

SERVICE BULLETIN
SUMMARY

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

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - 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) :

5 DATE: Jan 28/08

SERVICE BULLETIN No.: A320-21-1174

REVISION No.: 00 - Jan 28/08

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A318/A319/A320/A321

SERVICE BULLETIN 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

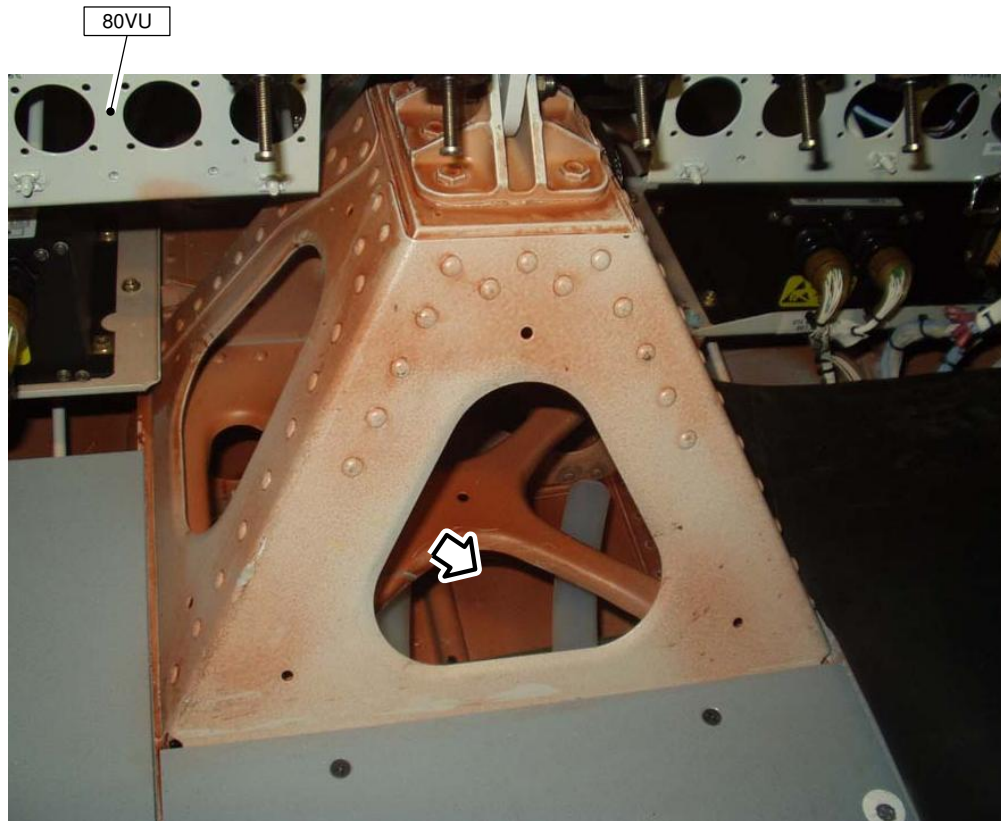
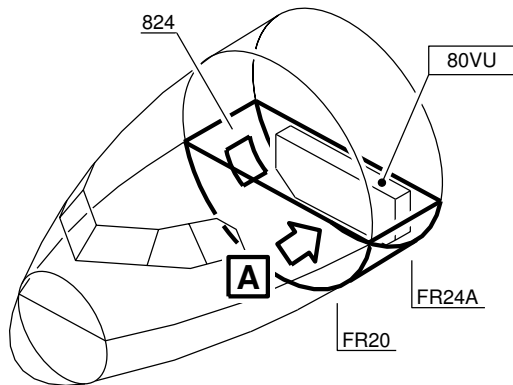
Task 211174-833-801-001: REPAIR	
TOTAL MANHOURS	2.0
ELAPSED TIME (HOURS)	2.0

APPENDICES

INSPECTION REPORT

A318/A319/A320/A321

SERVICE BULLETIN SUMMARY



A

N_SB_211174_5_SUAA_01_03

Figure A-FSUAA - Sheet 01

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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

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.

(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	

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

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

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.
Fig. A-FABAA	Sheet 01 - FLOW - CHART
Fig. A-FADAA	Sheet 01 - INSPECTION REPORT SHEET Sheet 02 - INSPECTION REPORT SHEET

- (a) For the inspection area, Refer to [Fig. A-FAAAA](#)
- (b) Do a detailed visual inspection, Refer to [Fig. A-FABAA](#)
- (c) For the inspection report, Refer to [Fig. A-FADAA](#)

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

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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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

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

- (a) Loosen the 5 or/and 7 clamps shown on details B and C Refer to [Fig. A-FACAA](#)
- (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	

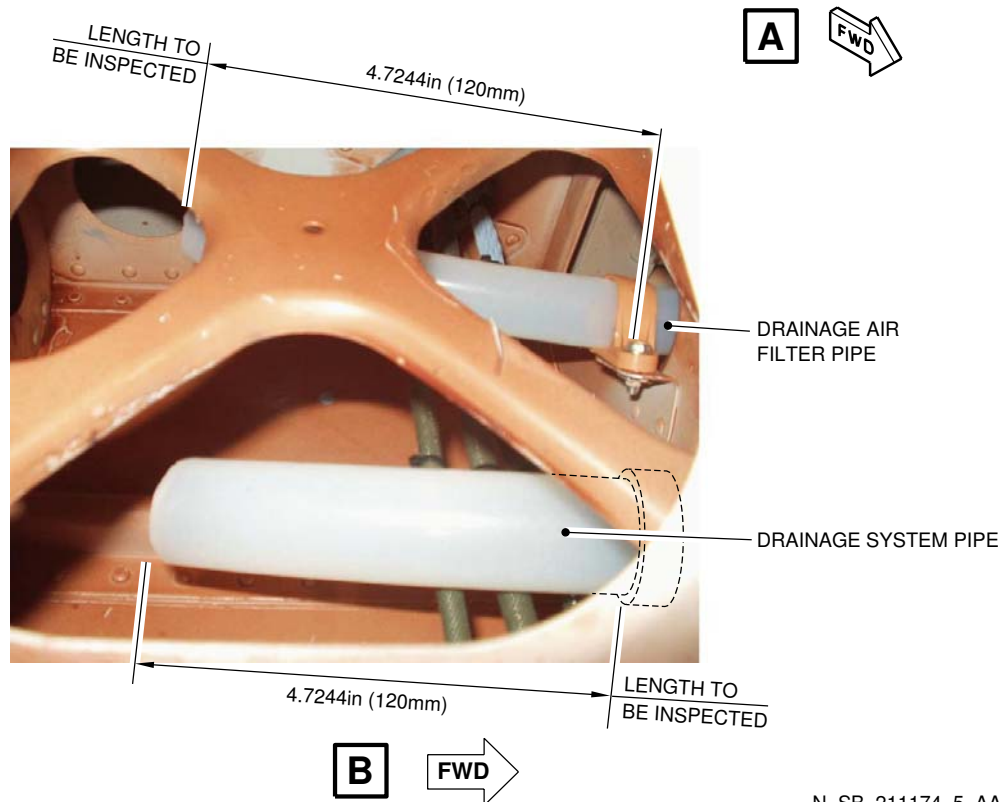
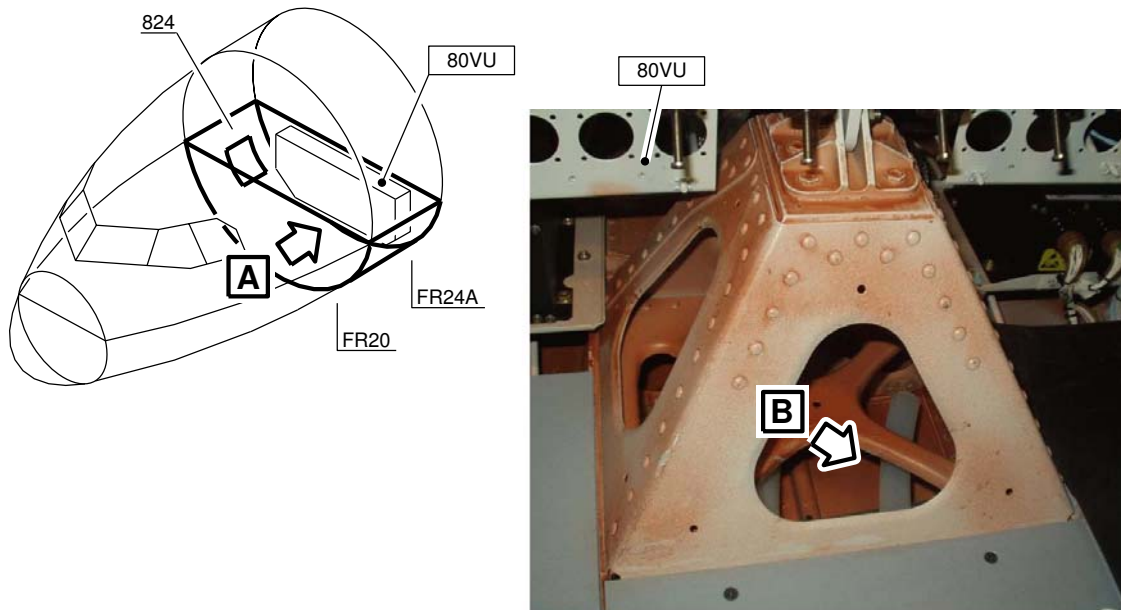
Manpower Resources	
Skills	AIRFRAME

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)

A318/A319/A320/A321

SERVICE BULLETIN



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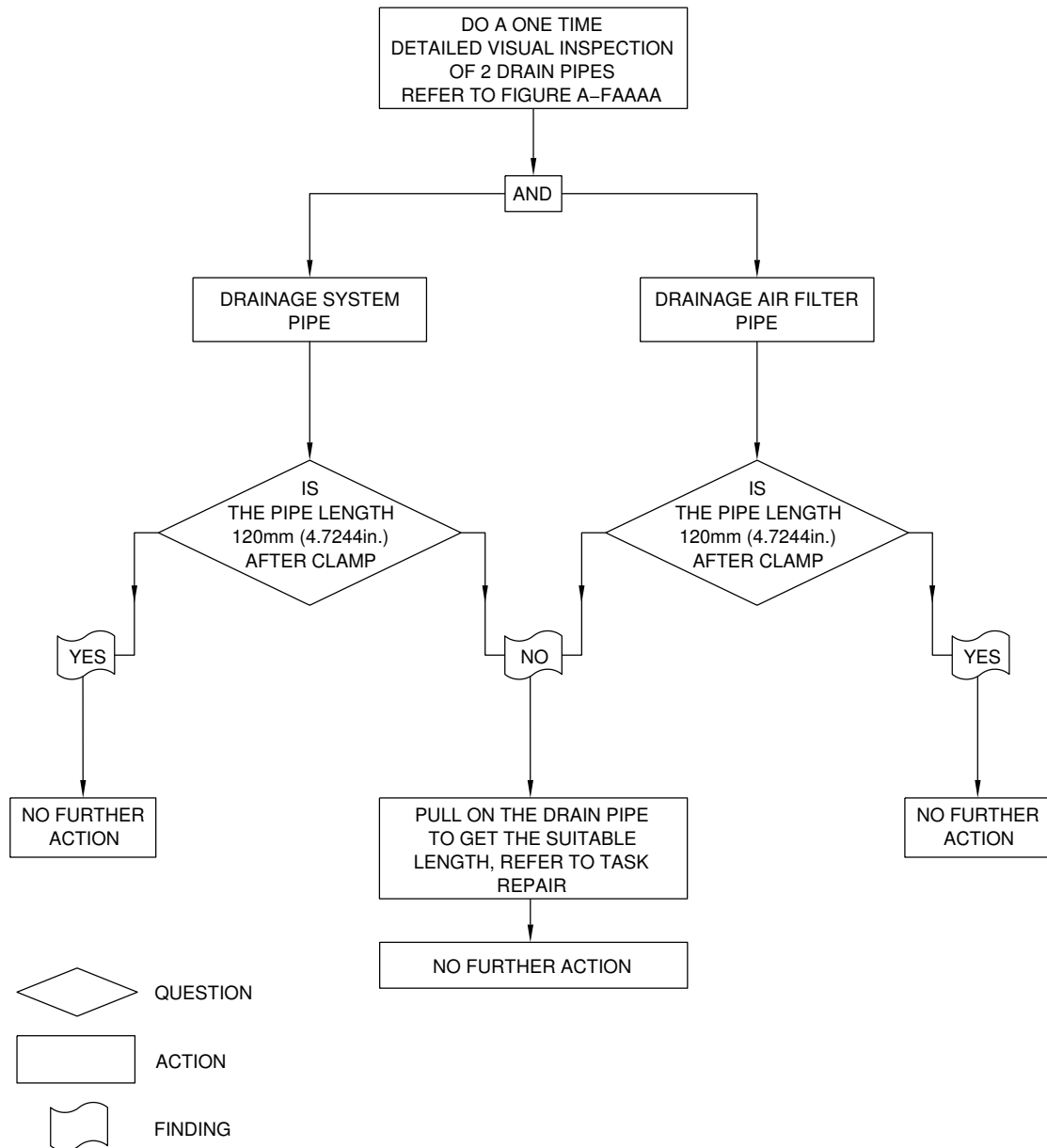
Figure A-FAAAA - Sheet 01
AREA TO BE INSPECTED.

5 DATE: Jan 28/08

SERVICE BULLETIN No.: A320-21-1174

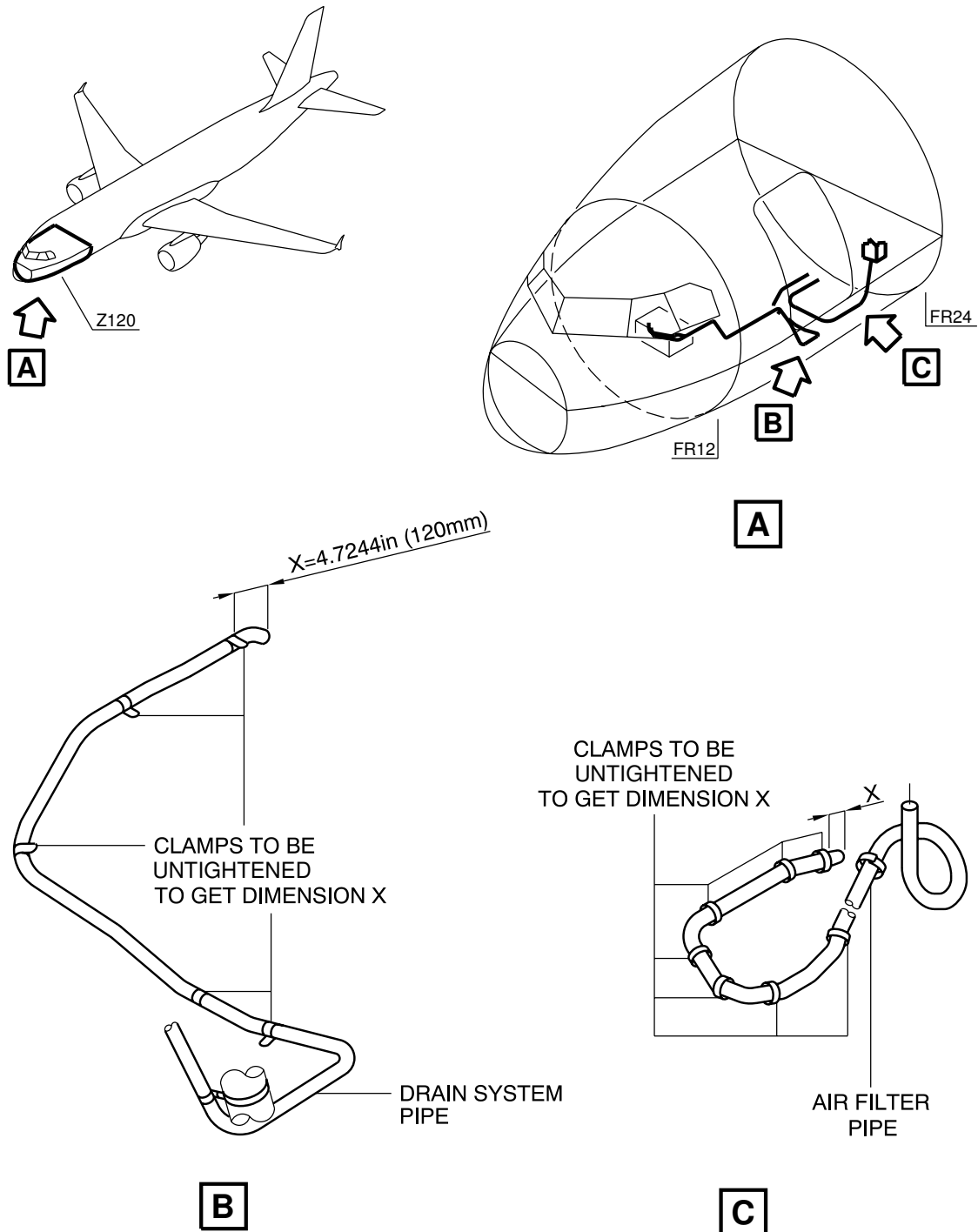
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Figure A-FABAA - Sheet 01
FLOW - CHART



N_SB_211174_5_ACAA_01_03

Figure A-FACAA - Sheet 01
REPAIR

A318/A319/A320/A321

SERVICE BULLETIN 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.

SERVICE BULLETIN
APPENDIX 01

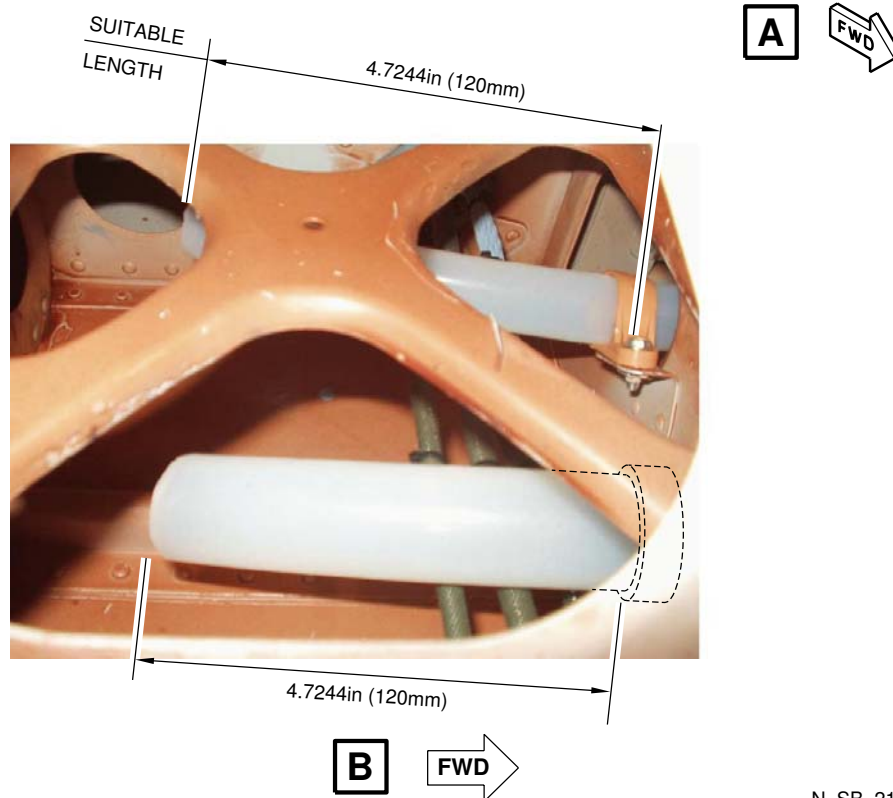
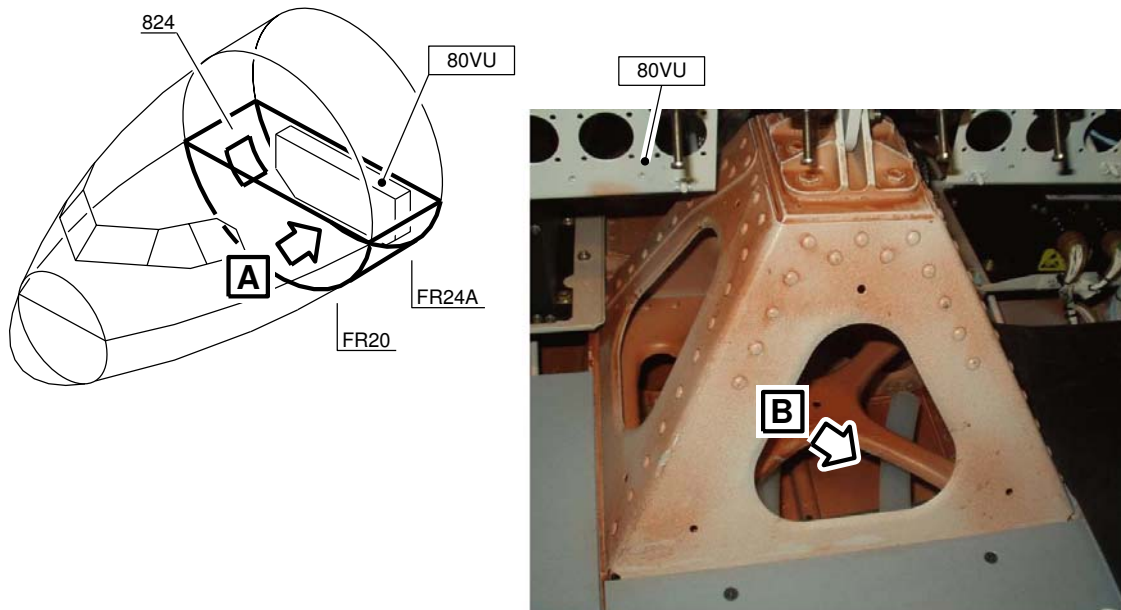
<u>INSPECTION REPORT</u>							
<p>SERVICE BULLETIN No. : A320-21-1174</p> <table style="width: 100%; border: none;"><tr><td style="width: 50%; vertical-align: top; padding: 5px;">A/C MSN :</td><td style="width: 50%; vertical-align: top; padding: 5px;">DATE OF INSPECTION :</td></tr><tr><td style="vertical-align: top; padding: 5px;">FLIGHT CYCLES :</td><td style="vertical-align: top; padding: 5px;">INSPECTION METHOD : <input type="checkbox"/> DETAILED VISUAL (ONE TIME)</td></tr><tr><td style="vertical-align: top; padding: 5px;">FLIGHT HOURS :</td><td></td></tr></table>		A/C MSN :	DATE OF INSPECTION :	FLIGHT CYCLES :	INSPECTION METHOD : <input type="checkbox"/> DETAILED VISUAL (ONE TIME)	FLIGHT HOURS :	
A/C MSN :	DATE OF INSPECTION :						
FLIGHT CYCLES :	INSPECTION METHOD : <input type="checkbox"/> DETAILED VISUAL (ONE TIME)						
FLIGHT HOURS :							
<p><u>INSPECTION</u></p> <p>IS THE DIMENSION OF 4.7244in. (120mm) OK FOR:</p> <table style="width: 100%; border: none;"><tr><td style="width: 40%; vertical-align: top; padding: 5px;">– DRAIN SYSTEM PIPE</td><td style="width: 10%; text-align: center; padding: 5px;"><input type="checkbox"/> YES</td><td style="width: 10%; text-align: center; padding: 5px;"><input type="checkbox"/> NO</td></tr><tr><td style="vertical-align: top; padding: 5px;">– DRAIN AIR FILTER PIPE</td><td style="text-align: center; padding: 5px;"><input type="checkbox"/> YES</td><td style="text-align: center; padding: 5px;"><input type="checkbox"/> NO</td></tr></table> <p><u>REPAIR</u></p> <p>ACTION, TO GET THE SUITABLE LENGTH, DONE <input type="checkbox"/> YES</p>		– DRAIN SYSTEM PIPE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	– DRAIN AIR FILTER PIPE	<input type="checkbox"/> YES	<input type="checkbox"/> NO
– DRAIN SYSTEM PIPE	<input type="checkbox"/> YES	<input type="checkbox"/> NO					
– DRAIN AIR FILTER PIPE	<input type="checkbox"/> YES	<input type="checkbox"/> NO					

N_SB_211174_5_ADAA_01_03

Figure A-FADAA - Sheet 01
INSPECTION REPORT SHEET

A318/A319/A320/A321

SERVICE BULLETIN APPENDIX 01



N_SB_211174_5_ADA_A_02_02

Figure A-FADAA - Sheet 02
INSPECTION REPORT SHEET

5 DATE: Jan 28/08

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SERVICE 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.

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.

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.