@A318/A319/A320/A321

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.

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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

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**B**

FR20

FR24A

Z120 **A**

1000SG

|  |
| --- |
|  |

82VU

**C**

1000SG

|  |
| --- |
| **B** |

1000SGX

SERVICE BULLETIN

SUMMARY

**\*\*CONF** **ALL**

ACCESS

DOOR 824



|  |
| --- |
| **A** |

|  |
| --- |
| **C** |

N\_SB\_211202\_6\_SAAA\_01\_01

Figure A-GSAAA - Sheet 01

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AIRBUS

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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 |

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(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

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

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**K.** **PUBLICATION** **AFFECTED**

None

**L.** **INTERCHANGEABILITY/MIXABILITY**

Not Applicable

**M.** **SPARES**

None

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**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 |

(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 |  |  |  |  |

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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

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**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).

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**(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 |

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|  |
| --- |
| 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](#_bookmark1)  [Sheet 02](#_bookmark2) |

(a) To close the ventilation holes at the avionic rack 1000SGX, install as shown on [Fig](#_bookmark3).

[A-GBAAA Sheet 01](#_bookmark4), View C and [Fig. A-GBAAA Sheet 02](#_bookmark5), 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](#_bookmark6), View C and [Fig. A-GBAAA Sheet 02](#_bookmark7), 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 .

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**B**

FR20

FR24A

**A**

Z120

1000SG

**D** **E**

82VU

**C**

1000SG

1000SGX

ACCESS

DOOR 824



|  |
| --- |
| **A** |

|  |
| --- |
|  |

|  |
| --- |
| **B** |

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**\*\*CONF** **ALL**

|  |
| --- |
| **C** |

N\_SB\_211202\_6\_BAAA\_01\_01

Figure A-GBAAA - Sheet 01

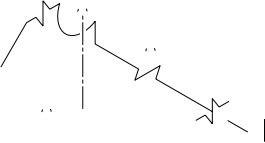
Modify the Cover of ventilation holes

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**AFTER**









|  |
| --- |
| **E** |

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**\*\*CONF** **ALL**

**BEFORE**

**D**

(1)

1

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Figure A-GBAAA - Sheet 02

Modify the Cover of ventilation holes

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REPORTING SHEET

**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:

AIRBUS

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.

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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

X Effectivity

X Reason

X Manpower

X References

X Publication

Comments:

Material

X Kit content

X List of Materials Operator Supplied X Industry support

X Re-identification

X Tooling

Instructions

X Preparation

X Mod/Inspection

X Test

X Close-Up

X Illustrations

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.

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