800000	1		Outlet					
5	D2122872800100	1		Outlet					
6	D2122872900000	4		Cap					
7	D2122873020000	5		Holder					
8	D2122873100000	1		Support					
9	D2122873100100	1		Support					
10	D0003005501000	2		Cable					
11	D2122875620000	9		Shim					
12	F2121008920000	2		Bolt					
13	ASNA3323-203	2		Sleeve					
14	F0003078400000	1		Valve					
15	F0003078400100	1		Valve					
18	D5361107200000	1		Panel					
19	D5361107200100	1		Panel					
20	D5392514820000	1		Bracket					
21	D5392514820100	1		Bracket					
22	D5392514920000	2		Bracket					
23	D5391828200000	4		Bracket					
34	ABS1114B028D350	2		Hose					
35	ABS1114B028D640	2		Hose					
36	NAS1801-3-7	16		Screw					
37	NAS1801-3-8	16		Screw					
38	MS21042-3	16		Nut					

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ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
39	ASNA2397-10L	46		Washer					
40	NAS1801-3-6	2		Screw					
41	NSA5516CA54NJ	2		Clamp					
42	ABS0901-045	8		Clamp					
43	NSA5516A06NJ	8		Clamp					
44	NSA5516A07NJ	2		Clamp					
45	ABS0901-050	10		Clamp					
46	NSA5527-03-05	2		Spacer					
47	ASNA2397-416	4		Washer					
48	MS21042-4	2		Nut					
49	NAS1801-3-12	2		Screw					
50	ABS0901-035	8		Clamp					
51	ABS1114B020D350	2		Hose					
52	NAS1801-3-9	12		Screw					
54	D9251587500000	2		Bracket					
55	D9251587600000	2		Bracket					
56	ASNA2050DCJ3215	28		Rivet					
61	ABS5006-2G	4	M	Tape					
81	MS21071L3	2		Nut					
82	ASNA2051DCJ2412	4		Rivet					
100	NSA931320-050	1		CB					
107	D11311898B00	1		Placard	(107)	D11311478A00		03	*
108	ASNA2080G04	4		Button					
115	E0432A06	2	M	Conduit					
116	E0343-01	4		Mount					
118	NSA5050-3	8		Nut					
119	NSA935504-01	4		Mount					
120	NSA5527-03-08	2		Spacer					
121	NAS1801-3-24	2		Screw					
122	NSA937901MA2011	1		Module					
123	EN3646A61006BN	2		CNCTR					
124	E0080-02-10C	2		BACKSHLL					
125	D33110306C00	1		Placard	(125)	723-4071-03		03	*
127	D9550003000197	1		Panel					
128	EN3646A61626BZ	1		CNCTR					
129	E0080-01-16C	1		BACKSHLL					
130	NAS1149F0332P	12		Washer					
131	D2122878020000	1		Holder					
132	D2122875620200	3		Shim					
133	D2122875620400	1		Shim					
134	NAS1801-3-13	2		Screw					
135	NAS1801-3-15	6		Screw					
	D9000095220397	1		Bundle					

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ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
	D9100095212195	1		Set					
	NSA935401-03	900		Tie					
	NSA935401-04	900		Tie					
	NSA935401-05	904		Tie					
	NSA935401-08	900		Tie					
	NSA937901E1	1		Module					
	NSA937901E7	1		Module					

NOTE : For definitions of interchangeability codes in column INT. refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

NOTE (*) Discard

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

Kit 211908A03R03

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
16	D2701014600000	1		Panel					
17	D2701014600100	1		Panel					
70	ASNA2397JD10L	26		Washer					

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

Kit 211908A04R00

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
53	RC0200A00	2		Heater					

Kit 211908A05R01

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
1	D2122872600000	2		Tee					
2	D2122872700000	1		Mouthpic					
3	D2122872700100	1		Mouthpic					
4	D2122872800000	1		Outlet					
5	D2122872800100	1		Outlet					
6	D2122872900000	4		Cap					

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ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
7	D2122873020000	5		Holder					
8	D2122873100000	1		Support					
9	D2122873100100	1		Support					
10	D0003005501000	2		Cable					
11	D2122875620000	9		Shim					
12	F2121008920000	2		Bolt					
13	ASNA3323-203	2		Sleeve					
14	F0003078400000	1		Valve					
15	F0003078400100	1		Valve					
18	D5361107200000	1		Panel					
19	D5361107200100	1		Panel					
20	D5392514820000	1		Bracket					
21	D5392514820100	1		Bracket					
22	D5392514920000	2		Bracket					
23	D5391828200000	4		Bracket					
34	ABS1114B028D350	2		Hose					
35	ABS1114B028D640	2		Hose					
36	NAS1801-3-7	16		Screw					
37	NAS1801-3-8	16		Screw					
38	MS21042-3	16		Nut					
39	ASNA2397-10L	46		Washer					
40	NAS1801-3-6	2		Screw					
41	NSA5516CA54NJ	2		Clamp					
42	ABS0901-045	8		Clamp					
43	NSA5516A06NJ	8		Clamp					
44	NSA5516A07NJ	2		Clamp					
45	ABS0901-050	10		Clamp					
46	NSA5527-03-05	2		Spacer					
47	ASNA2397-416	4		Washer					
48	MS21042-4	2		Nut					
49	NAS1801-3-12	2		Screw					
50	ABS0901-035	8		Clamp					
51	ABS1114B020D350	2		Hose					
52	NAS1801-3-9	12		Screw					
54	D9251587500000	2		Bracket					
55	D9251587600000	2		Bracket					
56	ASNA2050DCJ3215	28		Rivet					
61	ABS5006-2G	4	M	Tape					
81	MS21071L3	2		Nut					
82	ASNA2051DCJ2412	4		Rivet					
100	NSA931320-050	1		CB					
107	D11311898B00	1		Placard	(107)	D11311478A00	03	*	
108	ASNA2080G04	4		Button					

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ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
115	E0432A06	2	M	Conduit					
116	E0343-01	4		Mount					
118	NSA5050-3	8		Nut					
119	NSA935504-01	4		Mount					
120	NSA5527-03-08	2		Spacer					
121	NAS1801-3-24	2		Screw					
122	NSA937901MA2011	1		Module					
123	EN3646A61006BN	2		CNCTR					
124	E0080-02-10C	2		BACKSHLL					
125	D33110305B00	1		Placard	(125)	723-4207-01		03	*
127	D9550003000295	1		Panel					
128	EN3646A61626BZ	1		CNCTR					
129	E0080-01-16C	1		BACKSHLL					
130	NAS1149F0332P	12		Washer					
131	D2122878020000	1		Holder					
132	D2122875620200	3		Shim					
133	D2122875620400	1		Shim					
134	NAS1801-3-13	2		Screw					
135	NAS1801-3-15	6		Screw					
	D9000095220397	1		Bundle					
	D9100095212195	1		Set					
	NSA935401-03	900		Tie					
	NSA935401-04	900		Tie					
	NSA935401-05	904		Tie					
	NSA935401-08	900		Tie					
	NSA937901E1	1		Module					
	NSA937901E7	1		Module					

NOTE : For definitions of interchangeability codes in column INT. refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

NOTE (*) Discard

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

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**D. LIST OF MATERIALS – OPERATOR SUPPLIED****(1) Consumable Materials**

DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	INST DISP
Pure Mineral Vaseline Or Petro-Latum	04-012	As required	
Electrical Bonding Coating (Blue Color)	07-001	As required	
Dry Cleaning Solvent (Varsol/White Spirit)	11-002	As required	
Tape Hook and Loop ABS1133A025	None	As required	
Self Adhesive ABS1133D025	None	As required	
rivet ASNA2050DCJ3215	None	68	
rivet ASNA2050DCJ4828	None	12	
Rivet ASNA2051DCJ2412	None	8	
Button Rivet Plastic ASNA2080G01	None	4	

(2) Components

None

E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

None

F. TOOLING – PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None



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3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

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

CAUTION : ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE). WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE, TO DO THIS :

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC; AS NECESSARY ON WIRING AND COMPONENTS.
- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.

IF THERE IS CONTAMINATION REFER TO ESPM 20-55-00.

(1) Preparation

(a) Config. 01

- 1 Do the preparation procedure as specified in the removal/installation of the Multipurpose Control & Display Unit (MCDU) (3CA1, 3CA2 and 3CA3) (Refer to AMM 22-82-12 Page block 401).
- 2 Do the preparation procedure as specified in the removal/installation of the Radio Management Panel (RMP) (1RG1, 1RG2 and 1RG3) (Refer to AMM 23-13-13 Page block 401).
- 3 Do the preparation procedure as specified in the removal/installation of the Audio Control Panel (ACP) (2RN1, 2RN2, 2RN3, 2RN4 and 2RN5) (Refer to AMM 23-51-12 Page block 401).
- 4 Do the preparation procedure as specified in the removal/installation of the Weather Radar control unit (WXR) (3SQ) (Refer to AMM 34-41-12 Page block 401).
- 5 Do the preparation procedure as specified in the removal/installation of the Air Traffic Control/ Traffic Alert and Collision Avoidance System (ATC/TCAS) control unit (3SH) (Refer to AMM 34-52-12 Page block 401).
- 6 Open, safety and tag these circuit breakers :



PANEL	DESIGNATION	FIN	LOCATION
49VU	LIGHTING/EMER LT/CKPT/DOME	1LE	08 H
122VU	LIGHTING/FLOOD/CTR INST/PNL	2LE	04 Z
122VU	LIGHTING/INSTL LT/MAIN INST/PNL AND/PED	4LF	04 Y
121VU	AIDS & RCDR/FDIMU	5TV	15 K

(b) Config. 02 thru Config. 03

- 1 Make sure that the aircraft is electrically grounded (Refer to AMM 12-34-24 Page block 201).
- 2 Put the access platform(s) in position.
- 3 Open the access doors 811 and 822 (Refer to AMM 52-41-00 Page block 001).
- 4 In the cockpit, remove the sidewall and ceiling panels 211BW, 212BW, 211HC, 212FC, 212KC, 212JW and 212HW (Refer to AMM 06-41-53 Page block 001).
- 5 Remove the textile floor covering (Refer to AMM 25-13-44 Page block 401).
- 6 Remove the panel Item (141) on the left of the panel 120VU (Refer to Figure 11 , Sheet 1) for access.
- 7 Make sure that the external connector(s) is (are) not connected to the aircraft receptacle(s) EXT PW.
- 8 Make sure that there is (are) warning notice(s) on external power receptacle to tell persons not to connect an external power source.
- 9 Make sure that the EMER EXIT LT pushbutton switch on 25VU is on OFF position.
- 10 In the cockpit, on the overhead panel 35VU release BAT pushbutton switches.
- 11 Put a warning notice on refuel/defuel panel 800VU to tell persons no to operate the NORMAL BATTERY switch.
- 12 Put a warning notice in the cockpit to tell persons not to start the Auxiliary Power Unit (APU).
- 13 Put a warning notice in the cockpit to tell persons not to start the ENG 1, 2.
- 14 Battery disconnection :



- For job set-up, refer to the removal/installation of the batteries (Refer to AMM 24-38-51 Page block 401).
- Turn the knurled nut a quarter turn.
- Disconnect the connectors.
- Put blanking caps on the disconnected electrical connectors.

(2) Standard Practices

- (a) For the specification of the material numbers (Mat. No.), refer to CML.
- (b) Torque the standard threaded fasteners (Refer to SRM 51-49-00).
- (c) For alternative and substitute fasteners, refer to SRM 51-43-00.
- (d) Drill and deburr the holes (Refer to SRM 51-44-00).
- (e) To countersink the holes, refer to SRM 51-46-00.
- (f) Remove/install the fasteners (Refer to SRM 51-42-00).
- (g) Do the electrical bonding (Refer to AMM 20-28-00 Page block 201) with Pure Mineral Vaseline Or Petro-Latum (Mat No. 04-012) and Electrical Bonding Coating (Blue Color) (Mat No. 07-001) .
- (h) Obey the instructions for the general wiring installation (Refer to ESPM 20-30-00).
- (i) To install new wires, cut them to the necessary length, crimp the terminals and connect them.
- (j) Route the wires with the wires that are in the aircraft.
- (k) Use existing spare conduits to route wires in locations difficult to get access to.
- (l) Do a continuity test of the modified and new wires.
- (m) For the cable tie application and tooling, refer to ESPM 20-33-44 and ESPM 20-25-51.
- (n) Clean the surfaces at location of the placards with Dry Cleaning Solvent (Varsol/White Spirit) (Mat No. 11-002) .
- (o) Bond the placards (Refer to AMM 11-00-00 Page block 201).



B. MODIFICATION

(1) Config. 01

(a) Remove the equipment for access.

Refer to AMM 22-82-12 Page block 401

Refer to AMM 23-13-13 Page block 401

Refer to AMM 23-51-12 Page block 401

Refer to AMM 34-41-12 Page block 401

1 Remove the MCDU (3CA1 and 3CA2) (Refer to AMM 22-82-12 Page block 401).

2 Remove the RMP (1RG1 and 1RG2) (Refer to AMM 23-13-13 Page block 401).

3 Remove the ACP (2RN1 and 2RN2) (Refer to AMM 23-51-12 Page block 401).

4 Remove the weather radar CTL unit (Refer to AMM 34-41-12 Page block 401).

5 Remove the panel 111VU.

6 Remove the panel 112VU.

(b) Replace the lateral panels at LH side.

Refer to Figure 3 , Sheets 1 and 2

Refer to Kit 211908A03R03

1 Remove :

1	Panel foam	Item (86)	Retain
1	Strip board machined	Item (63)	Retain
1	Strip board machined	Item (67)	Retain

attached with :

3	Screw	Item (88)	Retain
6	Screw	Item (71)	Retain
2	Screw	Item (89)	Retain
9	Washer	Item (70)	Discard

and

1	Strip board machined	Item (65)	Retain
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attached with :

4	Screw	Item (69)	Retain
4	Washer	Item (70)	Discard

2 Install :

1	Lateral panel assy	D2701014600000	Item 16
1	Panel foam		Item (86)

with :

3	Screw		Item (88)
6	Screw		Item (71)
4	Screw		Item (69)
2	Screw		Item (89)
13	Washer	ASNA2397JD10L	Item 70

NOTE : Items (69), (71), (86), (88) and (89) were retained at removal.

(c) Replace the lateral panels at RH side.

Refer to Figure 3 , Sheets 1 and 2

1 Remove :

1	Panel foam	Item (87)	Retain
1	Strip board machined	Item (64)	Retain
1	Strip board machined	Item (68)	Retain

attached with :

3	Screw	Item (88)	Reatin
6	Screw	Item (71)	Retain
2	Screw	Item (89)	Retain
9	Washer	Item (70)	Discard

and

1	Strip board machined	Item (66)	Retain
---	-------------------------	-----------	--------

attached with :

4	Screw	Item (69)	Retain
4	Washer	Item (70)	Discard

2 Install :

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1 Panel foam Item (87)

1 Lateral panel D2701014600100 Item 17
assy

with :

3 Screw Item (88)

6 Screw Item (71)

4 Screw Item (69)

2 Screw Item (89)

13 Washer ASNA2397JD10L Item 70

NOTE : Items (69), (71), (87), (88) and (89) were retained
at removal.

(d) Install the removed equipment for access.

Refer to AMM 22-82-12 Page block 401

Refer to AMM 23-13-13 Page block 401

Refer to AMM 23-51-12 Page block 401

Refer to AMM 34-41-12 Page block 401

1 Install the MCDU (3CA1 and 3CA2) (Refer to AMM 22-82-12
Page block 401).

2 Install the RMP (1RG1 and 1RG2) (Refer to AMM 23-13-13 Page
block 401).

3 Install the ACP (2RN1 and 2RN2) (Refer to AMM 23-51-12 Page
block 401).

4 Install the weather radar CTL unit (Refer to AMM 34-41-12
Page block 401).

5 Install the panel 111VU.

6 Install the panel 112VU.

(2) Config. 02

(a) In the cockpit, remove the equipment for access.

Refer to AMM 25-11-51

Refer to AMM 27-21-42

refer to AMM 25-13-14

Refer to AMM 25-15-51



- 1 Remove the captain and first officer seats (3MS and 4MS) (Refer to AMM 25-11-51 Page block 401).
- 2 Remove the captain and first officer pedals (Refer to AMM 27-21-42 Page block 401).
- 3 Remove the foot rest assembly (Refer to AMM 25-13-14 Page block 401).
- 4 Remove the captain and first officer foot warmers (2DR1, 2DR2, 2DR3 and 2DR4) (Refer to AMM 25-15-51 Page block 401).
- 5 Remove the duct Item (90) for access.

Refer to Figure 1 , Sheet 1

a Remove :

1	Duct	Item (90)	Retain
attached with :			
1	Clamp	Item (91)	Retain
1	Clamp	Item (92)	Retain
2	Clamp	Item (95)	Retain
1	Sleeve	Item (96)	Retain
2	Clamp	Item (93)	Retain
1	Sleeve	Item (94)	Retain

- (b) Install the tape adhesive Item 61 on the panel assy at LH side.

Refer to Figure 4 , Sheets 1 and 2

– Install :

1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.

- (c) Install the tape adhesive Item 61 on the panel assy at RH side.

Refer to Figure 4 , Sheets 1 and 2

– Install :

1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.



(d) Install the heater 3HE at LH side.

Refer to Figure 5 , Sheet 1

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 8 , Sheets 1 and 2

Refer to Kit 211908A02R08

1 Replace the cabin floor panel.

Refer to Figure 5 , Sheet 1

a Remove the cabin floor Item (18).

– Disconnect the connector 1025VC for access.

– Remove :

1	Cabin floor	Item (18)	Retain
---	-------------	-----------	--------

attached with :

6	Screw	Item (29)	Retain
---	-------	-----------	--------

b Install the cabin floor Item 18.

– Install :

1	Panel - floor	D5361107200000	Item 18
---	---------------	----------------	---------

with :

6	Screw	Item (29)
---	-------	-----------

NOTE : The screw Item (29) was retained at removal.

– Connect the connector 1025VC already disconnected for access.

2 Install the ducts and the heater 3HE.

Refer to Figure 1 , Sheet 1

Refer to Figure 2 , Sheets 1 and 2

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 8 , Sheets 1 and 2



a Remove the duct Item (74).

Refer to Figure 6 , Sheet 1

– Remove :

- | | | | |
|---|-----------------------|-----------|--------|
| 1 | Duct | Item (74) | Retain |
| | attached with : | | |
| 2 | Clamp | Item (73) | Retain |
| | and | | |
| 1 | Base assy
mounting | Item (83) | Retain |
| 1 | Outlet air | Item (84) | Retain |
| | attached with : | | |
| 4 | Screw | Item (85) | Retain |

b Disconnect the cable Item (80).

Refer to Figure 6 , Sheet 1

– Disconnect :

- | | | | |
|---|-----------------|-----------|---------|
| 1 | Cable | Item (80) | Retain |
| | attached with : | | |
| 1 | Bolt | Item (75) | Retain |
| 1 | Clamp | Item (77) | Retain |
| 1 | Screw | Item (79) | Retain |
| 1 | Washer | Item (78) | Discard |
| 1 | Nut | Item (76) | Discard |

– Attach temporarily the cable Item (80) on the structure with :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

c Install a tie-cable on the flap of the air outlet (only on 2342).

Refer to Figure 2 , Sheets 1 and 2

– Install :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

NOTE : The tie-cable is installed to lock the flap of the air outlet in close position.



d Install the tape-adhesive Item 61.

Refer to Figure 2 , Sheets 1 and 2

– Install :

1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.

e Install the brackets Item 54, 55, 20, 22, 23, 7 and 8 on the structure.

Refer to Figure 6 , Sheets 2 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 8 , Sheets 1 and 2

– Install the bracket Item 54 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 54 PN D9251587500000 on the structure as shown on Figure 7 , Sheet 2 , detail B.

. Drill and deburr two holes on the structure to the dimensions given in Figure 7 , Sheet 2 .

. Install :

1 Bracket D9251587500000 Item 54

with :

2 Rivet ASNA2050DCJ3215 Item 56

– Install the bracket Item 55 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 55 PN D9251587600000 on the structure as shown on Figure 7 , Sheet 2 detail C.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

1 Bracket D9251587600000 Item 55

with :



2 Rivet ASNA2050DCJ3215 Item 56

- Install the bracket Item 20, Item 22 and Item 23 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

. Temporarily put in position the brackets Item 20 PN D5392514820000, Item 22 PN D5392514920000, Item 23 PN D5391828200000 on the structure as shown on Figure 7 , Sheet 3 , detail D.

. Drill and deburr eight holes on the structure to the dimensions given in Figure 7 , Sheet 3 , detail D.

. Install :

1 Bracket D5392514820000 Item 20

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5392514920000 Item 22

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5391828200000 Item 23

with :

2 Rivet ASNA2050DCJ3215 Item 56

- Install the bracket Item 23 between FR2 and FR3 on the under floor.

Refer to Figure 7 , Sheets 1 and 4

. Temporarily put in position the bracket Item 23 PN D5391828200000 on the structure as shown on Figure 7 , Sheet 4 , detail F.

. Drill and deburr two holes on the structure to the dimensions given in Figure 7 , Sheet 4 .

. Install :

1 Bracket D5391828200000 Item 23

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with :

2 Rivet ASNA2050DCJ3215 Item 56

– Install the brackets Item 7, Item 8 and their related shims on the floor panel.

Refer to Figure 6 , Sheets 2 thru 5

. Install :

3 Holder D2122873020000 Item 7

6 Shim D2122875620000 Item 11

with :

6 Screw NAS1801-3-8 Item 37

6 Washer ASNA2397-10L Item 39

and

1 Support assy D2122873100000 Item 8

with :

2 Screw NAS1801-3-6 Item 40

2 Washer ASNA2397-10L Item 39

– Install the nut Item 81 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

. Drill and deburr one hole on the cabin floor to the dimensions given in Figure 7 , Sheet 3 , detail D.

. Temporarily put in position the nut Item 81 PN MS21071L3 on the cabin floor as shown on Figure 7 , Sheet 3 , detail D.

. Drill and deburr two holes on the cabin floor to the dimensions given in Figure 7 , Sheet 3 , detail D.

. Install :

1 Nut MS21071L3 Item 81

with :

2 Rivet-Solid ASNA2051DCJ2412 Item 82

– As shown on Figure 5, Sheet 4, detail G, bond the placard HEATER 3HE supplied in

Placard set D9100095212195



- f Install the grounding points and the placards 203VN, 205VN, 207VN.

Refer to Figure 8 , Sheets 1 and 2

- Drill three holes on the structure to a diameter of 5.2mm (0.204in.) as shown on Figure 7, Sheet 1.
- On the structure, do a stripping to the dimension given in Figure 7, Sheet 1.
- As shown on Figure 7, Sheet 2, detail A, bond the placards 203VN, 205VN, 207VN, supplied in :

Placard set D9100095212195

- g Install the ducts and the heater 3HE.

Refer to Figure 6 , Sheets 2 thru 5

- Install :

1 Hose ABS1114B020D350 Item 51

with :

1 Clamp ABS0901-035 Item 50

and

1 Tee - Heldded D2122872600000 Item 1

1 Sleeve ASNA3323-203 Item 13

with :

3 Clamp ABS0901-035 Item 50

and

1 Heater RC0200A00 Item 53

1 Valve 3 ways F0003078400000 Item 14

1 Valve D2122872700000 Item 2

with :

4 Screw NAS1801-3-9 Item 52

4 Screw NAS1801-3-7 Item 36

8 Washer ASNA2397-10L Item 39

8 Nut MS21042-3 Item 38

and

1 Hose ABS1114B028D640 Item 35

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with :

2	Clamp	ABS0901-045	Item 42
---	-------	-------------	---------

NOTE : Attach the hose Item 35 on the existing duct with Tape Hook and Loop ABS1133A025 and Self Adhesive ABS1133D025 .

and

1	Outlet - blowing	D2122872800000	Item 4
---	------------------	----------------	--------

with :

3	Clamp	ABS0901-050	Item 45
---	-------	-------------	---------

and

2	Cap by pass	D2122872900000	Item 6
---	-------------	----------------	--------

with :

2	Clamp	ABS0901-050	Item 45
---	-------	-------------	---------

and

1	Hose	ABS1114B028D350	Item 34
---	------	-----------------	---------

with :

2	Clamp	ABS0901-045	Item 42
1	Clamp	NSA5516CA54NJ	Item 41
2	Screw	NAS1801-3-7	Item 36
2	Washer	ASNA2397-10L	Item 39

h Install the cable Item 10.

Refer to Figure 6 , Sheets 2 and 3

– Install :

1	Cable	D0003005501000	Item 10
---	-------	----------------	---------

with :

2	Screw	NAS1801-3-7	Item 36
1	Screw	NAS1801-3-12	Item 49
2	Screw	NAS1801-3-8	Item 37
1	Bolt	F2121008920000	Item 12
1	Spacer	NSA5527-03-05	Item 46
5	Washer	ASNA2397-10L	Item 39
4	Clamp	NSA5516A06NJ	Item 43
1	Clamp	NSA5516A07NJ	Item 44



2	Washer	ASNA2397-416	Item 47
1	Nut	MS21042-4	Item 48

(e) Install the heater 4HE at RH side.

Refer to Figure 5 , Sheet 1

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 9 , Sheets 1 and 2

Refer to Kit 211908A02R08

Refer to Kit 211908A03R03

1 Replace the cabin floors panel.

Refer to Figure 5 , Sheet 1

a Remove the cabin floor Item (19).

– Remove :

1	Cabin floor	Item (19)	Retain
---	-------------	-----------	--------

attached with :

6	Screw	Item (29)	Retain
---	-------	-----------	--------

b Install the cabin floor Item 19.

– Install :

1	Panel - floor	D5361107200100	Item 19
---	---------------	----------------	---------

with :

6	Screw	Item (29)
---	-------	-----------

NOTE : The screw Item (29) was retained at removal.

2 Install the ducts and the heater 4HE.

Refer to Figure 2 , Sheets 1 and 2

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 9 , Sheets 1 and 2

a Remove the duct Item (74).



Refer to Figure 6 , Sheet 1

– Remove :

- | | | | |
|---|-----------------------|-----------|--------|
| 1 | Duct | Item (74) | Retain |
| | attached with : | | |
| 2 | Clamp | Item (73) | Retain |
| | and | | |
| 1 | Base assy
mounting | Item (83) | Retain |
| 1 | Outlet air | Item (84) | Retain |
| | attached with : | | |
| 4 | Screw | Item (85) | Retain |

b Disconnect the cable Item (80).

Refer to Figure 6 , Sheet 1

– Disconnect :

- | | | | |
|---|-----------------|-----------|---------|
| 1 | Cable | Item (80) | Retain |
| | attached with : | | |
| 1 | Bolt | Item (75) | Retain |
| 1 | Clamp | Item (77) | Retain |
| 1 | Screw | Item (79) | Retain |
| 1 | Washer | Item (78) | Discard |
| 1 | Nut | Item (76) | Discard |

– Attach temporarily the cable Item (80) on the structure with :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

c Install a tie-cable on the flap of the air outlet.

Refer to Figure 2 , Sheets 1 and 2

– Install :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

NOTE : The tie-cable is installed to lock the flap of the air outlet in close position.

d Install the tape-adhesive Item 61 (only on the 2342).



Refer to Figure 2 , Sheets 1 and 2

– Install :

- 1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.

- e Install the brackets Item 54, 55, 21, 22, 23, 7 and 9 on the structure.

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 9 , Sheets 1 and 2

– Install the bracket Item 54 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 54 PN D9251587500000 on the structure as shown on Figure 6, Sheet 2 on detail B.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

- 1 Bracket D9251587500000 Item 54

with :

- 2 Rivet ASNA2050DCJ3215 Item 56

– Install the bracket Item 55 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 55 PN D9251587600000 on the structure as shown on Figure 6, Sheet 2 on detail C.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

- 1 Bracket D9251587600000 Item 55

with :

- 2 Rivet ASNA2050DCJ3215 Item 56



- Install the bracket Item 21, Item 22, Item 23 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

- . Temporarily put in position the brackets Item 21 PN D5392514820100, Item 22 PN D5392514920000, Item 23 PN D5391828200000 on the structure as shown on Figure 6, Sheet 3 on detail D.
- . Drill and deburr eight holes on the structure to the dimensions given in Figure 6, Sheet 3.
- . Install :

1 Bracket D5392514820100 Item 21

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5392514920000 Item 22

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5391828200000 Item 23

with :

2 Rivet ASNA2050DCJ3215 Item 56

- Install the bracket Item 23 between FR2 and FR3 on the under floor.

Refer to Figure 7 , Sheets 1 and 4

- . Temporarily put in position the bracket Item 23 PN D5391828200000 on the structure as shown on Figure 6, Sheet 4 on detail F.
- . Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 4.
- . Install :

1 Bracket D5391828200000 Item 23

with :



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2 Rivet ASNA2050DCJ3215 Item 56

- Install the brackets Item 7, Item 9 , Item 131 and their related shims on the floor panel.

Refer to Figure 6 , Sheets 2 thru 5

. Install :

2	Holder	D2122873020000	Item 7
1	Holder	D2122878020000	Item 131
3	Shim	D2122875620000	Item 11
3	Shim	D2122875620200	Item 132

with :

6	Screw	NAS1801-3-15	Item 135
6	Washer	ASNA2397-10L	Item 39

and

1	Support assy	D2122873100100	Item 9
1	Shim	D2122875620400	Item 133

with :

2	Screw	NAS1801-3-13	Item 134
2	Washer	ASNA2397-10L	Item 39

- Install the nut Item 81 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

. Drill and deburr one hole on the cabin floor to the dimensions given in Figure 6, Sheet 3, detail D.

. Temporarily put in position the nut Item 81 PN MS21071L3 on the cabin floor as shown on Figure 6, Sheet 3, detail D.

. Drill and deburr two holes on the cabin floor to the dimensions given in Figure 6, Sheet 3, detail D.

. Install :

1	Nut	MS21071L3	Item 81
---	-----	-----------	---------

with :

2	Rivet-Solid	ASNA2051DCJ2412	Item 82
---	-------------	-----------------	---------

- As shown on Figure 5, Sheet 4, detail G, bond the placard HEATER 4HE supplied in :

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- f Install the grounding points and the placards 204VN, 206VN, 208VN.

Refer to Figure 9 , Sheets 1 and 2

- Drill three holes on the structure to a diameter of 5.2mm (0.204in.) as shown on Figure 8, Sheet 1.
- On the structure, do a stripping to the dimension given in Figure 8, Sheet 1.
- As shown on Figure 8, Sheet 2, detail A, bond the placards 204VN, 206VN, 208VN, supplied in :

Placard set D9100095212195

- g Install the ducts and the heater 4HE.

Refer to Figure 6 , Sheets 2 thru 5

- Install :

1 Hose ABS1114B020D350 Item 51

with :

1 Clamp ABS0901-035 Item 50

and

1 Tee - Heldded D2122872600000 Item 1

1 Sleeve ASNA3323-203 Item 13

with :

3 Clamp ABS0901-035 Item 50

and

1 Heater RC0200A00 Item 53

1 Valve 3 ways F0003078400100 Item 15

1 Valve D2122872700100 Item 3

with :

4 Screw NAS1801-3-9 Item 52

4 Screw NAS1801-3-7 Item 36

8 Washer ASNA2397-10L Item 39

8 Nut MS21042-3 Item 38

and

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1 Hose ABS1114B028D640 Item 35

with :

2 Clamp ABS0901-045 Item 42

NOTE : Attach the hose Item 35 on the existing duct with Tape Hook and Loop ABS1133A025 and Self Adhesive ABS1133D025 .

and

1 Outlet - blowing D2122872800100 Item 5

with :

3 Clamp ABS0901-050 Item 45

and

2 Cap by pass D2122872900000 Item 6

with :

2 Clamp ABS0901-050 Item 45

and

1 Hose ABS1114B028D350 Item 34

with :

2 Clamp ABS0901-045 Item 42

1 Clamp NSA5516CA54NJ Item 41

2 Screw NAS1801-3-7 Item 36

2 Washer ASNA2397-10L Item 39

h Install the cable Item 10.

Refer to Figure 6 , Sheets 2 and Sheet 3

– Install :

1 Cable D0003005501000 Item 10

with :

2 Screw NAS1801-3-7 Item 36

1 Screw NAS1801-3-12 Item 49

2 Screw NAS1801-3-8 Item 37

1 Bolt F2121008920000 Item 12

1 Spacer NSA5527-03-05 Item 46

5 Washer ASNA2397-10L Item 39

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4	Clamp	NSA5516A06NJ	Item 43
1	Clamp	NSA5516A07NJ	Item 44
2	Washer	ASNA2397-416	Item 47
1	Nut	MS21042-4	Item 48

(f) Modify the equipment and the wiring in the rear panel 120VU.

Refer to Figure 11 , Sheets 1 and 2

Refer to Figure 18

Refer to Figure 23

Refer to Kit 211908A02R08

1 Install the circuit breaker 1HE and the related placard 44LM.

Refer to Figure 11 , Sheets 1 and 2

a From the rear C/B panel 122VU, remove :

FIN 44LM

1	Placard	D11311478A00	Item (107) Discard
---	---------	--------------	--------------------

attached with :

4	Button Rivet Plastic		Item (108) Discard
---	-------------------------	--	--------------------

b On the rear C/B panel 122VU, install :

FIN 44LM

1	Placard	D11311898B00	Item 107
---	---------	--------------	----------

with :

4	Button Rivet Plastic	ASNA2080G04	Item 108
---	-------------------------	-------------	----------

or with : Button Rivet Plastic ASNA2080G01

c In the rear C/B panel 122VU, install at the location V23 :

FIN 1HE

1	Circuit Breaker	NSA931320-050	Item 100
---	-----------------	---------------	----------

equipped with :



2	Screw	E0736N08-01	Item 109
2	Washer-Locking	ASNA2553-0401	Item 110

- d Near the circuit breaker, bond the placard 1HE, supplied in :

Placard set D9100095212195

- 2 Modify the wiring in the rear panel 120VU.

Refer to Figure 18

Refer to Figure 23

- a Install the wires as shown on the wiring diagram, Figure 18 , Sheet 1 and as given in the Hook-up Chart lines :

– 1 and 2 (Refer to Figure 23 , Sheet 1) supplied in :

Bundle D9000095220397

- b Attach the wires with :

150	Tie-Cable	NSA935401-03
150	Tie-Cable	NSA935401-04
150	Tie-Cable	NSA935401-05
150	Tie-Cable	NSA935401-08

- (g) Modify the equipment and the wiring between the cockpit and the avionics compartment.

Refer to Figure 10

Refer to Figure 12

Refer to Figure 13 , Sheets 1 and 2

Refer to Figure 19

Refer to Figure 20

Refer to Figure 24

Refer to Kit 211908A02R08

- 1 In the overhead panel 20VU, remove the equipment for access.

Refer to Figure 12

Refer to Figure 13 , Sheets 1 and 2

- a Remove :



FIN 30VU

- 1 Panel Item (127) Discard

FIN 12LF

- 1 Plate 723-4071-03 Item (125) Discard

attached with :

- 5 Screw Item (126) Retain

b Remove and retain the ELEC PNL 35VU, the HYD/FUEL PNL 40VU and the OVERHEAD CTL&IND PNL 48VU.

c Remove the ENG/APU fire panel (1WD) (Refer to AMM 26-12-12 Page block 401).

d Open without disconnect the OVERHEAD C/B PNL 49VU.

- 2 Install the wires as shown on the wiring diagram, Figure 20 , Sheet 1 and as given in the Hook-up Chart lines :

– 1 thru 6 (Refer to Figure 24 , Sheet 1) supplied in :

Bundle D9000095220397

- 3 Attach the wires with :

400	Tie-Cable	NSA935401-03
400	Tie-Cable	NSA935401-04
400	Tie-Cable	NSA935401-05
400	Tie-Cable	NSA935401-08

- 4 With the wires, install :

Refer to Figure 13 , Sheet 1

FIN 2432VC-A

- 1 Connector-Plug EN3646A61626BZ Item 128

FIN 2432VC-A1

- 1 Backshell E0080-01-16C Item 129

- 5 Install the identification plate 2432VC-A supplied in :

Bundle D9000095220397

- 6 In the overhead panel 20VU, install the equipment.

Refer to Figure 12



Refer to Figure 13 , Sheets 1 and 2

a Install :

Refer to Figure 13 , Sheets 1 and 2

FIN 30VU

1 Panel D9550003000197 Item 127

FIN 12LF

1 Placard D33110306C00 Item 125

with :

5 Screw Item (126)

NOTE : Screw, Item (126) was retained at removal.

b Install the ELEC PNL 35VU, the HYD/FUEL PNL 40VU and the OVERHEAD CTL&IND PNL 48VU.

c Install the ENG/APU fire panel (1WD) (Refer to AMM 26-12-12 Page block 401).

d Close the OVERHEAD C/B PNL 49VU.

(h) In the RH side, modify the routing between FR2 and FR3.

Refer to Figure 15 , Sheets 1 and 2

1 Install as shown in section B-B :

1 Mount-Cable E0343-01 Item 116

with :

1 Screw NAS1801-3-9 Item 52

1 Washer NAS1149F0332P Item 130

2 Install as shown in section C-C :

1 Mount-Cable E0343-01 Item 116

with :

1 Screw NAS1801-3-9 Item 52

1 Washer NAS1149F0332P Item 130

3 Remove as shown in section D-D :

1 Mount-Cable Item (119) Discard



with its hardware.

4 Install as shown in section D-D :

2	Mount	NSA935504-01	Item 119
---	-------	--------------	----------

with :

1	Spacer	NSA5527-03-08	Item 120
1	Nut	NSA5050-3	Item 118
1	Screw	NAS1801-3-24	Item 121
1	Washer	NAS1149F0332P	Item 130

5 Install as shown in view A :

1 M	Conduit	E0432A06	Item 115
-----	---------	----------	----------

(i) In the LH side, modify the routing between FR2 and FR3.

Refer to Figure 16 , Sheets 1 and 2

1 Install as shown in section B-B :

1	Mount-Cable	E0343-01	Item 116
---	-------------	----------	----------

with :

1	Screw	NAS1801-3-9	Item 52
1	Washer	NAS1149F0332P	Item 130

2 Install as shown in section C-C :

1	Mount-Cable	E0343-01	Item 116
---	-------------	----------	----------

with :

1	Screw	NAS1801-3-9	Item 52
1	Washer	NAS1149F0332P	Item 130

3 Remove as shown in section D-D :

1	Mount-Cable	Item (119) Discard
---	-------------	--------------------

with its hardware.

4 Install as shown in section D-D :

2	Mount	NSA935504-01	Item 119
---	-------	--------------	----------

with :

1	Spacer	NSA5527-03-08	Item 120
1	Nut	NSA5050-3	Item 118



1	Screw	NAS1801-3-24	Item 121
1	Washer	NAS1149F0332P	Item 130

5 Install as shown in view A :

1 M	Conduit	E0432A06	Item 115
-----	---------	----------	----------

(j) In the avionics compartment, modify the equipment.

Refer to Figure 17

1 Modify the terminal block 1102VT.

a From the position 17, remove (if installed) :

1	Module-False	Retain
---	--------------	--------

or

1	Clamp-End	Retain
---	-----------	--------

b At the position 17, install :

1	Module	NSA937901MA2011	Item 122
---	--------	-----------------	----------

with :

1	Module Identification	NSA937901E1
---	-----------------------	-------------

1	Module Identification	NSA937901E7
---	-----------------------	-------------

c At the position 18, install as required :

1	Module-False
---	--------------

or

1	Clamp-End
---	-----------

NOTE : The false-module or end-clamp were retained at removal.

(k) Modify the wiring between the equipment (FINs 3HE and 4HE) and the avionics compartment.

Refer to Figure 6 , Sheet 5

Refer to Figure 15 , Sheets 1 and 2

Refer to Figure 16 , Sheets 1 and 2

Refer to Figure 21



Refer to Figure 25

1 Install the wires as shown on the wiring diagram, Figure 21 , Sheet 1 and as given in the Hook-up Chart lines :

– 1 thru 13 (Refer to Figure 25 , Sheet 1) supplied in :

Bundle D9000095220397

2 Attach the wires with :

300	Tie-Cable	NSA935401-03
300	Tie-Cable	NSA935401-04
300	Tie-Cable	NSA935401-05
300	Tie-Cable	NSA935401-08

3 In the cockpit, at the end of the wires, install :

Refer to Figure 6 , Sheet 5

FINs 3HE-A and 4HE-A

2 Connector-Plug EN3646A61006BN Item 123

FINs 3HE-A1 and 4HE-A1

2 Backshell E0080-02-10C Item 124

4 Install the identification plates 3HE-A and 4HE-A supplied in :

Bundle D9000095220397

5 In the RH and LH sides, connect the grounding points 203VN, 204VN, 205VN, 206VN, 207VN and 208VN with :

6	Screw	NAS1801-3-8	Item 37
6	Nut	NSA5050-3	Item 118
6	Washer	NAS1149F0332P	Item 130

(1) Modify the wiring in the relay box 103VU.

Refer to Figure 22

Refer to Figure 26

1 Install the wire as shown on the wiring diagram, Figure 22 , Sheet 1 and as given in the Hook-up Chart line :

– 1 (Refer to Figure 26 , Sheet 1) supplied in :

Bundle D9000095220397

2 Attach the wire with :



50	Tie-Cable	NSA935401-03
50	Tie-Cable	NSA935401-04
50	Tie-Cable	NSA935401-05
50	Tie-Cable	NSA935401-08

(m) Install the duct Item (90).

Refer to Figure 1 , Sheet 1

1 Install :

1	Duct	Item (90)	Retain
---	------	-----------	--------

attach with :

1	Clamp	Item (91)	Retain
1	Clamp	Item (92)	Retain
2	Clamp	Item (95)	Retain
1	Sleeve	Item (96)	Retain
2	Clamp	Item (93)	Retain
1	Sleeve	Item (94)	Retain

NOTE : The duct Item (90), the sleeves Item (94) and Item (96) and the clamps Item (91), Item (92), Item (93) and Item (95).

(n) In the cockpit, install the equipment removed for access.

- 1 Install the captain and first officer foot warmers (2DR1, 2DR2, 2DR3 and 2DR4) (Refer to AMM 25-15-51 Page block 401).
- 2 Install the foot rest assembly (Refer to AMM 25-13-14 Page block 401).
- 3 Install the captain and first officer pedals (Refer to AMM 27-21-42 Page block 401).
- 4 Install the captain and first officer seats (3MS and 4MS) (Refer to AMM 25-11-51 Page block 401).

(3) Config. 03

(a) In the cockpit, remove the equipment for access.

Refer to AMM 25-11-51

Refer to AMM 27-21-42

refer to AMM 25-13-14

Refer to AMM 25-15-51



- 1 Remove the captain and first officer seats (3MS and 4MS) (Refer to AMM 25-11-51 Page block 401).
- 2 Remove the captain and first officer pedals (Refer to AMM 27-21-42 Page block 401).
- 3 Remove the foot rest assembly (Refer to AMM 25-13-14 Page block 401).
- 4 Remove the captain and first officer foot warmers (2DR1, 2DR2, 2DR3 and 2DR4) (Refer to AMM 25-15-51 Page block 401).
- 5 Remove the duct Item (90) for access.

Refer to Figure 1 , Sheet 1

a Remove :

1	Duct	Item (90)	Retain
attached with :			
1	Clamp	Item (91)	Retain
1	Clamp	Item (92)	Retain
2	Clamp	Item (95)	Retain
1	Sleeve	Item (96)	Retain
2	Clamp	Item (93)	Retain
1	Sleeve	Item (94)	Retain

- (b) Install the tape adhesive Item 61 on the panel assy at LH side.

Refer to Figure 4 , Sheets 1 and 2

– Install :

1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.

- (c) Install the tape adhesive Item 61 on the panel assy at RH side.

Refer to Figure 4 , Sheets 1 and 2

– Install :

1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.



(d) Install the heater 3HE at LH side.

Refer to Figure 5 , Sheet 1

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 8 , Sheets 1 and 2

Refer to Kit 211908A02R08

1 Replace the cabin floor panel.

Refer to Figure 5 , Sheet 1

a Remove the cabin floor Item (18).

– Disconnect the connector 1025VC for access.

– Remove :

1	Cabin floor	Item (18)	Retain
---	-------------	-----------	--------

attached with :

6	Screw	Item (29)	Retain
---	-------	-----------	--------

b Install the cabin floor Item 18.

– Install :

1	Panel - floor	D5361107200000	Item 18
---	---------------	----------------	---------

with :

6	Screw	Item (29)
---	-------	-----------

NOTE : The screw Item (29) was retained at removal.

– Connect the connector 1025VC already disconnected for access.

2 Install the ducts and the heater 3HE.

Refer to Figure 2 , Sheets 1 and 2

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 8 , Sheets 1 and 2

a Remove the duct Item (74).



Refer to Figure 6 , Sheet 1

– Remove :

- | | | | |
|---|-----------------------|-----------|--------|
| 1 | Duct | Item (74) | Retain |
| | attached with : | | |
| 2 | Clamp | Item (73) | Retain |
| | and | | |
| 1 | Base assy
mounting | Item (83) | Retain |
| 1 | Outlet air | Item (84) | Retain |
| | attached with : | | |
| 4 | Screw | Item (85) | Retain |

b Disconnect the cable Item (80).

Refer to Figure 6 , Sheet 1

– Disconnect :

- | | | | |
|---|-----------------|-----------|---------|
| 1 | Cable | Item (80) | Retain |
| | attached with : | | |
| 1 | Bolt | Item (75) | Retain |
| 1 | Clamp | Item (77) | Retain |
| 1 | Screw | Item (79) | Retain |
| 1 | Washer | Item (78) | Discard |
| 1 | Nut | Item (76) | Discard |

– Attach temporarily the cable Item (80) on the structure with :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

c Install a tie-cable on the flap of the air outlet.

Refer to Figure 2 , Sheets 1 and 2

– Install :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

NOTE : The tie-cable is installed to lock the flap of the air outlet in close position.

d Install the tape-adhesive Item 61 (only on the 2342).



Refer to Figure 2 , Sheets 1 and 2

– Install :

- 1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.

- e Install the brackets Item 54, 55, 20, 22, 23, 7 and 8 on the structure.

Refer to Figure 6 , Sheets 2 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 8 , Sheets 1 and 2

– Install the bracket Item 54 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 54 PN D9251587500000 on the structure as shown on Figure 6, Sheet 2.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

- 1 Bracket D9251587500000 Item 54

with :

- 2 Rivet ASNA2050DCJ3215 Item 56

– Install the bracket Item 55 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 55 PN D9251587600000 on the structure as shown on Figure 6, Sheet 2 on detail C.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

- 1 Bracket D9251587600000 Item 55

with :

- 2 Rivet ASNA2050DCJ3215 Item 56



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- Install the bracket Item 20, Item 22, Item 23 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

- . Temporarily put in position the brackets Item 20 PN D5392514820000, Item 22 PN D5392514920000, Item 23 PN D5391828200000 on the structure as shown on Figure 6, Sheet 3 on detail D.
- . Drill and deburr eight holes on the structure to the dimensions given in Figure 6, Sheet 3 detail D.
- . Install :

1 Bracket D5392514820000 Item 20

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5392514920000 Item 22

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5391828200000 Item 23

with :

2 Rivet ASNA2050DCJ3215 Item 56

- Install the bracket Item 23 between FR2 and FR3 on the under floor.

Refer to Figure 7 , Sheets 1 and 4

- . Temporarily put in position the bracket Item 23 PN D5391828200000 on the structure as shown on Figure 6, Sheet 4 on detail F.
- . Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 4.
- . Install :

1 Bracket D5391828200000 Item 23

with :

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2 Rivet ASNA2050DCJ3215 Item 56

- Install the brackets Item 7, Item 8 and their related shims on the floor panel.

Refer to Figure 6 , Sheets 2 thru 5

. Install :

3	Holder	D2122873020000	Item 7
6	Shim	D2122875620000	Item 11

with :

6	Screw	NAS1801-3-8	Item 37
6	Washer	ASNA2397-10L	Item 39

and

1 Support assy D2122873100000 Item 8

with :

2	Screw	NAS1801-3-6	Item 40
2	Washer	ASNA2397-10L	Item 39

- Install the nut Item 81 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

. Drill and deburr one hole on the cabin floor to the dimensions given in Figure 6, Sheet 3, detail D.

. Temporarily put in position the nut Item 81 PN MS21071L3 on the cabin floor as shown on Figure 6, Sheet 3, detail D.

. Drill and deburr two holes on the cabin floor to the dimensions given in Figure 6, Sheet 3, detail D.

. Install :

1 Nut MS21071L3 Item 81

with :

2 Rivet-Solid ASNA2051DCJ2412 Item 82

- As shown on Figure 5, Sheet 4, detail G, bond the placard HEATER 4HE supplied in

Placard set D9100095212195

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- f Install the grounding points and the placards 203VN, 205VN, 207VN.

Refer to Figure 8 , Sheets 1 and 2

- Drill three holes on the structure to a diameter of 5.2mm (0.204in.) as shown on Figure 8, Sheet 1.
- On the structure, do a stripping to the dimension given in Refer to Figure 7, Sheet 1.
- As shown on Figure 7, Sheet 2, detail A, bond the placards 203VN, 205VN, 207VN, supplied in :

Placard set D9100095212195

- g Install the ducts and the heater 3HE.

Refer to Figure 6 , Sheets 2 thru 5

- Install :

1 Hose ABS1114B020D350 Item 51

with :

1 Clamp ABS0901-035 Item 50

and

1 Tee - Heldded D2122872600000 Item 1

1 Sleeve ASNA3323-203 Item 13

with :

3 Clamp ABS0901-035 Item 50

and

1 Heater RC0200A00 Item 53

1 Valve 3 ways F0003078400000 Item 14

1 Valve D2122872700000 Item 2

with :

4 Screw NAS1801-3-9 Item 52

4 Screw NAS1801-3-7 Item 36

8 Washer ASNA2397-10L Item 39

8 Nut MS21042-3 Item 38

and

1 Hose ABS1114B028D640 Item 35



with :

2	Clamp	ABS0901-045	Item 42
---	-------	-------------	---------

NOTE : Attach the hose Item 35 on the existing duct with Tape Hook and Loop ABS1133A025 and Self Adhesive ABS1133D025 .

and

1	Outlet - blowing	D2122872800000	Item 4
---	------------------	----------------	--------

with :

3	Clamp	ABS0901-050	Item 45
---	-------	-------------	---------

and

2	Cap by pass	D2122872900000	Item 6
---	-------------	----------------	--------

with :

2	Clamp	ABS0901-050	Item 45
---	-------	-------------	---------

and

1	Hose	ABS1114B028D350	Item 34
---	------	-----------------	---------

with :

2	Clamp	ABS0901-045	Item 42
1	Clamp	NSA5516CA54NJ	Item 41
2	Screw	NAS1801-3-7	Item 36
2	Washer	ASNA2397-10L	Item 39

h Install the cable Item 10.

Refer to Figure 6 , Sheets 2 and Sheet 3

– Install :

1	Cable	D0003005501000	Item 10
---	-------	----------------	---------

with :

2	Screw	NAS1801-3-7	Item 36
1	Screw	NAS1801-3-12	Item 49
2	Screw	NAS1801-3-8	Item 37
1	Bolt	F2121008920000	Item 12
1	Spacer	NSA5527-03-05	Item 46
5	Washer	ASNA2397-10L	Item 39
4	Clamp	NSA5516A06NJ	Item 43
1	Clamp	NSA5516A07NJ	Item 44

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2	Washer	ASNA2397-416	Item 47
1	Nut	MS21042-4	Item 48

(e) Install the heater 4HE at RH side.

Refer to Figure 5 , Sheet 1

Refer to Figure 6 , Sheets 1 , thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 9 , Sheets 1 and 2

Refer to Kit 211908A02R08

Refer to Kit 211908A03R03

1 Replace the cabin floors panel.

Refer to Figure 5 , Sheet 1

a Remove the cabin floor Item (19).

– Remove :

1	Cabin floor	Item (19)	Retain
---	-------------	-----------	--------

attached with :

6	Screw	Item (29)	Retain
---	-------	-----------	--------

b Install the cabin floor Item 19.

– Install :

1	Panel - floor	D5361107200100	Item 19
---	---------------	----------------	---------

with :

6	Screw	Item (29)
---	-------	-----------

NOTE : The screw Item (29) was retained at removal.

2 Install the ducts and the heater 4HE.

Refer to Figure 2 , Sheets 1 and 2

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 9 , Sheets 1 and 2

a Remove the duct Item (74).



Refer to Figure 6 , Sheet 1

– Remove :

- | | | | |
|---|-----------------------|-----------|--------|
| 1 | Duct | Item (74) | Retain |
| | attached with : | | |
| 2 | Clamp | Item (73) | Retain |
| | and | | |
| 1 | Base assy
mounting | Item (83) | Retain |
| 1 | Outlet air | Item (84) | Retain |
| | attached with : | | |
| 4 | Screw | Item (85) | Retain |

b Disconnect the cable Item (80).

Refer to Figure 6 , Sheet 1

– Disconnect :

- | | | | |
|---|-----------------|-----------|---------|
| 1 | Cable | Item (80) | Retain |
| | attached with : | | |
| 1 | Bolt | Item (75) | Retain |
| 1 | Clamp | Item (77) | Retain |
| 1 | Screw | Item (79) | Retain |
| 1 | Washer | Item (78) | Discard |
| 1 | Nut | Item (76) | Discard |

– Attach temporarily the cable Item (80) on the structure with :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

c Install a tie-cable on the flap of the air outlet.

Refer to Figure 2 , Sheets 1 and 2

– Install :

- | | | |
|---|-----------|--------------|
| 1 | Tie-Cable | NSA935401-05 |
|---|-----------|--------------|

NOTE : The tie-cable is installed to lock the flap of the air outlet in close position.

d Install the tape-adhesive Item 61 (only on the 2342).



Refer to Figure 2 , Sheets 1 and 2

– Install :

- 1 M Tape-Adhesive ABS5006-2G Item 61

NOTE : The tape-adhesive is installed to close the air outlet.

- e Install the brackets Item 54, 55, 21, 22, 23, 7 and 9 on the structure.

Refer to Figure 6 , Sheets 1 thru 5

Refer to Figure 7 , Sheets 1 thru 4

Refer to Figure 9 , Sheets 1 and 2

– Install the bracket Item 54 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 54 PN D9251587500000 on the structure as shown on Figure 6, Sheet 2 on detail B.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

- 1 Bracket D9251587500000 Item 54

with :

- 2 Rivet ASNA2050DCJ3215 Item 56

– Install the bracket Item 55 on the structure.

Refer to Figure 7 , Sheets 1 and 2

. Temporarily put in position the bracket Item 55 PN D9251587600000 on the structure as shown on Figure 6, Sheet 2 on detail C.

. Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 2.

. Install :

- 1 Bracket D9251587600000 Item 55

with :

- 2 Rivet ASNA2050DCJ3215 Item 56

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- Install the bracket Item 21, Item 22, Item 23 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

- . Temporarily put in position the brackets Item 21 PN D5392514820100, Item 22 PN D5392514920000, Item 23 PN D5391828200000 on the structure as shown on Figure 6, Sheet 3 on detail D.
- . Drill and deburr eight holes on the structure to the dimensions given in Figure 6, Sheet 3.
- . Install :

1 Bracket D5392514820100 Item 21

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5392514920000 Item 22

with :

3 Rivet ASNA2050DCJ3215 Item 56

and

1 Bracket D5391828200000 Item 23

with :

2 Rivet ASNA2050DCJ3215 Item 56

- Install the bracket Item 23 between FR2 and FR3 on the under floor.

Refer to Figure 7 , Sheets 1 and 4

- . Temporarily put in position the bracket Item 23 PN D5391828200000 on the structure as shown on Figure 6, Sheet 4 on detail F.
- . Drill and deburr two holes on the structure to the dimensions given in Figure 6, Sheet 4.
- . Install :

1 Bracket D5391828200000 Item 23

with :

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2 Rivet ASNA2050DCJ3215 Item 56

- Install the brackets Item 7, Item 9 and their related shims on the floor panel.

Refer to Figure 6 , Sheets 2 thru 5

. Install :

2	Holder	D2122873020000	Item 7
1	Holder	D2122878020000	Item 131
3	Shim	D2122875620000	Item 11
3	Shim	D2122875620200	Item 132

with :

6	Screw	NAS1801-3-15	Item 135
6	Washer	ASNA2397-10L	Item 39

and

1	Support assy	D2122873100100	Item 9
1	Shim	D2122875620400	Item 133

with :

2	Screw	NAS1801-3-13	Item 134
2	Washer	ASNA2397-10L	Item 39

- Install the nut Item 81 on the cabin floor.

Refer to Figure 7 , Sheets 1 and 3

. Drill and deburr one hole on the cabin floor to the dimensions given in Figure 6, Sheet 3, detail D.

. Temporarily put in position the nut Item 81 PN MS21071L3 on the cabin floor as shown on Figure 6, Sheet 3, detail D.

. Drill and deburr two holes on the cabin floor to the dimensions given in Figure 6, Sheet 3, detail D.

. Install :

1	Nut	MS21071L3	Item 81
---	-----	-----------	---------

with :

2	Rivet-Solid	ASNA2051DCJ2412	Item 82
---	-------------	-----------------	---------

- As shown on Figure 5, Sheet 4, detail G, bond the placard HEATER 4HE supplied in



Placard set D9100095212195

- f Install the grounding points and the placards 204VN, 206VN, 208VN.

Refer to Figure 9 , Sheets 1 and 2

- Drill three holes on the structure to a diameter of 5.2mm (0.204in.) as shown on Figure 8, Sheet 1.
- On the structure, do a stripping to the dimension given in Figure 8, Sheet 1.
- As shown on Figure 8, Sheet 2, detail A, bond the placards 204VN, 206VN, 208VN, supplied in :

Placard set D9100095212195

- g Install the ducts and the heater 4HE.

Refer to Figure 6 , Sheets 2 thru 5

- Install :

1 Hose ABS1114B020D350 Item 51

with :

1 Clamp ABS0901-035 Item 50

and

1 Tee - Heldded D2122872600000 Item 1

1 Sleeve ASNA3323-203 Item 13

with :

3 Clamp ABS0901-035 Item 50

and

1 Heater RC0200A00 Item 53

1 Valve 3 ways F0003078400100 Item 15

1 Valve D2122872700100 Item 3

with :

4 Screw NAS1801-3-9 Item 52

4 Screw NAS1801-3-7 Item 36

8 Washer ASNA2397-10L Item 39

8 Nut MS21042-3 Item 38

and

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1 Hose ABS1114B028D640 Item 35

with :

2 Clamp ABS0901-045 Item 42

NOTE : Attach the hose Item 35 on the existing duct with Tape Hook and Loop ABS1133A025 and Self Adhesive ABS1133D025 .

and

1 Outlet - blowing D2122872800100 Item 5

with :

3 Clamp ABS0901-050 Item 45

and

2 Cap by pass D2122872900000 Item 6

with :

2 Clamp ABS0901-050 Item 45

and

1 Hose ABS1114B028D350 Item 34

with :

2 Clamp ABS0901-045 Item 42

1 Clamp NSA5516CA54NJ Item 41

2 Screw NAS1801-3-7 Item 36

2 Washer ASNA2397-10L Item 39

h Install the cable Item 10.

Refer to Figure 6 , Sheets 2 and Sheet 3

– Install :

1 Cable D0003005501000 Item 10

with :

2 Screw NAS1801-3-7 Item 36

1 Screw NAS1801-3-12 Item 49

2 Screw NAS1801-3-8 Item 37

1 Bolt F2121008920000 Item 12

1 Spacer NSA5527-03-05 Item 46

5 Washer ASNA2397-10L Item 39

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4	Clamp	NSA5516A06NJ	Item 43
1	Clamp	NSA5516A07NJ	Item 44
2	Washer	ASNA2397-416	Item 47
1	Nut	MS21042-4	Item 48

(f) Modify the equipment and the wiring in the rear panel 120VU.

Refer to Figure 11 , Sheets 1 and 2

Refer to Figure 18

Refer to Figure 23

Refer to Kit 211908A05R01

1 Install the circuit breaker 1HE and the related placard 44LM.

Refer to Figure 11 , Sheets 1 and 2

a From the rear C/B panel 122VU, remove :

FIN 44LM

1	Placard	D11311478A00	Item (107) Discard
---	---------	--------------	--------------------

attached with :

4	Button Rivet Plastic		Item (108) Discard
---	-------------------------	--	--------------------

b On the rear C/B panel 122VU, install :

FIN 44LM

1	Placard	D11311898B00	Item 107
---	---------	--------------	----------

with :

4	Button Rivet Plastic	ASNA2080G04	Item 108
---	-------------------------	-------------	----------

c In the rear C/B panel 122VU, install at the location V23 :

FIN 1HE

1	Circuit Breaker	NSA931320-050	Item 100
---	-----------------	---------------	----------

equipped with :

2	Screw	E0736N08-01	Item 109
2	Washer-Locking	ASNA2553-0401	Item 110



- d Near the circuit breaker, bond the placard 1HE, supplied in :

Placard set D9100095212195

- 2 Modify the wiring in the rear panel 120VU.

Refer to Figure 11 , Sheets 1 and 2

Refer to Figure 18

Refer to Figure 23

- a Install the wires as shown on the wiring diagram, Figure 18 , Sheet 1 and as given in the Hook-up Chart lines :

– 1 and 2 (Refer to Figure 23 Sheet 1) supplied in :

Bundle D9000095220397

- b Attach the wires with :

150	Tie-Cable	NSA935401-03
150	Tie-Cable	NSA935401-04
150	Tie-Cable	NSA935401-05
150	Tie-Cable	NSA935401-08

- (g) Modify the equipment and the wiring between the cockpit and the avionics compartment.

Refer to Figure 10

Refer to Figure 12

Refer to Figure 14 , Sheets 1 and 2

Refer to Figure 19

Refer to Figure 20

Refer to Figure 24

Refer to Kit 211908A05R01

- 1 In the overhead panel 20VU, remove the equipment for access.

Refer to Figure 12

Refer to Figure 14 , Sheets 1 and 2

- a Remove :

FIN 30VU



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- 1 Panel Item (127) Discard
FIN 12LF
- 1 Plate-Integrally 723-4207-01 Item (125) Discard
Lighted
attached with :
- 5 Screw Item (126) Retain
 - b Remove and retain the ELEC PNL 35VU, the HYD/FUEL PNL 40VU and the OVERHEAD CTL&IND PNL 48VU.
 - c Remove the ENG/APU fire panel (1WD) (Refer to AMM 26-12-12 Page block 401).
 - d Open without disconnect the OVERHEAD C/B PNL 49VU.
- 2 Install the wires as shown on the wiring diagram, Figure 20 , Sheets 1 and as given in the Hook-up Chart lines :
– 1 thru 6 (Refer to Figure 24 , Sheet 1) supplied in :
Bundle D9000095220397
- 3 Attach the wires with :

400	Tie-Cable	NSA935401-03
400	Tie-Cable	NSA935401-04
400	Tie-Cable	NSA935401-05
400	Tie-Cable	NSA935401-08
- 4 With the wires, install :
Refer to Figure 14 , Sheets 1 and 2
FIN 2432VC-A
 - 1 Connector-Plug EN3646A61626BZ Item 128
FIN 2432VC-A1
 - 1 Backshell E0080-01-16C Item 129
- 5 Install the identification plate 2432VC-A supplied in :
Bundle D9000095220397
- 6 In the overhead panel 20VU, install the equipment.
Refer to Figure 12

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Refer to Figure 14 , Sheets 1 and 2

a Install :

Refer to Figure 14 , Sheets 1 and 2

FIN 30VU

1 Panel D9550003000295 Item 127

FIN 12LF

1 Placard D33110305B00 Item 125

with :

5 Screw Item (126)

NOTE : Screw, Item (126) was retained at removal.

b Install the ELEC PNL 35VU, the HYD/FUEL PNL 40VU and the OVERHEAD CTL&IND PNL 48VU.

c Install the ENG/APU fire panel (1WD) (Refer to AMM 26-12-12 Page block 401).

d Close the OVERHEAD C/B PNL 49VU.

(h) In the RH side, modify the routing between FR2 and FR3.

Refer to Figure 15 , Sheets 1 and 2

1 Install as shown in section B-B :

1 Mount-Cable E0343-01 Item 116

with :

1 Screw NAS1801-3-9 Item 52

1 Washer NAS1149F0332P Item 130

2 Install as shown in section C-C :

1 Mount-Cable E0343-01 Item 116

with :

1 Screw NAS1801-3-9 Item 52

1 Washer NAS1149F0332P Item 130

3 Remove as shown in section D-D :

1 Mount-Cable Item (119) Discard

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with its hardware.

4 Install as shown in section D-D :

2	Mount	NSA935504-01	Item 119
---	-------	--------------	----------

with :

1	Spacer	NSA5527-03-08	Item 120
1	Nut	NSA5050-3	Item 118
1	Screw	NAS1801-3-24	Item 121
1	Washer	NAS1149F0332P	Item 130

5 Install as shown in view A :

1 M	Conduit	E0432A06	Item 115
-----	---------	----------	----------

(i) In the LH side, modify the routing between FR2 and FR3.

Refer to Figure 16 , Sheets 1 and 2

1 Install as shown in section B-B :

1	Mount-Cable	E0343-01	Item 116
---	-------------	----------	----------

with :

1	Screw	NAS1801-3-9	Item 52
1	Washer	NAS1149F0332P	Item 130

2 Install as shown in section C-C :

1	Mount-Cable	E0343-01	Item 116
---	-------------	----------	----------

with :

1	Screw	NAS1801-3-9	Item 52
1	Washer	NAS1149F0332P	Item 130

3 Remove as shown in section D-D :

1	Mount-Cable	Item (119) Discard
---	-------------	--------------------

with its hardware.

4 Install as shown in section D-D :

2	Mount	NSA935504-01	Item 119
---	-------	--------------	----------

with :

1	Spacer	NSA5527-03-08	Item 120
1	Nut	NSA5050-3	Item 118



1	Screw	NAS1801-3-24	Item 121
1	Washer	NAS1149F0332P	Item 130

5 Install as shown in view A :

1 M	Conduit	E0432A06	Item 115
-----	---------	----------	----------

(j) In the avionics compartment, modify the equipment.

Refer to Figure 17

1 Modify the terminal block 1102VT.

a From the position 17, remove (if installed) :

1	Module-False	Retain
---	--------------	--------

or

1	Clamp-End	Retain
---	-----------	--------

b At the position 17, install :

1	Module	NSA937901MA2011	Item 122
---	--------	-----------------	----------

with :

1	Module Identification	NSA937901E1
---	--------------------------	-------------

1	Module Identification	NSA937901E7
---	--------------------------	-------------

c At the position 18, install as required :

1	Module-False
---	--------------

or

1	Clamp-End
---	-----------

NOTE : The false-module or end-clamp were retained at removal.

(k) Modify the wiring between the equipment (FINs 3HE and 4HE) and the avionics compartment.

Refer to Figure 6 , Sheet 5

Refer to Figure 15 , Sheets 1 and 2

Refer to Figure 16 , Sheets 1 and 2

Refer to Figure 21



Refer to Figure 25

1 Install the wires as shown on the wiring diagram, Figure 21 , Sheets 1 and as given in the Hook-up Chart lines :

– 1 thru 13 (Refer to Figure 25 , Sheet 1) supplied in :

Bundle	D9000095220397
--------	----------------

2 Attach the wires with :

300	Tie-Cable	NSA935401-03
300	Tie-Cable	NSA935401-04
300	Tie-Cable	NSA935401-05
300	Tie-Cable	NSA935401-08

3 In the cockpit, at the end of the wires, install :

Refer to Figure 6 , Sheet 5

FINs 3HE-A and 4HE-A

2	Connector-Plug	EN3646A61006BN	Item 123
---	----------------	----------------	----------

FINs 3HE-A1 and 4HE-A1

2	Backshell	E0080-02-10C	Item 124
---	-----------	--------------	----------

4 Install the identification plates 3HE-A and 4HE-A supplied in :

Bundle	D9000095220397
--------	----------------

5 In the RH and LH sides, connect the grounding points 203VN, 204VN, 205VN, 206VN, 207VN and 208VN with :

6	Screw	NAS1801-3-8	Item 37
6	Nut	NSA5050-3	Item 118
6	Washer	NAS1149F0332P	Item 130

(1) Modify the wiring in the relay box 103VU.

Refer to Figure 22

Refer to Figure 26

1 Install the wires as shown on the wiring diagram, Figure 22 , Sheets 1 and as given in the Hook-up Chart line :

– 1 (Refer to Figure 26 , Sheet 1) supplied in :

Bundle	D9000095220397
--------	----------------

2 Attach the wire with :



50	Tie-Cable	NSA935401-03
50	Tie-Cable	NSA935401-04
50	Tie-Cable	NSA935401-05
50	Tie-Cable	NSA935401-08

(m) In the cockpit, install the equipment removed for access.

- 1 Install the captain and first officer foot warmers (2DR1, 2DR2, 2DR3 and 2DR4) (Refer to AMM 25-15-51 Page block 401).
- 2 Install the foot rest assembly (Refer to AMM 25-13-14 Page block 401).
- 3 Install the captain and first officer pedals (Refer to AMM 27-21-42 Page block 401).
- 4 Install the captain and first officer seats (3MS and 4MS) (Refer to AMM 25-11-51 Page block 401).

(n) Install the duct Item (90).

Refer to Figure 1 , Sheet 1

1 Install :

1	Duct	Item (90)	Retain
---	------	-----------	--------

attach with :

1	Clamp	Item (91)	Retain
1	Clamp	Item (92)	Retain
2	Clamp	Item (95)	Retain
1	Sleeve	Item (96)	Retain
2	Clamp	Item (93)	Retain
1	Sleeve	Item (94)	Retain

NOTE : The duct Item (90), the sleeves Item (94) and Item (96) and the clamps Item (91), Item (92), Item (93) and Item (95).

C. TEST

(1) Config. 01

(a) Remove the safety clips and tags and close these circuit breakers :

PANEL	DESIGNATION	FIN	LOCATION
49VU	LIGHTING/EMER LT/CKPT/DOME	1LE	08 H
122VU	LIGHTING/FLOOD/CTR INST/PNL	2LE	04 Z

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PANEL	DESIGNATION	FIN	LOCATION
122VU	LIGHTING/INSTL LT/MAIN INST/PNL AND/PED	4LF	04 Y
121VU	AIDS & RCDR/FDIMU	5TV	15 K

- (b) Do the tests after removal/installation of the MCDU (3CA1, 3CA2 and 3CA3) (Refer to AMM 22-82-12 Page block 401).
- (c) Do the tests after removal/installation of the RMP (1RG1, 1RG2 and 1RG3) (Refer to AMM 23-13-13 Page block 401).
- (d) Do the tests after removal/installation of the ACP (2RN1, 2RN2, 2RN3, 2RN4 and 2RN5) (Refer to AMM 23-51-12 Page block 401).
- (e) Do the tests after removal/installation of the Weather Radar control unit (3SQ) (Refer to AMM 34-41-12 Page block 401).
- (f) Do the tests after removal/installation of the ATC/TCAS control unit (3SH) (Refer to AMM 34-52-12 Page block 401).
- (g) For the panel 111VU, do an operational test of the general illumination (Refer to AMM 33-12-00 Page block 501),
- (h) Do an operational test of the instrument and panel integral lighting (Refer to AMM 33-13-00 Page block 501)
- (i) Do an operational test of the Cockpit Door Lock System (CDLS) (Refer to AMM 52-51-00 Page block 501).

(2) Config. 02 thru Config. 03

(a) Job set-up :

1 Re-connect the battery :

- For job set-up, refer to the removal/installation of the batteries (Refer to AMM 24-38-51 Page block 401).
- Remove the blanking cap from the electrical connectors.
- Make sure that the electrical connectors are clean and in correct condition.
- Connect the connector of the batteries.
- Turn the knurled nut a quarter turn.

2 Remove all the warning notices.

3 Restore the systems and the aircraft to the normal operating condition.

(b) Preliminary test

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1 Initial conditions :

- a On each connectors that you disconnected, do a visual check as defined by ESPM 20-52-10, to make sure that :
 - The label of the plug is the same as the label on the receptacle.
 - The plug is correctly locked.

2 Preliminary test :

NOTE : If the aircraft is operated in CAT 3 conditions, you must also do this test : land CAT 3 capability test (Refer to AMM 22-97-00 Page block 501).

- a Do an operational test of the instrument and panel integral lighting (Refer to AMM 33-13-00 Page block 501).
- b Do an operational test of the annunciator light test system in the cockpit (Refer to AMM 33-14-00 Page block 501).
- c Do an operational test of the avionics equipment ventilation system (Refer to AMM 21-26-00 Page block 501).
- d Do an operational test of the Automatic Flight System (AFS) (Refer to AMM 22-96-00 Page block 501).
- e Do an operational test of the Electronic Instrument System (EIS) (Refer to AMM 31-60-00 Page block 501).
- f Do an operational test of the Electronic Centralized Aircraft Monitoring (ECAM) (Refer to AMM 31-50-00 Page block 501).
- g Do the ground scanning of the central warning system (Refer to AMM 31-50-00 Page block 501).

(c) Tests after disconnection/connection of the plug 1180VC :

- 1 Do an operational test of the Ground Power Control Unit (GPCU) with the Centralized Fault Display System (CFDS) (Refer to AMM 24-41-00 Page block 501).

(d) Tests after disconnection/connection of the plug 1025VC :

- 1 Do an operational test of the Cockpit Voice Recorder (CVR) and of the CVR channel recording (Refer to AMM 23-71-00 Page block 501).

(e) Tests after disconnection/connection of the plug 1200VC :



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- 1 Do an operational test of the parking brake system (Refer to AMM 32-45-00 Page block 501).
- (f) Tests after disconnection/connection of the plug 2252VC :
 - 1 Do an operational test of the engine fire and overheat detection (Refer to AMM 26-12-00 Page block 501).
- (g) Test after removal/installation of the equipment :
 - 1 Do the test after removal/installation of the captain and first officer seats (Refer to AMM 25-11-51 Page block 401).
 - 2 Do the test after removal/installation of the captain and first officer pedals (Refer to AMM 27-21-42 Page block 401).
 - 3 Do the test after removal/installation of the captain and first officer foot warmer (Refer to AMM 25-15-51 Page block 401).
- (h) Test after removal/installation of the panels :
 - 1 Do the test after removal/installation of the panel 35VU (Refer to AMM 31-10-00 Page block 201).
 - 2 Do the test after removal/installation of the panel 40VU (Refer to AMM 31-10-00 Page block 201).
 - 3 Do the test after removal/installation of the panel 48VU (Refer to AMM 31-10-00 Page block 201).
 - 4 Do the test after removal/installation of the ENG/APU fire panel (Refer to AMM 26-12-12 Page block 401).
- (i) Test after removal/installation of the 30VU panel :
 - 1 Do an operational test of the flow control and indicating system (Refer to AMM 21-51-00 Page block 501).
 - 2 Do an operational test of the flow control valves closing (Refer to AMM 21-51-00 Page block 501).
 - 3 Do an operational test of the ram-air inlet (Refer to AMM 21-55-00 Page block 501).
 - 4 Do a functional test of the cockpit and cabin temperature control without Centralized Fault Display System (CFDS) / Multipurpose Control and Display Unit (MCDU) (Refer to AMM 21-63-00 Page block 501).
 - 5 Do an operational test of the bleed air system (Refer to AMM 36-11-00 Page block 501).

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- 6 Do a functional test of the foot air outlet heater (refer to paragraph C. (2). (h))
- (j) Do a voltage check at pin 2 of each following circuit breakers to make sure that there is 115VAC :
- 122VU : 1HE and 1LC2.
- (k) Do an operational test of the Circuit Breaker Monitoring System (CBMS) (Refer to AMM 31-50-00 Page block 501).
- (l) Functional test of the foot air outlet heater :
- 1 Job set-up :
- a Energize the aircraft electrical circuit (Refer to AMM 24-41-00 Page block 201).
 - b Do the EIS start procedure (System Display (SD) Display Unit (DU) only) (Refer to AMM 31-60-00 Page block 201).
 - c Make sure that this circuit breaker is closed :

PANEL	DESIGNATION	FIN	LOCATION
122VU	CKPT FOOT HTR/SPLY	1HE	V23

- d Start the APU (Refer to AMM 49-00-00 Page block 501).
- e On the AIR COND PNL 30VU :
 - Push the PACK 1 and PACK 2 pushbutton switches (OFF and FAULT legends off),
 - Make sure that the PACK FLOW selector is at NORM,
 - Make sure that the COCKPIT and the CABIN temperature selectors are in the 12 o'clock position.
 - Make sure that the cabin fans operate.
- f Make sure that all the air outlets in the cockpit are open.
- g Make sure that the cockpit door is closed.

2 Procedure :

NOTE : For this test, the cockpit ambient temperature must be between 20 degrees C (68 degrees F) and 28 degrees C (82.40 degrees F).

NOTE : The temperature is shown on the AIR COND page of the SD.

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NOTE : Use a portable thermometer to measure the temperature at the individual air outlet.

- a Check of RH and LH side valve 3 ways closing/opening actuation :
- Turn the CAPT and F/O air outlet actuator to closed position :
 - . On CAPT and F/O foot air outlet, check there is no air flow.
 - Turn the CAPT and F/O air outlet actuator to opened position :
 - . On CAPT and F/O foot air outlet, check there is a constant air flow.
- b When the blown air temperature is stable :
- On the AIR COND PNL 30VU, set the HEATER CAPT selector switch to LO.
- c Measure the blown air temperature at the left foot air-outlet.
- NOTE : Measure the temperature at the outlet.
- NOTE : Make sure that the blown-air stable temperature is 12.5 degrees C (54.5 degrees F) (+/- 7 degrees C) higher than the temperature shown on the AIR COND page of the SD.
- d Set the HEATER CAPT selector switch to HI.
- e Measure the blown air temperature at the LH foot air-outlet.
- NOTE : Measure the temperature at the outlet.
- NOTE : Make sure that the blown-air stable temperature is 25 degrees C (77 degrees F) (+/- 7 degrees C) higher than the temperature shown on the AIR COND page of the SD.
- f Set the HEATER F/O selector switch to LO.
- g Measure the blown air temperature at the RH foot air-outlet.

NOTE : Measure the temperature at the outlet.

NOTE : Make sure that the blown-air stable temperature is 12.5 degrees C (54.5 degrees F) (+/- 7 degrees



C) higher than the temperature shown on the AIR COND page of the SD.

- h Set the HEATER F/O selector switch to HI.
- i Measure the blown air temperature at the right foot air-outlet.

NOTE : Measure the temperature at the outlet.

NOTE : Make sure that the blown-air stable temperature is 25 degrees C (77 degrees F) (+/- 7 degrees C) higher than the temperature shown on the AIR COND page of the SD.

- j Switch off cabin recirculation fans (pushbutton on the 30VU panel) and keep the HEATER CAPT selector switch to HI.

NOTE : Measure the temperature at the outlet.

NOTE : Make sure that the blown-air stable temperature is the same as the value shown on the AIR COND page of the SD (+/- 7 degrees C)

3 Close-up :

- a On the AIR COND PNL 30VU :
 - Release the PACK 1 and the PACK 2 pushbutton switches (OFF legends on).
 - Set the COCKPIT and CABIN temperature selectors to the 12 o'clock position.
 - Set the HEATER CAPT and HEATER F/O selector switches to OFF.
- b Stop the APU (Refer to AMM 49-00-00 Page block 201).
- c Do the EIS stop procedure (Refer to AMM 31-60-00 Page block 201).
- d De-energize the aircraft electrical circuits (Refer to AMM 24-41-00 Page block 201).

D. CLOSE UP

(1) Config. 01

- (a) Do the close-up procedure as specified in the removal/installation of the Multipurpose Control & Display Unit (MCDU) (3CA1,3CA2 and 3CA3) (Refer to AMM 22-82-12 Page block 401).

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- (b) Do the close-up procedure as specified in the removal/installation of the Radio Management Panel (RMP) (1RG1, 1RG2 and 1RG3) (Refer to AMM 23-13-13 Page block 401).
 - (c) Do the close-up procedure as specified in the removal/installation of the Audio Control Panel (ACP) (2RN1, 2RN2, 2RN3, 2RN4 and 2RN5) (Refer to AMM 23-51-12 Page block 401).
 - (d) Do the close-up procedure as specified in the removal/installation of the Air Traffic Control/ Traffic Alert and Collision Avoidance System (ATC/TCAS) control unit (Refer to AMM 34-52-12 Page block 401).
 - (e) Do the close-up procedure as specified in the removal/installation of the Weather Radar control unit (WXR) (Refer to AMM 34-41-12 Page block 401).
- (2) Config. 02 thru Config. 03
- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
 - (b) Install the textile floor covering (Refer to AMM 25-13-44 Page block 401).
 - (c) In the cockpit, install the sidewall and ceiling panels 211BW, 212BW, 211HC, 212FC, 212KC, 212JW and 212HW (Refer to AMM 06-41-53 Page block 001).
 - (d) Install panel Item 141 on the left side of the panel 120VU (Refer to Figure 11 Sheet 1).
 - (e) Close the access doors 811 and 822 (Refer to AMM 52-41-00 Page block 001).
 - (f) Remove the access platform(s).
 - (g) Restore the systems and the aircraft to normal operating conditions.

E. DOCUMENTATION

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

F. EVALUATION

The evaluation period must be done for six months.

G. RESTORATION OF AIRCRAFT TO ITS ORIGINAL CONDITION

- (1) Config. 01 (Only for aircraft MSN 2342)



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- (a) After the evaluation period, put the aircraft back to the initial configuration.

1 Preparation :

- a Do the preparation procedure as specified in the removal/installation of the Multipurpose Control & Display Unit (MCDU) (3CA1, 3CA2 and 3CA3) (Refer to AMM 22-82-12 Page block 401).
- b Do the preparation procedure as specified in the removal/installation of the Radio Management Panel (RMP) (1RG1, 1RG2 and 1RG3) (Refer to AMM 23-13-13 Page block 401).
- c Do the preparation procedure as specified in the removal/installation of the Audio Control Panel (ACP) (2RN1, 2RN2, 2RN3, 2RN4 and 2RN5) (Refer to AMM 23-51-12 Page block 401).
- d Do the preparation procedure as specified in the removal/installation of the Weather Radar control unit (WXR) (3SQ) (Refer to AMM 34-41-12 Page block 401).
- e Do the preparation procedure as specified in the removal/installation of the Air Traffic Control/ Traffic Alert and Collision Avoidance System (ATC/TCAS) control unit (3SH) (Refer to AMM 34-52-12 Page block 401).
- f Open, safety and tag these circuit breakers :

PANEL	DESIGNATION	FIN	LOCATION
49VU	LIGHTING/EMER LT/CKPT/DOME	1LE	08 H
122VU	LIGHTING/FLOOD/CTR INST/PNL	2LE	04 Z
122VU	LIGHTING/INSTL LT/MAIN INST/PNL AND/PED	4LF	04 Y
121VU	AIDS & RCDR/FDIMU	5TV	15 K

2 Modification :

- a Replace the panels modified at LH side in paragraph 3. B. (1) (a).
- b Replace the panels modified at RH side in paragraph 3. B. (1) (b).
- c Replace the panels assy modified at LH side in paragraph 3. B. (1) (c).
- d Replace the panels assy modified at RH side in paragraph 3. B. (1) (d).

(2) Config. 02

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- (a) After the evaluation period, put the aircraft back to the initial configuration.

1 Preparation :

- a Make sure that the aircraft is electrically grounded (Refer to AMM 12-34-24 Page block 201).
- b Put the access platform(s) in position.
- c Open the access doors 811 and 822 (Refer to AMM 52-41-00 Page block 001).
- d In the cockpit, remove the sidewall and ceiling panels 211BW, 212BW, 211HC, 212FC, 212KC, 212JW and 212HW (Refer to AMM 06-41-53 Page block 001).
- e Remove the panel Item (141) on the left of panel 120VU (Refer to Figure 11 Sheet 1) for access.
- f Remove the textile floor covering (Refer to AMM 25-13-44 Page block 401).
- g Make sure that the external connector(s) is (are) not connected to the aircraft receptacle(s) EXT PW.
- h Make sure that there is (are) warning notice(s) on external power receptacle to tell persons not to connect an external power source.
- i Make sure that the EMER EXIT LT pushbutton switch on 25VU is on OFF position.
- j In the cockpit, on the overhead panel 35VU release BAT pushbutton switches.
- k Put a warning notice on refuel/defuel panel 800VU to tell persons not to operate the NORMAL BATTERY switch.
- l Put a warning notice in the cockpit to tell persons not to start the Auxiliary Power Unit (APU).
- m Put a warning notice in the cockpit to tell persons not to start the ENG 1, 2.
- n Battery disconnection :
 - For job set-up, refer to the removal/installation of the batteries (Refer to AMM 24-38-51 Page block 401).
 - Turn the knurled nut a quarter turn.
 - Disconnect the connectors.



- Put blanking caps on the disconnected electrical connectors.

2 Modification :

a In the cockpit, remove the equipment for access as described in paragraph 3. B. (2) (a).

b Remove the heater 3HE at LH side as described in paragraph 3. B. (2) (b).

NOTE : After the removal of the brackets, install rivets ASNA2050DCJ3215 and Rivet ASNA2051DCJ2412 in the empty holes.

NOTE : After the removal of the grounding points, install rivets ASNA2050DCJ4828 in the empty holes.

c Remove the heater 4HE at RH side as described in paragraph 3. B. (2) (c).

NOTE : After the removal of the brackets, install rivets ASNA2050DCJ3215 and Rivet ASNA2051DCJ2412 in the empty holes.

NOTE : After the removal of the grounding points, install rivets ASNA2050DCJ4828 in the empty holes.

d Remove the circuit breaker and the wires in the 120VU installed in paragraph 3. B. (2) (d).

e Modify the equipment and remove the wires between the cockpit and the avionics compartment installed in paragraph 3. B. (2) (e).

f In the RH side, remove the mounts between FR2 and FR3 installed in paragraph 3. B. (2) (f).

g In the LH side, remove the mounts between FR2 and FR3 installed in paragraph 3. B. (2) (g).

h In the avionics compartment, remove the module installed in paragraph 3. B. (2) (h).

i Remove the wires and connectors between the equipment (FINs 3HE and 4HE) and the avionics compartment installed in paragraph 3. B. (2) (i).

j Remove the wire installed in paragraph 3. B. (2) (j).

k In the cockpit, install the equipment removed for access as described in paragraph 3. B. (2) (k).



(3) Config. 03

- (a) After the evaluation period, put the aircraft back to the initial configuration.

1 Preparation :

- a Make sure that the aircraft is electrically grounded (Refer to AMM 12-34-24 Page block 201).
- b Put the access platform(s) in position.
- c Open the access doors 811 and 822 (Refer to AMM 52-41-00 Page block 001).
- d In the cockpit, remove the sidewall and ceiling panels 211BW, 212BW, 211HC, 212FC, 212KC, 212JW and 212HW (Refer to AMM 06-41-53 Page block 001).
- e Remove the panel Item (141) on the left of panel 120VU (Refer to Figure 11 Sheet 1) for access.
- f Remove the textile floor covering (Refer to AMM 25-13-44 Page block 401).
- g Make sure that the external connector(s) is (are) not connected to the aircraft receptacle(s) EXT PW.
- h Make sure that there is (are) warning notice(s) on external power receptacle to tell persons not to connect an external power source.
- i Make sure that the EMER EXIT LT pushbutton switch on 25VU is on OFF position.
- j In the cockpit, on the overhead panel 35VU release BAT pushbutton switches.
- k Put a warning notice on refuel/defuel panel 800VU to tell persons not to operate the NORMAL BATTERY switch.
- l Put a warning notice in the cockpit to tell persons not to start the Auxiliary Power Unit (APU).
- m Put a warning notice in the cockpit to tell persons not to start the ENG 1, 2.
- n Battery disconnection :
 - For job set-up, refer to the removal/installation of the batteries (Refer to AMM 24-38-51 Page block 401).
 - Turn the knurled nut a quarter turn.
 - Disconnect the connectors.



- Put blanking caps on the disconnected electrical connectors.

2 Modification :

a In the cockpit, remove the equipment for access as described in paragraph 3. B. (3) (a).

b Remove the heater 3HE at LH side as described in paragraph 3. B. (3) (b).

NOTE : After the removal of the brackets, install rivets ASNA2050DCJ3215 and Rivet ASNA2051DCJ2412 in the empty holes.

NOTE : After the removal of the grounding points, install rivets ASNA2050DCJ4828 in the empty holes.

c Remove the heater 4HE at RH side as described in paragraph 3. B. (3) (c).

NOTE : After the removal of the brackets, install rivets ASNA2050DCJ3215 and Rivet ASNA2051DCJ2412 in the empty holes.

NOTE : After the removal of the grounding points, install rivets ASNA2050DCJ4828 in the empty holes.

d Remove the circuit breaker and the wires in the 120VU installed in paragraph 3. B. (3) (d).

e Modify the equipment and remove the wires between the cockpit and the avionics compartment installed in paragraph 3. B. (3) (e).

f In the RH side, remove the mounts between FR2 and FR3 installed in paragraph 3. B. (3) (f).

g In the LH side, remove the mounts between FR2 and FR3 installed in paragraph 3. B. (3) (g).

h In the avionics compartment, remove the module installed in paragraph 3. B. (3) (h).

i Remove the wires and connectors between the equipment (FINs 3HE and 4HE) and the avionics compartment installed in paragraph 3. B. (3) (i).

j Remove the wire installed in paragraph 3. B. (3) (j).

k In the cockpit, install the equipment removed for access as described in paragraph 3. B. (3) (k).



H. TEST

(1) Config. 01

- (a) Remove the safety clips and tags and close these circuit breakers :

PANEL	DESIGNATION	FIN	LOCATION
49VU	LIGHTING/EMER LT/CKPT/DOME	1LE	08 H
122VU	LIGHTING/FLOOD/CTR INST/PNL	2LE	04 Z
122VU	LIGHTING/INSTL LT/MAIN INST/PNL AND/PED	4LF	04 Y
121VU	AIDS & RCDR/FDIMU	5TV	15 K

- (b) Do the tests after removal/installation of the MCDU (3CA1, 3CA2 and 3CA3) (Refer to AMM 22-82-12 Page block 401).
- (c) Do the tests after removal/installation of the RMP (1RG1, 1RG2 and 1RG3) (Refer to AMM 23-13-13 Page block 401).
- (d) Do the tests after removal/installation of the ACP (2RN1, 2RN2, 2RN3, 2RN4 and 2RN5) (Refer to AMM 23-51-12 Page block 401).
- (e) Do the tests after removal/installation of the Weather Radar control unit (3SQ) (Refer to AMM 34-41-12 Page block 401).
- (f) Do the tests after removal/installation of the ATC/TCAS control unit (3SH) (Refer to AMM 34-52-12 Page block 401).
- (g) For the panel 111VU, do an operational test of the general illumination (Refer to AMM 33-12-00 Page block 501),
- (h) Do an operational test of the instrument and panel integral lighting (Refer to AMM 33-13-00 Page block 501)
- (i) Do an operational test of the Cockpit Door Lock System (CDLS) (Refer to AMM 52-51-00 Page block 501).

(2) Config. 02 thru Config. 03

- (a) Job set-up :

1 Re-connect the battery :

- For job set-up, refer to the removal/installation of the batteries (Refer to AMM 24-38-51 Page block 401).
- Remove the blanking cap from the electrical connectors.
- Make sure that the electrical connectors are clean and in correct condition.



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- Connect the connector of the batteries.
- Turn the knurled nut a quarter turn.

2 Remove all the warning notices.

3 Restore the systems and the aircraft to the normal operating condition.

(b) Preliminary test

1 Initial conditions :

- a On each connectors that you disconnected, do a visual check as defined by ESPM 20-52-10, to make sure that :
- The label of the plug is the same as the label on the receptacle.
 - The plug is correctly locked.

2 Preliminary test :

NOTE : If the aircraft is operated in CAT 3 conditions, you must also do this test : land CAT 3 capability test (Refer to AMM 22-97-00 Page block 501).

- a Do an operational test of the instrument and panel integral lighting (Refer to AMM 33-13-00 Page block 501).
- b Do an operational test of the annunciator light test system in the cockpit (Refer to AMM 33-14-00 Page block 501).
- c Do an operational test of the avionics equipment ventilation system (Refer to AMM 21-26-00 Page block 501).
- d Do an operational test of the Automatic Flight System (AFS) (Refer to AMM 22-96-00 Page block 501).
- e Do an operational test of the Electronic Instrument System (EIS) (Refer to AMM 31-60-00 Page block 501).
- f Do an operational test of the Electronic Centralized Aircraft Monitoring (ECAM) (Refer to AMM 31-50-00 Page block 501).
- g Do the ground scanning of the central warning system (Refer to AMM 31-50-00 Page block 501).

(c) Tests after disconnection/connection of the plug 1180VC :

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- 1 Do an operational test of the Ground Power Control Unit (GPCU) with the Centralized Fault Display System (CFDS) (Refer to AMM 24-41-00 Page block 501).
- (d) Tests after disconnection/connection of the plug 1025VC :
- 1 Do an operational test of the Cockpit Voice Recorder (CVR) and of the CVR channel recording (Refer to AMM 23-71-00 Page block 501).
- (e) Tests after disconnection/connection of the plug 1200VC :
- 1 Do an operational test of the parking brake system (Refer to AMM 32-45-00 Page block 501).
- (f) Tests after disconnection/connection of the plug 2252VC :
- 1 Do an operational test of the engine fire and overheat detection (Refer to AMM 26-12-00 Page block 501).
- (g) Test after removal/installation of the equipment :
- 1 Do the test after removal/installation of the captain and first officer seats (Refer to AMM 25-11-51 Page block 401).
 - 2 Do the test after removal/installation of the captain and first officer pedals (Refer to AMM 27-21-42 Page block 401).
 - 3 Do the test after removal/installation of the captain and first officer foot warmer (Refer to AMM 25-15-51 Page block 401).
- (h) Test after removal/installation of the panels :
- 1 Do the test after removal/installation of the panel 35VU (Refer to AMM 31-10-00 Page block 201).
 - 2 Do the test after removal/installation of the panel 40VU (Refer to AMM 31-10-00 Page block 201).
 - 3 Do the test after removal/installation of the panel 48VU (Refer to AMM 31-10-00 Page block 201).
 - 4 Do the test after removal/installation of the ENG/APU fire panel (Refer to AMM 26-12-12 Page block 401).
- (i) Test after removal/installation of the 30VU panel :
- 1 Do an operational test of the flow control and indicating system (Refer to AMM 21-51-00 Page block 501).
 - 2 Do an operational test of the flow control valves closing (Refer to AMM 21-51-00 Page block 501).



- 3 Do an operational test of the ram-air inlet (Refer to AMM 21-55-00 Page block 501).
- 4 Do a functional test of the cockpit and cabin temperature control without Centralized Fault Display System (CFDS) / Multipurpose Control and Display Unit (MCDU) (Refer to AMM 21-63-00 Page block 501).
- 5 Do an operational test of the bleed air system (Refer to AMM 36-11-00 Page block 501).
- (j) Do a voltage check at pin 2 of each following circuit breakers to make sure that there is 115VAC :
 - 122VU : 1LC2.
- (k) Do an operational test of the Circuit Breaker Monitoring System (CBMS) (Refer to AMM 31-50-00 Page block 501).

I. CLOSE UP

(1) Config. 01

- (a) Do the close-up procedure as specified in the removal/installation of the Multipurpose Control & Display Unit (MCDU) (3CA1, 3CA2 and 3CA3) (Refer to AMM 22-82-12 Page block 401).
- (b) Do the close-up procedure as specified in the removal/installation of the Radio Management Panel (RMP) (1RG1, 1RG2 and 1RG3) (Refer to AMM 23-13-13 Page block 401).
- (c) Do the close-up procedure as specified in the removal/installation of the Audio Control Panel (ACP) (2RN1, 2RN2, 2RN3, 2RN4 and 2RN5) (Refer to AMM 23-51-12 Page block 401).
- (d) Do the close-up procedure as specified in the removal/installation of the Air Traffic Control/ Traffic Alert and Collision Avoidance System (ATC/TCAS) control unit (Refer to AMM 34-52-12 Page block 401).
- (e) Do the close-up procedure as specified in the removal/installation of the Weather Radar control unit (WXR) (Refer to AMM 34-41-12 Page block 401).

(2) Config. 02 thru Config. 03

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Install the textile floor covering (Refer to AMM 25-13-44 Page block 401).



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- (c) In the cockpit, install the sidewall and ceiling panels 211BW, 212BW, 211HC, 212FC, 212KC, 212JW and 212HW (Refer to AMM 06-41-53 Page block 001).
- (d) Install the panel Item (141) on the left of the panel 120VU (Refer to Figure 11 Sheet 1) for access.
- (e) Close the access doors 811 and 822 (Refer to AMM 52-41-00 Page block 001).
- (f) Remove the access platform(s).
- (g) Restore the systems and the aircraft to normal operating conditions.

J. DOCUMENTATION

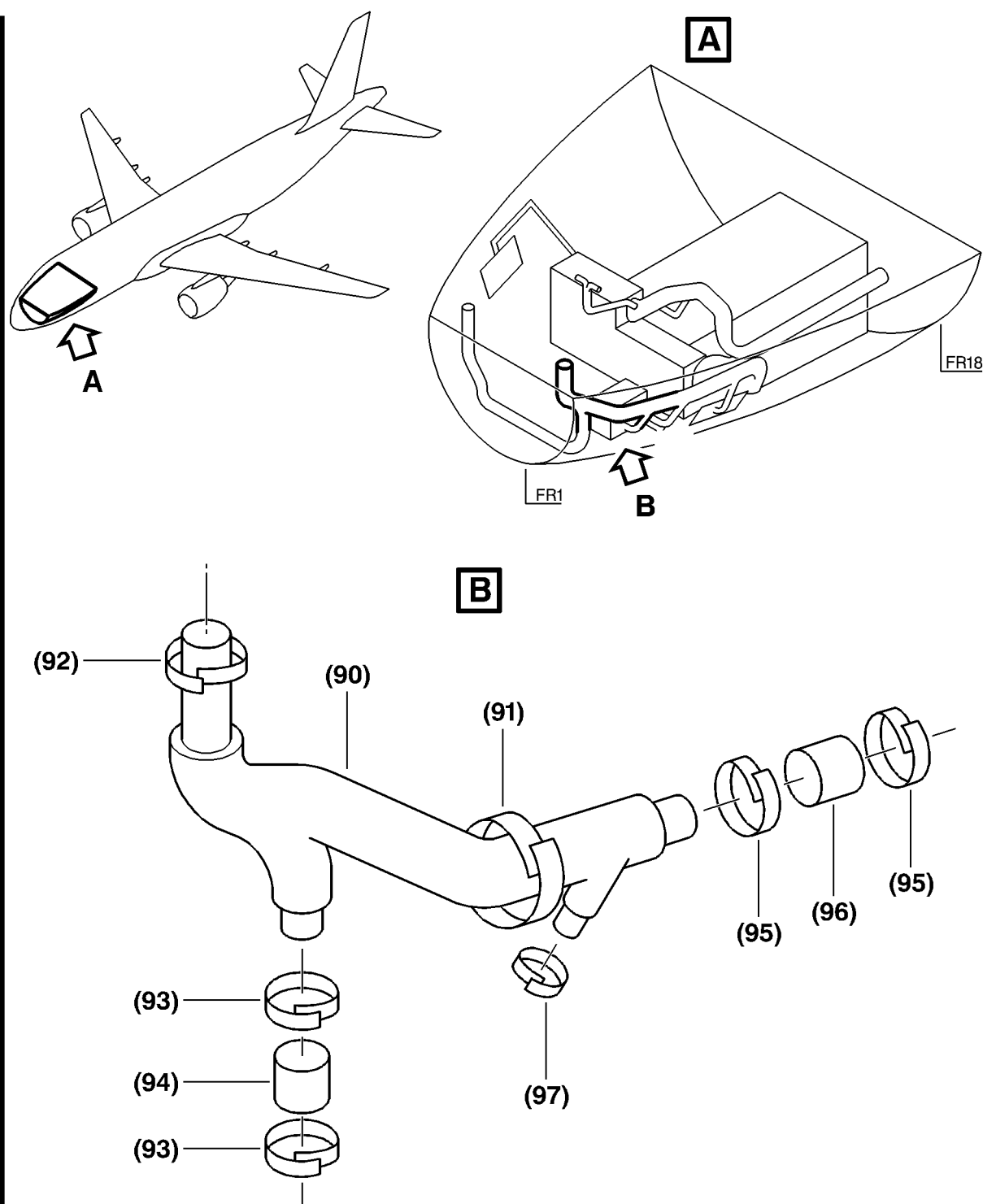
Write in the applicable aircraft records that you have done all the work given in the Service Bulletin.

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Figure 1 Sheet 1
Config. 01 thru 03 : Removal of the Duct for Access.

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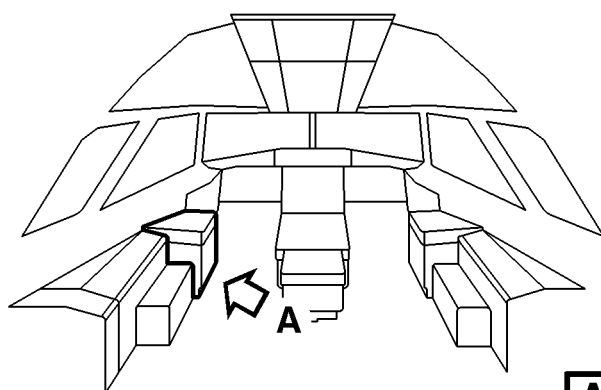
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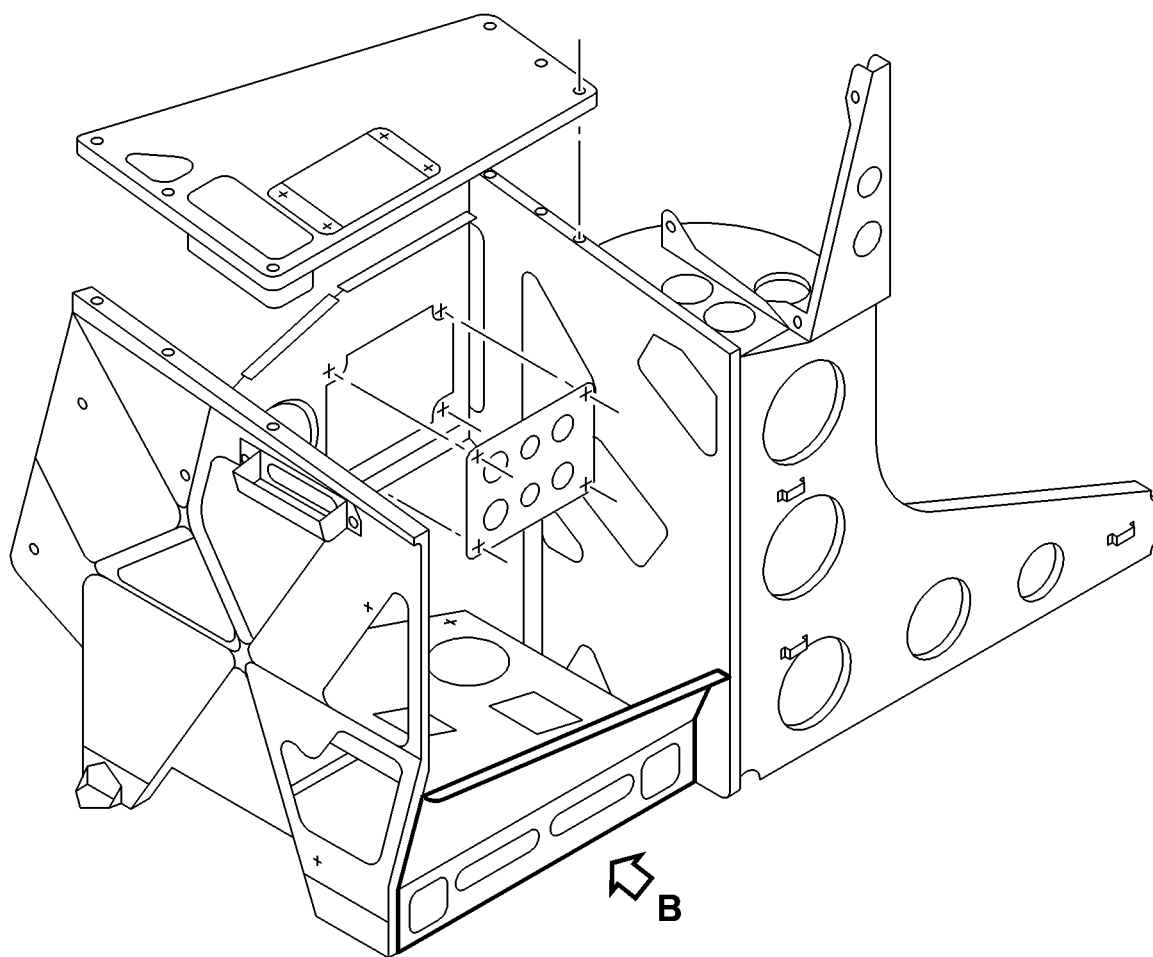
A318/A319/A320/A321

SERVICE BULLETIN



A

LH SIDE SHOWN
RH SIDE SYMMETRICAL



NSB5 211908 CA 00 d

Figure 2 Sheet 1
Config. 02 thru 03 : Installation of the Seal

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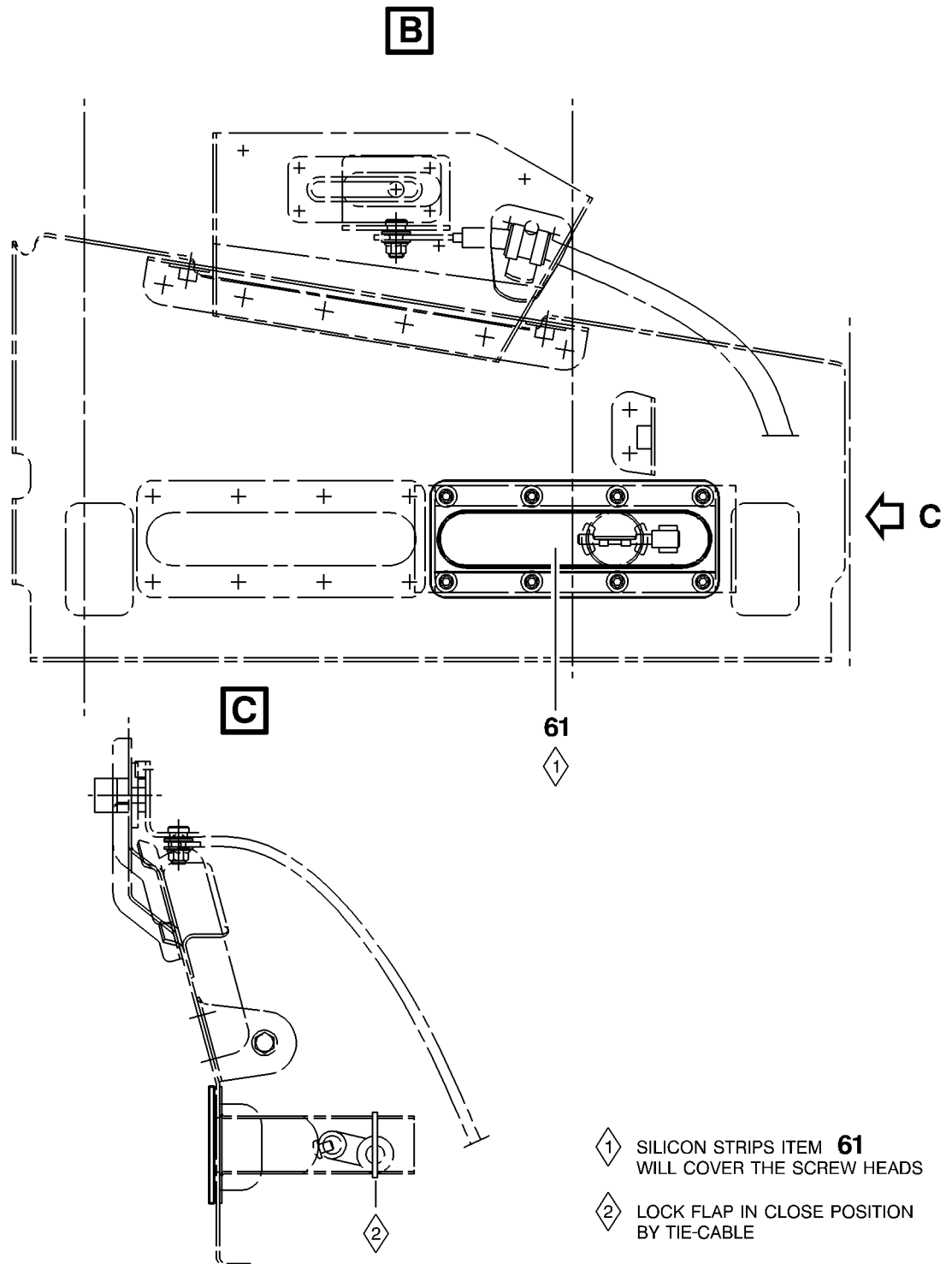


Figure 2 Sheet 2
Config. 02 thru 03 : Installation of the Seal

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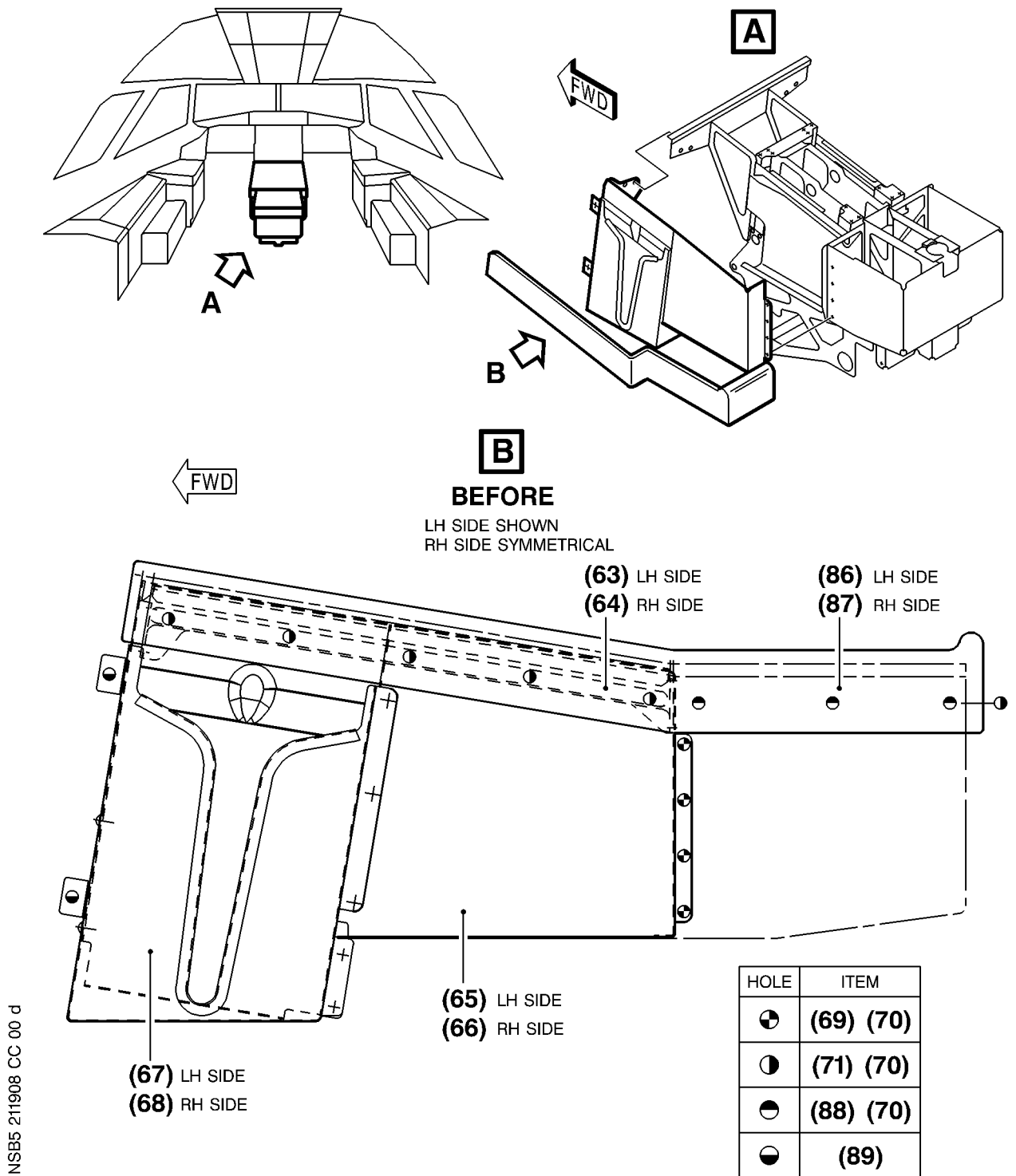
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Figure 3 Sheet 1
Config. 01 : Replacement of the Pylon Panels

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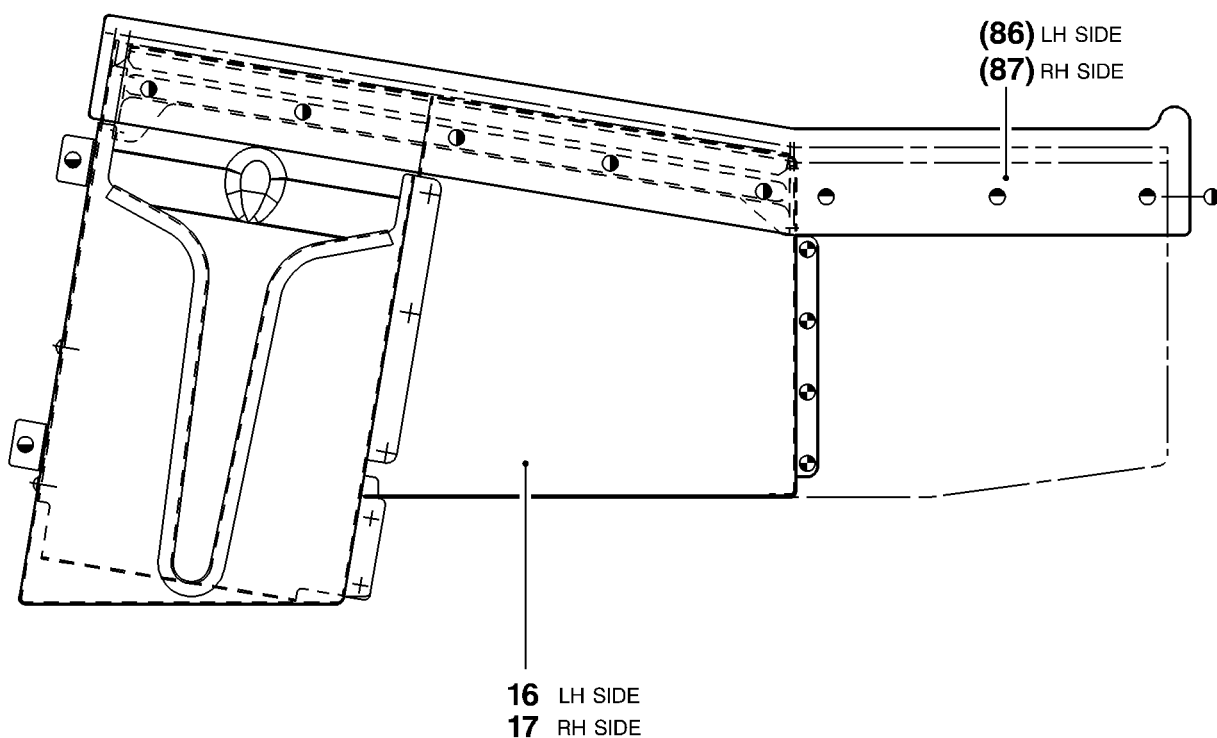
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SERVICE BULLETIN

A

AFTER

LH SIDE SHOWN
RH SIDE SYMMETRICAL



HOLE	ITEM
	(69) 70
	(71) 70
	(88) 70
	(89)

NSB5 211908 CD 00 d

Figure 3 Sheet 2
Config. 01 : Replacement of the Pylon Panels

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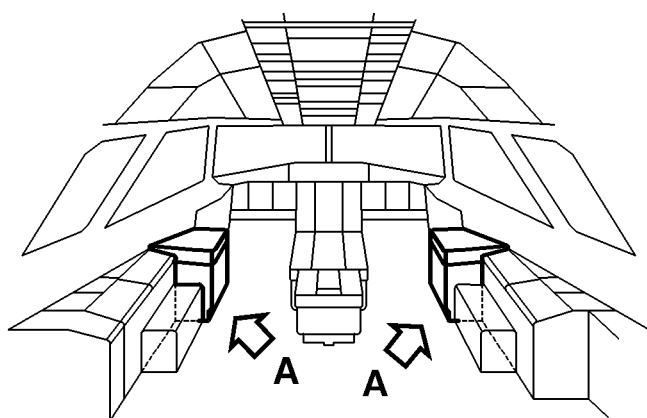
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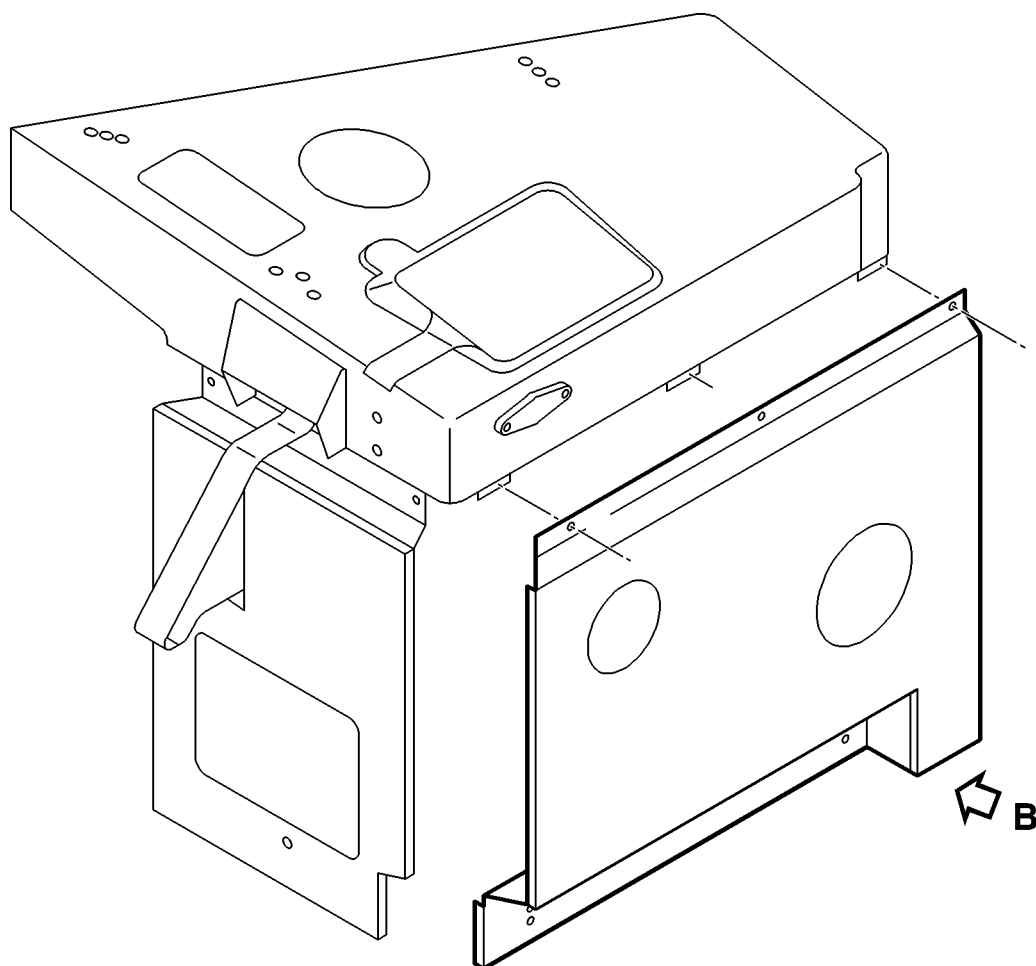


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SERVICE BULLETIN



LH SIDE SHOWN
RH SIDE SYMMETRICAL



NB5 21 1908 ACMA-A

Figure 4 Sheet 1
Config. 02 thru 03 : Installation of the Seal on the Panels Assy

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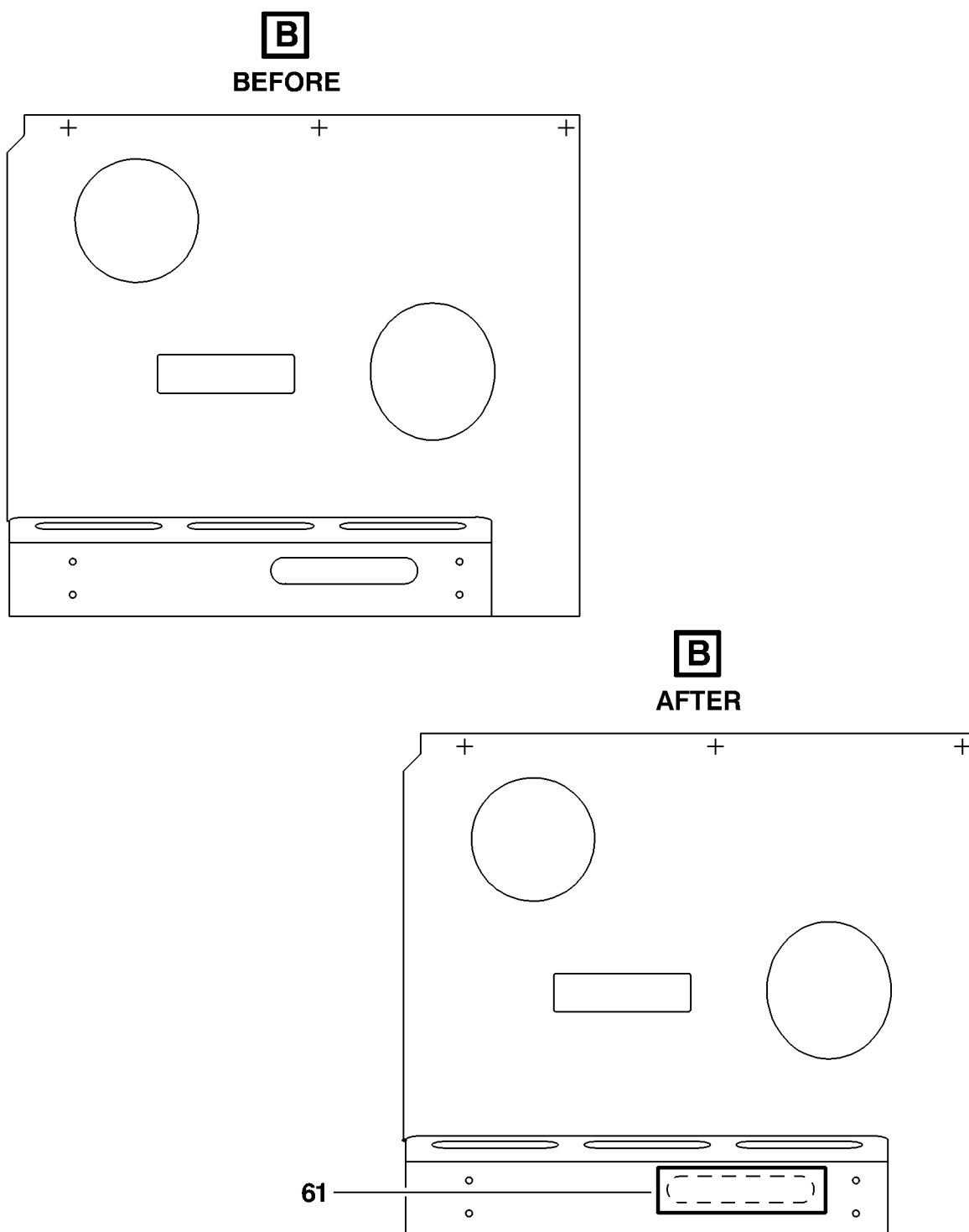


Figure 4 Sheet 2
Config. 02 thru 03 : Installation of the Seal on the Panels Assy

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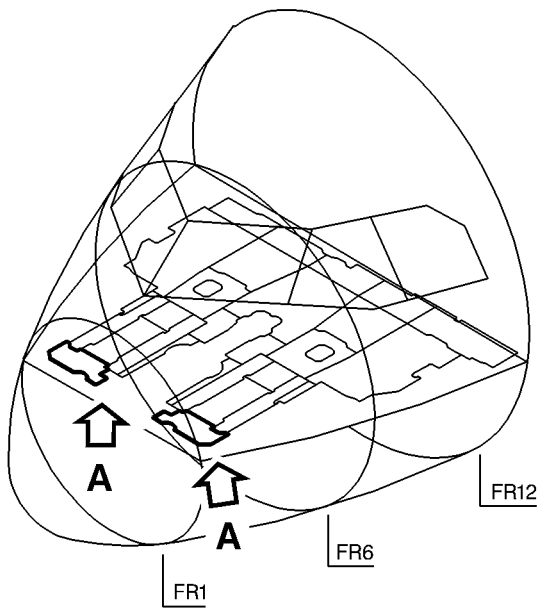
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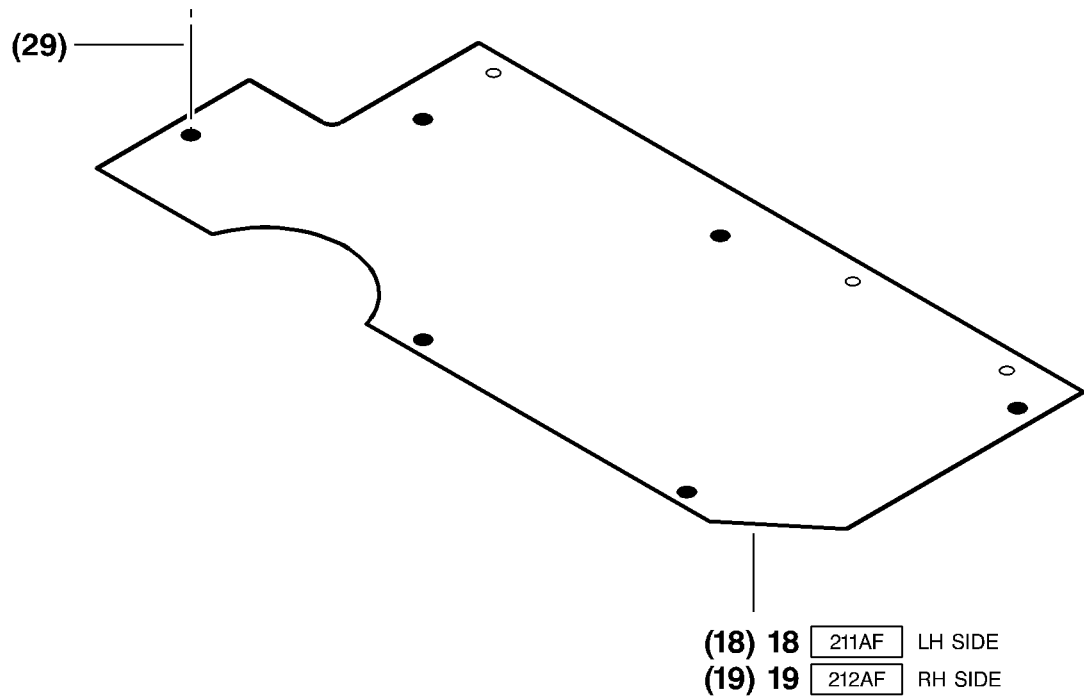


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LH SIDE SHOWN
RH SIDE SYMMETRICAL



NSB5 211908 AE 00 d

Figure 5 Sheet 1
Config. 02 thru 03 : Replacement of the Cabin Floors

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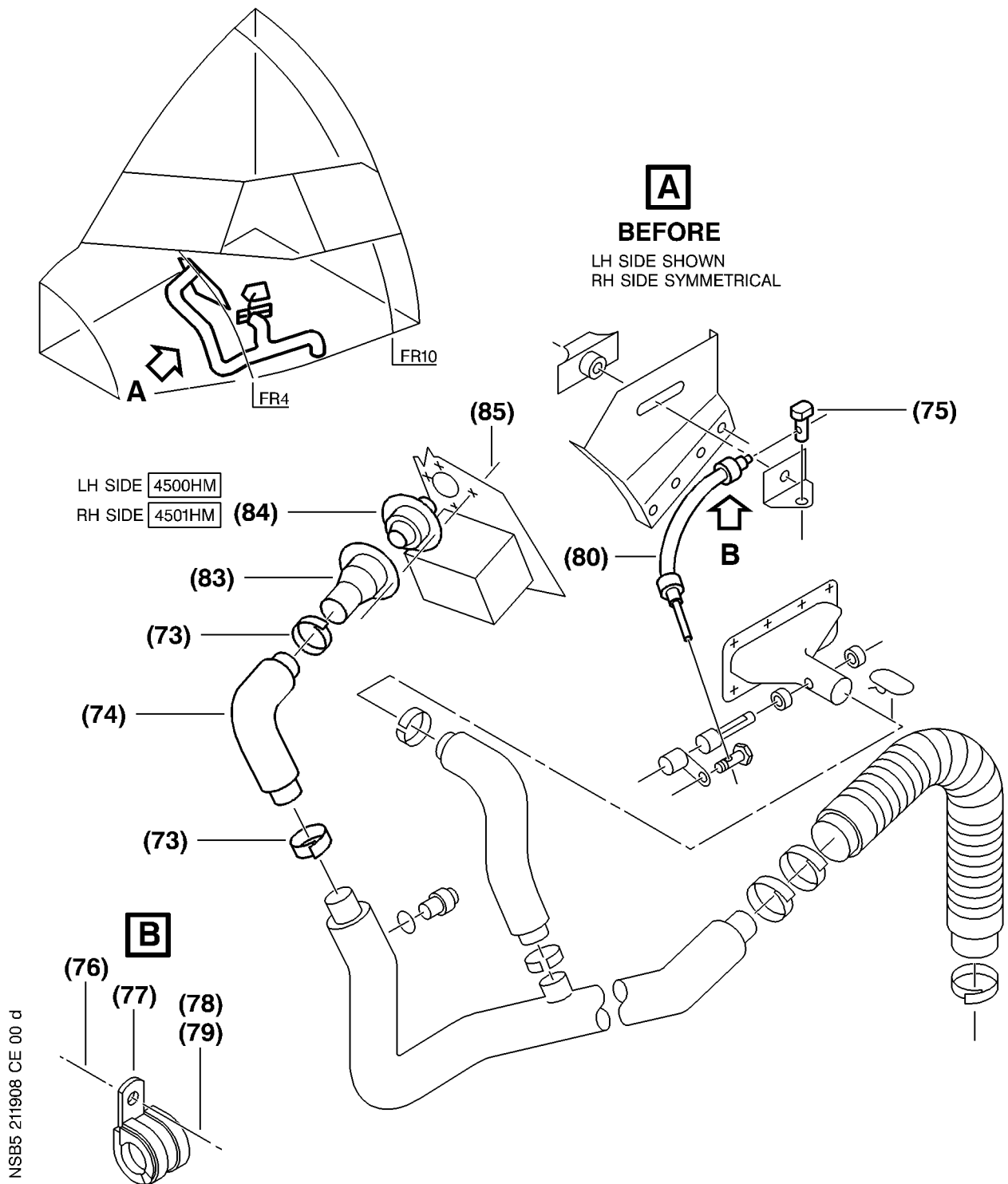


Figure 6 Sheet 1

Config. 02 thru 03 : Installation of the Ducts and the Heaters 3HE and 4HE

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Figure 6 Sheet 2 (Goto A3 section)
Config. 02 thru 03 : Installation of the Ducts and the Heaters 3HE and 4HE

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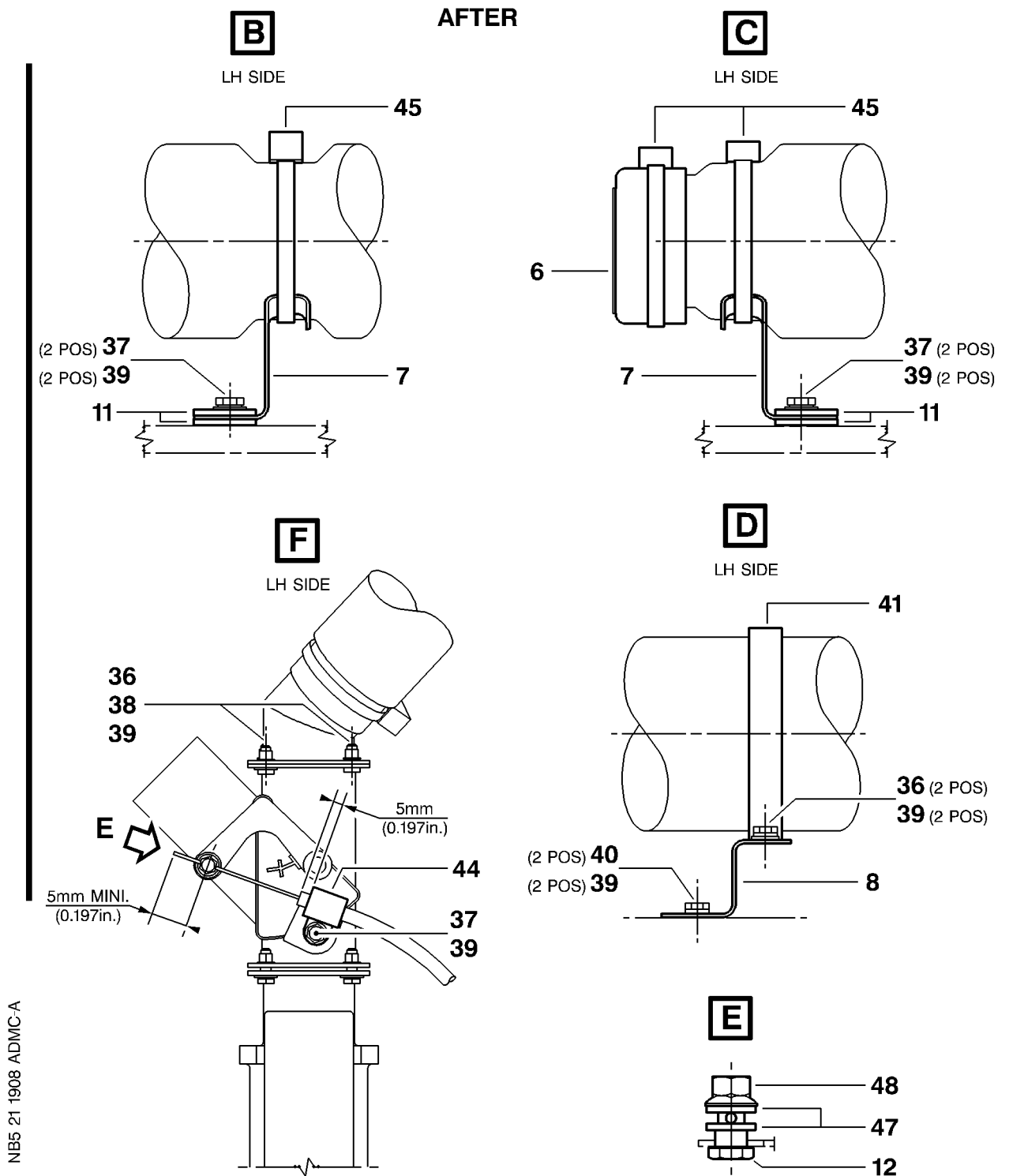


Figure 6 Sheet 3
Config. 02 thru 03 : Installation of the Ducts and the Heaters 3HE and 4HE

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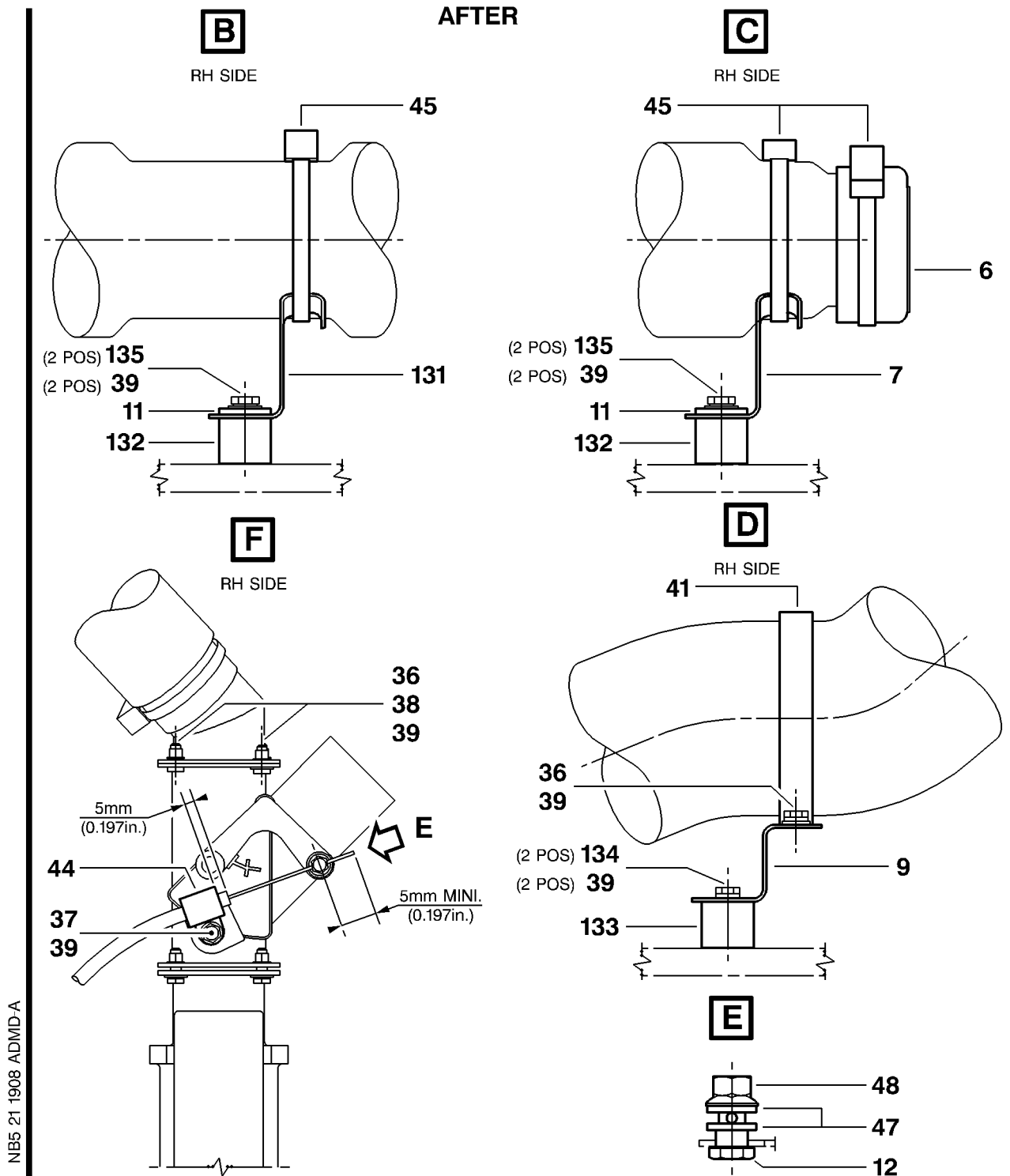


Figure 6 Sheet 4
Config. 02 thru 03 : Installation of the Ducts and the Heaters 3HE and 4HE

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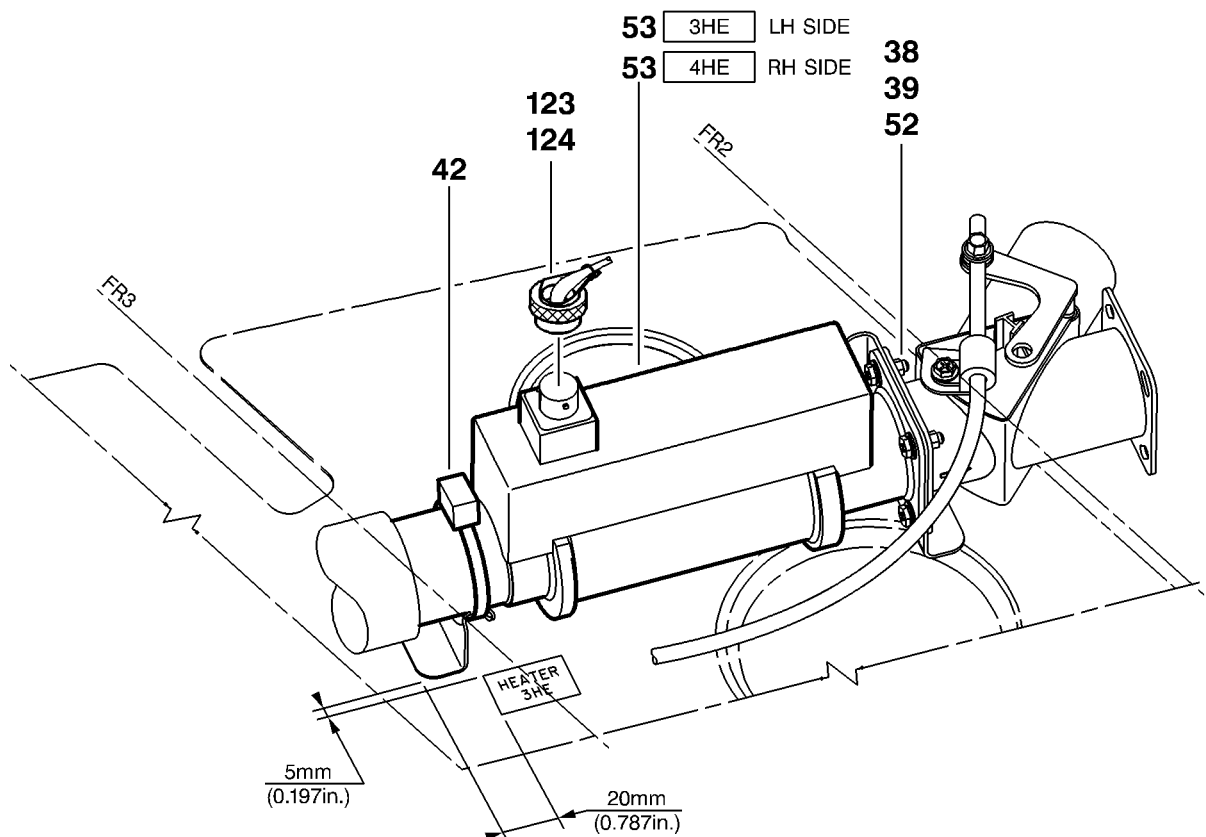


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SERVICE BULLETIN



LH SIDE SHOWN
RH SIDE SYMMETRICAL



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Figure 6 Sheet 5

Config. 02 thru 03 : Installation of the Ducts and the Heaters 3HE and 4HE

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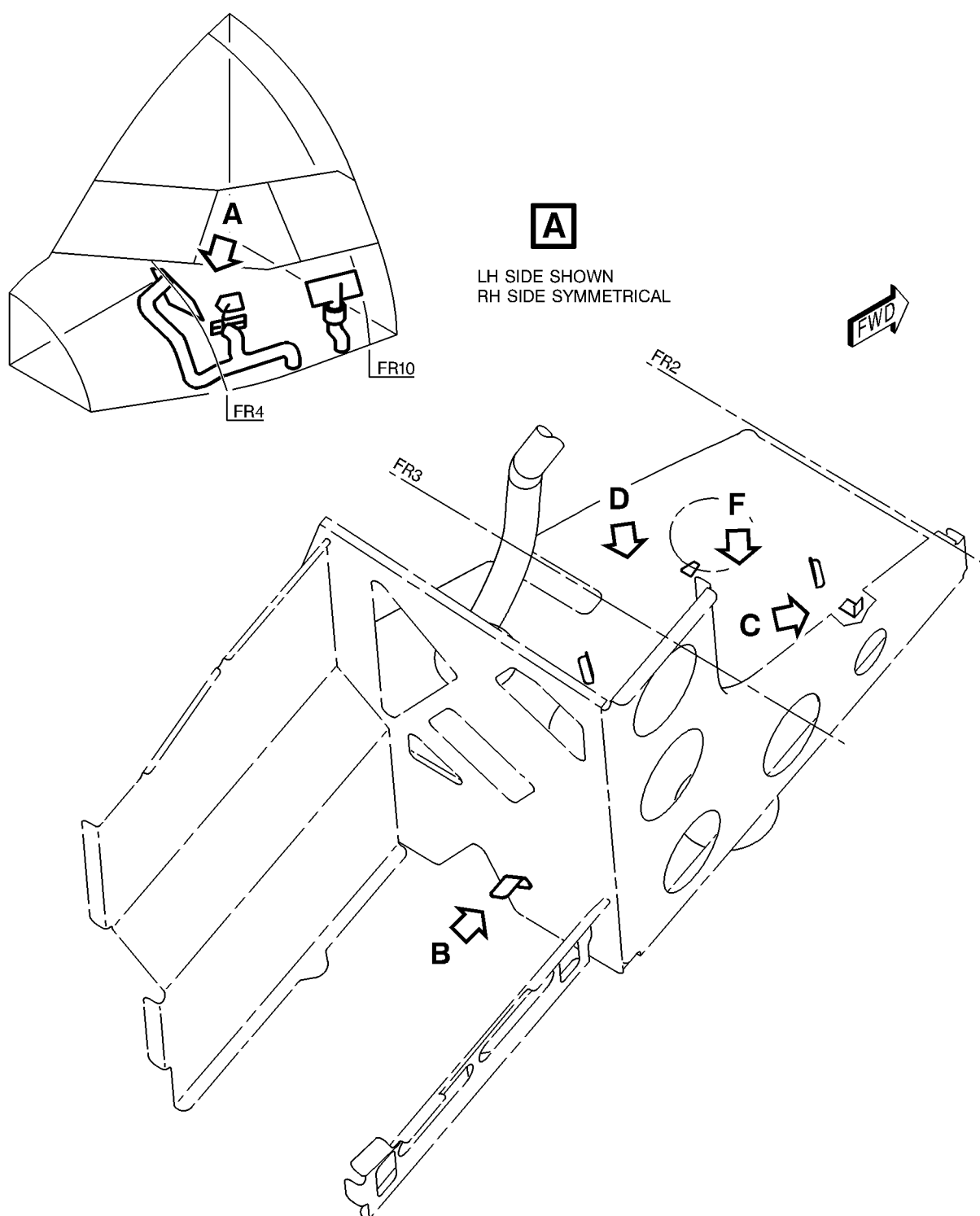
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Figure 7 Sheet 1
Config. 02 thru 03 : Installation of the Brackets

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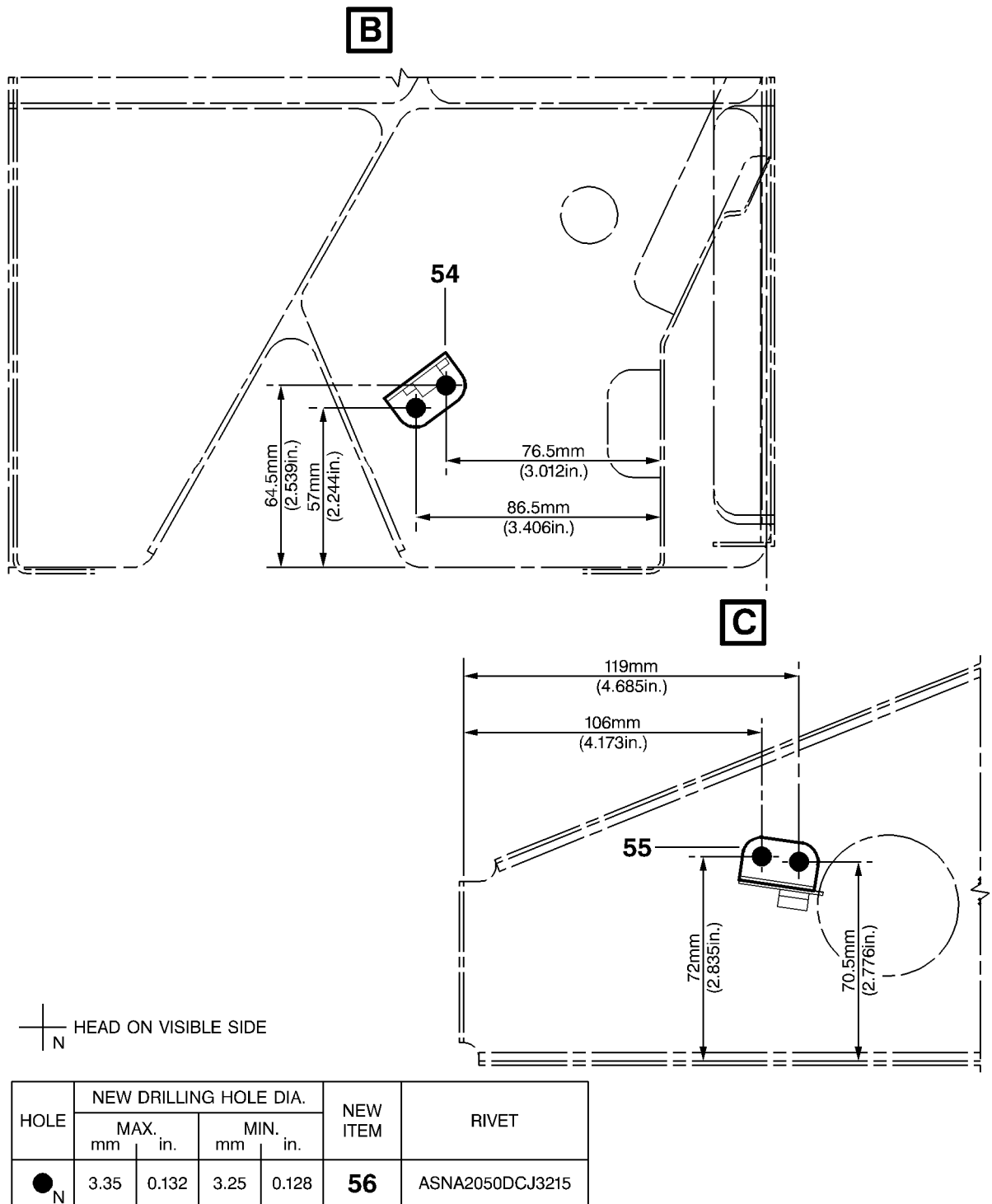


Figure 7 Sheet 2
Config. 02 thru 03 : Installation of the Brackets

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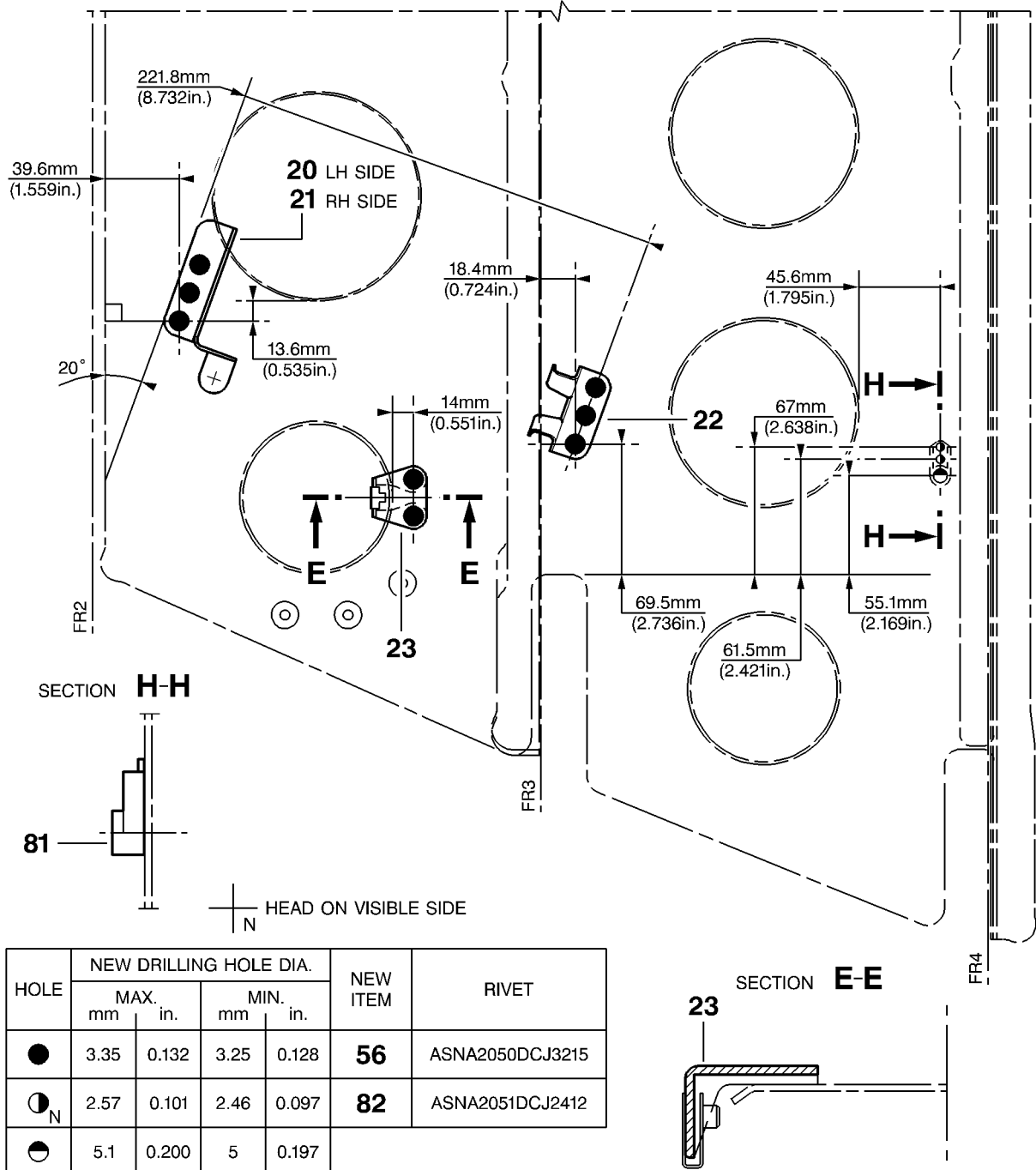
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SERVICE BULLETIN



LH SIDE SHOWN
RH SIDE SYMMETRICAL

CABIN FLOOR



NSB5 211908 AC 00 d

Figure 7 Sheet 3
Config. 02 thru 03 : Installation of the Brackets

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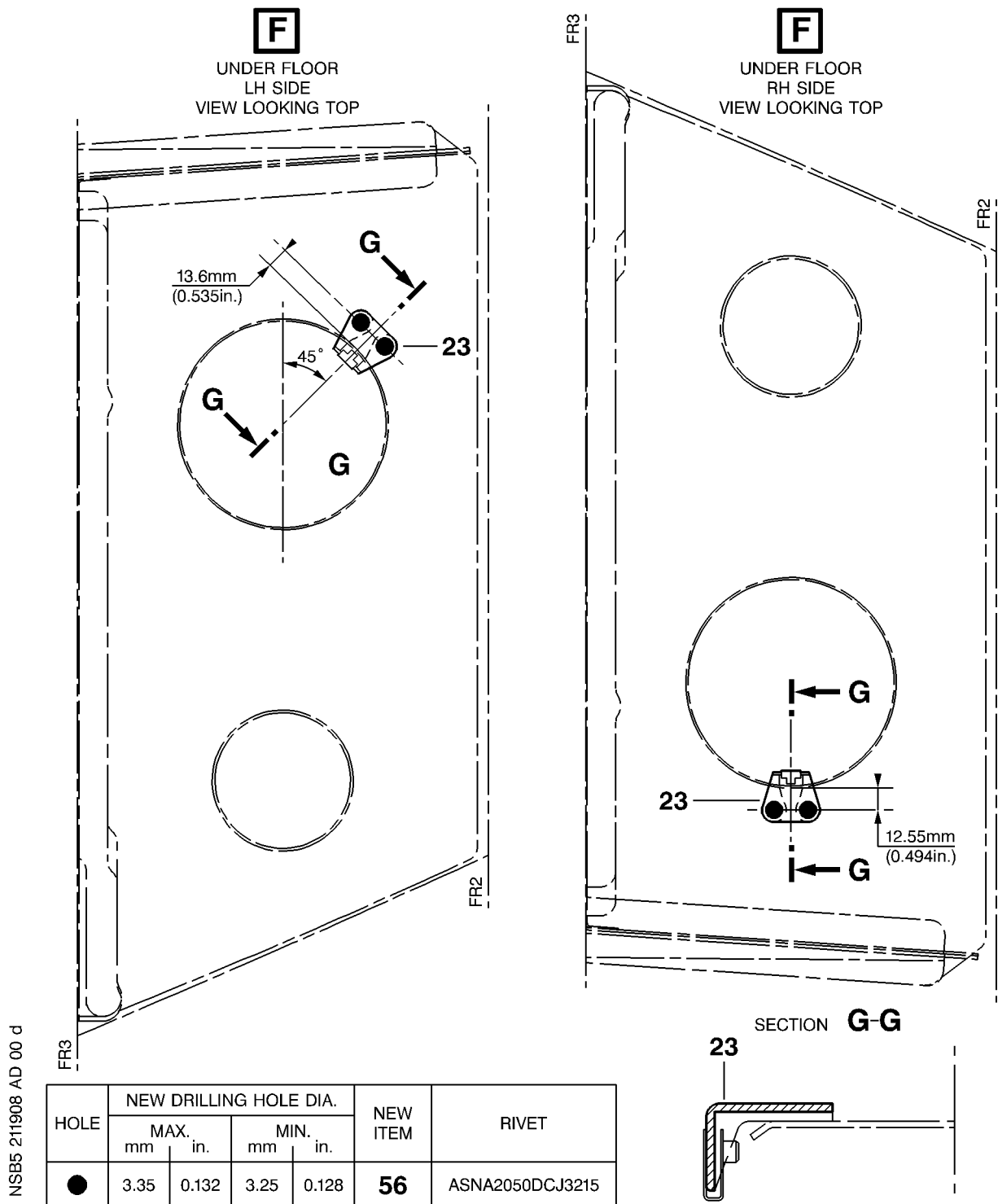


Figure 7 Sheet 4
Config. 02 thru 03 : Installation of the Brackets

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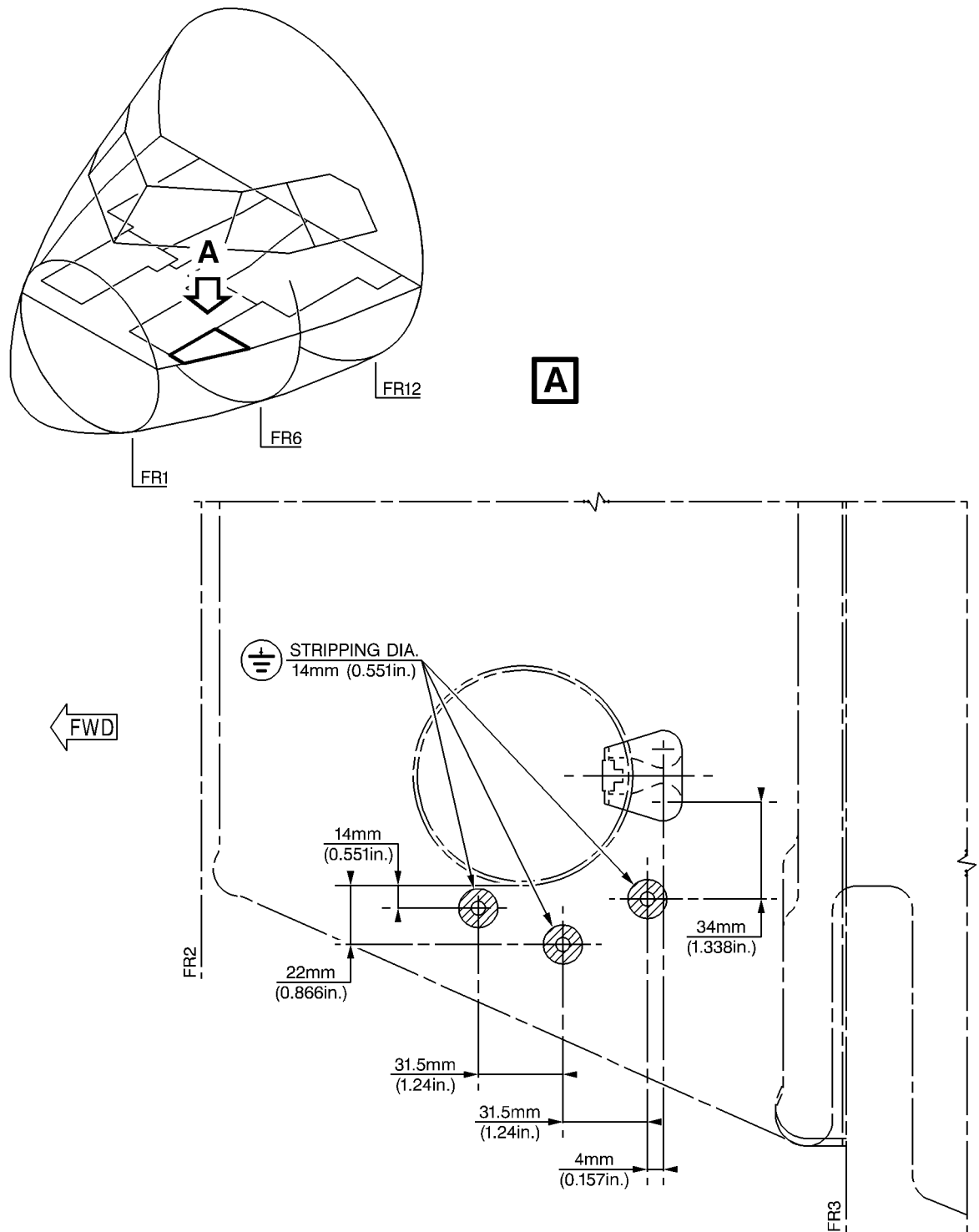


Figure 8 Sheet 1
Config. 02 thru 03 : Installation of the Ground Points and of their Placards at LH side

DATE : Mar 08/06

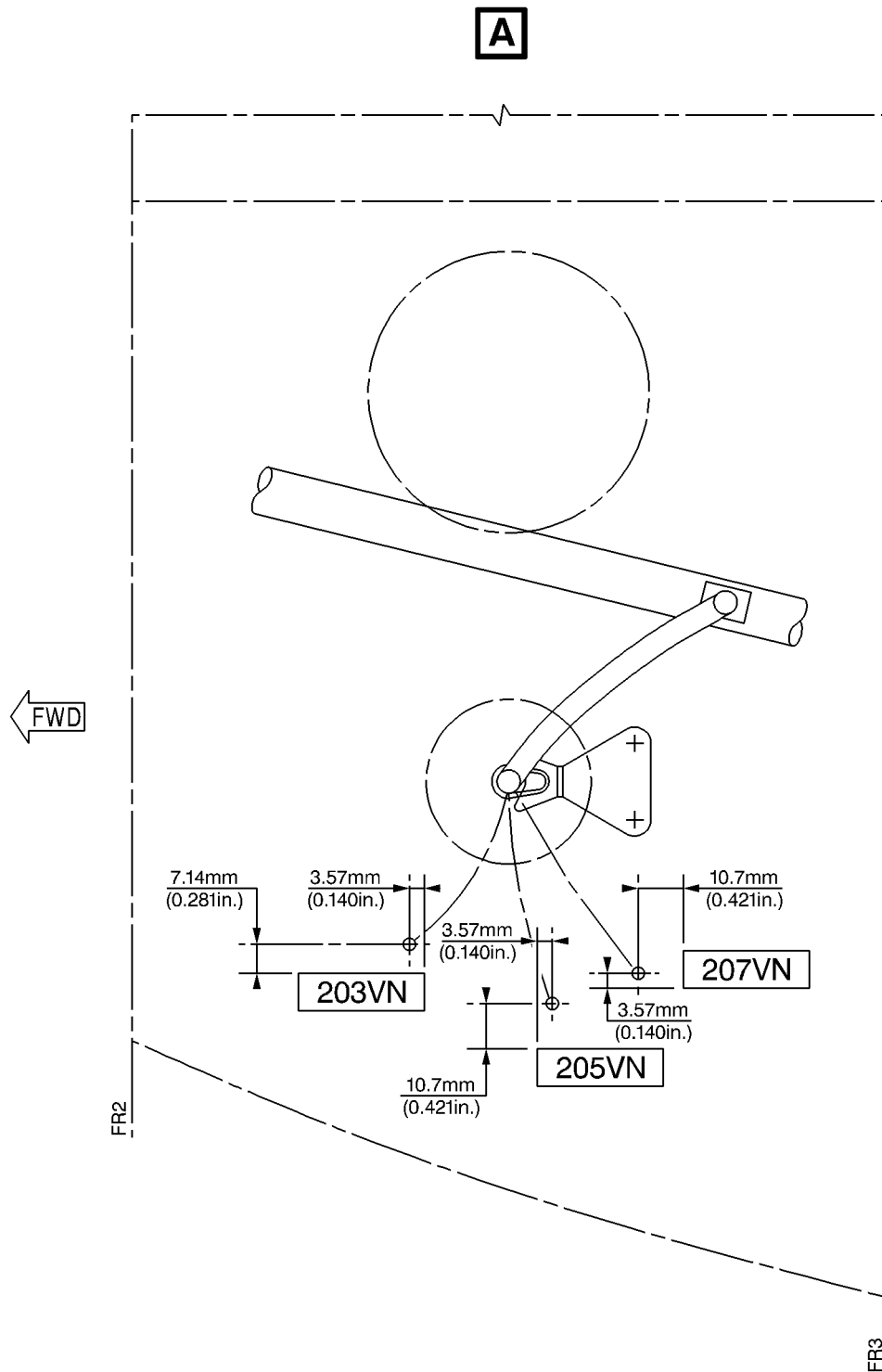
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Figure 8 Sheet 2
Config. 02 thru 03 : Installation of the Ground Points and of their Placards at LH side

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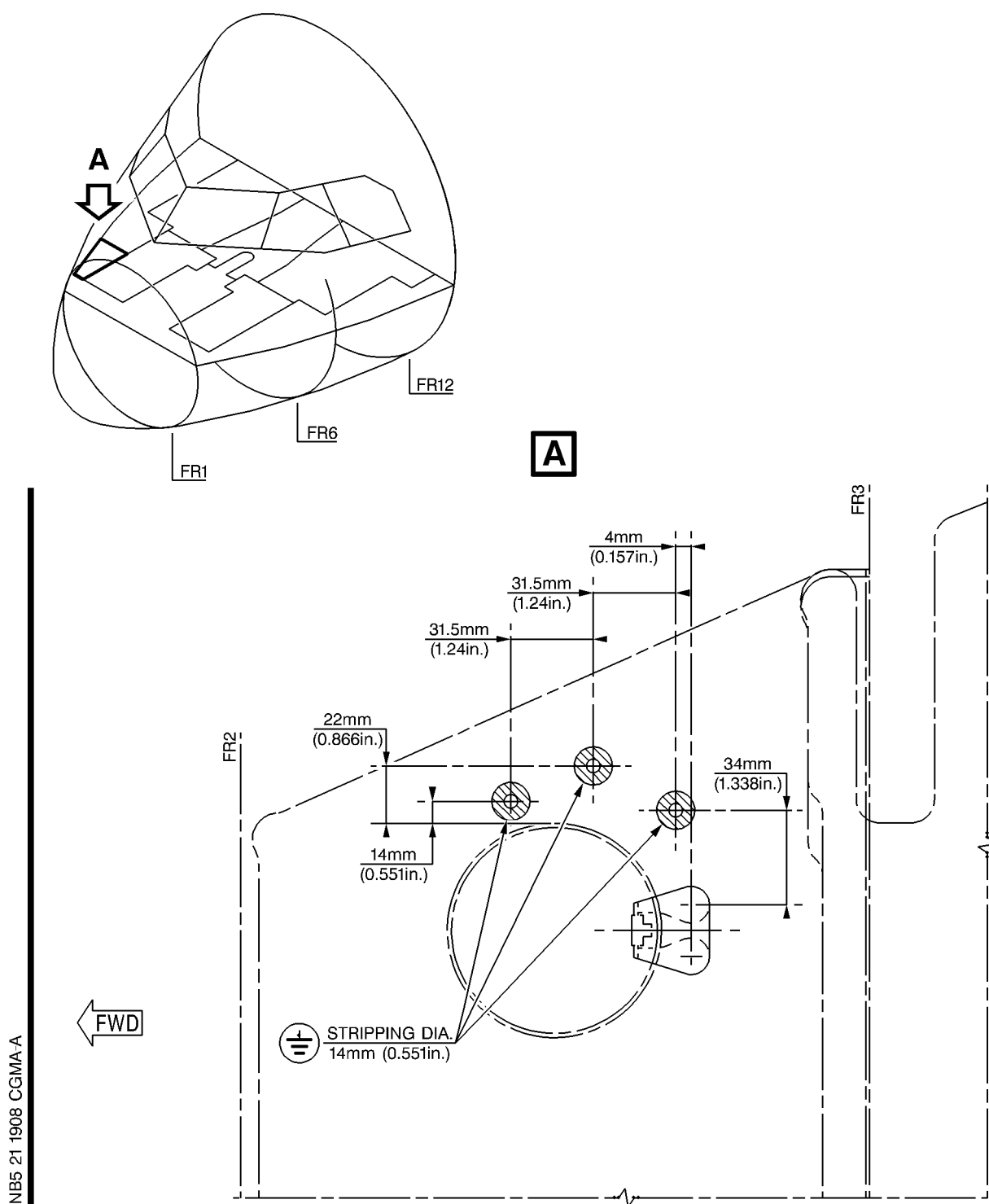


Figure 9 Sheet 1
Config. 02 thru 03 : Installation of the Ground Points and of their Placards at
RH side

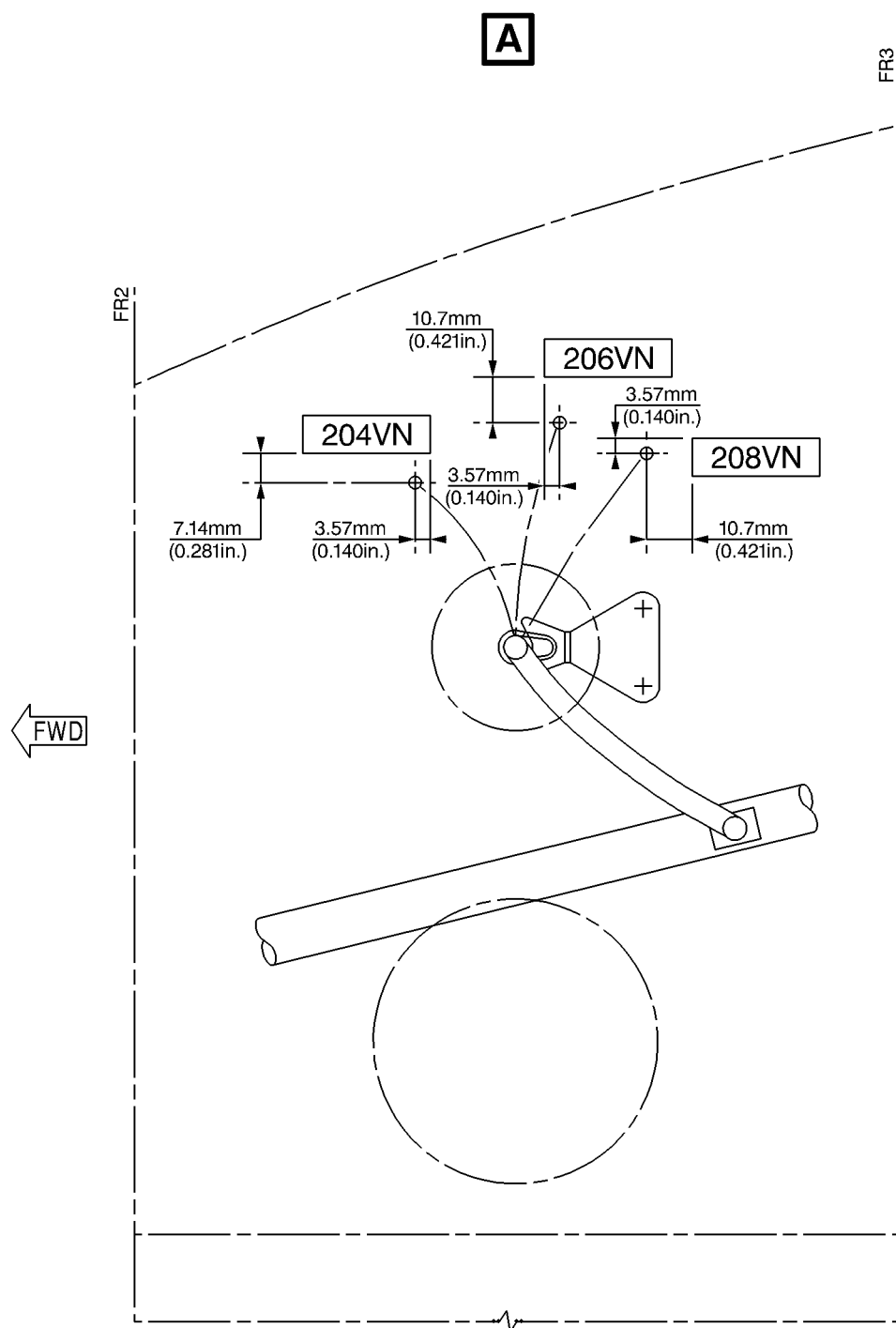
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Figure 9 Sheet 2
Config. 02 thru 03 : Installation of the Ground Points and of their Placards at
RH side

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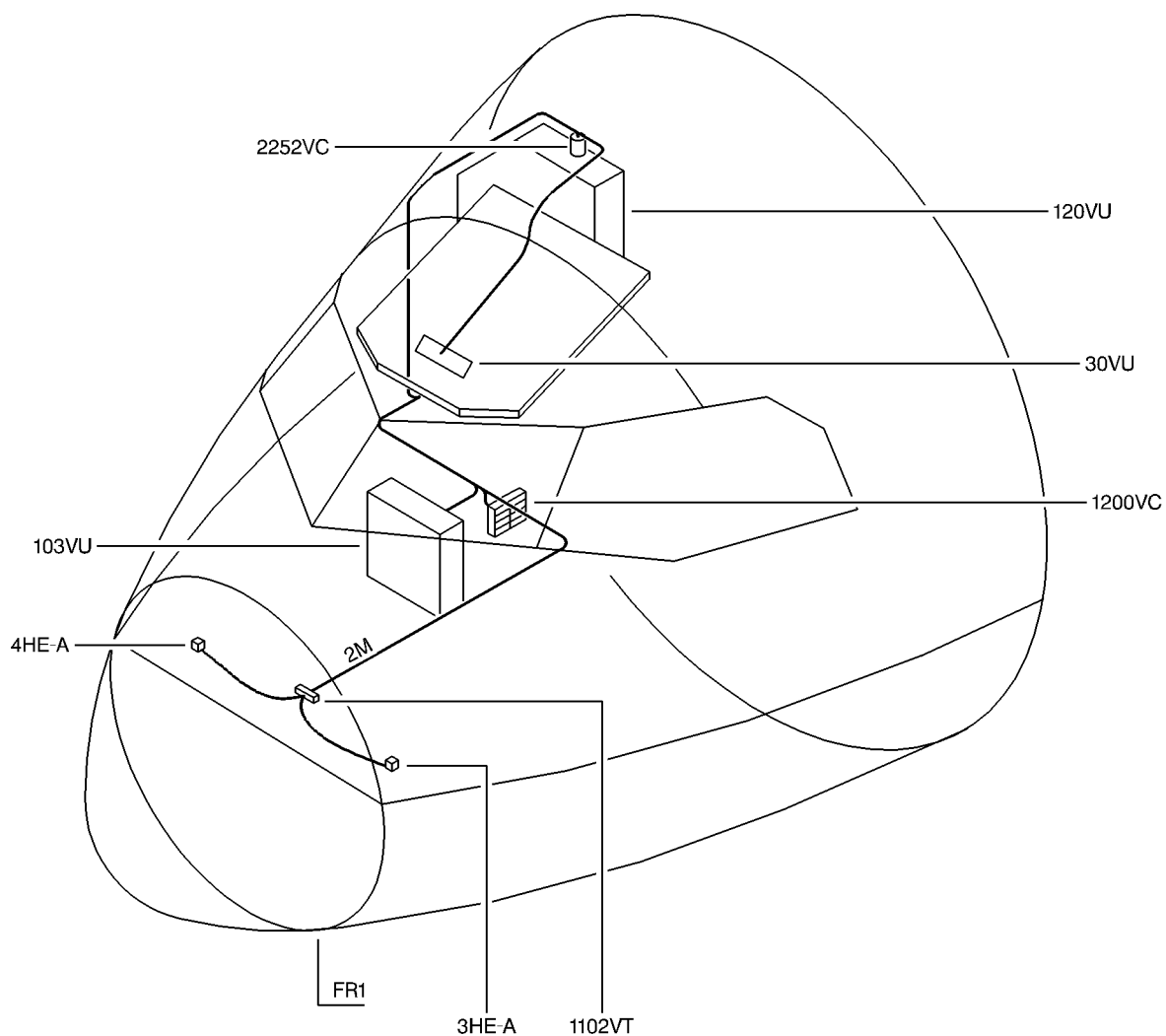
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Figure 10 Sheet 1
Config. 02 thru 03 : Location of the Work Area

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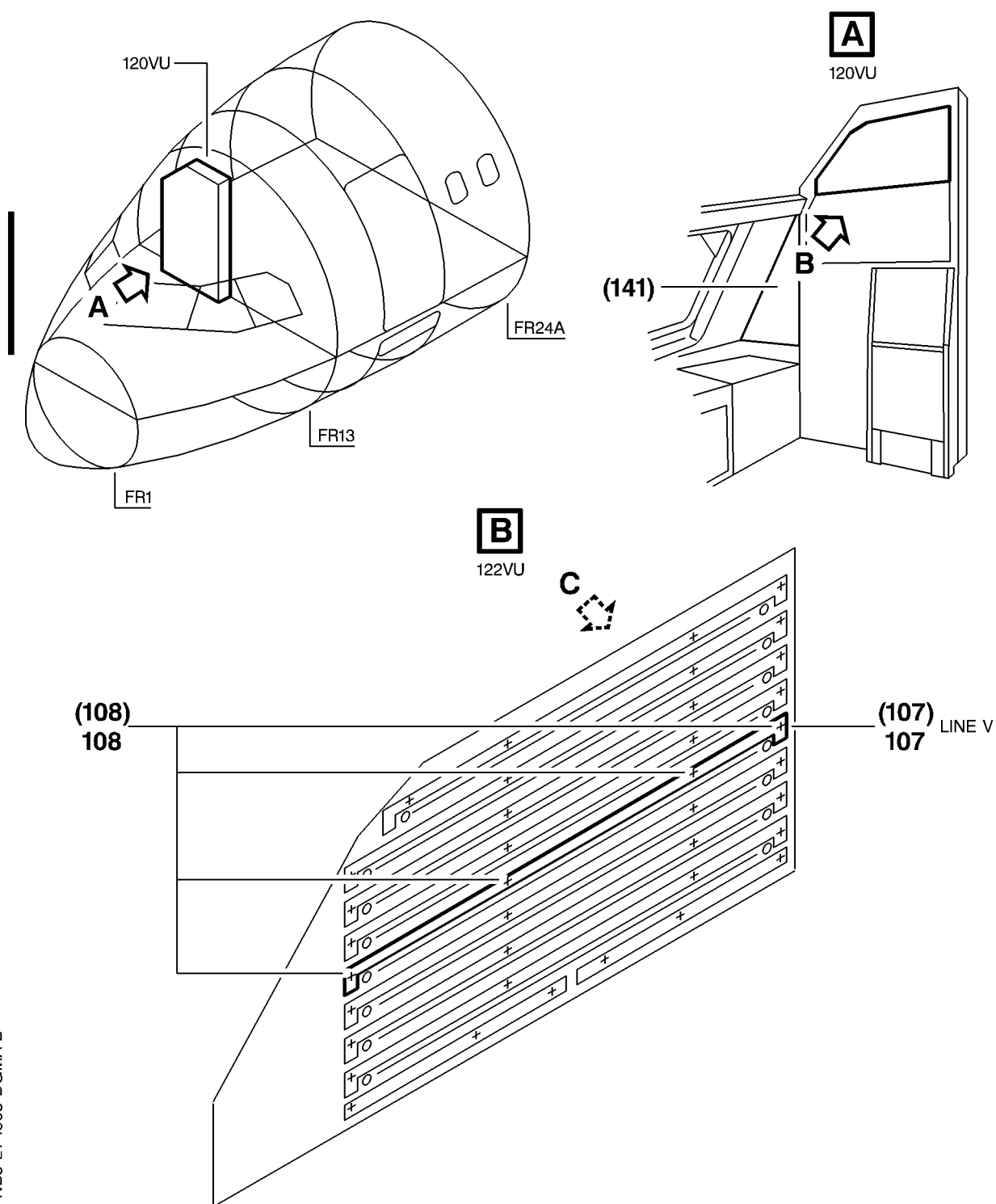
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NB5 21 1908 DGMA-B

Figure 11 Sheet 1

Config. 02 thru 03 : Modification of the Equipment in the Rear C/B Panel 122VU

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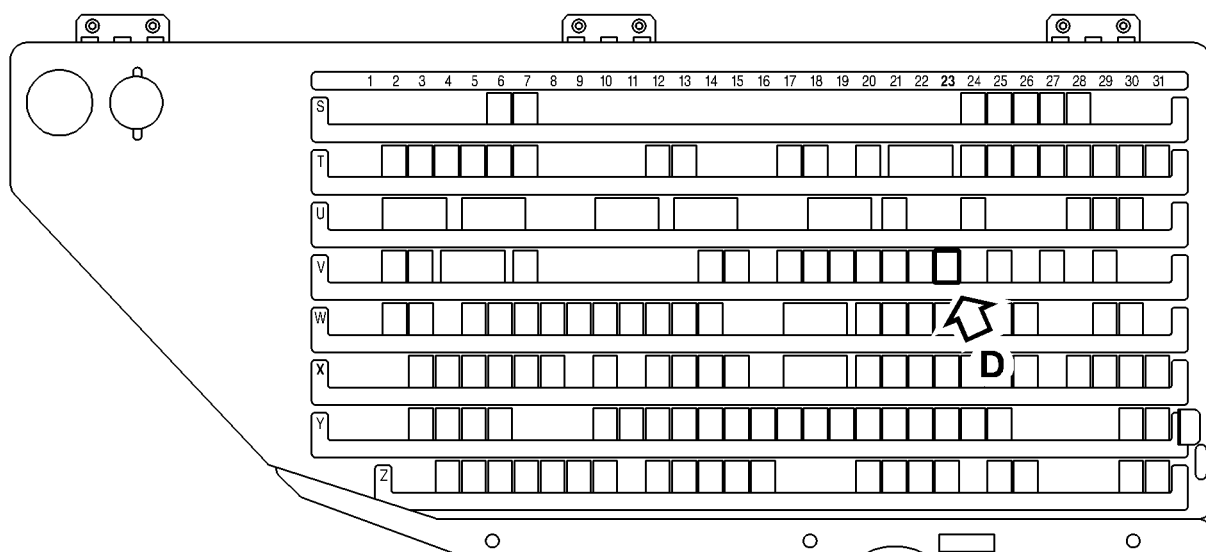


A318/A319/A320/A321

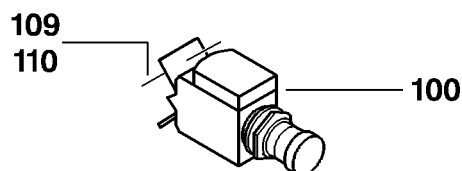
SERVICE BULLETIN



VIEW LOOKING OUTSIDE



1HE



NSB5 211908 DH 00 d

Figure 11 Sheet 2

Config. 02 thru 03 : Modification of the Equipment in the Rear C/B Panel 122VU

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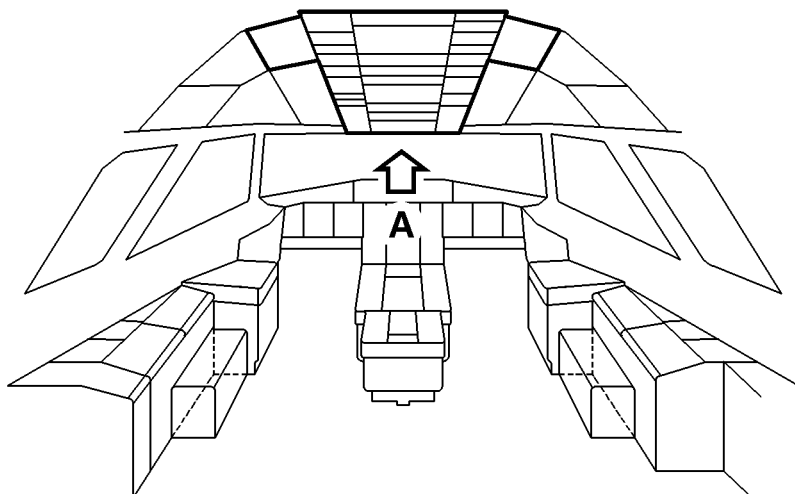
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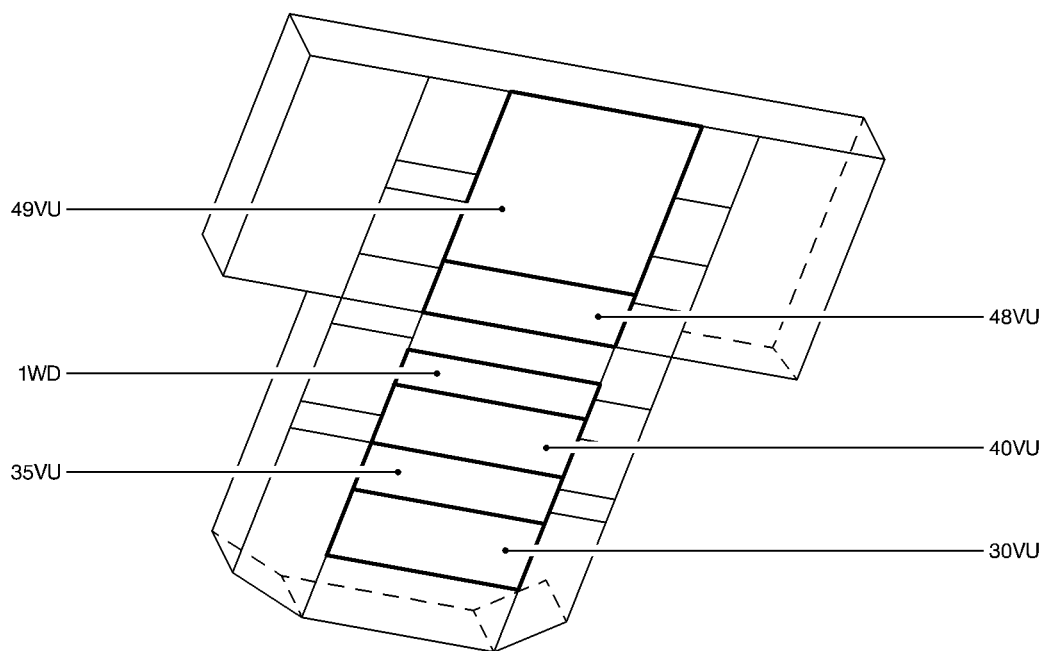


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SERVICE BULLETIN



A



NSB5 211908 DK 00 d

Figure 12 Sheet 1
Config. 02 thru 03 : Location of the Equipment for Access

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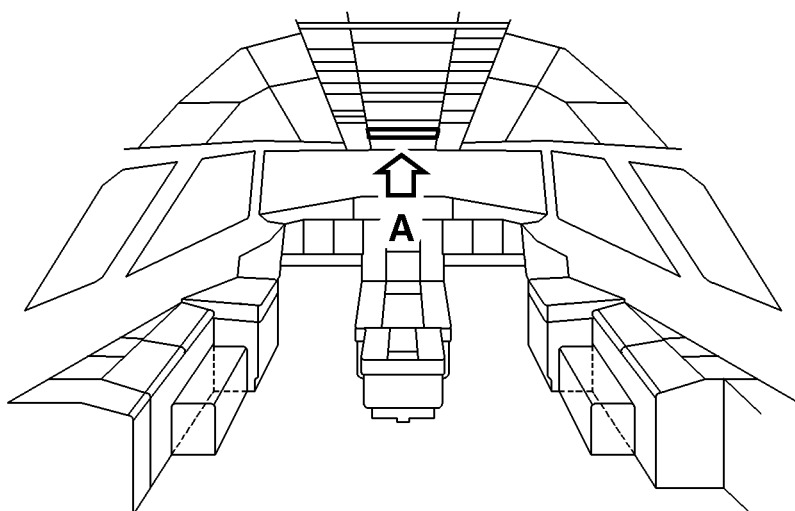
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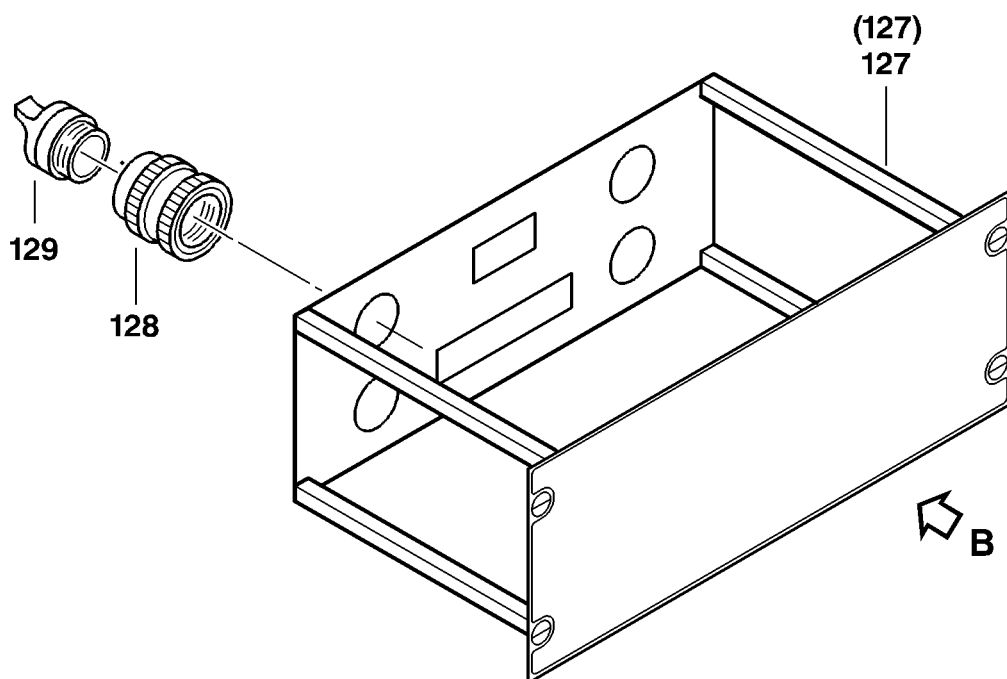
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SERVICE BULLETIN



30VU

AFTER



NSB5 211908 DI 00 d

Figure 13 Sheet 1

Config. 02 : Modification of the Equipment in the Overhead Panel 20VU

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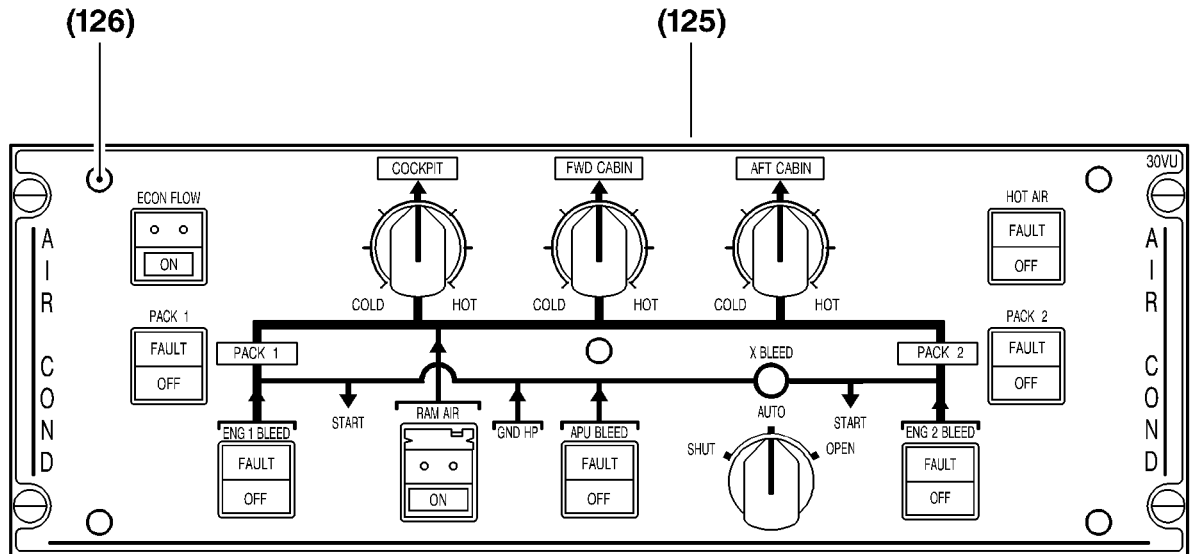
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B

30VU

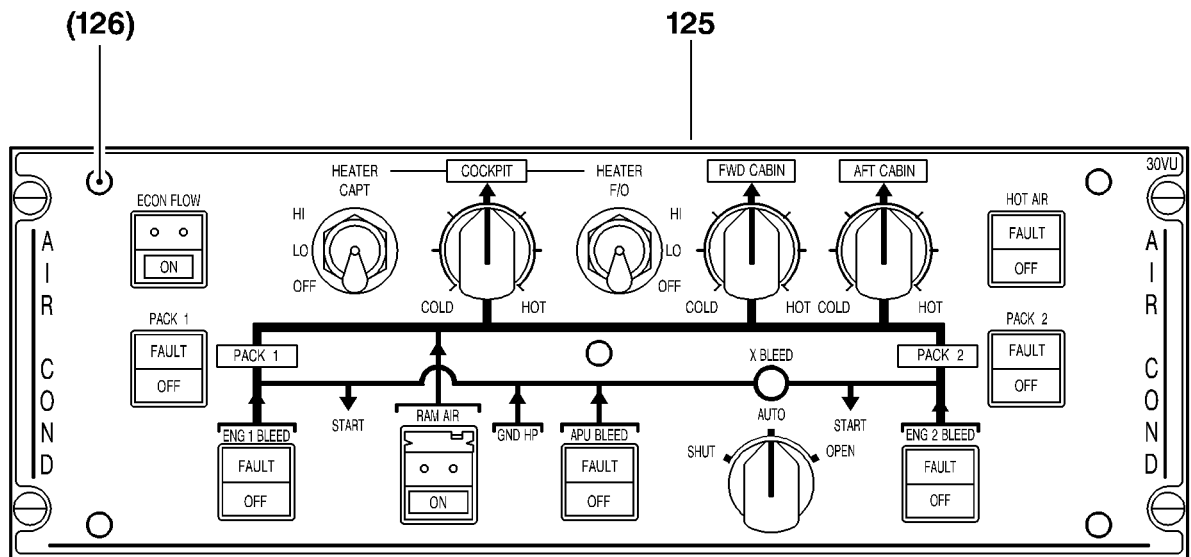
BEFORE



B

30VU

AFTER



NSB5 211908 DJ 00 d

Figure 13 Sheet 2

Config. 02 : Modification of the Equipment in the Overhead Panel 20VU

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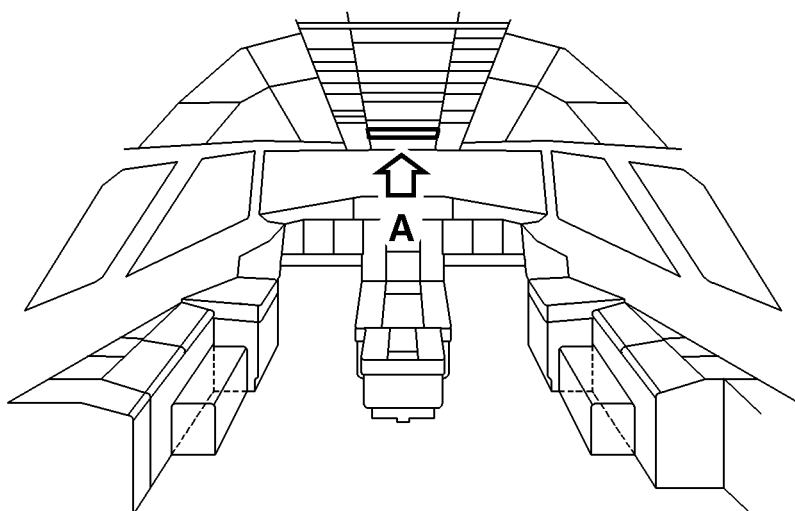
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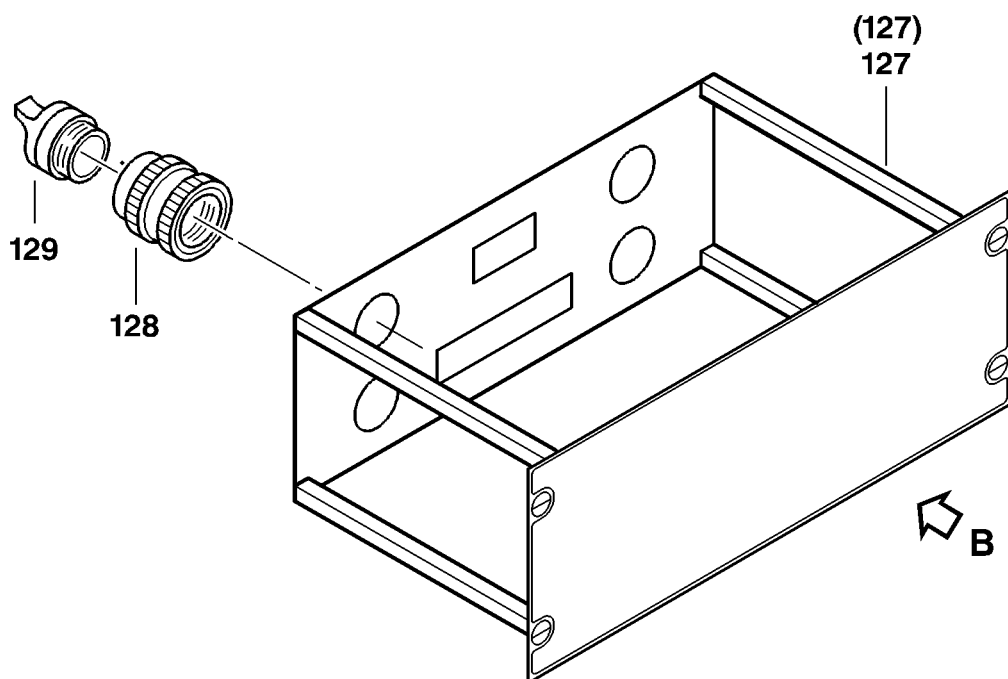
A318/A319/A320/A321

SERVICE BULLETIN



30VU

AFTER



NB5 21 1908 EAMA-A

Figure 14 Sheet 1

Config. 03 : Modification of the Equipment in the Overhead Panel 20VU

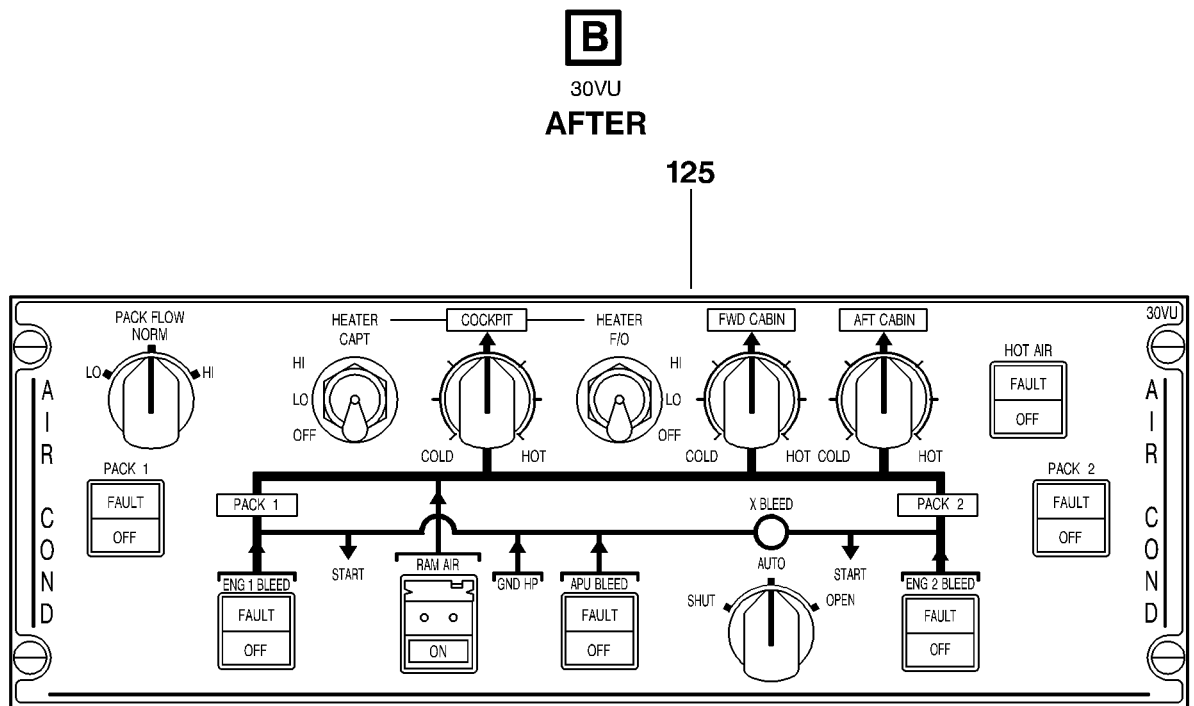
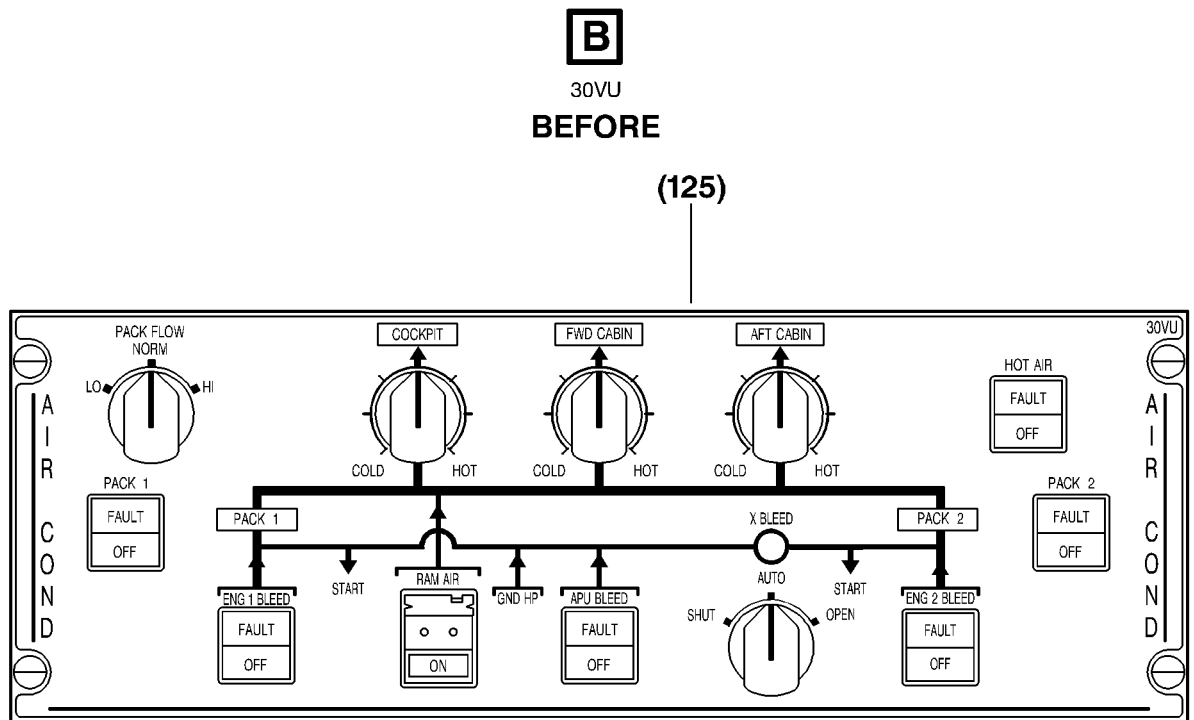
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Figure 14 Sheet 2
Config. 03 : Modification of the Equipment in the Overhead Panel 20VU

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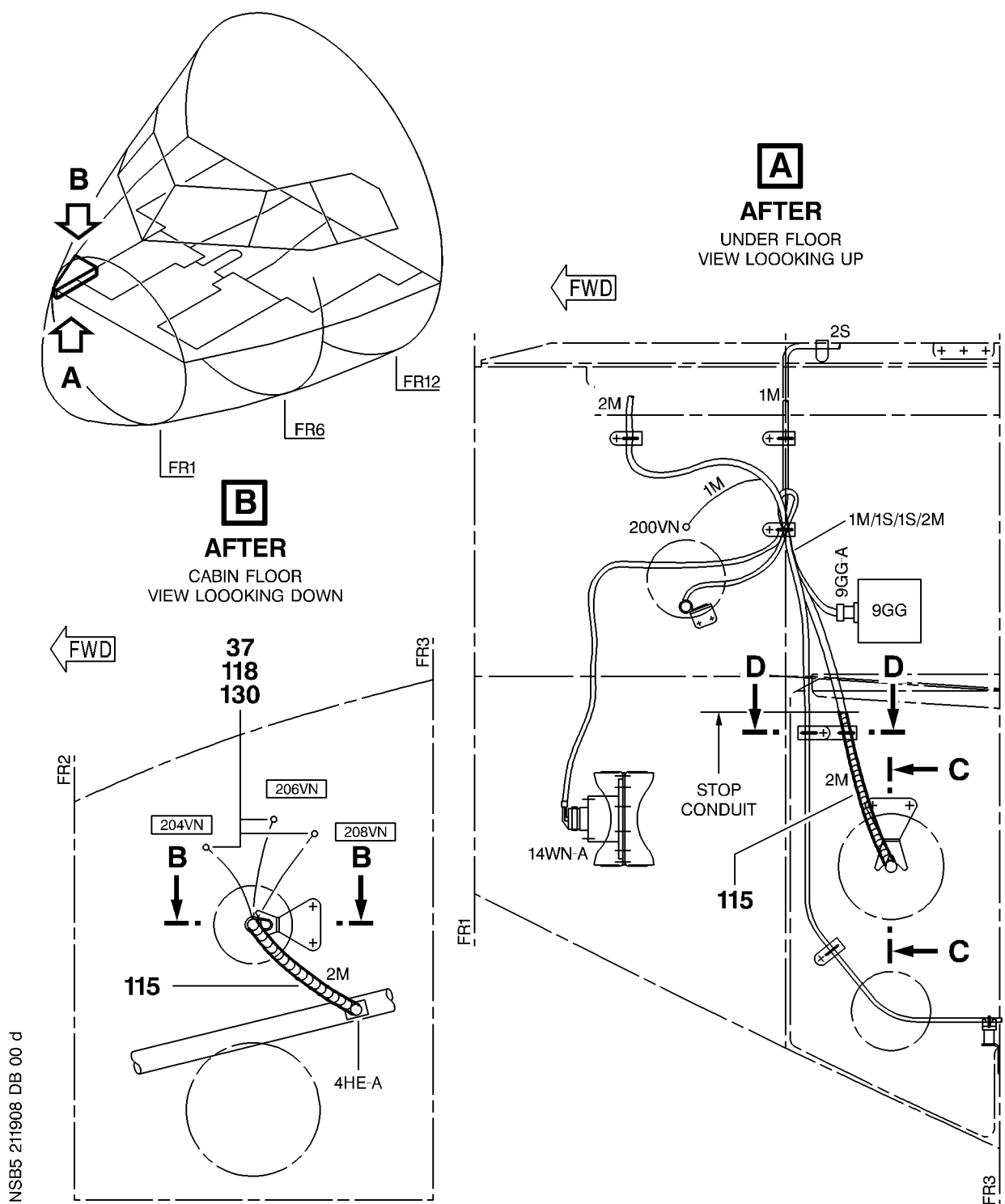


Figure 15 Sheet 1
Config. 02 thru 03 : Modification of the Routing in the RH Side between FR2 and FR3

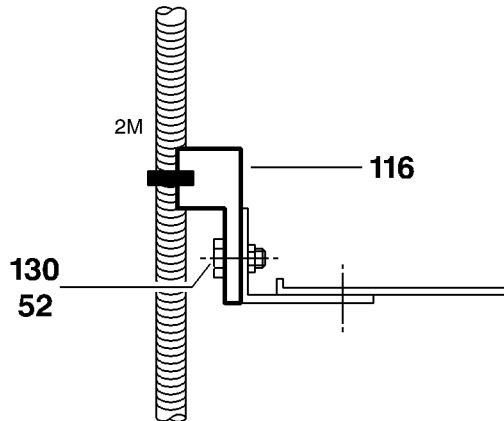
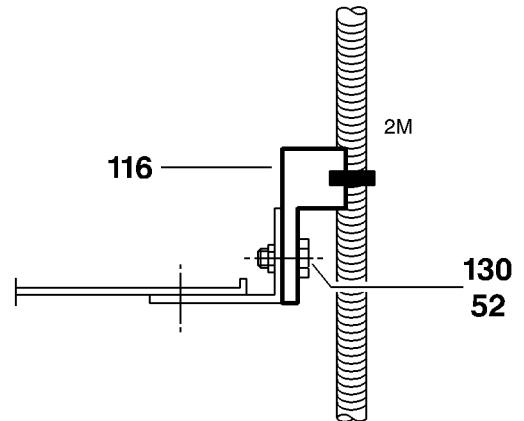
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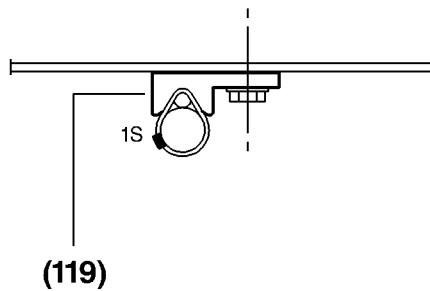
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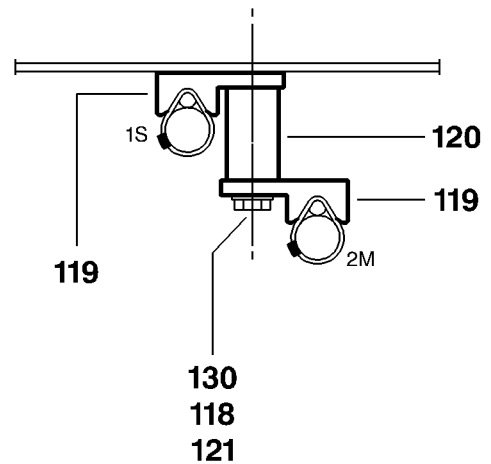
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SECTION **B-B**SECTION **C-C**SECTION **D-D**

BEFORE



AFTER



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Figure 15 Sheet 2

Figure 19 - Sheet 2
Config. 02 thru 03 : Modification of the Routing in the RH Side between FR2 and FR3

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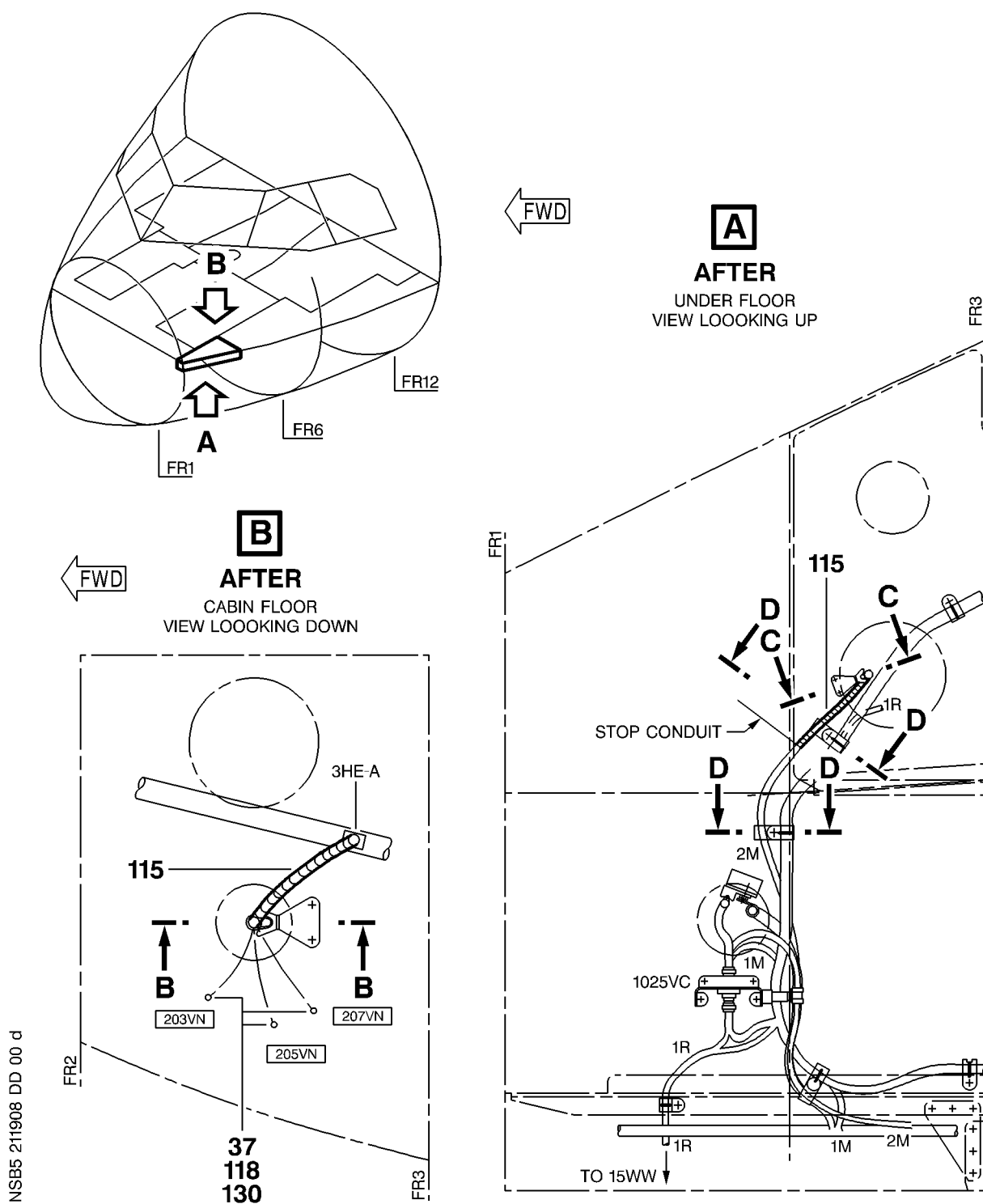


Figure 16 Sheet 1
Config. 02 thru 03 : Modification of the Routing in the LH Side between FR2 and FR3

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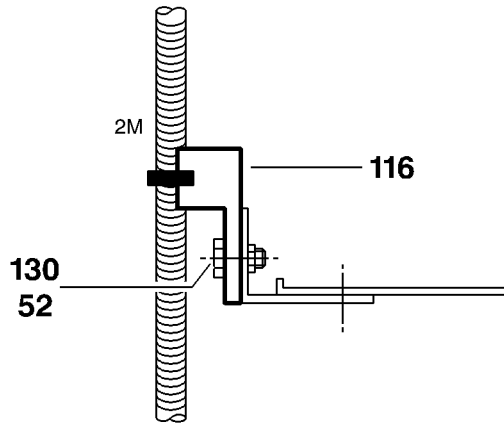
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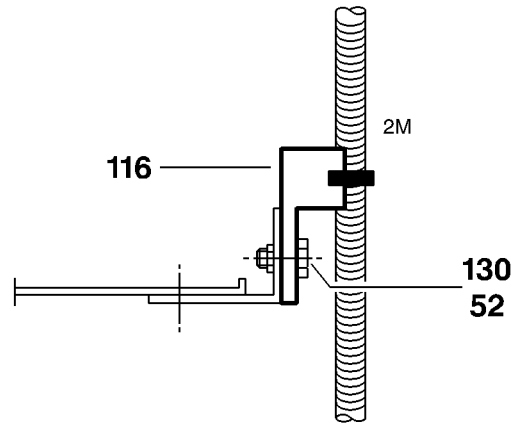
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SECTION **B-B**

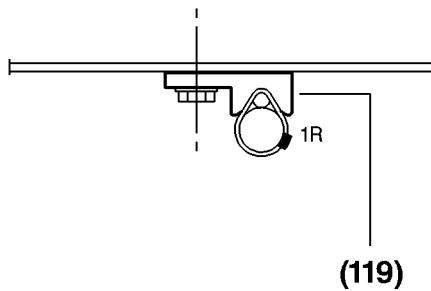


SECTION **C-C**

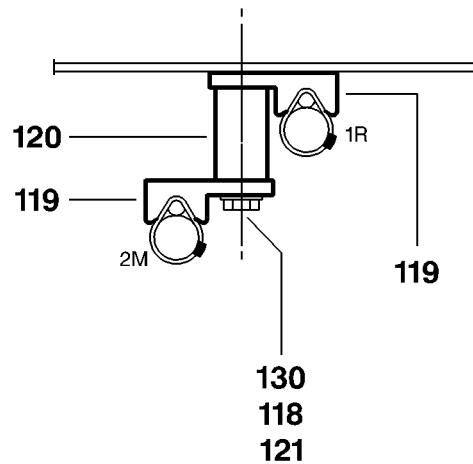


SECTION **D-D**

BEFORE



AFTER



NSB5 211908 DE 00 d

Figure 16 Sheet 2
Config. 02 thru 03 : Modification of the Routing in the LH Side between FR2 and FR3

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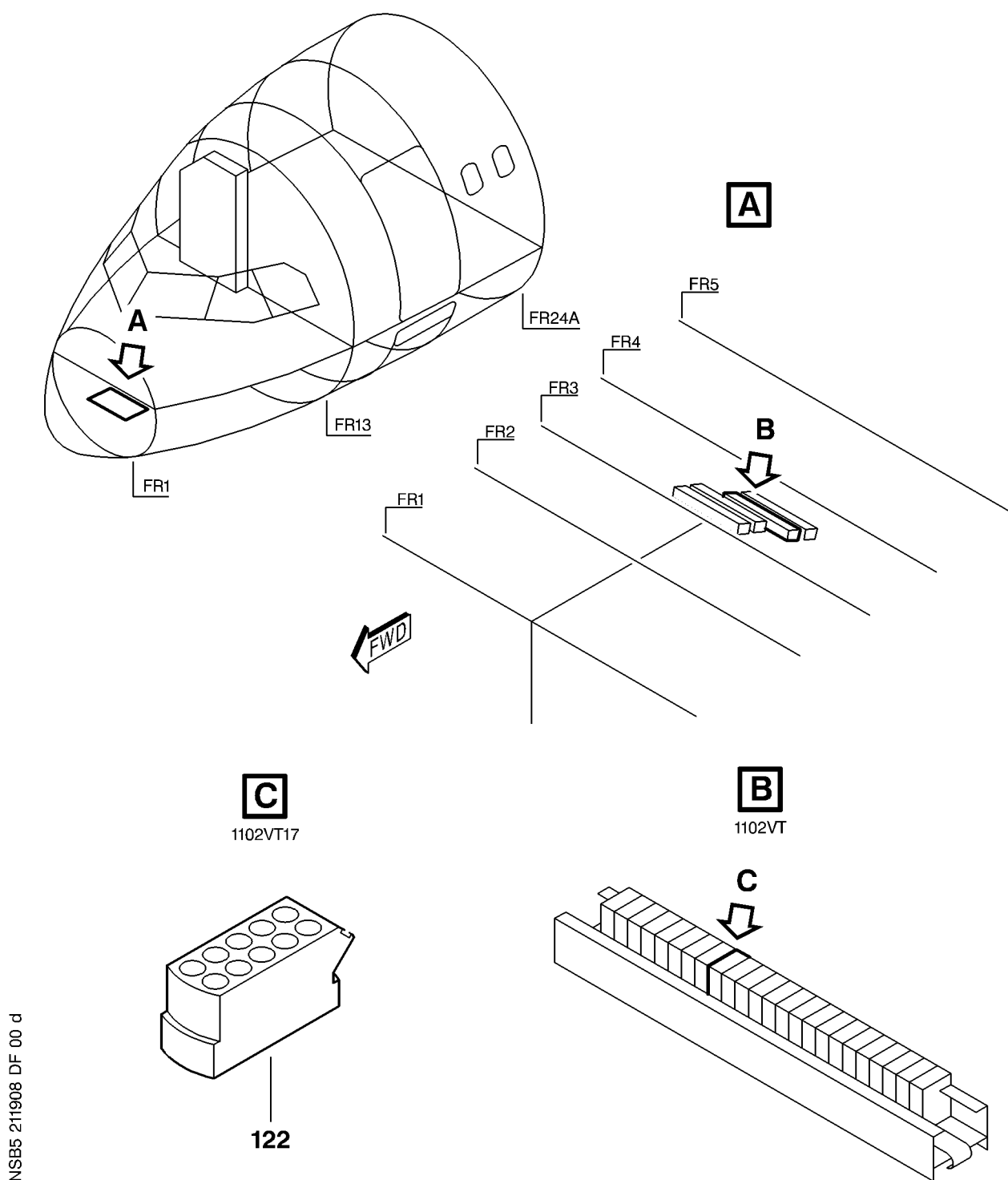


Figure 17 Sheet 1

Figure 17, Sheet 1

Config. 02 thru 03 : Modification of the Equipment in the Avionics Compartment

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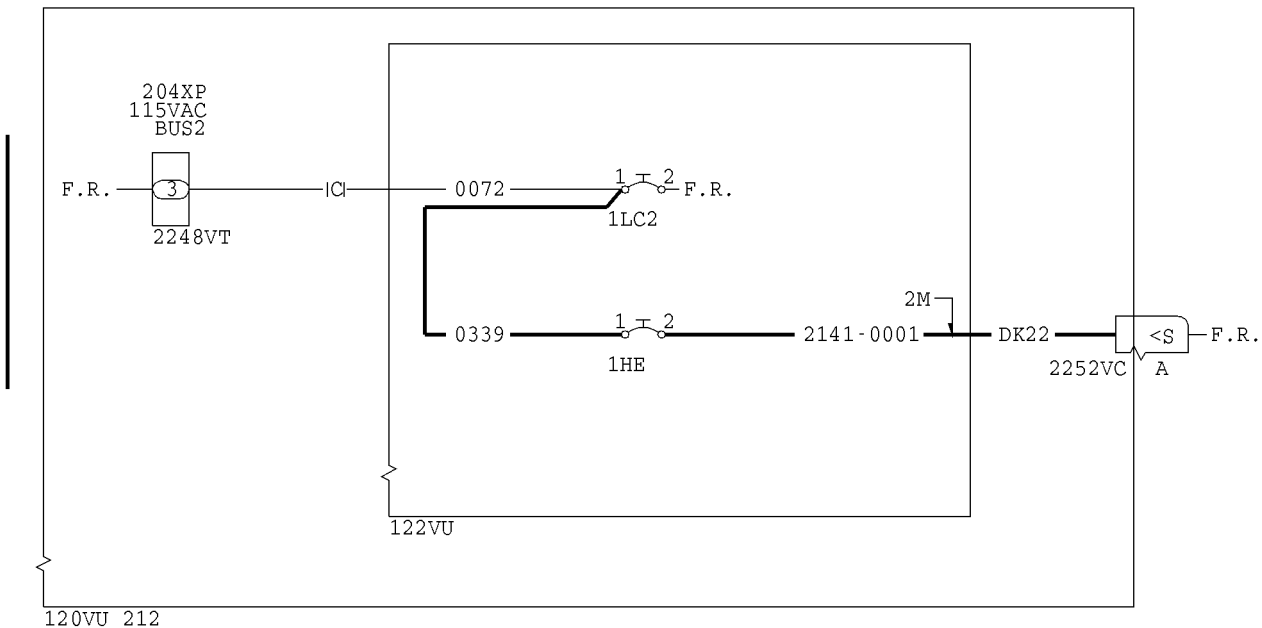
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SERVICE BULLETIN

AFTER



— EXISTING WIRE

— NEW WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2458
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DK10 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2P

NE5211908BAWAB

Figure 18 Sheet 1
Config. 02 thru 03 : Modification of the Wiring in the Rear Panel 120VU

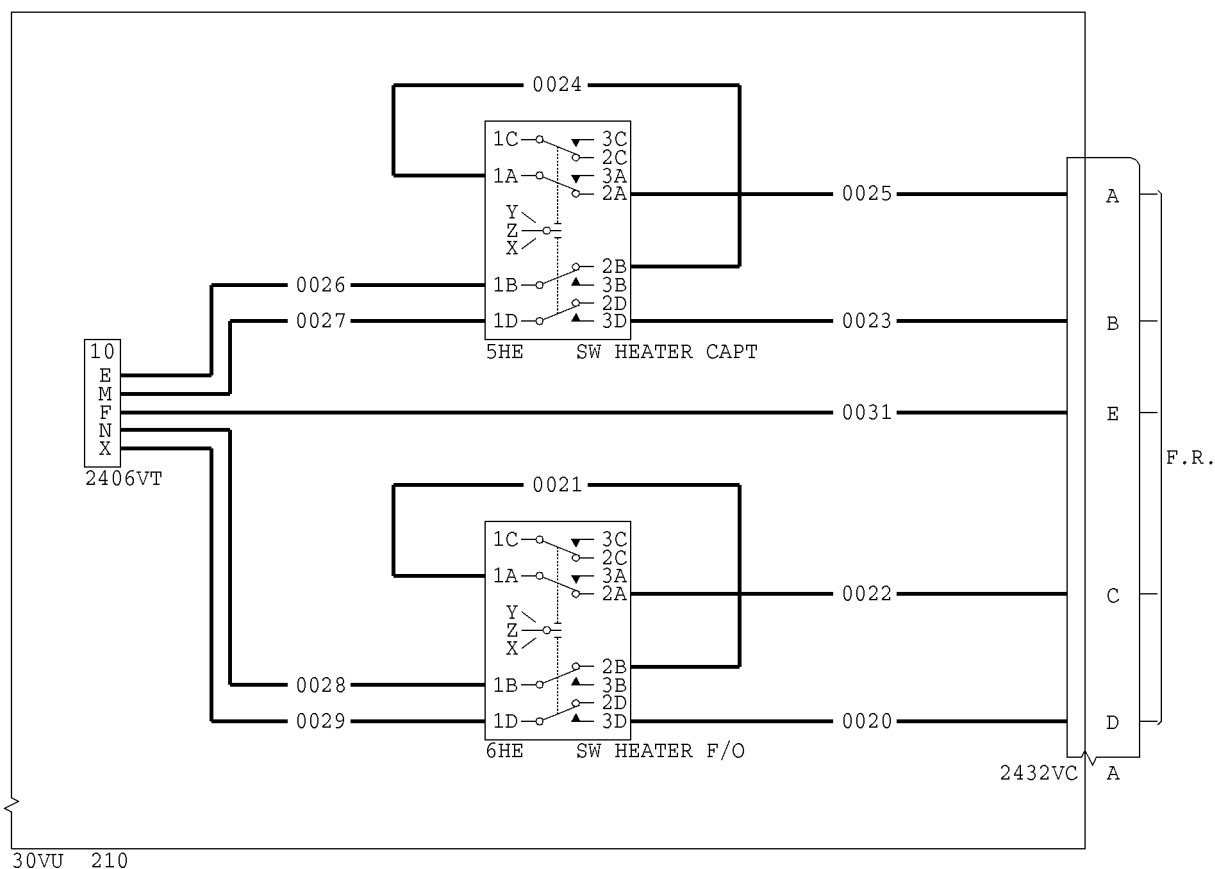
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AFTER



— NEW WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2141
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE BF24 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

Figure 19 Sheet 1
Config. 02 thru 03 : 30VU Wiring Diagram - For Information Only

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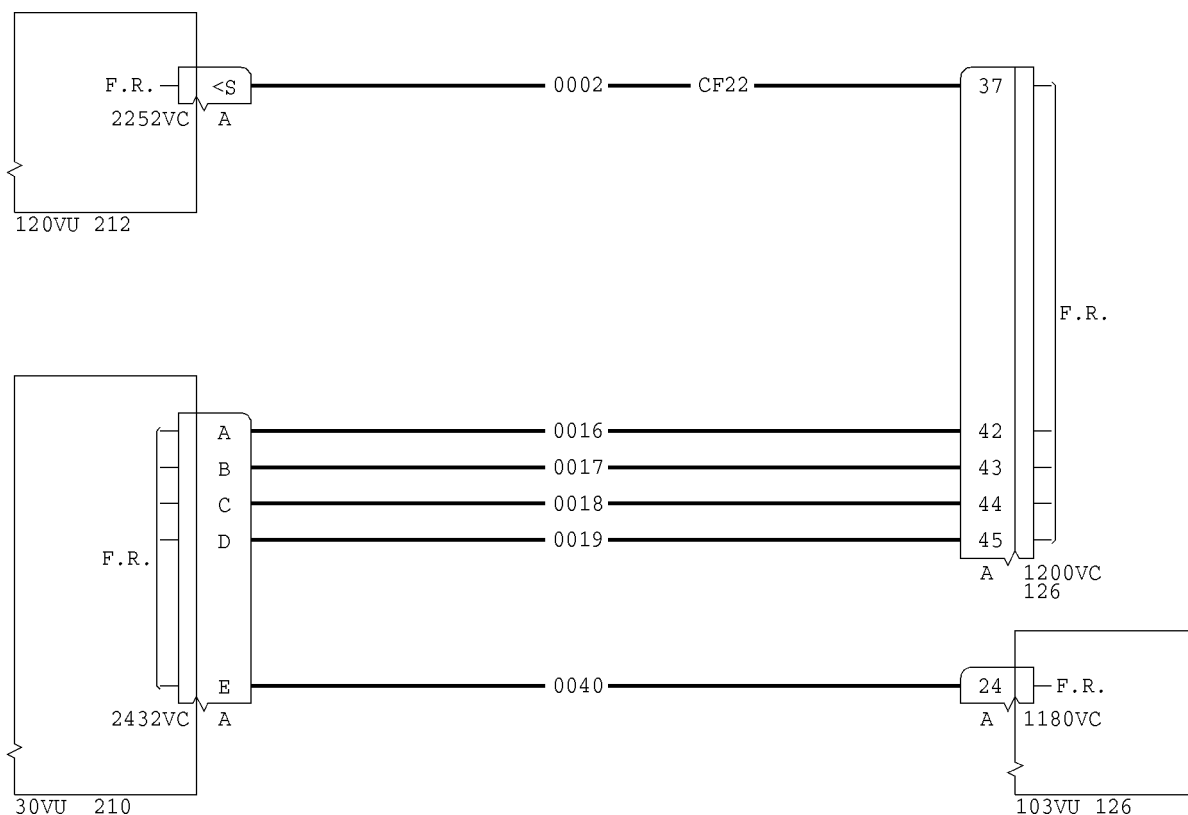
NB5211908BDAAA



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SERVICE BULLETIN

AFTER



— NEW WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2141
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

Figure 20 Sheet 1
Config. 02 thru 03 : Modification of the Wiring between the Cockpit and the Avionics Compartment

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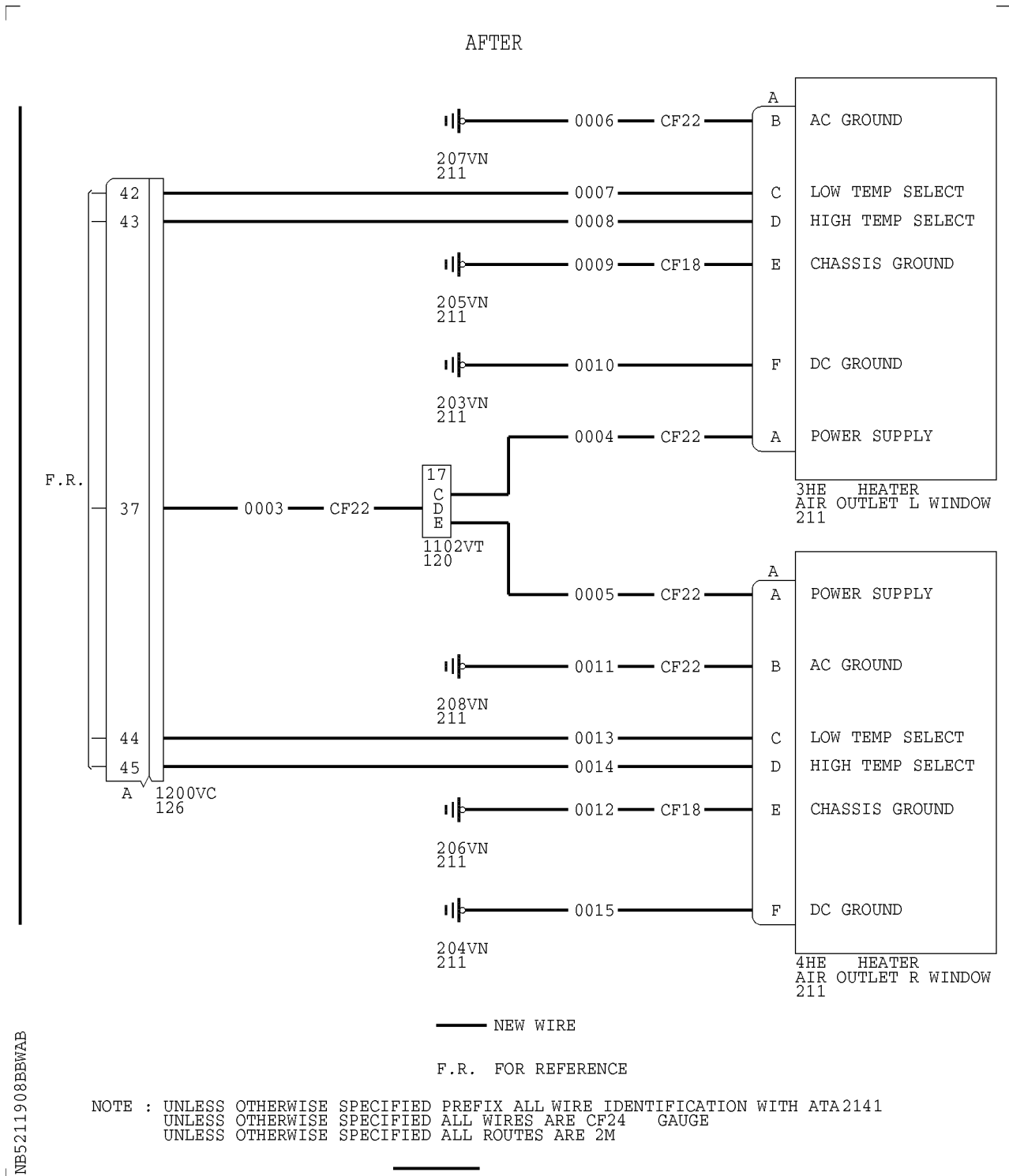


Figure 21 Sheet 1
Config. 02 thru 03 : Modification of the Wiring between the Equipment and the Avionics Compartment

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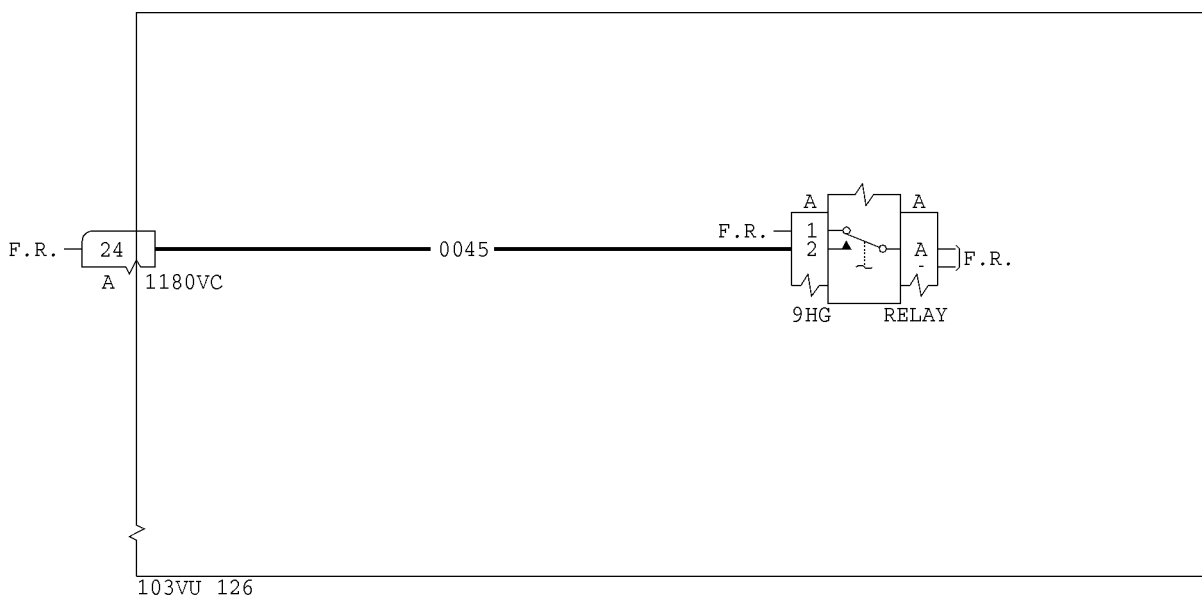
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SERVICE BULLETIN

AFTER



— NEW WIRE

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2141
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DK24 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2M

NE5211908BFAAA

Figure 22 Sheet 1
Config. 02 thru 03 : Modification of the Wiring in the Relay Box 103VU

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Figure 23 Sheet 1 (Goto A3 section)
Config. 02 thru 03 : Hook-up Chart

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SERVICE BULLETIN

Figure 24 Sheet 1 (Goto A3 section)
Config. 02 thru 03 : Hook-up Chart

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SERVICE BULLETIN

Figure 25 Sheet 1 (Goto A3 section)
Config. 02 thru 03 : Hook-up Chart

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SERVICE BULLETIN

Figure 26 Sheet 1 (Goto A3 section)
Config. 02 thru 03 : Hook-up Chart

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SERVICE BULLETIN REPORTING SHEET

TITLE : AIR CONDITIONING - COCKPIT AIR HEATING - IMPROVE FOOT WARMER EFFICIENCY.

MODIFICATION No. : 35861P9435 35861P9449

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:

Either: Modification Operational Impact (MOI), if available. . YES/NO

Or : Intermediate revision. YES/NO

Important Information: This SB will only be incorporated in your maintenance and
operational documentation if this sheet is returned to Airbus 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 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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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 :

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Or via your Resident Customer Support Office.

5 DATE : Mar 08/06

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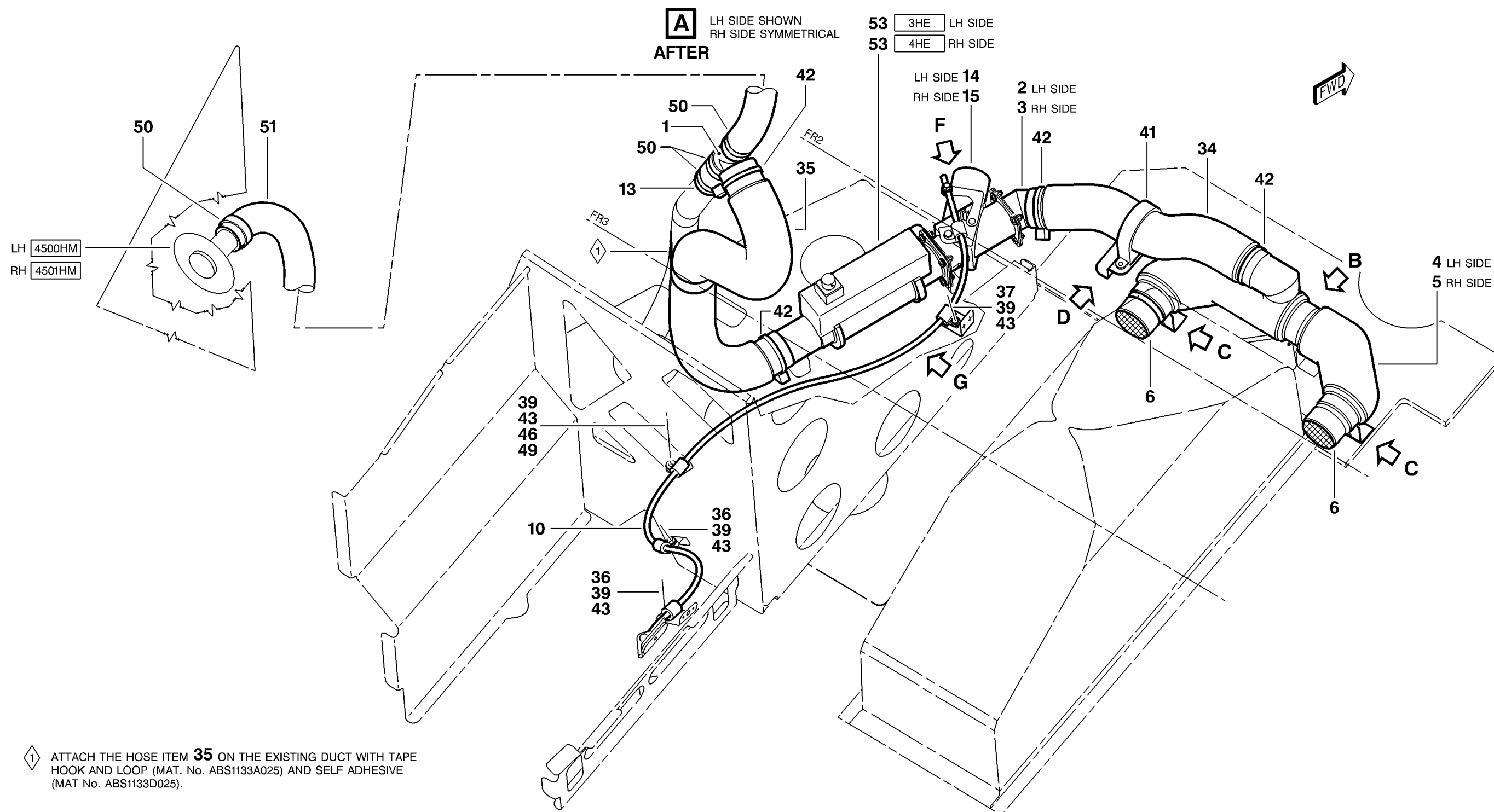


Figure 6 Sheet 2

Config. 02 thru 03 : Installation of the Ducts and the Heaters 3HE and 4HE

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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	122VU	1HE	1	NSA936501TA1003	2458-0339			DK10	1500	60	122VU	1LC2	1	NSA936501TA1003	(a) A
2	120VU	2252VC	<S	EN3155-019F2018	2141-0001		2M	DK22	3000	120	122VU	1HE	2	NSA936501TA2205	(a) A
3															
4															
5															
6	120VU	2248VT	3		2458-0072		2P	DK10			122VU	1LC2	1		F.R. C
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
(a) = BUNDLE D9000095220397 C = PHASE C A = ADDED WIRE F.R. = FOR REFERENCE															

Figure 23 Sheet 1
Config. 02 thru 03 : 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	30VU	2432VC-A	A	EN3155-019F2018	2141-0016		2M	CF24	10000	400	126	1200VC-A	42	EN3155-003F2222	(a) A
2	30VU	2432VC-A	B	EN3155-019F2018	2141-0017		2M	CF24	10000	400	126	1200VC-A	43	EN3155-003F2222	(a) A
3	30VU	2432VC-A	C	EN3155-019F2018	2141-0018		2M	CF24	10000	400	126	1200VC-A	44	EN3155-003F2222	(a) A
4	30VU	2432VC-A	D	EN3155-019F2018	2141-0019		2M	CF24	10000	400	126	1200VC-A	45	EN3155-003F2222	(a) A
5	30VU	2432VC-A	E	EN3155-019F2018	2141-0040		2M	CF24	12000	480	103VU	1180VC-A	24	EN3155-003F2222	(a) A
6	120VU	2252VC-A	<S	EN3155-018M2018	2141-0002		2M	CF22	5000	200	126	1200VC-A	37	EN3155-003F2222	(a) A
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
(a) = BUNDLE D9000095220397															
A = ADDED WIRE															

Figure 24 Sheet 1
Config. 02 thru 03 : 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	211	3HE-A	B	EN3155-019F2018	2141-0006		2M	CF22	2000	80	211	207VN	GND	NSA936501TA2206	(a) A
2	211	3HE-A	E	EN3155-019F2018	2141-0009		2M	CF18	2000	80	211	205VN	GND	NSA936501TA1604	(a) A
3	211	3HE-A	F	EN3155-019F2018	2141-0010		2M	CF24	2000	80	211	203VN	GND	NSA936501TA2206	(a) A
4	211	4HE-A	B	EN3155-019F2018	2141-0011		2M	CF22	2000	80	211	208VN	GND	NSA936501TA2206	(a) A
5	211	4HE-A	E	EN3155-019F2018	2141-0012		2M	CF18	2000	80	211	206VN	GND	NSA936501TA1604	(a) A
6	211	4HE-A	F	EN3155-019F2018	2141-0015		2M	CF24	2000	80	211	204VN	GND	NSA936501TA2206	(a) A
7	211	3HE-A	A	EN3155-019F2018	2141-0004		2M	CF22	5000	200	120	1102VT	17C	EN3155-016M2018	(a) A
8	211	3HE-A	C	EN3155-019F2018	2141-0007		2M	CF24	15000	600	126	1200VC	42	EN3155-008M2222	(a) A
9	211	3HE-A	D	EN3155-019F2018	2141-0008		2M	CF24	15000	600	126	1200VC	43	EN3155-008M2222	(a) A
10	211	4HE-A	A	EN3155-019F2018	2141-0005		2M	CF22	5000	200	120	1102VT	17E	EN3155-016M2018	(a) A
11	211	4HE-A	C	EN3155-019F2018	2141-0013		2M	CF24	15000	600	126	1200VC	44	EN3155-008M2222	(a) A
12	211	4HE-A	D	EN3155-019F2018	2141-0014		2M	CF24	15000	600	126	1200VC	45	EN3155-008M2222	(a) A
13	120	1102VT	17D	EN3155-016M2018	2141-0003		2M	CF22	10000	400	126	1200VC	37	EN3155-008M2222	(a) A
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
(a) = BUNDLE D9000095220397															
A = ADDED WIRE															
GND = GROUND															

Figure 25 Sheet 1
Config. 02 thru 03 : 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	9HG-A	2	E0252DK2002	2141-0045			DK24	4000	160	103VU	1180VC	24	EN3155-008M2222	(a) A
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
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17															
18															
19															
20															
21															
22															
23															
24															
25															
(a) = BUNDLE D9000095220397															
A = ADDED WIRE															

Figure 26 Sheet 1
Config. 02 thru 03 : Hook-up Chart