@A318/A319/A320/A321

SERVI**C**E BULLETIN

SUMMARY

AIRBUS

CUSTOMER SERVICES DIRECTORATE

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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** **-** **DISTRIBUTION** **-** **INSPECTION** **OF** **DRAIN** **PIPES** **MODIFICATIONS**

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

None

**REASON/DESCRIPTION/OPERATIONAL** **CONSEQUENCES**

Air filter drain pipe and cabin floor grid drain pipe have been found too short during Final Assembly Line Inspection. Following a new issue of drainage system installation drawing, drain pipe length after the last clamp moved from 1.9685 in. (50 mm) to 4.7244 in. (120 mm). The modification of that dimension is linked to windmilling modification which moves the 80VU support pyramid forward. However on some aircraft having had this windmilling modification the length of the drain pipes after the last clamp remained with 1.9685 in. (50 mm); This defect can lead to dripping of drainage liquid on electrical wires (routes 1M, 2M, 1S, 2S)

This Service Bulletin recommends to check the length of the air filter drain pipe and cabin floor grid drain pipe and to pull on the existing pipes to get the suitable length to be in accordance with installation drawings.

Accomplishment of this Service Bulletin will restore the aircraft to design configuration and will avoid the risk of drainage liquid dripping on electrical wires.

**GENERAL** **EVALUATION**

|  |  |  |  |
| --- | --- | --- | --- |
| EVALUATION TABLE | | | |
| COMPLIANCE | RECOMMENDED | 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 |

**MATERIAL** **PRICE** **INFORMATION**

No Material

**EFFECTIVITY**

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

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**A**E 

SUMMARY

17W ADH AEE AFL AFR AMC AXM BMA BMM CSA CSN EZY FFT IBE JBU QTR TAI VOI

**CONCURRENT** **REQUIREMENTS**

None

**REFERENCES** **/** **REPERCUSSIONS**

|  |  |
| --- | --- |
| TFU | None |
| OEB | None |
| AOT | None |
| SIL | None |
| LINE MAINTENANCE AFFECTED | no |
| LIFE LIMIT | none |
| OTHERS | none |

**NATURE** **OF** **THE** **WORK**

|  |  |
| --- | --- |
| AIRCRAFT | YES |
| EQUIPMENT | NO |
| HARD | NO |
| SOFT | NO |
| OBRM | NO |

**MANPOWER**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  | | --- | --- | --- | --- | | Task 211174 | 832 | 801 | 001: INSPECTION | | |
| TOTAL MANHOURS | 1.75 |
| ELAPSED TIME (HOURS) | 1.75 |

|  |  |
| --- | --- |
| Task 211174-833-801-001: REPAIR | |
| TOTAL MANHOURS | 2.0 |
| ELAPSED TIME (HOURS) | 2.0 |

**APPENDICES**

INSPECTION REPORT

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**A**E 

SUMMARY



FR24A

FR20

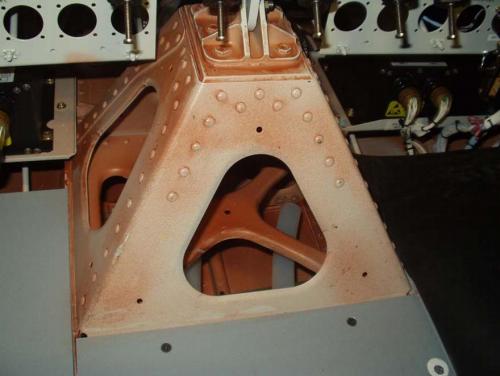


**A**

|  |
| --- |
| 80VU |

824

|  |
| --- |
| 80VU |



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

N\_SB\_211174\_5\_SUAA\_01\_03

Figure A-FSUAA - Sheet 01

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AIRBUS

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ATA SYSTEM: 21

**TITLE:** **AIR** **CONDITIONING** **-** **DISTRIBUTION** **-** **INSPECTION** **OF** **DRAIN** **PIPES**

MODIFICATION No.: None

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**1.** **PLANNING** **INFORMATION**

**A.** **EFFECTIVITY**

(1) Models

318-111 319-115 319-131 321-212 319-111 319-132 320-214 320-216

320-232 321-231 319-133 321-211

(2) Effectivity by MSN

3009 3038 3046 3049 3051 3053-3054 3057 3059-3061 3063-3072 3074-3080 3082

(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** |
| 17W | 3046 |
| ADH | 3076 3079 3080 |
| AEE | 3066 3074 |
| AFL | 3063 |
| AFR | 3009 3051 3065 |
| AMC | 3068 |
| AXM | 3064 |
| BMA | 3049 |

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|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| BMM | 3070 |
| CSA | 3060 |
| CSN | 3067 3075 |
| EZY | 3053 3059 3061 3082 |
| FFT | 3038 |
| IBE | 3054 3078 |
| JBU | 3072 |
| QTR | 3071 |
| TAI | 3057 |
| VOI | 3069 3077 |

(4) Configuration by MSN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 3009 3038 3046 3049 3051 3053 3054 3057 3059 3060 3061  3063 3064 3065 3066 3067 3068 3069 3070 3071 3072 3074  3075 3076 3077 3078 3079 3080 3082 | 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

No Material Set

**B.** **CONCURRENT** **REQUIREMENTS**

None

**C.** **REASON**

(1) History

Air filter drain pipe and cabin floor grid drain pipe have been found too short during Final Assembly Line Inspection. Following a new issue of drainage system installation drawing, drain pipe length after the last clamp moved from 1.9685 in. (50 mm) to 4.7244 in. (120 mm). The modification of that dimension is linked to windmilling modification which moves the 80VU support pyramid forward. However on some aircraft having had this windmilling modification the length of the drain pipes after the last clamp remained with 1.9685 in. (50 mm); This defect can lead to dripping of drainage liquid on electrical wires (routes 1M, 2M, 1S, 2S)

(2) Objective/Action

This Service Bulletin recommends to check the length of the air filter drain pipe and cabin floor grid drain pipe and to pull on the existing pipes to get the suitable length to be in accordance with installation drawings.

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(3) Advantages

Accomplishment of this Service Bulletin will restore the aircraft to design configuration and will avoid the risk of drainage liquid dripping on electrical wires.

(4) Operational/Maintenance Consequences

none

**D.** **DESCRIPTION**

To accomplish this Service Bulletin it is necessary to :

Task 211174-832-801-001: INSPECTION

(1) DETAILED/DIMENSIONAL INSPECTION/CHECK

Task 211174-833-801-001: REPAIR

(1) REPAIR

**E.** **COMPLIANCE**

(1) Classification

RECOMMENDED

(2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available, but not later than 18 months after receipt of this Service Bulletin.

**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.

|  |  |
| --- | --- |
| Task 211174-832-801-001: INSPECTION | |
| Get Access | 0.75 |
| **On** **Aircraft** |  |

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**A**E 

|  |  |
| --- | --- |
| Task 211174-832-801-001: INSPECTION | |
| DETAILED/DIMENSIONAL INSPECTION/CHECK | 0.25 |
| Close-Up | 0.75 |
| TOTAL MANHOURS | 1.75 |
| ELAPSED TIME (HOURS) | 1.75 |

|  |  |
| --- | --- |
| Task 211174-833-801-001: REPAIR | |
| Get Access | 0.5 |
| **On** **Aircraft** |  |
| REPAIR | 1.00 |
| Close-Up | 0.5 |
| TOTAL MANHOURS | 2.0 |
| ELAPSED TIME (HOURS) | 2.0 |

**H.** **WEIGHT** **AND** **BALANCE**

Not Changed

**I.** **ELECTRICAL** **LOAD** **DATA**

Not Changed

**J.** **REFERENCES**

|  |  |
| --- | --- |
| Aircraft Maintenance Manual (AMM) | 12-34-24 52-41-00 52-41-00  53-12-13 53-12-13 |
| Elec. Std. Practices Manual (ESPM) | 20-55-00 |

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

None

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

Not Applicable

**M.** **SPARES**

None

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SERVI**C**E BULLETIN

**2.** **MATERIAL** **INFORMATION**

**A.** **MATERIAL** **-** **PRICE** **AND** **AVAILABILITY**

(1) Procurement Addresses

none

(2) Price and Availability

none

**B.** **INDUSTRY** **SUPPORT** **INFORMATION**

AIRBUS will credit the man-hours indicated in this Service Bulletin for inspections that are performed on aircraft in warranty at the time of such inspection. Credit will be at the operator’s agreed in-house warranty labor rate upon receipt of a warranty claim.

**C.** **LIST** **OF** **COMPONENTS**

No Kit

**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 211174-832-801-001 - INSPECTION

**Task** **Associated** **Data**

|  |  |  |  |
| --- | --- | --- | --- |
| Zone | | 127 128 | |
| Access | Door | 824 | |
| Manpower | | | |
| TOTAL MANHOURS | | | 1.75 |
| ELAPSED TIME (HOURS) | | | 1.75 |

**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) Subtask 211174-839-001-001 - DOCUMENTATION

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | NON SPECIFIC |

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

**B.** **PREPARATION**

(1) Subtask 211174-941-001-001 - JOB SET-UP

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 128 | Access to open | Door 824 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | AIRFRAME |

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**A**E 

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

(a) Make sure that the aircraft is electrically grounded. (Refer to AMM Task 12-34-24-869-002)

(b) Open the Avionics Compartment Door 824 (Access Door). (Refer to AMM Task 52-41-00-010-002)

**C.** **PROCEDURE**

(1) Subtask 211174-220-001-001 - DETAILED/DIMENSIONAL INSPECTION/CHECK

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 127 | Work location | from Frame 23 to Frame 24 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 0.25 |
| Minimum number of person | 1 |
| Subtask elapsed time | 0.25 |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Fig. A-FAAAA | [Sheet 01 - AREA TO BE INSPECTED.](#_bookmark1) |
| Fig. A-FABAA | [Sheet 01 - FLOW - CHART](#_bookmark2) |
| Fig. A-FADAA | [Sheet 01 - INSPECTION REPORT SHEET](#_bookmark3) [Sheet 02 - INSPECTION REPORT SHEET](#_bookmark4) |

(a) For the inspection area, Refer to [Fig. A-FAAAA](#_bookmark5)

(b) Do a detailed visual inspection, Refer to [Fig. A-FABAA](#_bookmark6)

(c) For the inspection report, Refer to [Fig. A-FADAA](#_bookmark7)

**D.** **TEST**

None

**E.** **CLOSE-UP**

(1) Subtask 211174-942-002-001 - CLOSE-UP

|  |  |  |
| --- | --- | --- |
| Work Zones and Access Panels | | |
|  | Zone | Access/Work location |
|  | 128 |  |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | AIRFRAME |

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**A**E 

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-869-002  Task 52-41-00-410-002 |

(a) Close the Avionics Compartment Door 824. (Refer to AMM Task 52-41-00-410-002)

(b) Disconnect the aircraft electrical ground - connections. (Refer to AMM Task 12-34-24-869-002)

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**A**E 

Task 211174-833-801-001 - REPAIR

**Task** **Associated** **Data**

|  |  |  |  |
| --- | --- | --- | --- |
| Zone | | 127 | |
| Access | Panel | 127BF 127CF | |
| Manpower | | | |
| TOTAL MANHOURS | | | 2.0 |
| ELAPSED TIME (HOURS) | | | 2.0 |

**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) Subtask 211174-839-002-001 - DOCUMENTATION

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | NON SPECIFIC |

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

**B.** **PREPARATION**

(1) Subtask 211174-941-002-001 - JOB SET-UP

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 127 | Access to open | Panel 127BF, Panel 127CF |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | AIRFRAME |

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|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 53-12-13-000-001 |

(a) Remove the AFT Avionics-Compartment Floor-Panels 127BF and 127CF. (Refer to AMM Task 53-12-13-000-001)

**C.** **PROCEDURE**

(1) Subtask 211174-833-001-001 - REPAIR

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 127 | Work location | from Frame 20 to Frame 24 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 1.00 |
| Minimum number of person | 1 |
| Subtask elapsed time | 1.00 |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Fig. A-FACAA | [Sheet 01 - REPAIR](#_bookmark8) |

(a) Loosen the 5 or/and 7 clamps shown on details B and C Refer to [Fig. A-FACAA](#_bookmark9) (b) Pull on the drain pipe(s) to get the suitable length of 4.7244 in. (120 mm)

(c) Tighten the 5 or/and 7 clamps.

**D.** **TEST**

None

**E.** **CLOSE-UP**

(1) Subtask 211174-942-001-001 - CLOSE-UP

|  |  |  |
| --- | --- | --- |
| Work Zones and Access Panels | | |
|  | Zone | Access/Work location |
|  | 127 |  |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 53-12-13-400-001 |

(a) Install the AFT Avionics-compartment Floor-Panels 127BF and 127CF. (Refer to AMM Task 53-12-13-400-001)

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**A**E 

LENGTH TO

BE INSPECTED

4.7244in (120mm)

|  |
| --- |
| 80VU |

**B**



FR24A

FR20



**A**

|  |
| --- |
| 80VU |

824



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

DRAINAGE AIR FILTER PIPE

DRAINAGE SYSTEM PIPE

4.7244in (120mm)

LENGTH TO

BE INSPECTED

N\_SB\_211174\_5\_AAAA\_01\_02

 **FWD**

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

Figure A-FAAAA - Sheet 01

AREA TO BE INSPECTED.

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**A**E 

DRAINAGE AIR FILTER PIPE

YES

NO

|  |
| --- |
| NO FURTHER ACTION |

|  |
| --- |
| NO FURTHER ACTION |

|  |
| --- |
| DO A ONE TIME  DETAILED VISUAL INSPECTION  OF 2 DRAIN PIPES  REFER TO FIGURE A−FAAAA |

AND

|  |
| --- |
| DRAINAGE SYSTEM PIPE |

IS

IS

THE PIPE LENGTH

THE PIPE LENGTH

120mm (4.7244in.)

120mm (4.7244in.) AFTER CLAMP

AFTER CLAMP

YES

|  |
| --- |
| PULL ON THE DRAIN PIPE  TO GET THE SUITABLE  LENGTH, REFER TO TASK  REPAIR |

NO FURTHER ACTION

QUESTION

ACTION

FINDING

N\_SB\_211174\_5\_ABAA\_01\_02

Figure A-FABAA - Sheet 01

FLOW - CHART

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**A**E 

Z120

**A**

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

FR24



**C**

**B**

FR12

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

UNTIGHTENED

UNTIGHTENED



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

N\_SB\_211174\_5\_ACAA\_01\_03

Figure A-FACAA - Sheet 01

REPAIR

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APPENDIX 01

The result of the inspection, including no finding, replacement or action to be done, must be forwarded

to AIRBUS Department SEE22, on the attached Inspection Report Sheet.

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APPENDIX 01

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SERVICE BULLETIN No. : A320−21−1174  A/C MSN :  FLIGHT CYCLES :  FLIGHT HOURS : | INSPECTION REPORT  DATE OF INSPECTION :  INSPECTION METHOD :  DETAILED VISUAL ( ONE TIME) | | | |
| INSPECTION  IS THE DIMENSION OF 4.7244in. (120mm) OK FOR: | | | | |
| − DRAIN SYSTEM PIPE  − DRAIN AIR FILTER PIPE | | YES    YES | NO    NO | |
| REPAIR | | | | |
| ACTION, TO GET THE SUITABLE LENGTH, DONE | | | | YES |

N\_SB\_211174\_5\_ADAA\_01\_03

Figure A-FADAA - Sheet 01

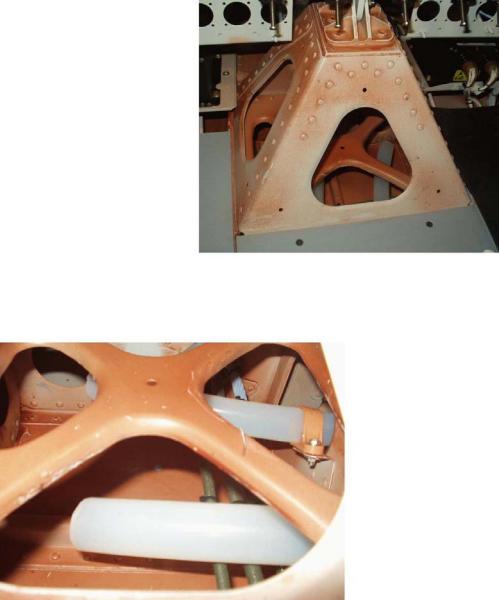
INSPECTION REPORT SHEET

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**A**E 

SUITABLE

LENGTH

4.7244in (120mm)

|  |
| --- |
| 80VU |

**B**

 **FWD**

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

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

4.7244in (120mm)

N\_SB\_211174\_5\_ADAA\_02\_02

APPENDIX 01



FR24A

FR20



**A**

|  |
| --- |
| 80VU |

824



Figure A-FADAA - Sheet 02

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SERVI**C**E BULLETIN

REPORTING SHEET

**TITLE:** **AIR** **CONDITIONING** **-** **DISTRIBUTION** **-** **INSPECTION** **OF** **DRAIN** **PIPES**

MODIFICATION No.: None

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.

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SERVI**C**E BULLETIN

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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

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