SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS

CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

Tel : (33) 5 61 93 33 33 Telex : AIRBU 530526F Fax : (33) 5 61 93 42 51

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AIR COOLING - INSTALL IMPROVED RAM AIR OUTLET (RAO)

MODIFICATION No.: 34651K9631

This page transmits Revision No. 01 of Service Bulletin No. A320-21-1150.

ADDITIONAL WORK

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

REASON

This revision is issued to:

- update the effectivity,
- update the Kit A01 and Kit prices,
- update the tests,
- introduce minor changes.

CHANGES

SUMMARY:

- REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES
 - . SB A320-21-1062 and A320-21-1091 deleted.
 - . EVALUATION TABLE, Kit prices updated.
 - . MODIFICATION CLASSIFICATION table added.
- EFFECTIVITY
- . Operators updated.
- MANPOWER
 - Manpower of Kit A01 updated.

PLANNING INFORMATION:

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

- EFFECTIVITY

- . 1.A. Aircraft MSN 0031, 0034, 0035, 0040, 0041, 0091, 0131, 0304 and 0338 deleted from the effectivity. Operators updated.
- REASON
- Objective/Action
- . 1.C.(2) SB A320-21-1062 and A320-21-1091 deleted.
- DESCRIPTION
 - . 1.D.(1) Worksteps for Kit A01 updated.
- MANPOWER
 - . 1.G. Manpower updated.
- REFERENCES
- . 1.J. References for AMM and ESPM added. SB A320-21-1062 and A320-21-1091 deleted.

MATERIAL INFORMATION:

- MATERIAL PRICE AND AVAILABILITY
- . 2.A.(1) Address updated.
- . 2.A.(2) Kit prices updated.
- LIST OF COMPONENTS
 - . 2.C. Kit A01 updated.

ACCOMPLISHMENT INSTRUCTIONS:

- GENERAL
- Preparation
 - . 3.A.(1) Preparation updated.
- Standard Practices
- . 3.A.(2) Standard Practices updated
- MODIFICATION
 - . 3.B.(1) Worksteps updated.
- TESTS

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

- . 3.C. Test updated.
- Figure 5
 - . Sheets 1 thru 3 revised.

NOTE: Layout changes due to computerization of this revision are not identified.

FILING INSTRUCTIONS

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

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

HISTORY OF PREVIOUS REVISIONS

No previous revisions.

REVISION SEQUENCE

ORIGINAL: Jun 30/05

REVISION No.: 01 - Jun 24/09

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

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DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN SUMMARY

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

Tel : (33) 5 61 93 33 33 Telex : AIRBU 530526F Fax : (33) 5 61 93 42 51

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

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AIR COOLING - INSTALL IMPROVED RAM AIR OUTLET (RAO)

MODIFICATION No.: 34651K9631

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Some operators have reported excessive play in the ram air-outlet assembly. In some cases, excessive play of the ram air-outlet assembly has resulted in loud noises and vibrations audible in aircraft during flight.

This Service Bulletin details the removal of the ram air-outlet assembly with movable parts and the installation of a air-outlet assembly without movable parts.

The accomplishment of this Service Bulletin cancels the accomplishment requirements of :

- Service Bulletin No. A320-21-1051, Mod. No. 22995K2883
- Service Bulletin No. A320-21-1057
- Service Bulletin No. A320-21-1098, Mod. No. 25459K4419

The accomplishment of this Service Bulletin avoids loud noises and vibrations audible in aircraft during flight generated from the ram air-outlet assembly.

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)A01	205	KIT PRICE (USD)D01	11195			
KIT PRICE (USD)D02	9705	KIT PRICE (USD)D03	230			

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN SUMMARY

MODIFICATION CLASSIFICATION				
MAJOR	None			
MINOR	34651K9631			

As per EASA IR 21, a minor change is one that has no appreciable effect on the mass, balance, structural strength, reliability, operational characteristics affecting the airworthiness of the product. All other changes are major changes.

EFFECTIVITY

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

06Y 47W 50X 86Z AAF AAN AAR ABQ ACA ADR AFR AHY AJM ALK AMU ANA ART ATC AUA AZA BAB BAW BEL BGH BIE BMA BST BTV CCA CCM CES CGL CIB CLI CQH CQN CSA CSC CSN CTN CYP D2F DLH EEZ EIN ETD F2I FHY G2X G8E GFA HDA HEJ HVN IAC IBE IRA ISR JAV JCS JET KAC KKK LBT LBY LFO LTE LVG MDL MLD MNJ MON MPD MSR MXA MYW NWA OHY P2G PAL RNV RYW RZO SDM SHY SSV SVR SWR TAE TAM TAP TAR TAS TCW TCX THY TNA TOM TRK UAL UDC USA VBW VLK WZZ XLF

CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletin(s) or the equivalent production modification(s):

Service Bulletin No. A320-21-1151 Mod. No. 34732K9632

REFERENCES/REPERCUSSIONS

TFU: None

OEB : None

AOT : None

SIL : None

LIFE LIMIT : None

LINE MAINTENANCE AFFECTED: No

OTHERS : None

NATURE OF THE WORK

AIRCRAFT: YES

EQUIPMENT: YES

HARD: NO

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN SUMMARY

SOFT: NO

OBRM: NO

MANPOWER

Kit 211150A01R01

DATE: Jun 30/05

REVISION No. : 01 - Jun 24/09

•						
	TOTAL MANHOURS	17.00				
	ELAPSED TIME (HOURS)	17.00				
Kit 211150D011	R00					
	TOTAL MANHOURS	8.50				
	ELAPSED TIME (HOURS)	6.00				
Kit 211150D02I						
	TOTAL MANHOURS	8.50				
	ELAPSED TIME (HOURS)	6.00				
Kit 211150D03I	R00					
	TOTAL MANHOURS	2.00				
	ELAPSED TIME (HOURS)	1.00				
MATERIAL INF	ORMATION					
AIRCRAF	T DATA					
Kit 21115	0A01R01					
Moduls ar	nd electrical bundle.					
Kit 21115	0D01R00					
Ran air outlet.						
Kit 211150D02R00						
Bracket and plug.						
Kit 21115	0D03R00					
Brackets,	receptacles and placards.					

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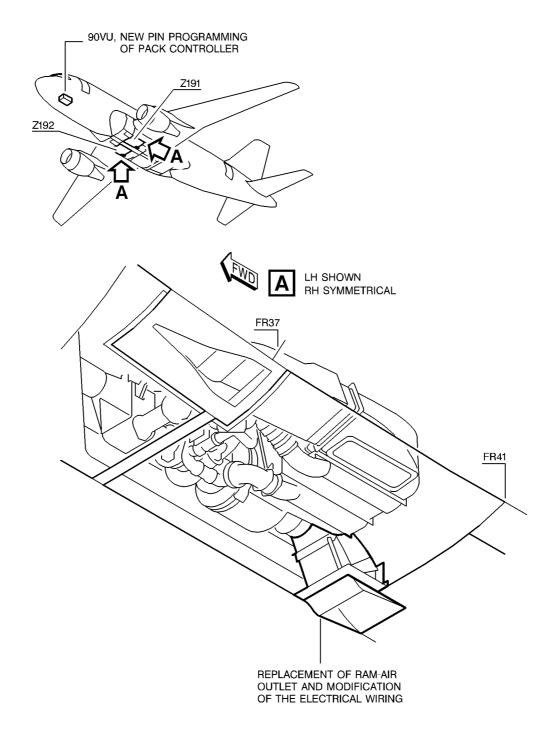
SERVICE BULLETIN No.: A320-21-1150

Page: 3

SERVICE BULLETIN SUMMARY

APPENDICES

None



DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

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1 Rond Point Maurice Bellonte
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Tel: (33) 5 61 93 33 33 Telex: AIRBU 530526F Fax: (33) 5 61 93 42 51

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AIR COOLING - INSTALL IMPROVED RAM AIR OUTLET (RAO)

MODIFICATION No.: 34651K9631

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1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Models

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

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

This Service Bulletin is applicable to aircraft MSN:

0002 0003 0005 0007 0008 0010 0012-0014 0016 0019-0021 0029 0037-0039 0042-0059 0061-0078 0080-0090 0093-0104 0108-0130 0132-0237 0239-0260 0262-0270 0272-0303 0305-0337 0339-0373 0375-0396 0398-0432 0434-0480 0482-0535 0537-0546 0548-0601 0603-0631 0633-0707 0709-0752 0754-0788 0790-0843 0845-0860 0862 0864-0867 0870 0871 0873-0875 0877 0879

(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.

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

OPERATOR MSN

06Y 0313

47W 0764

50X 0543 0661

86Z 0164 0179 0406 0461

AAF 0244 0558 0639 0808 0823

AAN 0430 0527 0565

AAR 0802

ABQ 0394 0443 0760

ACA 0059 0068 0073 0084 0122 0126 0127 0141 0149 0150 0154 0159

0174 0175 0183 0210 0231 0232 0233 0242 0248 0253 0254 0255 0265 0277 0284 0290 0309 0324 0330 0341 0378 0403 0404 0546 0572 0634 0656 0670 0672 0682 0688 0691 0693 0695 0697 0711 0719 0721 0728 0732 0736 0740 0742 0752 0757 0769 0773 0779

0785 0800 0813 0817 0829 0831 0840 0845

ADR 0043 0113 0114

AFR 0002 0005 0007 0010 0012 0013 0014 0016 0019 0020 0021 0044

0061 0062 0063 0100 0101 0102 0108 0115 0128 0129 0130 0133 0144 0145 0155 0156 0184 0186 0187 0188 0214 0226 0227 0228 0235 0236 0237 0239 0270 0278 0285 0286 0287 0337 0352 0377 0491 0498 0509 0521 0529 0544 0598 0600 0608

0618 0625 0637 0777 0796

AHY 0331

AJM 0624 0626 0628

ALK 0169 0315

AMU 0557 0597 0620 0631 0805

ANA 0139 0151 0167 0170 0196 0212 0219 0245 0300 0328 0365 0383

0413 0482 0501 0507 0531 0534 0549 0554 0658 0669 0685

ART 0142 0310 0311 0359 0446 0726

ATC 0630

AUA 0552 0570 0581 0768 0776 0797

AZA 0434 0477 0488 0494 0495 0513 0514 0515 0516 0524 0526 0532

0576 0583 0586 0593 0599 0765 0819 0848

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

OPERATOR MSN

BAB 0579 0645

BAW 0039 0042 0103 0109 0120

BEL 0644

BGH 0221 0294 0305 0349

BIE 0293 0517 0519 0535 0642 0827

BMA 0835

BST 0604 0614

BTV 0168 0441 0449

CCA 0707 0724

CCM 0533 0548

CES 0665 0754 0772 0799 0828 0838 0854

CGL 0234 0453

CIB 0774 0809

CLI 0134 0136 0143 0146 0177 0199 0240 0241 0264

CQH 0879

CQN 0696 0698 0704 0705

CSA 0674 0684

CSC 0540 0550 0551 0556 0573 0582 0591 0874

CSN 0709 0710 0712 0718 0720 0722 0849 0859

CTN 0258 0671 0767 0833

CYP 0037 0038 0180 0256 0295 0316

D2F 0420 0436

DLH 0069 0070 0071 0072 0078 0083 0086 0093 0094 0104 0110 0111

0116 0117 0135 0137 0147 0161 0162 0172 0200 0201 0202 0209 0216 0217 0218 0267 0268 0269 0346 0382 0401 0412 0458 0468 0473 0474 0484 0493 0502 0505 0518 0560 0563 0564 0567 0595 0609 0610 0616 0623 0627 0636 0641 0646 0651 0652 0654 0679 0689 0692 0694 0699 0700 0717 0723 0729 0738

0744 0794 0853 0860 0875

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

OPERATOR MSN

EEZ 0737 0749

EIN 0815 0841

ETD 0350

F2I 0008

FHY 0132 0283 0288 0580 0771 0855

G2X 0189 0190 0289

G8E 0003

GFA 0325 0375 0409 0419 0459 0466 0497 0537 0675 0761

HDA 0633 0756 0784 0812 0877

HEJ 0087 0088

HVN 0590 0594 0601 0605 0607 0611 0617 0619 0648 0650

IAC 0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075

0080 0089 0090 0095 0096 0097 0225 0247 0257 0308 0314 0326 0327 0336 0344 0354 0362 0376 0386 0396 0398 0411 0416 0423

0431 0432 0451 0469 0478 0480 0486 0490 0492 0499

IBE 0158 0173 0176 0207 0223 0224 0266 0274 0323 0356

IRA 0303 0312 0345 0530 0575 0857

ISR 0333 0384

JAV 0029

JCS 0211

JET 0163 0204 0215 0371 0393 0414 0421 0542 0647 0660 0816

KAC 0181 0182 0195

KKK 0460 0640 0676

LBT 0112 0222 0246 0299 0301 0348 0400 0793

LBY 0561

LFO 0659

LTE 0438 0445

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

OPERATOR MSN

LVG 0792

MDL 0279 0391

MLD 0249 0622 0741

MNJ 0615

MON 0379 0389 0392 0864

MPD 0342 0426 0662

MSR 0165 0166 0178 0194 0198 0322 0351 0366 0680 0687 0715 0725

MXA 0252 0259 0260 0275 0276 0280 0291 0292 0296 0320 0321

0332 0347 0353 0357 0361 0368 0369 0373 0405 0415 0428

0447 0467 0566

MYW 0363 0444 0814

NWA 0118 0121 0125 0152 0153 0160 0171 0192 0197 0206 0208 0213

0262 0263 0272 0273 0281 0282 0297 0298 0306 0307 0318 0319 0329 0339 0340 0355 0358 0360 0367 0372 0380 0381 0387 0388 0399 0408 0410 0417 0418 0766 0778 0786 0801

0807 0818 0830 0832 0846

OHY 0364 0385 0455 0471 0663 0668 0787

P2G 0302

PAL 0706 0745

RNV 0229

RYW 0569

RZO 0795

SDM 0427 0525 0649

SHY 0138 0148 0811

SSV 0496

SVR 0140 0157 0203 0220 0735

SWR 0520 0522 0541 0545 0553 0559 0562 0574 0577 0578 0585

0596 0603 0612 0621 0635 0643 0664 0673 0681 0701 0703

0713 0727 0734 0782

TAE 0657

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

OPERATOR MSN

TAM 0243 0250 0251 0334 0335 0440 0758

TAP 0185 0191 0395 0629 0750 0755 0763 0790 0821 0837 0870

TAR 0119 0123 0124 0205 0370 0390 0402 0511

TAS 0667 0739 0743

TCW 0425 0653

TCX 0193 0424 0429 0437 0476 0677 0716

THY 0806 0810

TNA 0538 0555 0606 0731 0746 0791 0822

TOM 0781 0852

TRK 0666 0775

UAL 0435 0439 0442 0450 0452 0454 0456 0457 0462 0463 0464 0465

0470 0472 0475 0479 0483 0485 0487 0489 0500 0503 0504 0506 0508 0510 0512 0523 0539 0568 0571 0587 0589 0592 0613 0638 0655 0678 0683 0686 0690 0702 0748 0751 0759 0780 0783 0788 0798 0804 0820 0824 0825 0826 0834 0836 0842 0843 0847 0850

0851 0858 0862 0865 0867 0871 0873

UDC 0085 0230 0733 0747

USA 0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082

0098 0099 0317 0448 0584 0762 0770 0803 0856 0866

VBW 0588

VLK 0422 0528 0714 0730

WZZ 0839

XLF 0343 0407

(c) Effectivity by MSN and Kit/Configuration

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

0315

KIT No. QTY PER A/C CONFIGURATION

211150A01R01 1 None

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

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

0002-0003 0005 0007-0008 0010 0012-0014 0016 0019-0021 0029 0037-0039 0042-0059 0061-0078 0080-0090 0093-0104 0108-0130 0132-0237 0239-0260 0262-0270 0272-0303 0305-0314 0316-0337 0339-0373 0375-0396 0398-0432 0434-0480 0482-0535 0537-0546 0548-0601 0603-0631 0633-0707 0709-0752 0754-0788 0790-0843 0845-0860 0862 0864-0867 0870-0871 0873-0875 0877 0879

KIT No.	QTY	PER A/C	CONFIGURATION
211150A01	R01	1	None
211150D01	R00	1	None
211150D02	R00	1	None
211150D03	R00	1	None

(3) Spares

None

B. CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletin(s) or the equivalent production modification(s):

Service Bulletin No. A320-21-1151

Mod. No. 34732K9632

C. REASON

(1) History

Some operators have reported excessive play in the ram air-outlet assembly. In some cases, excessive play of the ram air-outlet assembly has resulted in loud noises and vibrations audible in aircraft during flight.

(2) Objective/Action

This Service Bulletin details the removal of the ram air-outlet assembly with movable parts and the installation of a air-outlet assembly without movable parts.

The accomplishment of this Service Bulletin cancels the accomplishment requirements of:

- Service Bulletin No. A320-21-1051, Mod. No. 22995K2883
- Service Bulletin No. A320-21-1057
- Service Bulletin No. A320-21-1098, Mod. No. 25459K4419

(3) Advantages

The accomplishment of this Service Bulletin avoids loud noises and vibrations audible in aircraft during flight generated from the ram air-outlet assembly.

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

(4) Operational/Maintenance Consequences
None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Kit 211150A01R01
 - (a) Modify the wiring and the equipment in the 95VU
 - (b) Modify the wiring and the equipment in the 96VU
- (2) Kit 211150D01R00
 - (a) Remove the RH ram air outlet
 - (b) Install the improved RH ram air outlet
- (3) Kit 211150D02R00
 - (a) Remove the LH ram air outlet
 - (b) Install the improved LH ram air outlet
- (4) Kit 211150D03R00
 - (a) Install the stowage bracket for the electrical plug 9HH-A.
 - (b) Connect the electrical plug 9HH-A.
 - (c) Install the stowage bracket for the electrical plug 29HH-A.
 - (d) Connect the electrical plug 29HH-A.
 - (e) Install the placards:

E. <u>COMPLIANCE</u>

(1) Classification

Desirable

(2) Accomplishment Timescale

In accordance with operators' maintenance schedule.

F. APPROVAL

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

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

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

Kit 211150A01R01

Get access	2.00
Modification to the pin program	10.00
Tests	3.00
Close-up	2.00
TOTAL MANHOURS	17.00
ELAPSED TIME (HOURS)	17.00
Kit 211150D01R00	
Get access	2.00
Modification	3.00
Tests	1.00
Close-up	2.50
TOTAL MANHOURS	8.50
ELAPSED TIME (HOURS)	6.00
Kit 211150D02R00	
Get access	2.00
Modification	3.00
Tests	1.00
Close-up	2.50
TOTAL MANHOURS	8.50

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

ELAPSED TIME (HOURS) 6.00

Kit 211150D03R00

Modification 2.00

TOTAL MANHOURS 2.00

ELAPSED TIME (HOURS) 1.00

H. WEIGHT AND BALANCE

Kit 211150A01R01

Not changed

Kit 211150D01R00

On A319 aircraft

Manufacturers Empty Weight: -7.27 kg (-16.03 lb)

Effect on Balance : -118.50 kgm (-856.85 lb.ft)

On A320 aircraft

Manufacturers Empty Weight: -7.27 kg (-16.03 lb)

Effect on Balance : -130.13 kgm (-940.95 lb.ft)

On A321 aircraft

Manufacturers Empty Weight: -7.27 kg (-16.03 lb)

Effect on Balance : -160.67 kgm (-1161.74 lb.ft)

Kit 211150D02R00

On A319 aircraft

Manufacturers Empty Weight: -8.18 kg (-18.04 lb)

Effect on Balance : -133.33 kgm (-964.10 lb.ft)

On A320 aircraft

Manufacturers Empty Weight: -8.18 kg (-18.04 lb)

Effect on Balance : -146.42 kgm (-1058.73 lb.ft)

On A321 aircraft

Manufacturers Empty Weight: -8.18 kg (-18.04 lb)

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

Effect on Balance : -180.78 kgm (-1307.15 lb.ft)

Kit 211150D03R00

on A319 Aircraft

Manufacturers Empty Weight: +0.09 kg (+0.19 lb)

Effect on Balance : +1.47 kgm (+10.61 lb.ft)

on A320 Aircraft

Manufacturers Empty Weight: +0.09 kg (+0.19 lb)

Effect on Balance : +1.61 kgm (+11.65 lb.ft)

on A321 Aircraft

Manufacturers Empty Weight: +0.09 kg (+0.19 lb)

Effect on Balance : +1.99 kgm (+14.38 lb.ft)

I. ELECTRICAL LOAD DATA

Not changed

J. REFERENCES

Aircraft Maintenance Manual (AMM) : 11-00-00 12-34-24 20-21-11 20-28-00

21-26-00 21-31-34 21-43-34 21-61-00 21-61-34 22-96-00 22-97-00 24-22-33 24-38-51 24-41-00 31-50-00 31-60-00 33-13-00 33-14-00 34-36-31 36-11-34

52-30-00 53-35-13

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

20-52-21 20-55-00

Structural Repair Manual (SRM) : 51-44-11 51-47-00 51-49-00

Service Bulletin No. A320-21-1057

Service Bulletin No. A320-21-1098

Service Bulletin No. A320-21-1151

K. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM) : 21-00-00 21-50-00 21-52-00 21-55-00

21-60-00 21-61-00 21-61-52 21-62-51

21-63-00

Aircraft Wiring Manual (AWM) : 21-61-03 21-61-08 93-00-96

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

Aircraft Schematics Manual (ASM) : 21-61-00

Illustrated Parts Catalog (IPC) : 21-53-03 21-61-03 23-28-08

L. <u>INTERCHANGEABILITY/MIXABILITY</u>

Not applicable

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

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 Material, Logistics and Suppliers Weg beim Jaeger 150 D-22335 Hamburg Germany

For ordering by internet: http://spares.airbus.com

For SB Kits by fax: +49 40 50 76 25 90 For Spares by fax: +49 40 50 76 40 12

(2) Price and Availability

Kit 211150A01R01

Cost : 205 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.

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

Kit 211150D01R00

Cost : 11195 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.

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

Kit 211150D02R00

I

Cost : 9705 US dollars

Availability: 90 calendar days from receipt of order

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

The Kit availability given above is the standard lead time from the date of your purchase order. If you require the Kit(s) before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements.

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

Kit 211150D03R00

I

Cost : 230 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.

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

B. INDUSTRY SUPPORT INFORMATION

AIRBUS will not provide industry support for accomplishment of this Service Bulletin.

C. <u>LIST OF COMPONENTS</u>

Kit 211150A01R01

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT INST DISP
-	E0425A2001 D9000095020095	1		Module Bundle			
	NSA935401-03	10		Tie			
	NSA935401-05	10		Tie			
	NSA935401-13	10		Tie			

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 211150D01R00

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT INST DISP
10	D2157108103000	1	EA	OUTLET ACTUATOR	(10) (11)	D2157108000800 762A0000-04	NOTE (01)
13	NSA5532-917	2	EΑ	CLAMP	(13)	NSA5532-917	
14	D2157160120000	1	EΑ	BELLOWS	(14)	D2157160120000	
15	NSA5030-3-4	6	EΑ	SCREW			
16	NAS1169C10L	6	EΑ	WASHER			
22	NAS6703U4	9	EΑ	BOLT			
23	NAS6703U6	2	EA	BOLT			

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT INST DISP
25	NAS1149C0332R	11	EA	WASHER			
	NOTE(01) Alternative - D215710 - D215710 - D215710 - D215710 - D215710 - D215710	0000100 0000120 0000140 0000160 0000180	0 or 0 or 0 or 0 or 0 or	os. for the ram	n air-outl	et are :	

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 211150D02R00

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT INST DISP
13	NSA5532-917	2	EA	CLAMP	(13)	NSA5532-917	
14	D2157160120000	1	EΑ	BELLOWS	(14)	D2157160120000	
15	NSA5030-3-4	6	EΑ	SCREW			
16	NAS1169C10L	6	EΑ	WASHER			
22	NAS6703U4	4	EΑ	BOLT			
23	NAS6703U6	2	EΑ	BOLT			
24	NAS6703U5	5	EΑ	BOLT			
25	NAS1149C0332R	11	EΑ	WASHER			
30	D2157100103000	1	EΑ	OUTLET	(30)	D2157100000800	NOTE (01)
				ACTUATOR	(31)	762A0000-04	

NOTE(01) Alternative OLD PART Nos. for the ram air-outlet are:

- D2157100001000 or
- D2157100001200 or
- D2157100001400 or
- D2157100001600 or
- D2157100001800 or
- D2157100002000.

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 211150D03R00

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT INST DISP
40 41 42	D9249177125400 LN9198-3210BF NAS1149DN416K	2 8 8		BRACKET RIVET WASHER			

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT INST DISP
							_
43	NAS1100-04-8	8	EΑ	SCREW			
44	NSA935401-03	10	EΑ	TIE			
45	D9289180820000	1	EΑ	PLACARD			
46	EN3646A514	2	EΑ	RECEPTCL			
47	MS21042L04	8	EΑ	NUT			

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.

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

(1) Consumable Materials

DESCRIPTION	REFERENCE TO CML MAT No.	QTY PER A/C IN	NST/DISP
Varnish Varnish Adhesive Sealant Cleaning agent	Mat. No. 07-003C Mat. No. 07-023 Mat. No. 08-010A Mat. No. 09-013 Mat. No. 11-026	As required As required As required As required As required	

(2) Components

None

E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

None

F. TOOLING - PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND CAUTIONS INCLUDED

IN THE REFERENCED PROCEDURES.

WARNING: MAKE SURE THAT AIR IS NOT SUPPLIED TO THE AIR CONDITIONING

SYSTEM FROM THE MAIN ENGINE, THE APU OR A GROUND SOURCE. HOT

COMPRESSED AIR CAN CAUSE INJURY TO PERSONNEL.

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 ELECTRICAL 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) Make sure that the aircraft is electrically grounded, refer to AMM 12-34-24, Page block 201.
- (b) Energize the aircraft electrical circuits, refer to AMM 24-41-00, Page block 201.
- (c) Put access platform(s) in position below:
 - the FWD cargo-compartment door and
 - the ram air outlets 9HH and 29HH, Z190.
- (d) Remove the access panels 191KB and 195AB for access to the LH ram-air outlet, refer to AMM 53-35-13, Page block 401.
- (e) Remove the access panels 192KB and 196AB for access to the RH ram-air outlet, refer to AMM 53-35-13, Page block 401.
- (f) Open the FWD cargo-compartment door, refer to AMM 52-30-00, Page block 201:

NOTE: Make sure that the applicable safety equipment is installed at the AFT cargo-compartment door.

(g) Open, safety and tag these circuit breakers :

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

PANEL	DESIGNATION	FIN	LOCATION	
122VU	AIR COND/PACK TEMP/CTL SYS1/1/115VAC	1HH	22 X	_
122VU	AIR COND/PACK TEMP/CTL SYS1/1/28VDC	3НН	21 X	
122VU	AIR COND/PACK TEMP CTL SYS2/1/28VDC	4HH	19 Y	
122VU	AIR COND/PACK TEMP CTL SYS2/1/115VAC	2HH	18 Y	
122VU	AIR COND/PACK TEMP/CTL SYS1/2/115VAC	21HH	22 W	
122VU	AIR COND/PACK TEMP/CTL SYS1/2/28VDC	23HH	21 W	
122VU	AIR COND/PACK TEMP CTL SYS2/2/28VDC	24HH	21 Y	
122VU	AIR COND/PACK TEMP CTL SYS2/2/115VAC	22HH	20 Y	

NOTE: The location of the circuit breaker(s) can be different from the location given in the table.

- (h) Make sure that the external connector(s) is (are) not connected to the aircraft receptacle(s) EXT PW.
- (i) Make sure that there is (are) warning notice(s) on external power receptacle to tell persons not to connect an external power source.
- (j) Make sure that the EMER EXIT LT pushbutton switch on 25VU is on OFF position.
- (k) In the cockpit, on the overhead panel 35VU release BAT pushbutton switches.
- (I) Put a warning notice on panel 35VU to tell persons not to operate the batteries.
- (m) Put a warning notice on refuel/defuel panel 800VU to tell persons not to operate the NORMAL BATTERY switch.
- (n) Put a warning notice in the cockpit to tell persons not to start the APU.
- (o) Put a warning notice in the cockpit to tell persons not to start the ENG1,2
- (p) Battery disconnection:
 - For Job Set-up, refer to Removal of the Batteries, (Refer to AMM 24-38-51, Page block 401)
 - Turn the knurled nut a quarter turn
 - 3 Disconnect the connectors
 - 4 Put blanking caps on the disconnected electrical connectors

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

- (q) Do the preparation procedure as specified in the removal of the EGIU-1(2) (22XU1, 22XU2) (Refer to AMM 24-22-33, Page block 401).
- (r) Do the preparation procedure as specified in the removal of the ILS Receiver (2RT1, 2RT2) (Refer to AMM 34-36-31, Page block 401).
- (s) Do the preparation procedure as specified in the removal of the BMC (1HA1, 1HA2) (Refer to AMM 36-11-34, Page block 401).
- (t) Do the preparation procedure as specified in the removal of the Cabin Pressure Controller (11HL, 12HL) (Refer to AMM 21-31-34, Page block 401).
- (u) Do the preparation procedure as specified in the removal of the Pack Controller (7HH, 27HH) (Refer to AMM 21-61-34, Page block 401).
- (v) On the HP ground connector put a warning notice to tell persons not to supply the ground air.

(2) Standard Practices

- (a) Refer to the AIRBUS Standards Manual (SM) if you find part numbers for the hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin. The SM will give you the correct part number to part number relationship.
- (b) For material specifications (Mat. No.) given in this Service Bulletin, refer to the Consumable Material List (CML).
- (c) Clean the work area with cleaning agent (Mat. No. 11-026).
- (d) For fasteners hole and drill data, refer to SRM 51-44-11.
- (e) For fastener spacing and margin data, refer to SRM 51-47-00.
- (f) After drilling, remove all the burrs from the holes.
- (g) Cut the solid rivets to the correct length, as necessary.
- (h) Before installation of structural items apply sealant (Mat. No. 09-013) on all mating surfaces.
- (i) For surface protection of structural items apply varnish (Mat. No. 07-003C).
- (j) For the installation of placards, refer to AMM 11-00-00, Page block 201:
 - Clean the areas with cleaning agent (Mat. No. 11-026) where you will install the placards.
 - 2 Bond the placards to the structure with adhesive (Mat. No. 08-010A).
 - 3 Protect the placards with varnish (Mat. No. 07-023).

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

- (k) For torque values of standard threaded fasteners, refer to AMM 20-21-11, Page block 201 and SRM 51-49-00.
- (I) Obey the instructions for the general wiring installation, Refer to ESPM 20-33-00.
- (m) Put blanking caps on open electrical connectors.
- (n) To install new wires, cut them to the necessary length, crimp the terminals and connect them.
- (o) Do a continuity test of the new wires and modified wires (Refer to ESPM 20-52-21)
- (p) Route the new wires with the wires that are in the aircraft.
- (q) For the cable tie application and tooling, (Refer to ESPM 20-25-51 20-33-44)

B. MODIFICATION

- (1) Kit 211150A01R01
 - (a) Modify the wiring and the equipment in the 95VU

Refer to figure 1

Refer to figure 2

Refer to figure 3

1 On aircraft, remove the computers 2RT1, 22XU1, 1HA1, 11HL, 7HH:

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

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

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

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

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

- 1 ILS Receiver 1 Retain
- 1 EGIU-1 Retain
- 1 BMC-1 Retain
- 1 CPC-1 Retain

2

1 Pack Controller 1 Retain

NOTE: You must install these computers again after the modification of the wiring.

...g.

Put blanking caps on the disconnected connectors.

<u>3</u> Disconnect the bonding braid.

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

4 Remove the attachment hardware from the shelf.

NOTE: Retain the hardware.

- 5 Remove the Shelf 95VU and install it on the work bench.
- 6 Install the wire as shown on the wiring diagram, Refer to figure 2 and as given in the Hook-up Chart (Refer to figure 3) line 1 and supplied in :

1 Bundle D9000095020095

7 Attach the wires with:

10	Tie-Cable	NSA935401-03
10	Tie-Cable	NSA935401-05
10	Tie-Cable	NSA935401-13

- 8 Install the Shelf 95VU on the aircraft
 - a Do the electrical bonding on the shelf attachment.
 - <u>b</u> Attach the Shelf 95VU and connect the bonding braid with the hardware retained at removal.
 - c Connect the related connectors.
 - d On the Shelf 95VU, install the computers 2RT1, 22XU1, 1HA1, 11HL, 7HH:

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

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

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

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

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

- 1 ILS Receiver 1
- 1 EGIU-1
- 1 BMC-1
- 1 CPC-1
- 1 Pack Controller 1

NOTE: These computers were retained at removal.

(b) Modify the wiring and the equipment in the 96VU Refer to figure 1 Refer to figure 2

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

Refer to figure 3

1 On aircraft, remove the computers 2RT2, 22XU2, 1HA2, 12HL, 27HH:

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

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

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

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

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

- 1 ILS Receiver 2 Retain
- 1 EGIU-2 Retain
- 1 BMC-2 Retain
- 1 CPC-2 Retain
- 1 Pack Controller 2 Retain

NOTE: You must install these computers again after the modification of

the wiring.

- 2 Put blanking caps on the disconnected connectors.
- 3 Disconnect the bonding braid.
- 4 Remove the attachment hardware from the shelf.

NOTE: Retain the hardware.

- 5 Remove the Shelf 96VU and install it on the work bench.
- 6 Install in shelf 96VU, if necessary:

1 Module E0425A2001 Item 2

Install the wire as shown on the wiring diagram, Refer to figure 2 and as given in the Hook-up Chart (Refer to figure 3) line 2 and supplied in :

1 Bundle D9000095020095

8 Attach the wires with:

 10
 Tie-Cable
 NSA935401-03

 10
 Tie-Cable
 NSA935401-05

 10
 Tie-Cable
 NSA935401-13

9 Install the Shelf 96VU on the aircraft

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

		<u>a</u>	Do the ele	ectrical bonding o	on the shelf attachmen	ıt.	
		<u>b</u>	Attach the retained at		connect the bonding I	oraid with the h	nardware
		<u>c</u>	Connect th	ne related connec	ctors.		
		<u>d</u>	On the She	elf 96VU, install t	he computers 2RT2, 2	2XU2, 1HA2,	12HL, 27HH
			(Refer to A	MM 21-31-34, P	age block 401)		
			(Refer to A	MM 21-61-34, P	age block 401)		
			(Refer to A	MM 24-22-33, P	age block 401)		
			(Refer to A	MM 34-36-31, P	age block 401)		
			(Refer to A	MM 36-11-34, P	age block 401)		
			1 ILS Rece	eiver 2			
			1 EGIU-2				
			1 BMC-2				
			1 CPC-2				
			1 Pack Co	ntroller 2			
			NOTE :	These compute	ers were retained at re	moval.	
Kit 21	115	0D0′	1R00				
(a)			e the RH ra Figure 4	m air outlet			
	<u>1</u>				actuator 29HH, item (ure 4, Sheet 2, Detail I		ical plug
	<u>2</u>		sen from thail B:	ne input side of th	ne bellow, item (14), re	efer to Figure 4	, Sheet 2,
		l	clamp			Item (13)	
	<u>3</u>	Rer	move from t	he ram air outlet	RH, item (10), refer to	Figure 4, Shee	et 2, Detail B :
	6		bolt			Item (15)	discard
			washer			Item (16)	discard
	<u>4</u>	Rer	move, refer	to Figure 4, She	et 3, Detail D :		
	,		bolt nut			Item (18) Item (19)	discard discard

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

REVISION No. : 01 - Jun 24/09 Page : 23

(2)

SERVICE BULLETIN

1	washer		Item (20)	discard	
CAUTION	I: TO REMOVE THE R SECOND PERSON	AM AIR OUTLET ASS IS NEEDED.	SEMBLY, ITEM	l (10), A	
<u>5</u> Remo	ove, refer to Figure 4, She	eet 2, Detail B and She	eet 3, Detail C	:	
9	bolt		Item (22)	discard	
2	bolt		Item (23)	discard	
11	washer		Item (25)	discard	
and, r	efer to Figure 4, Sheet 2	P, Detail B:			
1	air-outlet assy		Item (10)	See NOTE	
1	actuator		Item (11)	discard	
2	clamp		Item (13)	discard	
1	bellow		Item (14)	discard	
1	seal		Item (26)	retain	
Install the	NOTE: The removed ram air-outlet assembly, item (10), consist of one of these alternative PNs: - D2157108001000 or - D2157108001400 or - D2157108001800 or - D2157108002000 or - D2157108002200 or - D2157108002400 Install the improved RH ram air outlet Refer to Figure 4				
CAUTION	I: TO INSTALL THE RA	AM AIR OUTLET ASS IS NEEDED.	EMBLY, ITEM	10, A	
1 Install	l, refer to Figure 4, Sheet	t 4, Detail B and Sheet	5, Detail C:		
1	outlet	D2157108103000	Item 10		
with					
2	clamp	NSA5532-917	Item 13		
1	bellow	D2157160120000	Item 14		
9	bolt	NAS6703U4	Item 22		
2 11	bolt washer	NAS6703U6 NAS1149C0332R	Item 23 Item 25		
	wasiici	14A0114300332K	nem 20		
and					
1	seal		Item (26)	retained	

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

2 Install, refer to Figure 4, Sheet 4, Detail B:

REVISION No. : 01 - Jun 24/09 Page : 24

(b)

SERVICE BULLETIN

6	screw	NSA5030-3-4	Item 15
6	washer	NAS1169C10L	Item 16

- (3) Kit 211150D02R00
 - (a) Remove the LH ram air outlet Refer to Figure 4
 - 1 Remove from the air outlet flap actuator 9HH, item (31), the electrical plug 9HH-A, item (32), refer to Figure 4, Sheet 2, Detail B:
 - 2 Loosen from the input side of bellow, item (14), refer to Figure 4, Sheet 2, Detail B.
 - 1 clamp ltem (13)
 - 3 Remove from the ram air outlet LH, item (30), refer to Figure 4, Sheet 2, Detail B:

6	bolt	Item (15)	discard
6	washer	Item (16)	discard

4 Remove, refer to Figure 4, Sheet 3, Detail D:

1	bolt	Item (18)	discard
1	nut	Item (19)	discard
1	washer	Item (20)	discard

CAUTION: TO REMOVE THE RAM AIR OUTLET ASSEMBLY, ITEM (30), A SECOND PERSON IS NEEDED.

5 Remove, refer to Figure 4, Sheet 2, Detail B and Sheet 3, Detail C:

4	bolt	Item (22)	discard
2	bolt	Item (23)	discard
5	bolt	Item (24)	discard
11	washer	Item (25)	discard

and

1	air-outlet assy	Item (30)	See NOTE
1	actuator	Item (11)	discard
2	clamp	Item (13)	discard
1	bellow	Item (14)	discard
1	seal	Item (26)	retain

NOTE: The removed ram air-outlet assembly, item (30), consist of one of

these alternative PNs:

- D2157100000800 or
- D2157100001000 or
- D2157100001200 or
- D2157100001400 or
- D2157100001600 or
- D2157100001800 or

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

- D2157100002000

(b) Install the improved LH ram air outlet Refer to Figure 4

CAUTION: TO INSTALL THE RAM AIR OUTLET ASSEMBLY, ITEM 30, A SECOND PERSON IS NEEDED.

1 Install, refer to Figure 4, Sheet 4, Detail B:

1	outlet	D2157100103000	Item 30	
with				
2 1 4 5 2 11	clamp bellow bolt bolt bolt washer	NSA5532-917 D2157160120000 NAS6703U4 NAS6703U5 NAS6703U6 NAS1149C0332R	Item 13 Item 14 Item 22 Item 24 Item 23 Item 25	
and				
1	seal		Item (26)	etained

2 Install, refer to Figure 4, Sheet 4, Detail B:

6	screw	NSA5030-3-4	Item 15
6	washer	NAS1169C10L	Item 16

- (4) Kit 211150D03R00 Refer to Figure 5 Refer to Figure 6 (Wiring)
 - (a) Install the stowage bracket for the electrical plug 9HH-A.
 - 1 Put this item into position at the front side of the web traverse between FR40 LH and FR41 LH and transfer drill the four attachment holes, as shown in Figure 5, Sheet 2, Detail C.

1 bracket D9249177125400 Item 40

2 Install, as shown in Figure 5, Sheet 2, Detail C.

1 bracket D9249177125400 Item 40 4 rivet LN9198-3210BF Item 41

3 Install this item to the bracket, item 40, as shown in Figure 5, Sheet 3, Detail E.

1 receptacle EN3646A514 Item 46

with:

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

4	washer	NAS1149DN416K	Item 42
4	screw	NAS1100-04-8	Item 43
4	nut	MS21042L04	Item 47

- (b) Connect the electrical plug 9HH-A.
 - Connect the electrical plug 9HH-A to its stowage position, as shown in Figure 5, Sheet 3, Detail E and Figure 6, Sheet 1 and Sheet 2.
 - 2 As necessary, attach the harness with:

1 tie-cable NSA935401-03

- (c) Install the stowage bracket for the electrical plug 29HH-A.
 - Put this item into position at the front side of the web traverse between FR40 RH and FR41 RH and transfer drill the four attachment holes, as shown in Figure 5, Sheet 2, Detail D.

1 bracket D9249177125400 Item 40

2 Install, as shown in Figure 5, Sheet 2, Detail D.

1 bracket D9249177125400 Item 40 4 rivet LN9198-3210BF Item 41

3 Install to the bracket, item 40, as shown in Figure 5, Sheet 3, Detail F.

1 receptacle EN3646A514 Item 46

with:

4	washer	NAS1149DN416K	Item 42
4	screw	NAS1100-04-8	Item 43
4	nut	MS21042L04	Item 47

- (d) Connect the electrical plug 29HH-A.
 - Connect the electrical plug 29HH-A to its stowage position, as shown in Figure
 Sheet 3, Detail F and Figure 6, Sheet 1 and Sheet 3.
 - 2 As necessary, attach the harness with:

1 tie-cable NSA935401-03

- (e) Install the placards:
 - Install the placards 9HH-A and 29HH-A as shown in 5, Sheet 3, Details E and F supplied with :

1 placard D9289180820000 Item 45

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

C. TEST

- (1) Battery re-connection
 - (a) For Job Set-up, refer to Installation of the Batteries, (Refer to AMM 24-38-51, Page block 401)
 - (b) Remove the blanking cap from the electrical connectors
 - (c) Make sure that the electrical connectors are clean and in correct condition
 - (d) Connect the connector on the battery
 - (e) Turn the knurled nut a quarter turn
- (2) Remove all warning notices
- (3) Restore the systems and the aircraft to normal operating condition
- (4) Preliminary Tests:

NOTE: If the aircraft is operated in CAT 3 conditions, you must also do the Land CAT 3 Capability Test, (Refer to AMM 22-97-00, Page block 501)

- (a) On each connector which was disconnected:
 - 1 Do the checks as defined by ESPM 20-52-10)

NOTE: The Functional test and/or operational test requested by this ESPM procedure is given hereafter.

- (b) O/T of the Instrument and Panel Integral Lighting, (Refer to AMM 33-13-00, Page block 501)
- (c) O/T of the Light, (Refer to AMM 33-14-00, Page block 501)
- (d) O/C of the System via MCDU, (Refer to AMM 21-26-00, Page block 501)
- (e) O/T of the AFS, (Refer to AMM 22-96-00, Page block 501)
- (f) O/T of the EIS, (Refer to AMM 31-60-00, Page block 501)
- (g) O/T of the ECAM Control Panel, (Refer to AMM 31-50-00, Page block 501)
- (h) Ground Scanning of the Central Warning System, (Refer to AMM 31-50-00, Page block 501)
- (5) Procedure:
 - (a) Tests after the removal/installation of the Shelf 95VU
 - 1 Do the test after the removal/installation of the cabin pressure controller (11HL),

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

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

2 Do the test after the removal/installation of the pack controller (7HH),

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

3 Do the test after the removal/installation of the EGCIU-1 (22XU1),

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

4 Do the test after the removal/installation of the ILS receiver (2RT1),

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

5 Do the test after the removal/installation of the BMC (1HA1),

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

- 6 If removed, do the test after the installation of the AFT cargo Heat controller (10HC) (Refer to AMM 21-43-34, Page block 401)
- (b) Tests after the removal/installation of the Shelf 96VU
 - 1 Do the test after the removal/installation of the cabin pressure controller (12HL),

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

2 Do the test after the removal/installation of the pack controller (27HH),

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

3 Do the test after the removal/installation of the EGCIU-1 (22XU2),

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

4 Do the test after the removal/installation of the ILS receiver (2RT2),

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

5 Do the test after the removal/installation of the BMC (1HA2),

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

- 6 If removed, do the test after the installation of the AFT cargo Heat controller (10HC) (Refer to AMM 21-43-34, Page block 401)
- (c) Test electrical bonding on the shelf attachement:
 - 1 Do a check of the Electrical Bonding (Refer to AMM 20-28-00, Page block 501)

NOTE: For maximum permissible resistance values: (Refer to AMM 20-28-00, Page block 501)

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

(6) Do the operational test of the Pack Temperature-Control System, (Refer to AMM 21-61-00, Page block 501).

D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Restore the systems and the aircraft to normal operating condition.
- (3) Remove the access platform(s).

E. **DOCUMENTATION**

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

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

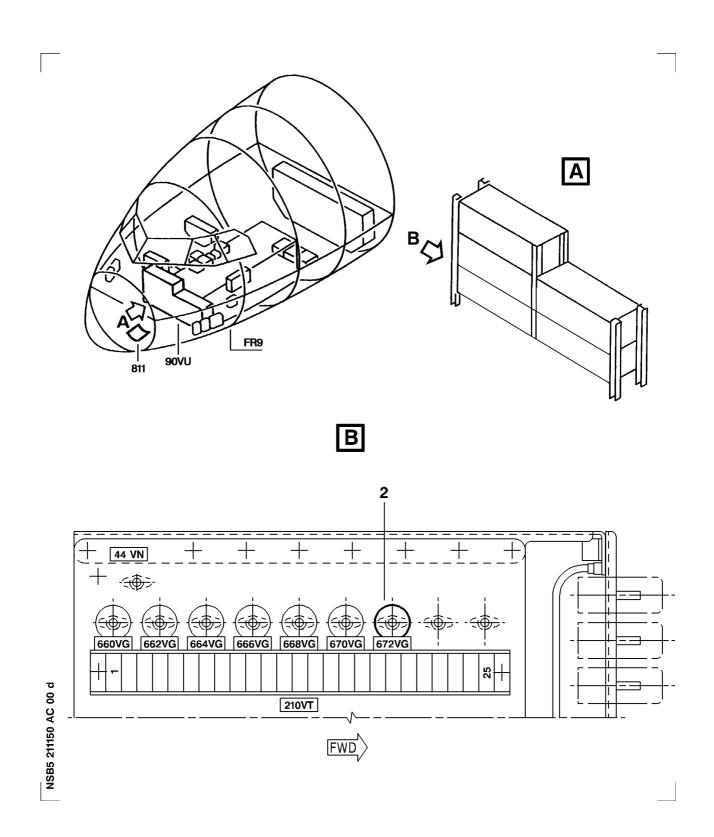


Figure 1, Sheet 1 Modification of the Equipment in the Shelf 96VU

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

F.R. — DC2

672VG
1222
96VU

F.R. — GB

27HH CONT
PACK 2
122 96VU

F.R. — GB

7HH CONT
PACK 1
121 95VU

---- NEW WIRE

F.R. FOR REFERENCE

NB5211150ABAA

NOTE: UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2161 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

Figure 2, Sheet 1 Modification to the Wiring in the Shelves 95VU and 96VU

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

L	END 1			L E A D						END 2					
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Со	Rte	Gauge	Leng mm	th Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Instructions
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	95VU 96VU	7нн - АА 27нн - АА	l		2161-0509 2161-0510			CF24 CF24	2000	80	95VU 96VU	673VG 672VG		EN3155-015F2018 EN3155-015F2018	

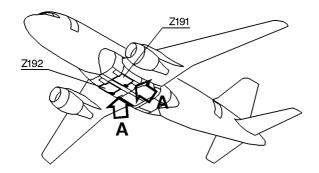
(a) = BUNDLE D9000095020095

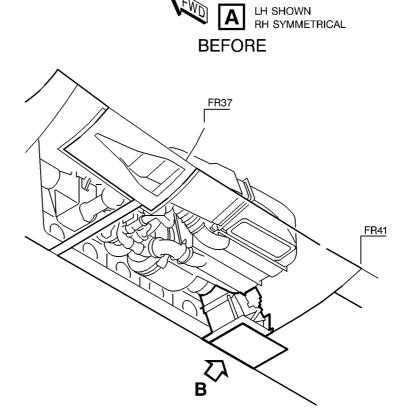
A = ADDED WIRE

Figure 3, Sheet 1 Hook-up Chart

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN





NB6 21 1150 ACMA-A

Figure 4, Sheet 1
Replacement of the Ram Air-Outlets LH and RH

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

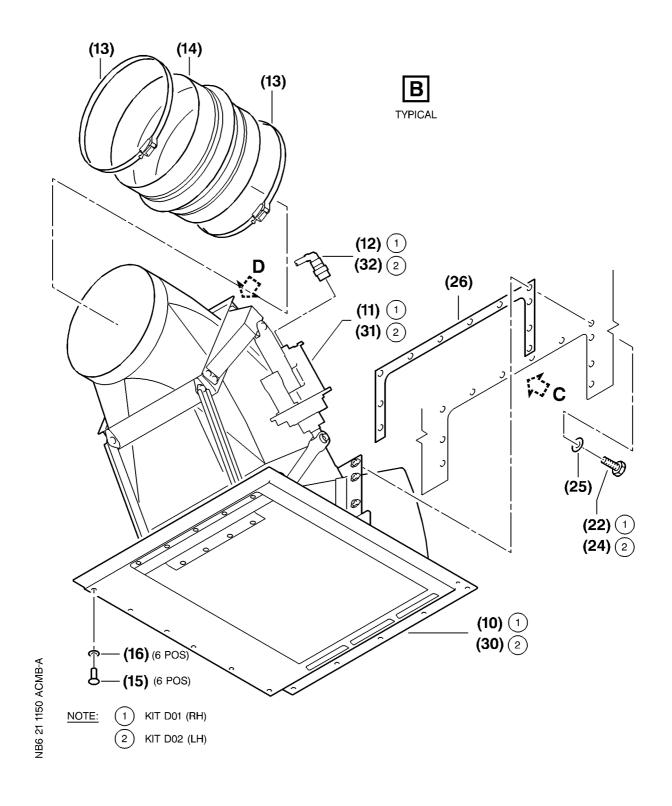


Figure 4, Sheet 2
Replacement of the Ram Air-Outlets LH and RH

DATE: Jun 30/05 SERVICE BULLETIN No.: A320-21-1150

SERVICE BULLETIN

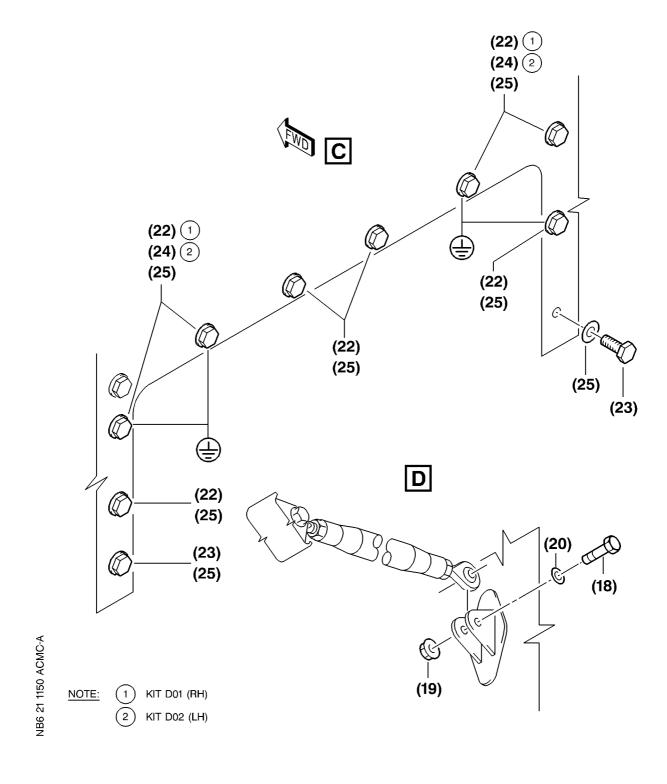


Figure 4, Sheet 3
Replacement of the Ram Air-Outlets LH and RH

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

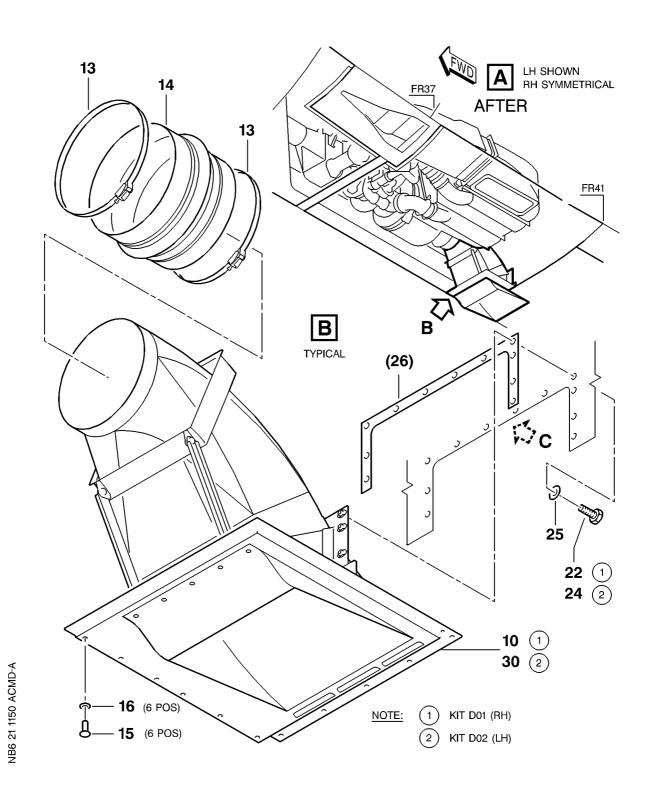
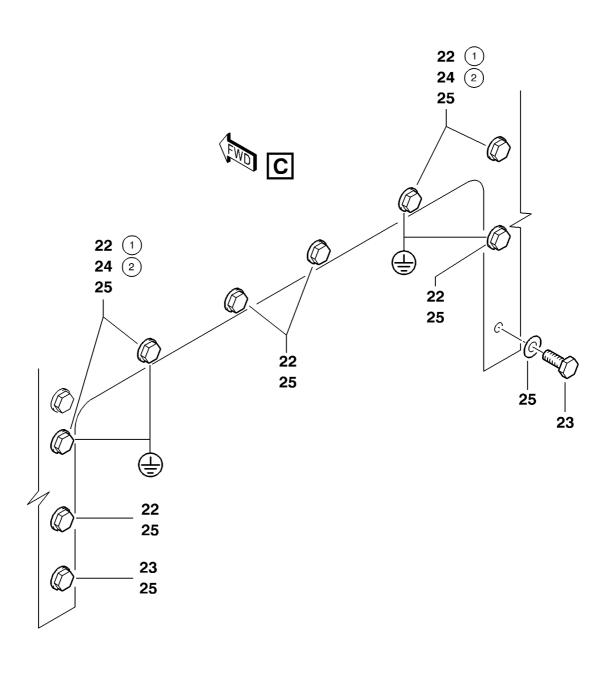


Figure 4, Sheet 4
Replacement of the Ram Air-Outlets LH and RH

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN



NB6 21 1150 ACME-A

NOTE: 1 KIT D01 (RH)
2 KIT D02 (LH)

Figure 4, Sheet 5
Replacement of the Ram Air-Outlets LH and RH

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

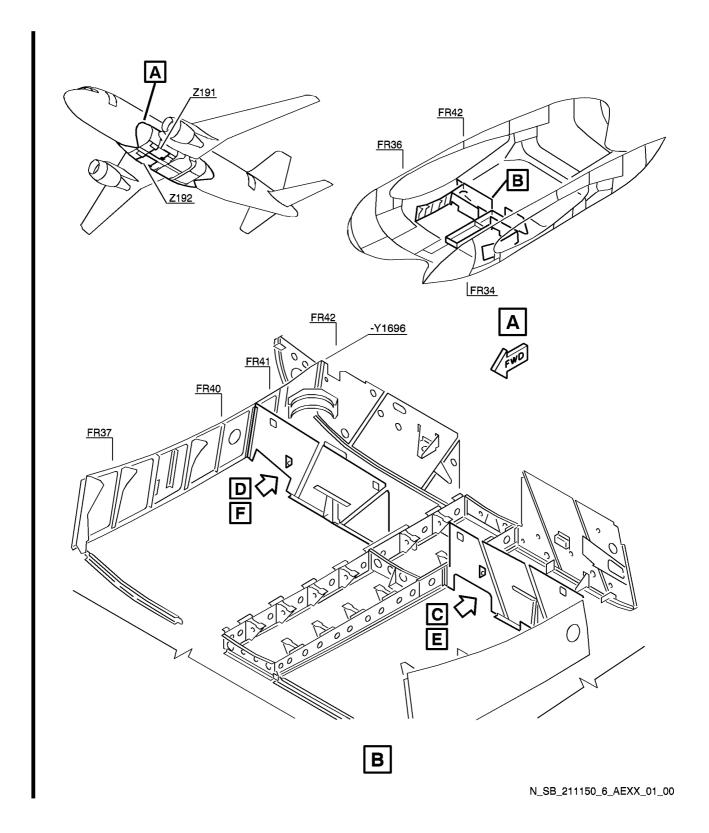
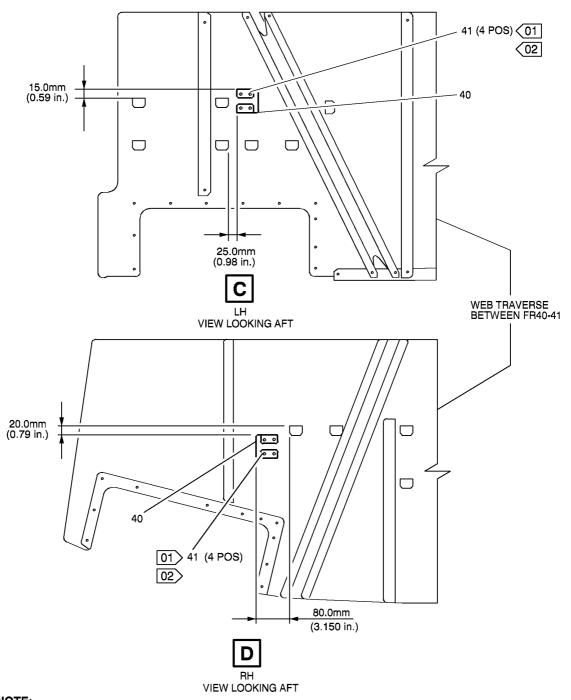


Figure 5, Sheet 1 Installation of Stowage Brackets for Electrical Plugs 9HH-A and 29HH-A

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN



NOTE:

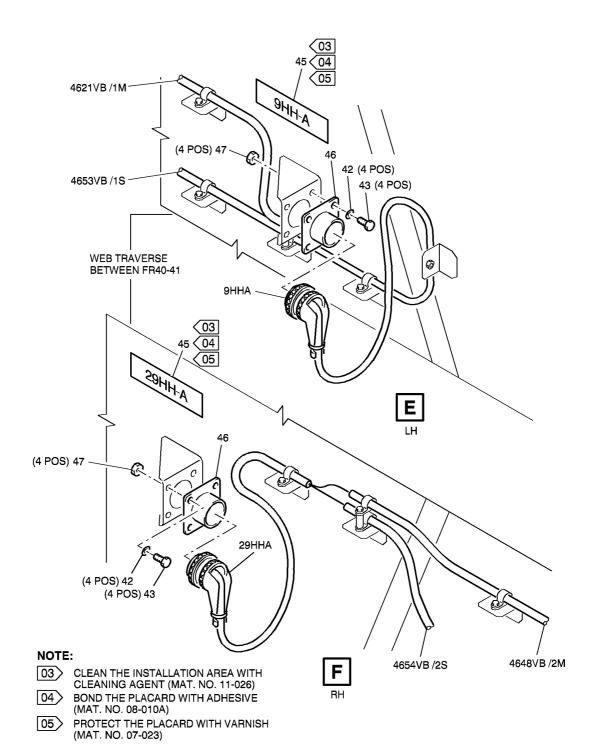
- 01 INSTALL WITH SEALANT (MAT.NO.09-013)
- 02 PROTECT WITH VARNISH (MAT.NO.07-003C)

N_SB_211150_6_AEXX_02_00

Figure 5, Sheet 2
Installation of Stowage Brackets for Electrical Plugs 9HH-A and 29HH-A

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN



N_SB_211150_6_AEXX_03_00

Figure 5, Sheet 3 Installation of Stowage Brackets for Electrical Plugs 9HH-A and 29HH-A

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

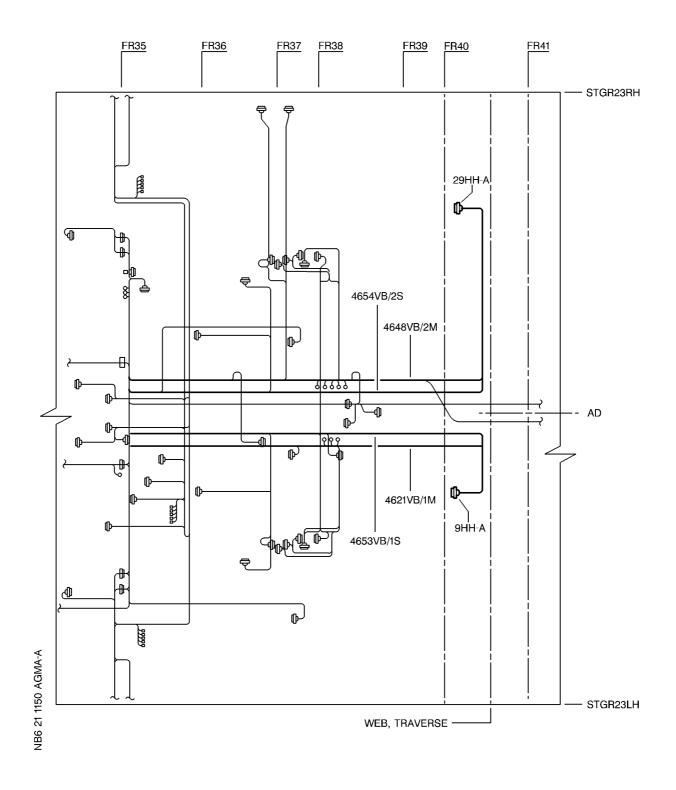


Figure 6, Sheet 1 Wiring

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

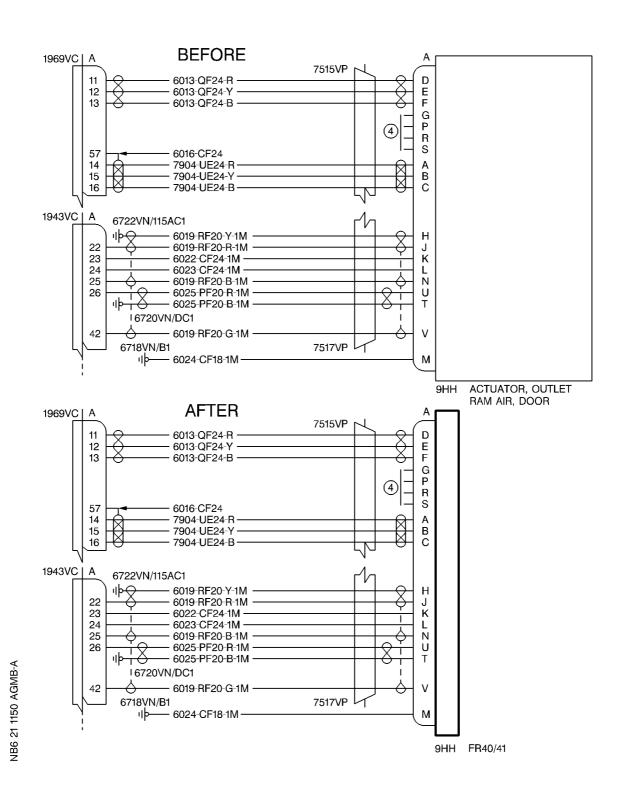


Figure 6, Sheet 2 Wiring

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN

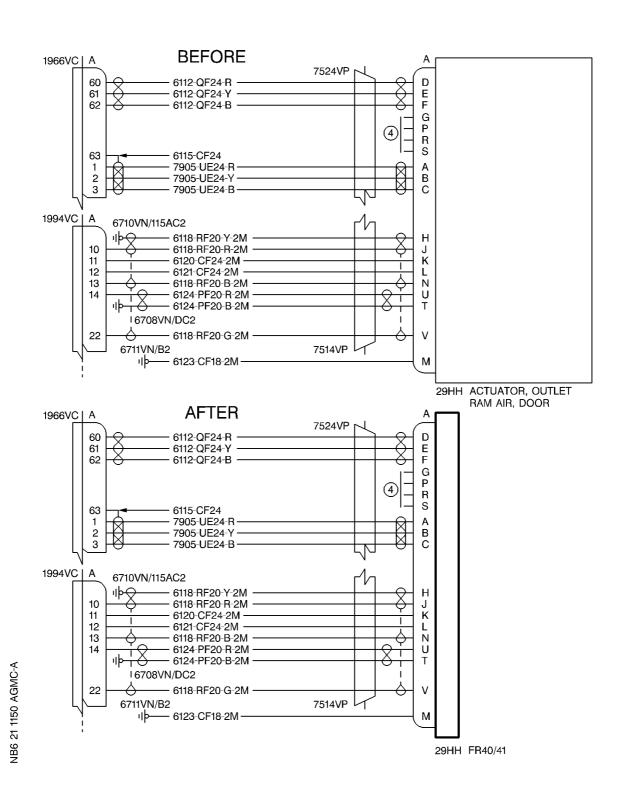


Figure 6, Sheet 3 Wiring

DATE : Jun 30/05 SERVICE BULLETIN No. : A320-21-1150

SERVICE BULLETIN REPORTING SHEET

TITLE: AIR CONDITIONING - AIR COOLING - INSTALL IMPROVED RAM AIR OUTLET (RAO)

MODIFICATION No.: 34651K9631 Please complete the appropriate item (A or B): If YES, aircraft concerned (as per SB effectivity by default) and planned dates (month/year) of embodiement: B - SB HAS BEEN embodied on aircraft: Operator comments: From Airline: Name/Title: Signature:..... Date: If operational documentation is affected (see Paragraph 1.K of this SB): If information is needed prior to next normal revision or prior to SB embodiment, please indicate required service(s): Either : Advance data...... YES/NO Or Important Information: This SB will only be incorporated in your maintenance and operational documentation

<u>Important Information:</u> 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.

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FAX: (+33) 5 61 93 28 06 e-mail: sb.reporting@airbus.com

Or via your Resident Customer Support Office.

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

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SERVICE BULLETIN REPORTING QUALITY

TITLE: AIR CONDITIONING - AIR COOLING - INSTALL IMPROVED RAM AIR OUTLET (RAO)

MODIFICATION No.: 34651K9631

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 futher 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)

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-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		

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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:

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