

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 - AVIONICS EQUIPMENT VENTILATION -
OPTIMIZE VENTILATION OF T3CAS INSTALLED IN 82VU**

****CONF ALL**

MODIFICATIONS

MODIFICATION CLASSIFICATION					
MAJOR	None				
MINOR	152526K15298				

NOTE: 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.

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Investigations have shown, that the T3CAS computer is not sufficiently cooled by air. The reason for the insufficient air cooling is the non optimized position of the open ventilation holes.

To improve the airflow, it is necessary to adjust the ventilation hole plugs on the rack into an optimized position.

This Service Bulletin details the work necessary to optimize the ventilation hole plugs.

The accomplishment of this Service Bulletin will ensure an enhanced airflow in the affected avionic rack.

GENERAL EVALUATION

EVALUATION TABLE			
COMPLIANCE	RECOMMENDED (1)	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

NOTE (1): Service Bulletin recommended to be accomplished to prevent significant operational disruptions.

SERVICE BULLETIN
SUMMARY**MATERIAL PRICE INFORMATION**

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	QTY PER A/C	PRICE PER A/C (USD)	MAIN PARTS
Kit 211202D01R00	1	25.00	Cover

EFFECTIVITY

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

ANZ CEB GFA LAA NLY QTR

CONCURRENT REQUIREMENTS

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

Service Bulletin No. none Mod. No. 39146P10960

REFERENCES / REPERCUSSIONS

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

NATURE OF THE WORK

AIRCRAFT	YES
EQUIPMENT	NO
HARD	NO
SOFT	NO
OBRM	NO

MANPOWER

Task 211202-831-848-001: Modification	
TOTAL MANHOURS	0.75
ELAPSED TIME (HOURS)	0.75

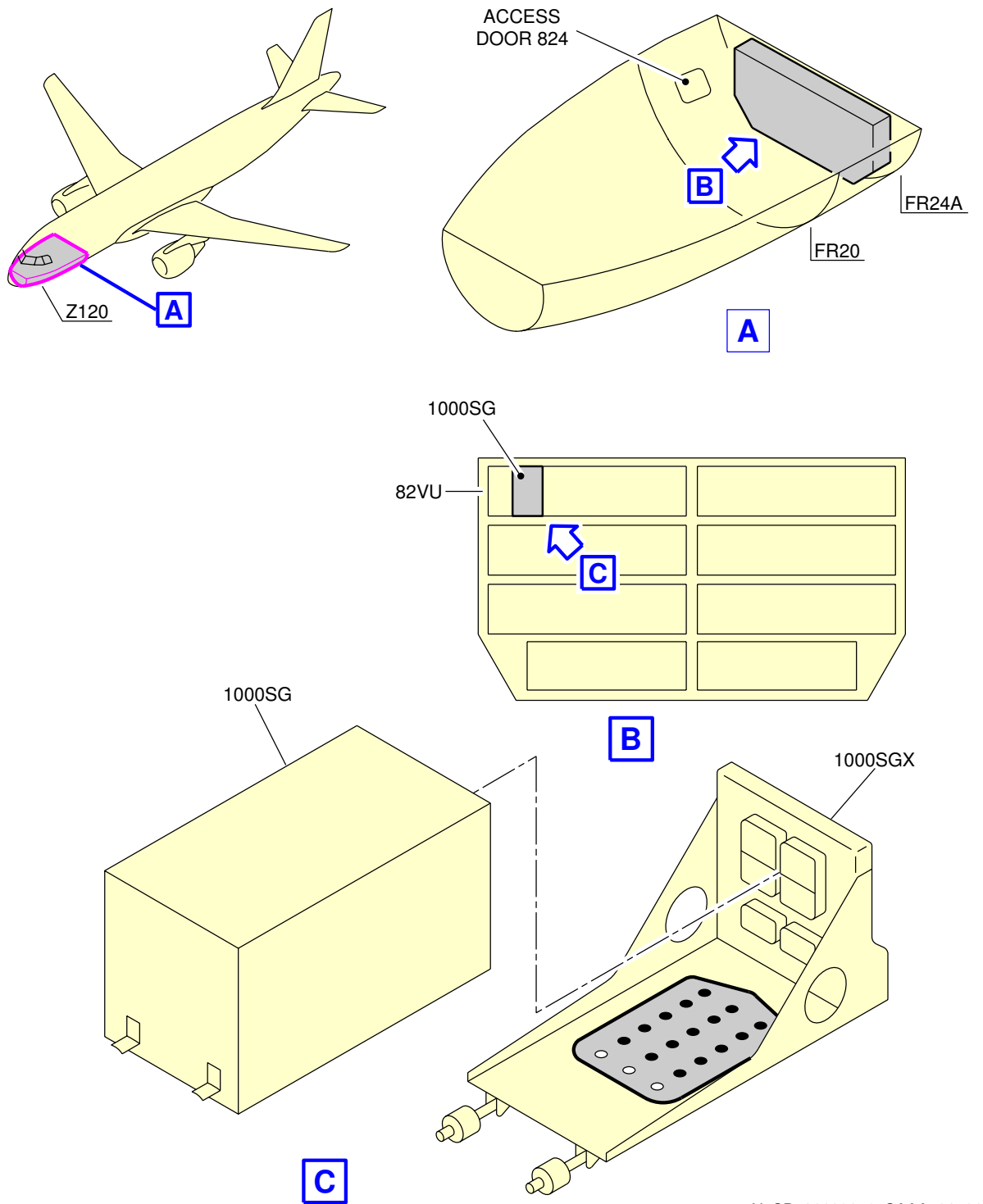
APPENDICES

None

A318/A319/A320/A321

SERVICE BULLETIN SUMMARY

****CONF ALL**



N_SB_211202_6_SAAA_01_01

Figure A-GSAAA - Sheet 01

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31707 BLAGNAC CEDEX
FRANCE
Tel : (33) 5 61 93 33 33
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Fax : (33) 5 61 93 42 51

ATA SYSTEM: 21

**TITLE: AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION -
OPTIMIZE VENTILATION OF T3CAS INSTALLED IN 82VU**

MODIFICATION No.: 152526K15298

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1. PLANNING INFORMATION

****CONF ALL**

A. EFFECTIVITY

(1) Models

320-214 320-232 321-211 321-231

(2) Effectivity by MSN

4526 4530 4541 4553 4574 4581 4584 4594 4611 4615 4648

(3) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
ANZ	4553 4584
CEB	4574
GFA	4541
LAA	4526
NLY	4581 4594 4611 4648
QTR	4530 4615

- (4) Configuration by MSN

MSN	CONFIGURATION
4526 4530 4541 4553 4574 4581 4584 4594 4611 4615 4648	001

- (5) Configuration definition

****CONF 001**

Config. 001 is valid for all the aircraft given in the effectivity of this Service Bulletin as a standard configuration.

- (6) Material Effectivity

MATERIAL	QTY PER A/C	SEE NOTES
Kit 211202D01R00	1	

B. CONCURRENT REQUIREMENTS

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

Service Bulletin No. none

Mod. No. 39146P10960

C. REASON

- (1) History

Investigations have shown, that the T3CAS computer is not sufficiently cooled by air. The reason for the insufficient air cooling is the non optimized position of the open ventilation holes.

To improve the airflow, it is necessary to adjust the ventilation hole plugs on the rack into an optimized position.

- (2) Objective/Action

This Service Bulletin details the work necessary to optimize the ventilation hole plugs.

- (3) Advantages

The accomplishment of this Service Bulletin will ensure an enhanced airflow in the affected avionic rack.

- (4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

Task 211202-831-848-001: Modification

- (1) Adjust the existing ventilation holes

E. COMPLIANCE

(1) Classification

RECOMMENDED: Service Bulletin recommended to be accomplished to prevent significant operational disruptions.

(2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

F. APPROVAL

The technical content of this document is approved under the authority of 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.

Task 211202-831-848-001: Modification	
Get Access	0.25
On Aircraft	
Adjust the existing ventilation holes	0.25
Close-Up	0.25
TOTAL MANHOURS	0.75
ELAPSED TIME (HOURS)	0.75

H. WEIGHT AND BALANCE

Not Changed

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

Aircraft Maintenance Manual (AMM)	06-20-00	06-31-53	12-34-24
	34-72-34	52-41-00	
Elec. Std. Practices Manual (ESPM)	20-55-00		
Standards Manual (SM)			

K. PUBLICATION AFFECTED

None

L. INTERCHANGEABILITY/MIXABILITY

Not Applicable

M. SPARES

None

2. MATERIAL INFORMATION****CONF ALL****A. MATERIAL - PRICE AND AVAILABILITY**

(1) Procurement Addresses

Kit 211202D01R00	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 ordering by fax: +49 40 50 76 2590 For ordering by E-mail: airbus.kit@airbus.com
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(2) Price and Availability

Kit 211202D01R00	
Cost	25.00 USD
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 Kits 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

For aircraft under warranty at 31-JUL-2011, AIRBUS will share the costs of accomplishment of this Service Bulletin by providing the kits at no charge for orders placed before 31-JUL-2014.

For the accomplishment of this Service Bulletin before 31-JUL-2017, AIRBUS will credit the manhours indicated in this Service Bulletin at the agreed in-house warranty labor rate for claims received not later than 90 days after completion of the last affected aircraft of your fleet.

C. LIST OF COMPONENTS

Kit 211202D01R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
1	NSA939511-03	3	COVER				

NOTE: 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, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

D. LIST OF MATERIALS - OPERATOR SUPPLIED

None

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

F. TOOLING

None

3. ACCOMPLISHMENT INSTRUCTIONS**Task 211202-831-848-001 - Modification**

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.

IN CASE OF CONTAMINATION REFER TO ESPM 20-55-00.

Task Associated Data

Zone	
120	
Modified FIN	
1000SG 1000SGX	
Manpower	
TOTAL MANHOURS	0.75
ELAPSED TIME (HOURS)	0.75

A. GENERAL**(1) Subtask 211202-910-201-001 - Standard Practices**

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001

(a) For the identification of zones (Refer to AMM 06-20-00, Page Block 001).

(b) For the Frame (FR) identification (Refer to AMM 06-31-53, Page Block 001).

(2) Subtask 211202-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

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

B. PREPARATION**(1) Subtask 211202-941-201-001 - Job Set-up**

Work Zones and Access Panels		
	Zone	Access/Work location
	120	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-869-002 Task 34-72-34-000-001 Task 52-41-00-010-002

- (a) Make sure that the aircraft is electrical grounded (Refer to AMM Task 12-34-24-869-002).
- (b) To get access, do the job set-up procedure as given in AMM Task 52-41-00-010-002.
- (c) Remove the computer 1000SG as given in AMM Task 34-72-34-000-001.

C. PROCEDURE**(1) Subtask 211202-831-201-001 - Adjust the existing ventilation holes**

Work Zones and Access Panels		
	Zone	Access/Work location
	120	

Manpower Resources	
Manhours	0.25
Minimum number of person	1
Subtask elapsed time	0.25
Skills	NON SPECIFIC

Material necessary to do the job

Kit 211202D01R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
1	NSA939511-03	3	COVER	

References	
Fig. A-GBAAA Modify the Cover of ventilation holes	Sheet 01 Sheet 02

- (a) To close the ventilation holes at the avionic rack 1000SGX, install as shown on [Fig. A-GBAAA Sheet 01](#), View C and [Fig. A-GBAAA Sheet 02](#), E 'AFTER':
- 3 Cover NSA939511-03 Item 1
- (b) To open new ventilation holes at the avionic rack 1000SGX, remove as shown on [Fig. A-GBAAA Sheet 01](#), View C and [Fig. A-GBAAA Sheet 02](#), View E 'AFTER':
- 3 Cover NSA939511-03 Item (1) Discard

D. TEST

None

E. CLOSE-UP

(1) Subtask 211202-942-201-001 - Close-up

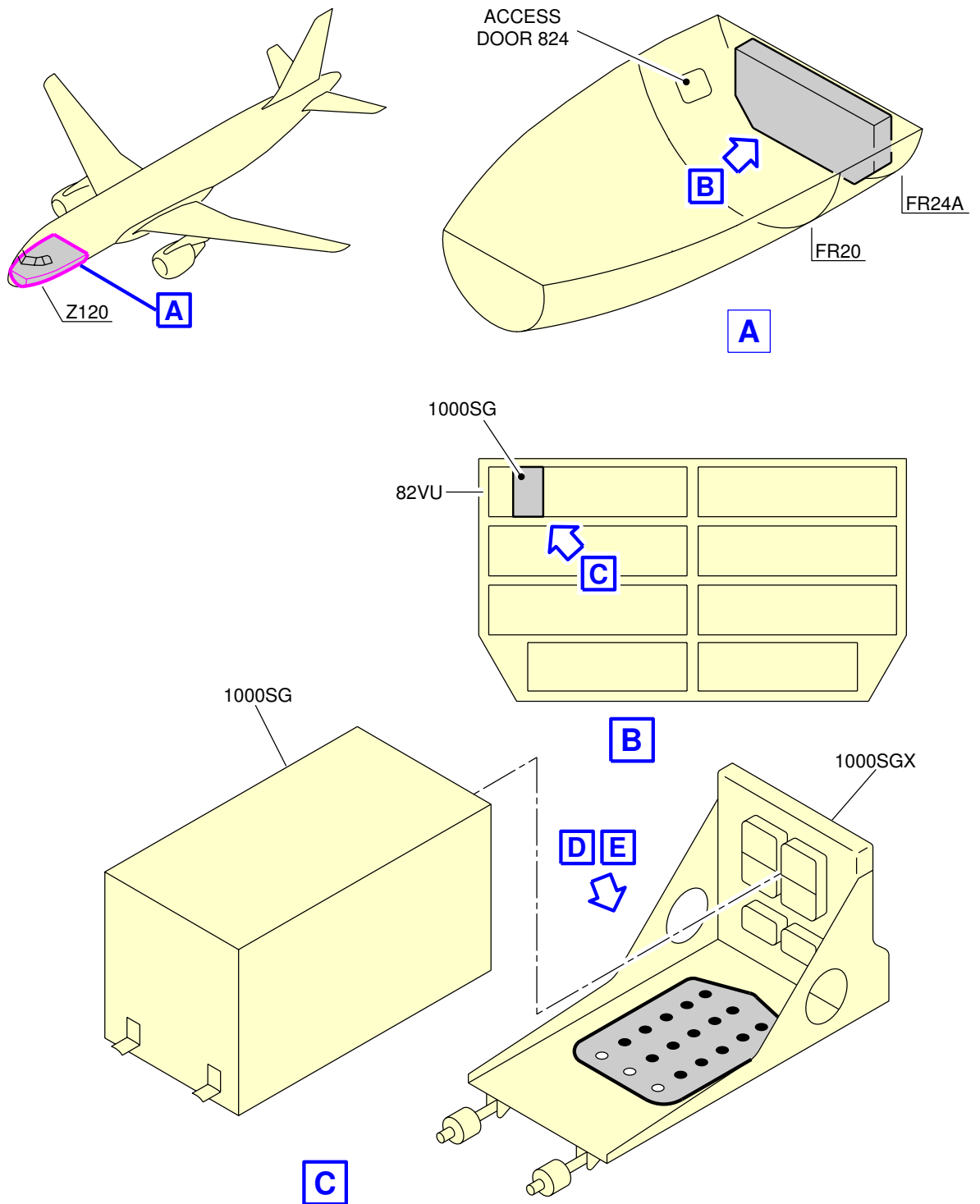
Work Zones and Access Panels		
	Zone	Access/Work location
	120	

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 34-72-34-400-001 Task 52-41-00-410-002

- (a) Install the computer 1000SG as given in AMM Task 34-72-34-400-001.
- (b) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (c) To close the access, do the job close-up procedure as given in AMM Task 52-41-00-410-002.

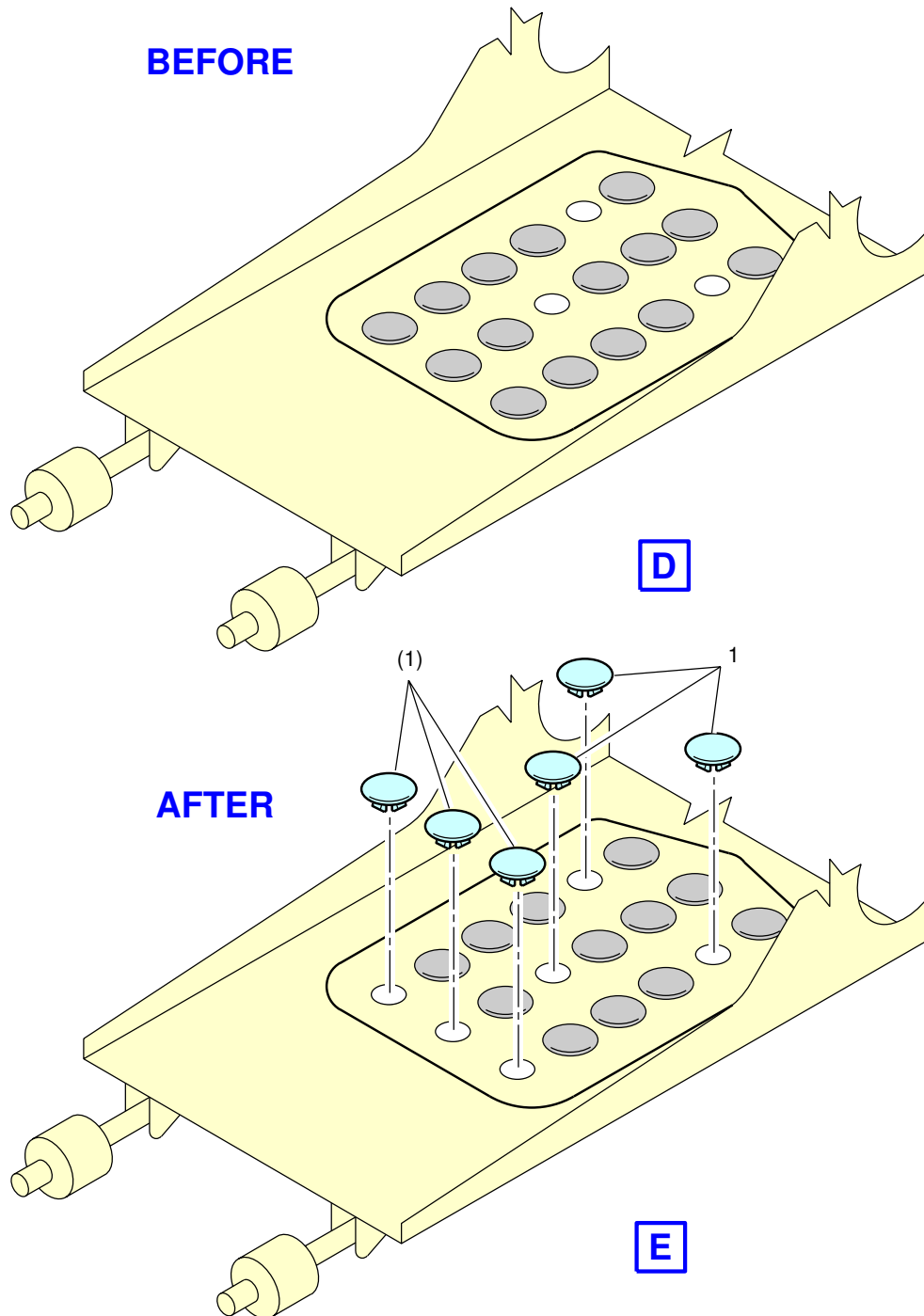
****CONF ALL**



N_SB_211202_6_BAAA_01_01

Figure A-GBAAA - Sheet 01
Modify the Cover of ventilation holes

****CONF ALL**



N_SB_211202_6_BAAA_02_02

Figure A-GBAAA - Sheet 02
Modify the Cover of ventilation holes

**TITLE: AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION -
OPTIMIZE VENTILATION OF T3CAS INSTALLED IN 82VU**

MODIFICATION No.: 152526K15298

Please complete the appropriate item (A or B):

A - SB WILL BE embodied YES/NO (if NO please comment)

If YES, aircraft concerned (as per SB effectivity by default) and planned dates (month/year) of embodiment:

B - SB HAS BEEN embodied on aircraft:

Operator comments:

From Airline:

Name/Title:

Signature:

Date:

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

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

Attn: SDC32 Technical Data and Documentation Services
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.

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 Operator Supplied	X Mod/Inspection
X Manpower	X Industry support	X Test
X References	X Re-identification	X Close-Up
X Publication	X Tooling	X Illustrations

Comments:

Operator:

Date:

Name/Title:

Please return this form to:

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

Attn : SEM4 Service Bulletins Management
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.