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SERVICE BULLETIN SUMMARY

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

Telex: AIRBUS 530526F

TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSPECT AIR

INLET CHECK VALVE.

MODIFICATION No. None

ATA SYSTEM : 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

One operator has reported several cases of broken springs on air inlet check valve (2150HM). This was initially noticed after an in-flight turnback due to a skin air inlet valve (15HQ) frozen in the open position. To ensure aircraft pressurization with a failed open skin air inlet valve and to avoid damage to the avionic ventilation ducts, this Service Bulletin recommends check of the air inlet check valve (2150HM) operation and replacement of this check valve if it is found damaged during the inspection.

EFFECTIVITY

This Service Bulletin is applicable to these customer(s):
AAA, ACA, ADR, AEF, AFR, AIB, ALK, AMC, ANA, AUA, AZA, BAW, BV,
CDN, CSC, CYP, DLH, FHA, GFA, HP, IAC, IBE, ITF, KAC, MON, MSR,
MXA, NWA, OHY, OYC, RGA, RJA, SAA, SHK, SWR, TAI, TAR, UAL, XF,
XP, XR, XW, XZ.

This Service Bulletin is applicable only on aircraft listed above on which modifications No. 21899P1669 and No. 21999P2000 are embodied or Service Bulletin No. A320-21-1017 (Modif. No. 21899P1669) is accomplished.

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

Service Bulletin No. A320-21-1017 (Modif. No. 21899P1669)

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REFERENCES/REPERCUSSIONS

TFU : 21-26-53-006

OEB : None

AOT : None

SIL : None

LIFE LIMIT : None

LINE MAINTENANCE AFFECTED : NO

OTHER : None

NATURE OF THE WORK

AIRCRAFT : YES

EQUIPMENT: NO

HARD: NO

SOFT: NO

OBRM: NO

COMPLIANCE

Recommended.

MANPOWER

For the inspection

TOTAL MANHOURS 2.0

ELAPSED TIME (HOURS) 2.0

For the repair (if necessary)

TOTAL MANHOURS 5.5

ELAPSED TIME (HOURS) 5.5

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SERVICE BULLETIN SUMMARY

MATERIAL INFORMATION

AIRCRAFT DATA

None

EQUIPMENT DATA

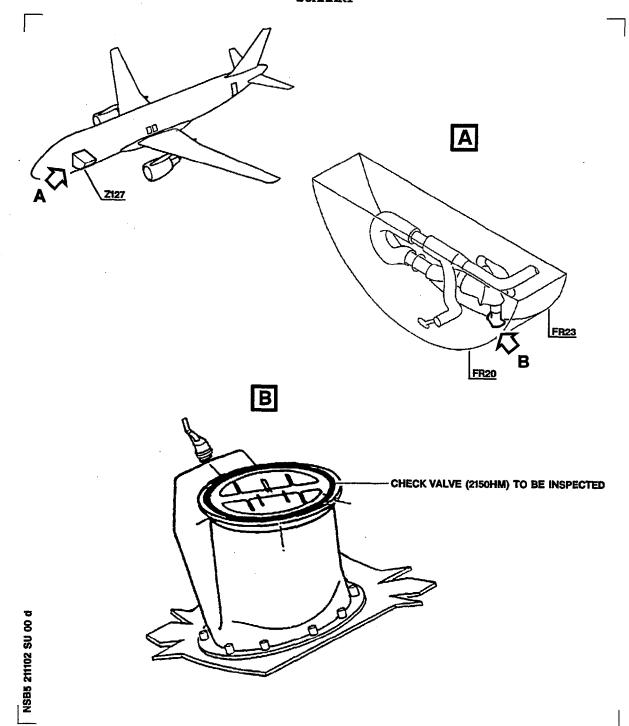
None

APPENDICES

None

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SERVICE BULLETIN
SUMMARY



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TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSPECT AIR

INLET CHECK VALVE.

MODIFICATION No. None

ATA SYSTEM: 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models: 320-111, 320-211, 320-212, 320-214, 320-231, 320-232, 320-233, 321-111, 321-112, 321-131

(2) Aircraft

Customer and MSN Kit No. Qty Config Fleet No. None of Kits No.

AAA001-014 022,023,024,025,026,027 029,030,140,142,157,229 547,615

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

ADR001-003 043,113,114

AEF001 575 051,052 565,580

AFR001,002 005,007

004-008 014,019,020,021,002 031-048 061,062,063,100,101,102 128,129,133,186,187,188 226,227,228,285,286,287

106,107 131,132

AIB001 258 401,402 376,386

ALK001,002 374,406

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Customer and MSN Kit No. Qty Config Fleet No. None of Kits No. 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 AUA476-478 552,570,581 AZA001-017 477, 488, 494, 495, 434, 524 526, 532, 515, 516, 513, 514 576,583,586,593,599 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 CSC051-053 540,551,556 CYP001-008 028, 035, 037, 038, 180, 256 295,316 DLH001-010 069,070,071,072,078,083 086,093,094,104 012-034 110, 111, 116, 117, 135, 137 147, 161, 162, 172, 200, 201 202, 209, 216, 217, 218, 267 268, 269, 346, 382, 401 101-115 458, 468, 473, 474, 484, 493 412,502,505,518,560,563 564,567,595 FHA001,002 332,369 101-104 538,555,602,606 GFA801-816 313, 325, 345, 375, 419, 421 438, 445, 459, 466, 481, 497 536,537,542,543 HP 620-622 052,053,054 624-629 055,064,065,066,067,076 631-637 077,081,082,091,092,098 099

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Customer ar	nd MSN	Kit No. None	Qty of Kits	Config No.
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			
IBE001-022	134,136,143,146,158,173			
	176,177,199,207,223,224			
	240,241,246,264,266,274			
	303,312,323,356			
ITF001-003	010,012,013			
005-018	016,033,036,044,004,003			
	108, 115, 130, 155, 156, 184			
	214,239			
020-027	278,337,352,236,237,377			
	491,525			
101-105	498,509,521,529,544			
201,202	144,145			
301,302	204,211			
401-403	215,244,270			
KAC001-003	181,182,195			
MON001,002	379,389			
MSR001-007	165,166,178,194,198,351 366			
MXA001-010	252,259,260,261,275,276 296,320,321,353			
012	368			
016	433			
NWA301-350	031,032,034,040,041,060 106,107,118,121,125,152			
	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			
ОНY001	385			
OYC001-006	163,164,168,169,179,193			
RGA004-006	605,607,611			

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Customer an	nd MSN	Kit No. None	Qty of Kits	Config No.
RJA001-003	087,088,569			
SAA001-007	243,249,250,251,334,335 440			
SHK001-003	322,326,344			
SWR226-237	533,545,548,553,559,562 566,574,577,585,596,603			
276-281	517,519,520,522,535,541			
TAI001,002 051-054	558,561 448,453,460,461			
TAR001-008	119,124,205,370,390,402 123,511			
UAL401-434	435,439,442,450,452,454 456,457,462,463,464,465 470,472,475,479,483,485 487,489,500,503,504,506 508,510,512,523,539,568 571,587,589,592			
XF 001-009 053-056 101-103	393,394,414,430,443,447 415,405,361 428,496,527,530 425,573,582			
201-207	550,557,591,597,604,614 620			
501,502 504-508 551,552	446,422 371,397,409,427,528 279,579			
XP 001 051-059 062,063 502-505	085 203,220,221,222,294,299 301,348,349 391,392 362,363,455,471			
XR 501-525	225,230,238,247,257,271 280,291,292,304,308,314 315,317,327,336,338,429 444,449,467,476,478,480 437			
XW 501-506 509	347,354,357,373,411,424 441			

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SERVICE BULLETIN

Customer and Fleet No.

MSN

Kit No. Qty Config None of Kits No.

XZ 003,004 189,190

101-110 234,235,288,289,331,343

395, 407, 420, 436

This Service Bulletin is applicable only on aircraft listed above on which modifications No. 21899P1669 and No. 21999P2000 are embodied or Service Bulletin No. A320-21-1017 (Modif. No. 21899P1669) is accomplished.

(3) Spares

None

B. REASON

(1) History

One operator has reported several cases of broken springs on air inlet check valve (2150HM). This was initially noticed after an in-flight turnback due to a skin air inlet valve (15HQ) frozen in the open position.

(2) Objective/Action

This Service Bulletin recommends check of the air inlet check valve (2150HM) operation and replacement of the check valve if it is found damaged during the inspection.

(3) Advantages

Accomplishment of this Service Bulletin ensures aircraft pressurization with a failed open skin air inlet valve and avoids damage to the avionic ventilation ducts.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

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SERVICE BULLETIN

C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

In zone 127

- (1) Do a manual inspection of the check valve (2150HM).
- (2) If the check valve (2150HM) does not operate correctly, replace it by a new check valve (2150HM).

D. APPROVAL

The design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No. C01.

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.

For the inspection

Gain access	0.5
Manual inspection of the check valve (2150HM)	1.0
Close-up	0.5
TOTAL MANHOURS	2.0
ELAPSED TIME (HOURS)	2.0
For the repair (if necessary)	
Gain access	0.5
Replacement of the damaged check valve (2150HM)	4.0
Test	0.5
Close-up	0.5
TOTAL MANHOURS	5.5
ELAPSED TIME (HOURS)	5.5

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F. MATERIAL - COST AND AVAILABILITY

No Airbus Industrie kit will be provided. Parts required to accomplish this Service Bulletin are to be purchased by a Spares Purchase Order.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Not changed.

I. REFERENCES

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

21-26-56, 24-41-00

J. PUBLICATIONS AFFECTED

None

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2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

(1) Preparation

- (a) De-energize the aircraft electrical circuits (Refer to AMM 24-41-00, P. Block 201).
- (b) Electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).
- (c) Open, safety and tag this (these) circuit breaker(s) :

PANEL	PANEL SERVICE		SERVICE IDENT		LOCATION	
49VU	AIR COND/AVNCS VENT/CTL	5HQ	05 D or 07 D			
49VU	AIR COND/AVNCS VENT/CTL	6HQ	06 D			
122 V U	AIR COND/AVNCS/VENT/MONG	3HQ	17 Y			
123VU	AVNCS VENT/BLOWER/FAN	1HQ	10AD			
123VU	AVNCS VENT/EXTC/FAN	2HQ	02AE or 04AC			

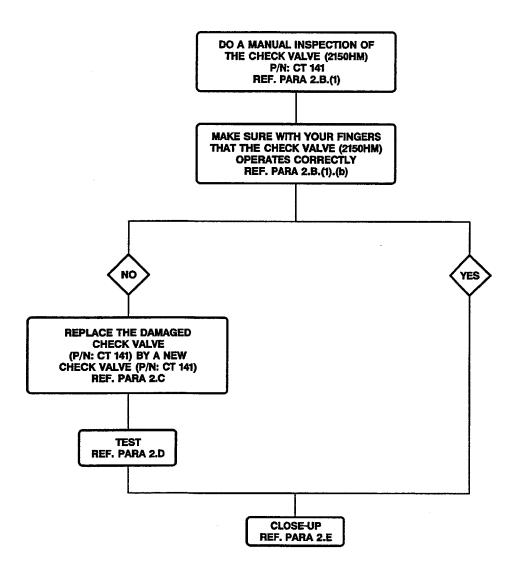
- (d) For the inspection (additional operation).
 - Put the access platform in position on the left side of the aircraft, below the valve (15HQ).
- (e) For the repair (additional operations).
 - 1 Put the access platform in position under the rear avionics compartment door (824).
 - 2 Open the access door 824.
- (2) Standard Practices

None

(3) Work Breakdown

The purpose of the synoptic chart (Refer to Figure 1, Sheet No. 1) is to show the various Inspection/Repair phases described in this Service Bulletin.

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Synoptic Chart. Figure 1, Sheet 1

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B. INSPECTION

(1) Do a manual inspection of the check valve (2150HM).

Refer to Figure 2, Sheet No. 1

- Open the valve (15HQ) manually if it is not already (a) open.
- (b) Through the inlet duct, make sure with your fingers that the check valve (2150HM) operates correctly and specially that :
 - the valve clappers touch their seats correctly,
 - the clappers move freely on their hinge pin,
 - the return springs operate correctly.

C. REPAIR

(1) If the check valve (2150HM) does not operate correctly, replace it by a new check valve (2150HM).

Refer to AMM 21-26-56, P. Block 401

(a) Remove :

1 Check Valve 2150HM

CT141

(Discard)

Install: (b)

1 Check Valve

2150HM CT141

D. TESTS

- (1) Preparation for the test.
 - (a) Make sure that these circuit breakers are closed :

PANEL SERVICE		IDENT	LOCATION
49VU	AIR COND/AVNCS VENT/CTL	5HQ	05 D or 07 D
49VU	AIR COND/AVNCS VENT/CTL	6HQ	06 D
122VU	AIR COND/AVNCS/VENT/MONG	3HQ	17 Y
123VU	AVNCS VENT/BLOWER/FAN	1HQ	10AD
123VU	AVNCS VENT/EXTC/FAN	2HQ	02AE or 04AC

- (b) Disconnect the aircraft electrical ground-connection (Refer to AMM 12-34-24, P. Block 201).
- Restore systems and aircraft to normal operating condition.

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- (2) Test.
 - (a) Do the operational test of the avionics equipment ventilation from the Multipurpose Control and Display Unit (MCDU) (Refer to AMM 21-26-00, P. Block 501).

E. CLOSE-UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) For the repair (additional operations).
 - (a) Close the access door 824.
 - (b) Remove the access platform(s).
- (3) For inspection only (additional operations).
 - (a) Make sure that these circuit breakers are closed :

PANEL	ANEL SERVICE		LOCATION
49VU	AIR COND/AVNCS VENT/CTL	5HQ	05 D or 07 D
49VU	AIR COND/AVNCS VENT/CTL	6HQ	06 D
122VU	AIR COND/AVNCS/VENT/MONG	3HQ	17 Y
123VU	AVNCS VENT/BLOWER/FAN	1HQ	10AD
123 V U	AVNCS VENT/EXTC/FAN	2HQ	02AE or 04AC

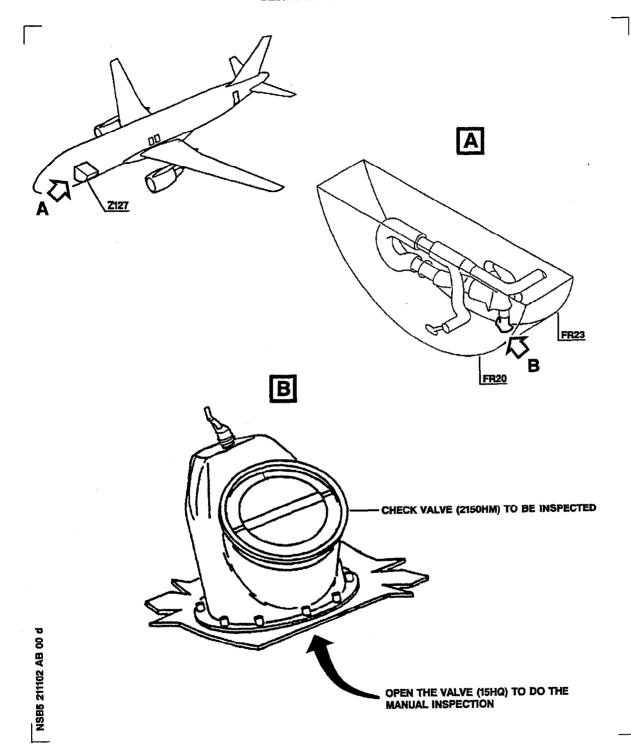
- (b) Remove the access platform(s).
- (c) Disconnect the aircraft electrical ground-connection (Refer to AMM 12-34-24, P. Block 201).
- (d) Restore systems and aircraft to normal operating condition.
- (e) Write the inspection results on the special form given with this Service Bulletin and send them to Airbus Industrie (AI/SE-E231).

F. DOCUMENTATION

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

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Inspected Check Valve (2150HM) Location. Figure 2, Sheet 1

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	SERVICE BULLETIN N°: A320-21-1102 A/C MSN: FLIGHT CYCLES:		INSPECTION REPORT	-	DATE OF INSPECTION: INSPECTION METHOD MANUAL INSPECTION	
	FLIGHT HOURS: FINDING: YES NO					
		CHECK	VALVE TO BE INSPECTED		CHECK VALVE (P/N: CT 141)	
		E Cool			INSPECTION REPLACEMENT NO REPLACEMENT	
-						
P 00 2	·					
NSB5 211102 AC 00 d	PLEASE SPECIFY OTHER FINDINGS :			•	REA REPAIRED IN ACCORDANCE WITH :	

Inspection Report. Figure 3, Sheet 1

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3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

ITEM NEW PART No. QTY KEYWORD ITEM

OLD PART No.

INT INST

DISP

CT141

1 Valve (01)

NOTE (01) : Material required for accomplishment of this

Service Bulletin shall be procured by means

of a spares purchase order.

NOTE

: Return the damaged check valve (CT141) to :

TECHNOFAN

ZAC du Grand Noble

10, place Marcel Dassault

31700 BLAGNAC

FRANCE

B. SPECIAL TOOLS

None

C. LIST OF MATERIAL - OPERATOR SUPPLIED

DESCRIPTION

REFERENCE TO CML

QTY PER A/C

O-ring NSA8203-260

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

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TITLE : AIR CONDITIONING - AVIONICS VENTILATION - INSPECT AIR

INLET CHECK VALVE.

MODIFICATION No. None

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 an empowered officer or representative.

FROM :
AIRLINE :
•••••
NAME :
••••••
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

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