SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 5 61-93-33-33

Telex : AIRBU 530526 F

TITLE : AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION - INSTALL
FILTER FITTED WITH IN-SITU CLOGGING INSPECTION DEVICE.

MODIFICATION No. 23006P2461

ATA SYSTEM: 21

This page transmits Revision No. 04 of Service Bulletin No. A320-21-1050.

ADDITIONAL WORK

No additional work is required by this revision for aircraft modified by any previous revision.

HISTORY OF PREVIOUS REVISIONS

Revision No. 02 issued to inform the operators that the effectivity is modified: Customers AEF, CSC, TAI are now validated.

Revision No. 03 issued to inform the operators that the effectivity is modified: Customers AAA, ACA, ADR, AEF, AFR, ALK, AMC, ANA, AZA, BAW, BV, CDN, CSC, CYP, DLH, FHA, GFA, HP, IAC, IBE, KAC, MON, MSR, MXA, NWA, OHY, OYC, RJA, SAA, SHK, SWR, TAI, TAR, UAL, XF, XP, XR, XW and XZ deleted, Customers updated and Customer CSA added.

REASON

This revision is issued to inform the operators that the effectivity is modified.

SERVICE BULLETIN SUMMARY

Page 1 of 3 - Para. EFFECTIVITY modified. Sentence added.

SERVICE BULLETIN

Pages 1 of 15 thru 5 - Para. 1.A., Effectivity modified.

Page 6 - Para. 1.B., Sentence added.

Pages 6 thru 15 - Pages renumbered.

Page 9-10 - Para. 1.I., Reference added.

5 DATE: Dec 07/93 SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 1 of 2

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

FILING INSTRUCTIONS

Replace pages SUMMARY 1 of 3
SERVICE BULLETIN 1 of 15 thru 15.

Put this Revision Transmittal Sheet in front of the Service Bulletin.

REVISION SEQUENCES

ORIGINAL : Dec 07/93

REVISION No.: 1 - Mar 22/95

REVISION No.: 2 - Feb 19/96

REVISION No.: 03 - Feb 06/08

REVISION No.: 04 - Aug 29/08

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08

PAGE : 2

SERVICE BULLETIN SUMMARY

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Tel: (33) 5 61-93-33-33

Telex: AIRBU 530526 F

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

TITLE: AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION - INSTALL FILTER FITTED WITH IN-SITU CLOGGING INSPECTION DEVICE.

MODIFICATION No. 23006P2461

ATA SYSTEM: 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

This Service Bulletin proposes an in-situ monitoring device to optimize the avionics equipment filter (cartridge and demister) life.

Filter life is dependant on filter operating hours, not aircraft operating hours:

For operators at high latitudes, temperature is below 5°C for more than three months per year; therefore, skin valves are closed and no contaminant is ingested by the filter.

For operators with short routes/short turn around time, the time during which skin valves are open/flight time ratio is almost 1:1.

Therefore, this Service Bulletin is published to advise customers of all A320 aircraft concerned of the issue of LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1.

As per instructions in LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1, this modification consists in adding an in-situ monitoring installation to the filter allowing the filter to be checked on a regular basis; airlines will then be able to decide if the filter must be removed.

This Service Bulletin is superseded by the Service Bulletin No. A320-21-1110 (Mod. No. 26739P5104).

EFFECTIVITY

This Service Bulletin is applicable to the following customer(s):
AAA, ACA, ADR, AEF, AFR, AIBN, ALK, AMC, ANA, AZA, BCA, BV, CCM, CDN,
CSC, CTN, CSA, CYP, DBS, DLH, FHA, GES, GFA, HP, IAC, IRM, IBE, KAC,
MON, MSR, MXA, NWA, OYC, RJA, SDM, SRO, SWR, TAI, TAM, TAR, UAL, VLK,
XS, XF, XP, XR, XW, XZ.

5 DATE: Dec 07/93 SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 1 of 3

SA320/A321

SERVICE BULLETIN SUMMARY

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

Accomplishment of this Service Bulletin requires the previous or simultaneous accomplishment of Service Bulletin No. A320-21-1030 (Modification No. 21865P1803) and Service Bulletin No. A320-21-1078 (Modifications No. 23910P3132, 24372P3582).

REFERENCES/REPERCUSSIONS

TFU

: 21-26-43-003

0EB

: None

AOT

: None

SIL

: None

LIFE LIMIT

: None

LINE MAINTENANCE AFFECTED : NO

OTHER

: Maintenance Planning Document

NATURE OF THE WORK

AIRCRAFT:

NO

EQUIPMENT:

YES

HARD:

YES

SOFT:

NO

OBRM :

NO

COMPLIANCE

Optional.

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 1 - Mar 22/95

PAGE: 2

Ga320/a321

SERVICE BULLETIN SUMMARY

MANPOWER

On Aircraft

TOTAL MANHOURS 3.5

ELAPSED TIME (HOURS) 2.0

On Bench

TOTAL MANHOURS

Refer to LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1

MATERIAL INFORMATION

AIRCRAFT DATA

None.

EQUIPMENT DATA

Designation: Demister Air Filter (Filter housing)

Supplier: LE BOZEC FILTRATION & SYSTEMS

Service Bulletin No. 34800A200-3-21-02 Rev. 1

Old Part Number 34800A200-2 composed of Filter housing 57514-02

Demister

4250A200-3 Cartridge 420A200-2

New Part Number 34800A200-3 composed of Filter housing 57514-04

Demister

4250A200-3

Cartridge

420A200-2

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

Mixability: Not applicable

NOTE: Only the mixability configuration(s) and condition(s) stated

in this Service Bulletin are approved.

APPENDICES

None.

DATE : Dec 07/93 SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 1 - Mar 22/95 PAGE: 3

SERVICE BULLETIN SUMMARY

FORMAT

DATE : Dec 07/93

REVISION No. :

SERVICE BULLETIN No.: A320-21-1050

SERVICE BULLETIN

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1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 5 61-93-33-33
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TITLE: AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION - INSTALL FILTER FITTED WITH IN-SITU CLOGGING INSPECTION DEVICE.

MODIFICATION No. 23006P2461

ATA SYSTEM: 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models: 320-111, 320-211, 320-212, 320-231, 320-232, 321-111, 321-112, 321-131.

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. None	Qty of Kits
AAAOO7 009-012	029 140,142,157,229		
ACA201-234	059,068,073,084,122,126 127,141,149,150,154,159 183,233,242,248,253,254 255,265,277,290,310,311 324,330,333,341,342,350 359,378,384,426		
406	279		
409,410	302,305		
ADR001-003	043,113,114		
AEF051	565		
AFR004-009 001,002 011,013 015 031-048	014,019,020,021,002,004 005,007 010,013 016 061,062,063,100,101,102 128,129,133,186,187,188 226,227,228,285,286,287		
068	044		

5 DATE: Dec 07/93 SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 1 of 15

SERVICE BULLETIN

Customer and Fleet No.	MSN	Kit No. None	Qty of Kits
080-085 101-105 201-202 226 403 411	108,115,130,155,156,184 214,239 278,337,352,236,237,377 498,509,521,529,544 144,202 131 270		
AIBN001,002 401-402	033,036 376,386		
ALKOO2	406		
AMC001,002	112,293		
ANA001-022	138,139,148,151,167,170 196,212,219,245,300,328 365,383,413,482,501,507 531,534,549,554		
AZA001-012	477,488,494,495,434,524 526,532,515,516,513,514		
BCA001,002 004 006-010	006,008 017 039,042,103,109,120		
BV051,052	185,191		
CCM001,002	533,548		
CDN401-405 407,408 411 415,416	174,175,210,231,232 283,284 309 403,404		
csc051-053	540,551,556		
CTN101	258		
CSA101,102	674,684		
CYP002-008	035,037,038,180,256,295 316		

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No. : 04 - Aug 29/08

SERVICE BULLETIN

Customer and Fleet No.	MSN	Kit No. None	Qty of Kits
DBS001-004	204,211,244,215		
DLH001-010 012-034	069,070,071,072,078,083 086,093,094,104 110,111,116,117,135,137 147,161,162,172,200,201 202,209,216,217,218,267		
101–110 113	268,269,346,382,401 458,468,473,474,484,493 412,502,505,518 564		
FHA001,002	332,369		
GES251,252 301,302 401	203,220 455,471 003		
GFA801-810	313,235,345,375,419,421 438,445,459,466		
812 814	497 537		
HP605 619-622 624-629 631-634 636,637 640	543 527,052,053,054 055,064,065,066,067,076 077,081,082,091 098,099 448		
IACO01-012 014-031	045,046,047,048,049,050 051,056,057,058,074,078 080,089,090,095,096,097 096,398,416,423,431,432 451,469,486,490,492,499		
IRMOO1	530		
IBE001-022	134,136,143,146,158,173 176,177,199,207,223,224 240,241,246,264,266,274 303,312,323,356		
KAC001-003	181,182,195		

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No. : 04 - Aug 29/08

SERVICE BULLETIN

Customer and Fleet No.	MSN	Kit No. None	Qty of Kits
MON001-002	379,389		
MSR001-008	165,166,178,194,198,351 366,322		
MXA001-010 012	252,259,260,261,275,276 296,320,321,353 368		
NWA301 303-305 309-350	031 034,040,041 118,121,125,152,153,160 171,192,197,206,208,213 262,263,272,273,281,282 297,298,306,307,318,319 329,339,340,355,358,360 367,372,380,381,387,388 399,400,408,410,417,418		
0YC001-006	163,164,168,169,179,193		
RJA001,002	087,088		
SDM051	525		
SROS232 276,277 280	566 517,519 535		
SWR100-103 300-302	545,553,559,562 520,522,541		
TAI001,002 052 054	558,561 453 461		
TAM051-057 125	243,249,250,251,334,335 440 453		
TAR001-008	119,124,205,370,390,402 123,511		

DATE : Dec 07/93 SERVICE BULLETIN No. : A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 4

SERVICE BULLETIN

Customer and Fleet No.	MSN	Kit No. None	Qty of Kits
UAL401-430	435,439,442,450,452,454 456,457,462,463,464,465 470,472,475,479,483,485 487,489,500,503,504,506 508,510,512,523,539,568		
V LK001	528		
XS 002,003	326,344		
XF 001-009	393,394,414,430,443,447		
053,054 101 105 501,502 504 506,507	415,405,361 428,496 425 542 446,422 371 409,427		
XP 052-059	085,221,222,294,299,301		
062,063 502,503	348,349 391,392 362,363		
XR 501-505 507-525	225,230,238,247,257 280,291,292,304,308,314 315,317,327,336,338,429 444,449,467,476,478,480 437		
XW 501-506 509	347,354,357,373,411,424 441		
XZ 002-004 101-110	132,189,190 234,235,288,289,331,343 395,407,420,436		

NOTE: Accomplishment of this Service Bulletin requires the previous or simultaneous accomplishment of Service Bulletin No. A320-21-1030 (Modification No. 21865P1803) and Service Bulletin No. A320-21-1078 (Modifications No. 23910P3132, 24372P3582).

DATE : Dec 07/93 SERVICE BULLETIN No. : A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 5

SERVICE BULLETIN

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(3) Spares

LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1

B. REASON

(1) History

This Service Bulletin proposes an in-situ monitoring device to optimize the avionics equipment filter (cartridge and demister) life.

Filter life is dependant on filter operating hours, not aircraft operating hours:

For operators at high latitudes, temperature is below 5° C for more than three months per year; therefore, skin valves are closed and no contaminant is ingested by the filter.

For operators with short routes/short turn around time, the time during which skin valves are open/flight time ratio is almost 1:1.

Therefore, this Service Bulletin is published to advise customers of all A320 aircraft concerned of the issue of LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1.

(2) Objective/Action

As per instructions in LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1, this modification consists in adding an in-situ monitoring installation to the filter allowing the filter to be checked on a regular basis; airlines will then be able to decide if the filter must be removed.

This Service Bulletin is superseded by the Service Bulletin No. A320-21-1110 (Mod. No. 26739P5104).

DATE : Dec 07/93 SERVICE BULLETIN No. : A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 6

SERVICE BULLETIN

(3) Advantages

Improve maintenance by checking the clogging level of each item (demister and cartridge) of the avionics equipment ventilation filter instead of systematic removal.

(4) Operational/Maintenance Consequences

Interchangeability: see Para. 3

Mixability: Not applicable

NOTE: Only the mixability configuration(s) and condition(s) stated in this Service Bulletin are approved.

(5) Accomplishment Timescale

In accordance with operators experience.

C. DESCRIPTION

To accomplish this Service Bulletin, it is necessary to :

- (1) Gain access in avionics compartment, zone 127, between FR20 and FR24.
- (2) On the Demister Air Filter, replacing existing filter housing (2083HM) by a modified filter housing, mechanically interchangeable, as per instructions in LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1.
- (3) Test.
- (4) Close-up.

D. APPROVAL

Approved under EASA Design Organisation Approval No. EASA 215-031.

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.

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08

SERVICE BULLETIN

E. MANPOWER

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

On Aircraft

Gain access	0.5
Removal/Installation of demister air filter	2.0
Test	0.5
Close-up	0.5
TOTAL MANHOURS	3.5
ELAPSED TIME (HOURS)	2.0

On Bench

TOTAL MANHOURS

Refer to LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1

F. MATERIAL - COST AND AVAILABILITY

Terms of material procurement are to be negotiated directly with LE BOZEC FILTRATION & SYSTEMS as per Service Bulletin No. 34800A200-3-21-02 Rev. 1.

G. TOOLING - PRICE AND AVAILABILITY

None.

H. WEIGHT AND BALANCE

Manufacturers Empty Weight: + 0.260 kg (+ 0.574 lb)

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

DATE: Dec 07/93 SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 8

SERVICE BULLETIN

I. REFERENCES

Aircraft Maintenance Manual (AMM): 06-41-52, 12-34-24, 21-26-00,

21-26-43, 24-41-00

AIRBUS Service Bulletins : A320-21-1030, A320-21-1078,

A320-21-1110

LE BOZEC FILTRATION & SYSTEMS Service Bulletin 34800A200-3-21-02 Rev. 1

J. PUBLICATIONS AFFECTED

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

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

Elec. Std. Practices Manual (ESPM): 20-55-00

DATE : Dec 07/93 SERVICE BULLETIN No. : A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 9-10

SERVICE BULLETIN

2. ACCOMPLISHMENT INSTRUCTIONS

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 MAINATENANCE 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.

THESES 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) Preparation

- (a) De-energize the aircraft electrical circuits (Refer to AMM 24-41-00, P. BLock 201) and electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).
- (b) Put the access platform(s) in position.
- (c) Open the forward passenger/crew door 831 and the door 824 of the avionics compartment (Refer to AMM 06-41-52).
- (d) Open, safety and tag the circuit breakers given in AMM 21-26-43, P. Block 401.
- (2) Standard Practices

None.

DATE: Dec 07/93 SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08 PAGE: 11

SERVICE BULLETIN

B. MODIFICATION

In the avionics compartment, in zone 127, between FR20 and FR24, replace the filter housing (2083HM).

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

(1) Remove:

1 LE BOZEC FILTRATION & SYSTEMS demister air filter 34800A200-2 composed of :

Filter housing 57514-02

Demister

4250A200-3

Cartridge

420A200-2

that you must modify as per the instructions in LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1.

NOTE: Re-use all the attachment hardware.

(2) Install:

1 modified LE BOZEC FILTRATION & SYSTEMS demister air filter 34800A200-3 composed of :

Filter housing 57514-04

Demister

4250A200-3

Cartridge

420A200-2

with the hardware retained at removal.

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08

PAGE : 12

SERVICE BULLETIN

C. TESTS

- (1) Remove the locking device of the clogging indicator P/N 120B3 installed on the dust separator.
- (2) Close the circuit breakers given in AMM 21-26-43, P. Block 401.
- (3) Wait the end of the avionics equipment ventilation power up test (approximately 75 sec.).
- (4) Remove the locking device of the clogging indicator P/N 120B2 installed on the demister filter.
- (5) If the indicators, do not pop-out filters can withstand another "A" check period.
- (6) In case, any of the indicators are popped-out, you must replace the replaced filter by a new or a restored one as per LE BOZEC FILTRATION & SYSTEMS CMM 21-26-00.

NOTE: The above instructions are shown on a tag stuck on the filter housing.

D. CLOSE-UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Close the forward passenger/crew door 831 and the door 824 of the avionics compartment (Refer to AMM 06-41-52).
- (3) Remove the access platform(s).
- (4) Disconnect the aircraft electrical ground connection (Refer to AMM 12-34-24, P. Block 201).

E. DOCUMENTATION

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

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No. : 04 - Aug 29/08

PAGE: 13-14

SERVICE BULLETIN

3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

ITEM	NEW PART No.	QTY	KEYWORD	ITEM	OLD PART No.	INT	INST DISP	
	34800A200-3	1	Filter		34800A200-2	02		*
	composed of :				composed of :			
	57514-04 4250A200-3 420A200-2		Housing Demister CRTG		57514-02 4250A200-3 420A200-2			

^{*} Modification of removed equipment should be negotiated directly with the vendor LE BOZEC FILTRATION & SYSTEMS as per instructions given in Service Bulletin No. 34800A200-3-21-02 Rev. 1.

B. SPECIAL TOOLS

None.

C. <u>LIST OF MATERIALS - OPERATOR SUPPLIED</u>

Refer to LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1.

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

Refer to LE BOZEC FILTRATION & SYSTEMS Service Bulletin No. 34800A200-3-21-02 Rev. 1.

DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No.: 04 - Aug 29/08

AIRBUS INDUSTRIE TECHNICAL PUBLICATIONS 1 Rond Point Maurice BELLONTE

SERVICE BULLETIN

Tel: (33) 61-93-33-33 Telex: AIRBUS 530526 F

31707 BLAGNAC CEDEX FRANCE

TITLE: AIR CONDITIONING - AVIONICS EQUIPMENT VENTILATION - INSTALL FILTER

FITTED WITH IN-SITU CLOGGING INSPECTION DEVICE.

MODIFICATION No. 23006P2461

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 is returned to us on purchase date and signed by a duly authorized and empowered officer or representative.

FROM :
<u>AIRLINE</u> :
<u>NAME</u> :
DATE :
19

Please return to:

AIRBUS INDUSTRIE CUSTOMER SERVICES DIRECTORATE TECHNICAL PUBLICATIONS 1 Rond Point Maurice BELLONTE 31707 BLAGNAC CEDEX FRANCE Tel: (33) 61-93-33-33

Telex: AIRBUS 530526 F

5 DATE : Dec 07/93

SERVICE BULLETIN No.: A320-21-1050

REVISION No. :

PAGE : 1 of 1