SERVICE BULLETIN SUMMARY

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
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31707 BLAGNAC CEDEX FRANCE
Tel: (33) 5 61-93-33-33

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

TITLE: AIR CONDITIONING - GENERAL - INSTALL "LE BOZEC" AVIONICS

FILTER SYSTEM (P/N 57514-31 AND P/N 4200A200-4).

MODIFICATION No.: 26739 P5104 ATA SYSTEM: 21

### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

This Service Bulletin is published to advise all operators of A319, A320 and A321 aircraft equipped with "LE BOZEC" avionics ventilation filter system of the issue of LE BOZEC FILTRATION SYSTEMS (LBFS) Service Bulletin No. 34800A200-21-04.

As part of the maintenance cost reduction program, the LBFS avionics ventilation system has been identified as the system with the highest potential for maintenance cost savings.

In the avionics compartment, on the avionics ventilation filter system, this Service Bulletin proposes :

- To fit the filter housing with pressure test ports to determine the clogging level of the demister and dust filter
- To replace the one element dust filter cartridge by a dust filter cartridge composed of two elements: a cartridge body and a cartridge filter element.

The following improvements permit a significant reduction of the direct maintenance cost of the avionics ventilation filter:

- Increase of the demister and the dust separator filter life time
  - The pressure test ports added on the filter housing permit the "on the condition of a delta pressure" maintenance concept instead of the current "hard time removal" maintenance concept. This new maintenance concept optimizes the cleaning and removal intervals of the demister and dust filter in accordance with the operator's operational conditions.
- Decrease of the spare price of the dust separator filter
  - The new version of the dust filter cartridge composed of two elements, permits the replacement of the filtering element instead of the whole cartridge, thus minimizing the cost of the removed part.
- Easy maintenance task
  - A portable manometer through the pressure test ports shows if cleaning and/or removal of the demister and/or the dust filter are

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necessary according to maximum pressure values.

#### **EFFECTIVITY**

This Service Bulletin is applicable to these customers:

AAA, AAR, ACA, AES, AFR, AIB, AJM, ALK, ANA, BAW, BV, CDN, CES, CJG, CNW, CSC, CTN, CYP, EWG, GES, GFA, HP, IAC, KAC, LEI, MSR, MXA, NWA, OYC, PAL, RJA, SHK, SWR, TAI, TAR, WS, XF, XP, XR, XW, XZ, ZZ.

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

Service Bulletin No. A320-21-1030 (Mod. No. 21865P1803)

### REFERENCES/REPERCUSSIONS

TFU : None

OEB : None

AOT : None

SIL : None

LIFE LIMIT : None

LINE MAINTENANCE AFFECTED : YES

OTHER : None

### NATURE OF THE WORK

AIRCRAFT : NO
EQUIPMENT : YES
HARD : NO
SOFT : NO
OBRM : NO

### COMPLIANCE

DESIRABLE

### MANPOWER

On Aircraft

TOTAL MANHOURS 2.0

On Bench

TOTAL MANHOURS

Refer to LBFS Service Bulletin No. 34800A200-21-04

## MATERIAL INFORMATION

AIRCRAFT DATA

None

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#### **EQUIPMENT DATA**

Designation : Filter Cartridge

Supplier: LE BOZEC FILTRATION SYSTEMS (LBFS)

Service Bulletin No. 34800A200-21-04

Old Part Number 420A200-2 New Part Number 4200A200-4

Interchangeability code 02 (Refer to ATA 200 Chapter 1A-2)

Mixability: Not applicable

Designation : Filter Housing

Supplier: LE BOZEC FILTRATION SYSTEMS (LBFS)

Service Bulletin No. 34800A200-21-04

Old Part Number 57514-02 New Part Number 57514-31

Interchangeability code 02 (Refer to ATA 200 Chapter 1A-2)

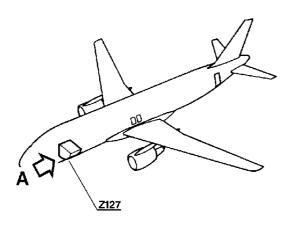
Mixability: Not applicable

### **APPENDICES**

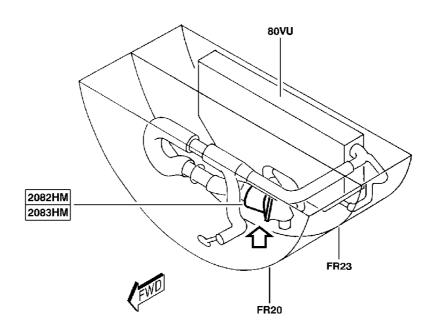
None

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

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TITLE: AIR CONDITIONING - GENERAL - INSTALL "LE BOZEC" AVIONICS

FILTER SYSTEM (P/N 57514-31 AND P/N 4200A200-4).

MODIFICATION No.: 26739 P5104 ATA SYSTEM: 21

### 1. PLANNING INFORMATION

### A. EFFECTIVITY

(1) Aircraft models: 319-112, 319-113, 320-111, 320-211, 320-212,

320-214, 320-231, 320-232, 320-233, 321-111,

321-131, 321-211, 321-231

(2) Aircraft

Customer and MSN Kit No. Qty Config Fleet No. none of kits No.

AAA001-017 022,023,024,025,026,027

029,030,140,142,157,229

547,615,622,632,662

101 726

AAROO1 771

ACA201-213 059,068,073,084,122,126

127,141,149,150,154,159

183

215-225 242,248,253,254,255,265

277,290,310,311,324

227-233 333,341,342,350,359,378

384

AESO01, 002 739,743

AFR001, 002 005,007

004-013 014,019,020,021,002,004

003,010,012,013

015 016

031-048 061,062,063,100,101,102

128,129,133,186,187,188

226,227,228,285,286,287

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Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
066-068	033,036,044			
071-078	108,115,130,155,156,184			
	214,239			
080-085	278,337,352,236,237,377			
101-105	498,509,521,529,544			
131	777			
201, 202	144,145			
211, 212	420,436			
226, 227	131,132			
231, 232	203,220			
301, 302	204,211			
305	085			
401-403	215,244,270			
411	491			
501-503	674,675,684			
901-906	598,600,608,618,625,637			
947-949	644,647,660			
AIB401, 402	376,386			
AJM001-004	624,626,628,630			
ALK001, 002	374,406			
ANA001-025	138,139,148,151,167,170			
	196,212,219,245,300,328			
	365,383,413,482,501,507			
	531,534,549,554,658,669			
	685			
BAW001-010	006,008,011,017,018,039			
	042,103,109,120			
BV 051, 052	185,191			
CDN401-405	174,175,210,231,232			
407-411	283,284,302,305,309			
415, 416	403,404			
CESOO1	772			

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Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
CJG001, 002	707,724			
CNW001, 002	665,754			
csc051-053	540,551,556			
CTN101	258			
CYP001-008	028,035,037,038,180,256			
	295,316			
EWG001, 002	646,654			
GES002, 003	714,716			
005-009	730,735,737,749,764			
GFA801-814	313,325,345,375,419,421			
	438,445,459,466,481,497			
	536,537			
HP 620-622	052,053,054			
624-629	055,064,065,066,067,076			
631-637	077,081,082,091,092,098			
	099			
IAC001-012	045,046,047,048,049,050			
	051,056,057,058,074,075			
014-031	080,089,090,095,096,097			
	396,398,416,423,431,432			
	451,469,486,490,492,499			
KAC001-003	181,182,195			
LEI001	677			
101	781			
MSR001-007	165,166,178,194,198,351			
	366			
101-104	680,687,715,725			
MXA001-010	252,259,260,261,275,276			
	296,320,321,353			
012	368			
016	433			
NWA301-350	031,032,034,040,041,060			

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Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
	106,107,118,121,125,152			
	153,160,171,192,197,206			
	208,213,262,263,272,273			
	281,282,297,298,306,307			
	318,319,329,339,340,355			
	358,360,367,372,380,381			
	387,388,399,400,408,410			
	417,418			
0YC001-006	163,164,168,169,179,193			
PAL001-004	706,708,745,753			
RJA001-003	087,088,569			
SHK001, 002	322,326			
SWR276-279	517,519,520,522			
TAI001, 002	558,561			
051-054	448,453,460,461			
201-203	733,741,747			
TAR001-008	119,124,205,370,390,402			
	123,511			
WS 001-003	758,762,770			
XF 008	405			
054-056	496,527,530			
101	425			
104-107	640,542,543,676			
109	760			
205-208	604,614,620,631			
251-253	633,663,668			
351, 352	666,775			
510	525			
XP 053-059	221,222,294,299,301,348			
	349			
504-506	455,471,584			
XR 501-507	225,230,238,247,257,271			

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Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
	280			
510-514	304,308,314,315,317			
517	338			
520, 521	449,467			
524, 525	480,437			
XW 502-505	354,357,373,411			
XZ 003, 004	189,190			
101-108	234,235,288,289,331,343			
	395,407			
201, 202	653,657			
ZZ 001	761			
NOTE 1 : This	modification is embodied be	fore deliver	y on aircr	aft

- NOTE 1 : This modification is embodied before delivery on aircraft MSN 789 and subsequent.
- NOTE 2 : To do this Service Bulletin you must do Service Bulletin No. A320-21-1030 (Mod. No. 21865P1803) before or at the same time.
- NOTE 3 : This Service Bulletin cannot be accomplished if Service Bulletin No. A320-21-1087 (Mod. No. 24146P3462) has been accomplished.

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### (3) Spares

- Filter Cartridge (2082HM) P/N 420A200-2
- Filter Housing (2083HM) P/N 57514-02

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### B. REASON

(1) History

As part of the maintenance cost reduction program, the LBFS avionics ventilation system has been identified as the system with the highest potential for maintenance cost savings.

(2) Objective/Action

This Service Bulletin is published to advise all operators of A319, A320 and A321 aircraft equipped with "LE BOZEC" avionics ventilation filter system of the issue of LE BOZEC FILTRATION SYSTEMS (LBFS) Service Bulletin No. 34800A200-21-04.

In the avionics compartment, on the avionics ventilation filter system, this Service Bulletin proposes :

- To fit the filter housing with pressure test ports to determine the clogging level of the demister and dust filter
- To replace the one element dust filter cartridge by a dust filter cartridge composed of two elements: a cartridge body and a cartridge filter element.
- (3) Advantages

The following improvements permit a significant reduction of the direct maintenance cost of the avionics ventilation filter:

- Increase of the demister and the dust separator filter life time
  - The pressure test ports added on the filter housing permit the "on the condition of a delta pressure" maintenance concept instead of the current "hard time removal" maintenance concept. This new maintenance concept optimizes the cleaning and removal intervals of the demister and dust filter in accordance with the operator's operational conditions.
- Decrease of the spare price of the dust separator filter
  - The new version of the dust filter cartridge composed of two elements, permits the replacement of the filtering element instead of the whole cartridge, thus minimizing the cost of the removed part.
- Easy maintenance task
  - A portable manometer through the pressure test ports shows if cleaning and/or removal of the demister and/or the dust filter are necessary according to maximum pressure values.
- (4) Operational/Maintenance Consequences
  - (a) The maintenance concept is modified from "hard time removal" to "on the condition of a delta pressure removal". Consequently, the Maintenance Planning Document (MPD) will be modified.
  - (b) Interchangeability:

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Code 02 (Refer to ATA 200 Chapter 1A-2)

(c) Mixability:

Not applicable

(5) Accomplishment Timescale

In accordance with operators' maintenance schedule.

### C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Replace the filter housing and the dust filter cartridge in the avionics compartment.

### D. APPROVAL

The technical information including design data contained in this Service Bulletin has been approved under the Authority of DGAC Design Organisation Approval No. F.JA.O2. The changes specified in this Service Bulletin have been approved by the DGAC when they are major, or under the Authority of DGAC Design Organisation Approval No. F.JA.O2, when they are minor.

### E. MANPOWER

This Service Bulletin is written for an aircraft in a maintenance status. The manhours/elapsed time estimates do not include the time to prepare for the modification, non-productive elapsed time or administration.

On Aircraft

Get access	0.5
Replace the filter housing and the dust filter cartridge in the avionics compartment	1.0
Close-up	0.5
TOTAL MANHOURS	2.0
On Bench	

Refer to LBFS Service Bulletin No. 34800A200-

Modify the filter housing

21-04

TOTAL MANHOURS

Refer to LBFS Service Bulletin No. 34800A200-21-04

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### F. MATERIAL - COST AND AVAILABILITY

(1) Material

Modification of removed equipment should be negotiated directly with LBFS as per instructions given in Service Bulletin No. 34800A200-21-04.

(2) Cost and availability

Kit No. Cost
(US Dollars)

Availability : Calendar days from receipt of order

Refer to the vendor Service Bulletin No. 34800A200-21-04 for the equipment modification sales terms.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Manufacturers Empty Weight: +0.260kg (+0.5731lb)

Effect on Balance: +2.205kgm (+15.948lb.ft)

I. REFERENCES

Aircraft Maintenance Manual (AMM) : 21-26-43

Service Bulletin : A320-21-1030

Service Bulletin : A320-21-1087

LBFS Service Bulletin : 34800A200-21-04

J. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM) : 21-26-00, 21-26-43

Illustrated Parts Catalog (IPC) : 21-26-01, 21-26-43

Maintenance Planning Document (MPD) : 21-26-43
Trouble Shooting Manual (TSM) : 21-26-00

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### 2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

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

CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

(1) Preparation

Refer to AMM: 21-26-43, P. Block 401.

(2) Standard Practices

None

### B. MODIFICATION

- (1) Replace the filter housing and the dust filter cartridge in the avionics compartment
  - (a) Remove:

(Refer to AMM: 21-26-43, P. Block 401)

- 1 Filter Housing 2083HM 57514-02
- 1 Filter Cartridge 2082HM 420A200-2
  - (b) Install:

(Refer to AMM: 21-26-43, P. Block 401)

1 Filter Housing 2083HM 57514-31

at the same location, modified as written in the LBFS Service Bulletin No. 34800A200-21-04.

(c) Install the new dust filter cartridge in the modified filter housing

(Refer to AMM: 21-26-43, P. Block 401)

- 1 Filter Cartrigde 2082HM 4200A200-4
- C. TEST

None

D. CLOSE-UP

Refer to AMM: 21-26-43, P. Block 401.

E. DOCUMENTATION

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

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### 3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

NEW PART NO. QTY KEYWORD ITEM OLD PART NO. ITEM INT INST DISP 4200A200-4 1 420A200-2 02 (01) Cartrid. 57514-31 1 57514-02 02 (01) Housing

(01) Modification of removed equipment should be negotiated directly with LE BOZEC FILTRATION SYSTEM as per instructions given in Service Bulletin No. 34800A200-21-04.

NOTE: For definitions of interchangeability codes shown in column INT. refer to ATA 200 Chapter IA-2.

B. SPECIAL TOOLS

None

C. LIST OF MATERIAL - OPERATOR SUPPLIED

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

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# SERVICE BULLETIN ACCEPTANCE/REJECTION SHEET

AIRBUS INDUSTRIE
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TITLE: AIR CONDITIONING - GENERAL - INSTALL "LE BOZEC" AVIONICS

FILTER SYSTEM (P/N 57514-31 AND P/N 4200A200-4).

MODIFICATION No.: 26739 P5104 ATA SYSTEM: 21

IS BEING HEREWITH SUBMITTED TO YOU FOR REVIEW

Please fill: ...REJECTED

...WILL BE EMBODIED

... EFFECTIVITY

This SB can only be incorporated in your "customized" documentation within the agreed time schedule in so far as this sheet returned to us on purchase date and signed by a duly authorized and empowered officer or representative.

FROM :
AIRLINE :
NAME :
DATE :
DAIL .

Please return to :

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

Attn : AI/SE-D32 Technical Data and Documentation Services

FAX: (+33) 5 61 93 28 06

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