SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 61933333
Telex: AIRBU 530526F

TITLE : AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - INSPECT

THE TRIM AIR CHECK VALVES 18HM, 19HM AND AIR DUCTS.

MODIFICATION No. : 00000 (INSPECTION)

ATA SYSTEM: 21

This page transmits Revision No. 02 of Service Bulletin No. A320-21-1046.

No more work is necessary to do this revision.

REASON

This Revision is issued to add A321 aircraft to the effectivity, generally update the existing effectivity and Service Bulletin format,

CHANGES

SUMMARY

SERVICE BULLETIN

- Page 1 of 11 thru 11 Effectivity revised and format updated.

APPENDIX 1

- Page 1 of 1 Format updated.

FILING INSTRUCTIONS

Replace the complete Service Bulletin.

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

DATE : Sep 07/92 SERVICE BULLETIN No. : A320-21-1046

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SERVICE BULLETIN REVISION TRANSMITTAL SHEET

HISTORY OF REVISIONS

REVISION 01 was issued to add the inspection of the air ducts in which the trim air check valves are installed and to change the effectivity.

REVISION SEQUENCES

ORIGINAL: Sep 07/92

REVISION No.: 01 - Oct 14/93

DATE : Sep 07/92

SERVICE BULLETIN No.: A320-21-1046

REVISION No. : 02 - Jun 05/96

SERVICE BULLETIN

SUMMARY

AIRBUS INDUSTRIE CUSTOMER SERVICES DIRECTORATE 1 Rond Point Maurice BELLONTE 31707 BLAGNAC CEDEX FRANCE Tel: (33) 61933333

Telex: AIRBU 530526F

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

TITLE: AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - INSPECT

THE TRIM AIR CHECK VALVES 18HM, 19HM AND AIR DUCTS.

MODIFICATION No.: 00000 (INSPECTION) ATA SYSTEM: 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Trim air check valves have been reported to have failed in-service. In some cases, the valve flappers were found to be missing from the valve body. Examination of the trim air chech valves on other aircraft has shown signs of valve flapper deformation, but has not found further failed valves. In the event of a trim air duct failure in an unpressurised zone, where the trim air check valve has also failed, a loss of cabin pressure may result. Investigation of failed valves has not shown any material defects that could explain the failures. Additional Laboratory testing has been unable to reproduce the failures. This Service Bulletin is issued to describe the work necessary to visually inspect the valves for damage and the air ducts for any irregularities. It is requested that the result of inspections be forwarded to Airbus Industrie in order that any further necessary action can be determined. It is recommended that this inspection be done at the next "C Check". Subsequent inspections will be done at the "4C" interval in accordance with MPD Task 212642-01-1.

EFFECTIVITY

This Service Bulletin is applicable to these customer(s): AAA, ACA, ADR, AEF, AFR, AIB, AJM, 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.

SERVICE BULLETIN(S) TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

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SERVICE BULLETIN SUMMARY

REFERENCES/REPERCUSSIONS

TFU

: 21.62.42.01

0EB

: None

AOT

: None

SIL

: None

LIFE LIMIT

: None

LINE MAINTENANCE AFFECTED : No

OTHER

: None

NATURE OF THE WORK

Kit No. 211046A0X

AIRCRAFT :

YES

EQUIPMENT:

NO

HARD:

NO

SOFT:

NO

OBRM :

NO

COMPLIANCE

Recommended

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SERVICE BULLETIN SUMMARY

MANPOWER

Kit No. 211046A0X

TOTAL MANHOURS

6.5

ELAPSED TIME (HOURS)

4.0

MATERIAL INFORMATION

AIRCRAFT DATA

None

EQUIPMENT DATA

None

APPENDICES

None

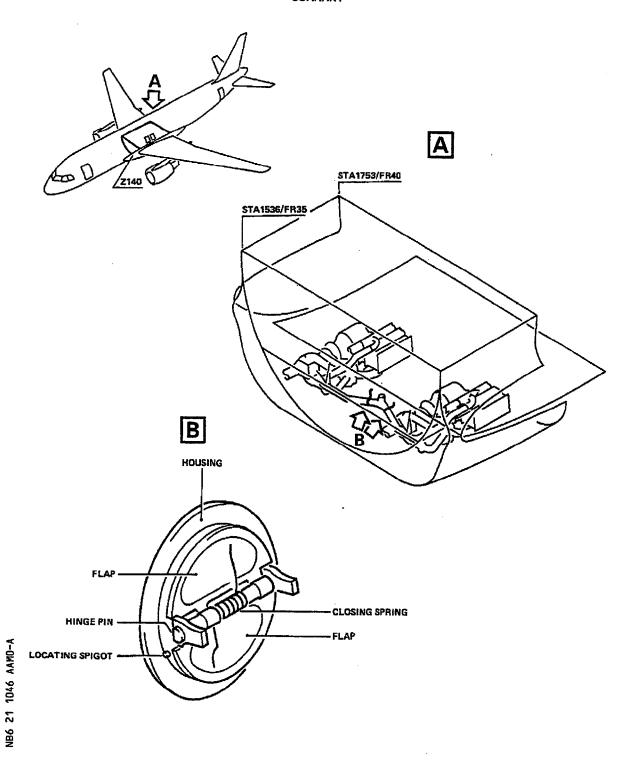
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SERVICE BULLETIN SUMMARY



DATE : Sep 07/92

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SERVICE BULLETIN

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Tel: (33) 61933333 Telex: AIRBU 530526F

TITLE : AIR CONDITIONING - COCKPIT AND CABIN TEMPERATURE CONTROL - INSPECT

THE TRIM AIR CHECK VALVES 18HM, 19HM AND AIR DUCTS.

MODIFICATION No.: 00000 (INSPECTION) ATA SYSTEM: 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models: 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. 211046 of Kits No. None

AAA 001-016 ,027,026,025,026,027 ,029,030,140,142,157,229, 547,615,622,632

ACA 201-234 , 126, 122, 180, 073, 068, 059

127,141,149,150,154,159, 183,233,242,248,253,254, ,255,265,277,290,310,311 ,350,341,342,350

359,378,384,426

ADR 001-003 043,113,114

051,052 565,580

AFR 001,002 005,007

> 004-008 014,019,020,021,002

575

031-048 , 102, 101, 100, 663, 260, 161

,188,187,186,133,186,187,188

226,227,228,285,286,287

106,107 131,132

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AEF 001

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S A320/A321

SERVICE BULLETIN

Customer and Fleet No.		msn	Kit No. 211046 None	•	Config. No.
	001 401,402	258 376,386			
AJM C	001-004	624,626,628,630			
ALK C	001,002	374,406			
AMC C	001,002	112,293			
ANA C	001-022	138,139,148,151,167,170, 196,212,219,245,300,328, 365,383,413,482,501,507, 531,534,549,554			
AUA 4	76-478	552,570,581			
AZA C	001-017	477,488,494,495,434,524, 526,532,515,516,513,514, 576,583,586,593,599			
BAW C	01-010	006,008,011,017,018,039, 042,103,109,120			
BV C	052,052	185,191			
4	401-405 407-411 415,416	174,175,210,231,232 283,284,302,305,309 403,404			
csc c)51-053	540,551,556			
CYP C	001-008	028,035,037,038,180,256, 295,316			

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S A320/A321

SERVICE BULLETIN

	Customer and Fleet No.		MSN	Kit No. 211046 None	Qty of Kits	Config. No.
	DLH	001-010	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			
	FHA	001,002	332,369			
		101-104	538,555,602,606			
	GFA	801-816	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			
	IAC	001-012	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			
	IBE	001-022	134,136,143,146,158,173, 176,177,199,207,223,224, 240,241,246,264,266,274, 303,312,323,356			
1	ITF	001-003	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			

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SERVICE BULLETIN

	ustomer and Fleet No.	MSN	Kit No. 211046 None	•	Config. No.
KAC	001-003	181,182,195			
MON	001,002	379,389			
MSR	001-007	165,166,178,194,198,351, 366			
MXA	001-010	252,259,260,261,275,276, 296,320,321,353			
	012,016	368,433			
NWA	301-350	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			
ОНҮ	001	385			
OYC	001-006	163,164,168,169,179,193			
RGA	001-008	590,594,601,605,607,611, 617,619			
RJA	001-003	087,088,569			
SAA	001-007	243,249,250,251,334,335, 440			
SHK	001-003	322,326,344			
SWR	226-238	533,545,548,553,559,562, 566,574,577,585,596,603, 635			
	276-281	517,519,520,522,535,541			
TAI	001,002 051 - 054	558,561 448,453,460,461			

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SERVICE BULLETIN

Cu	ustomer and Fleet No.	MSN	Kit No. 211046 None	Qty of Kits	Config.
TAR	001-008	119,124,205,370,390,402, 123,511			
UAL	401-435	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, 571,587,589,592,613			
XF	001-009	393,394,414,430,443,447, 415,405,361			
	053-056	428,496,527,530			
	101-103	425,573,582			
	201-208	550,557,591,597,604,614, 620,631			
	501,502	446,422			
	504-508	371,397,409,427,528			
	551	279			
	552	579			
ΧP	001	085			
	051-059	203,220,221,222,294,299, 301,348,349			
	062,063	391,392		· ·	
	502,503	362,363			
	504-506	455,471,584			
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			

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SERVICE BULLETIN

Customer and Fleet No.		MSN	Kit No. 211046 None	Qty of Kits	Config. No.	
XW	501-506 509	347,354,357,373,411,424 441				
XZ	003,004 101-110	189,190 234,235,288,289,331, <u>343</u> , 395,407,420,436				

UNASSIGNED AIRCRAFT:

638, 364

This modification is embodied before delivery on A320 aircraft MSN 640 and subsequent and A321 aircraft MSN 633 and subsequent.

(3) Spares

None

B. REASON

(1) History

Trim air check valves have been reported to have failed in-service. In some cases, the valve flappers were found to be missing from the valve body. Examination of the trim air chech valves on other aircraft has shown signs of valve flapper deformation, but has not found further failed valves. In the event of a trim air duct failure in an unpressurised zone, where the trim air check valve has also failed, a loss of cabin pressure may result. Investigation of failed valves has not shown any material defects that could explain the failures. Additional laboratory testing has been unable to reproduce the failures.

(2) Objective/Action

This Service Bulletin is issued to describe the work necessary to visually inspect the valves for damage and the air ducts for any irregularities. It is requested that the result of inspections be forwarded to Airbus Industrie in order that any further necessary action can be determined.

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SERVICE BULLETIN

(3) Advantages

Damage and the cause of the damage leading to failure of the trim air check valve will be detected and the necessary rectification can be carried out.

(4) Operational/Maintenance Consequences

None.

(5) Accomplishment Timescale

It is recommended that this inspection be done at the next "C Check". Subsequent inspections will be done at the "4C" interval in accordance with MPD Task 212642-01-1.

C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Remove the trim air check valves.
- (2) Inspect the trim air check valves.
- (3) Inspect the ducts in which the trim air chack valves are installed.
- (4) Install the trim air check valves.
- (5) Do an operational test of the cockpit and cabin temperature cotrol system.

D. APPROVAL

The design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No. C 01.

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 times or administration.

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SERVICE BULLETIN

Kit No. 211046A0X

Get access	1.0
Inspection	3.5
Test	1.0
Close-up	. 1.0
TOTAL MANHOURS	6.5
FLAPSED TIME (HOURS)	4 N

F. MATERIAL - COST AND AVAILABILITY

None

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Not Changed

I. REFERENCES

Aircraft Maintenance Manual (AMM) : 12-34-24, 21-63-00, 21-63-42

J. PUBLICATIONS AFFECTED

None

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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

- (a) Electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).
- (b) Open, safety and tag the circuit breakers as given in (Refer to AMM 21-63-42, P. Block 401).
- (2) Standard Practices

None

B. INSPECTION

- (1) Remove the trim-air check valves 18HM and 19HM (Refer to AMM 21-63-42, P. Block 401)
- (2) Inspect the trim-air check valves and the air duct in which they are installed.
 - (a) Do a visual inspection of each trim-air check valve for signs of cracks, dents, marks bending or corrosion on :
 - the valve-flaps,
 - the valve-flap seats,
 - the valve-flap hinge-pin,
 - the valve-flap return spring'
 - the valve-housing.
 - (b) Make sure that each valve-flap operates correctly on its hinge-pin.
 - (c) Make sure that each valve-flap touches its seat correctly.
 - (d) Make sure that each trim-air check valve is clean.

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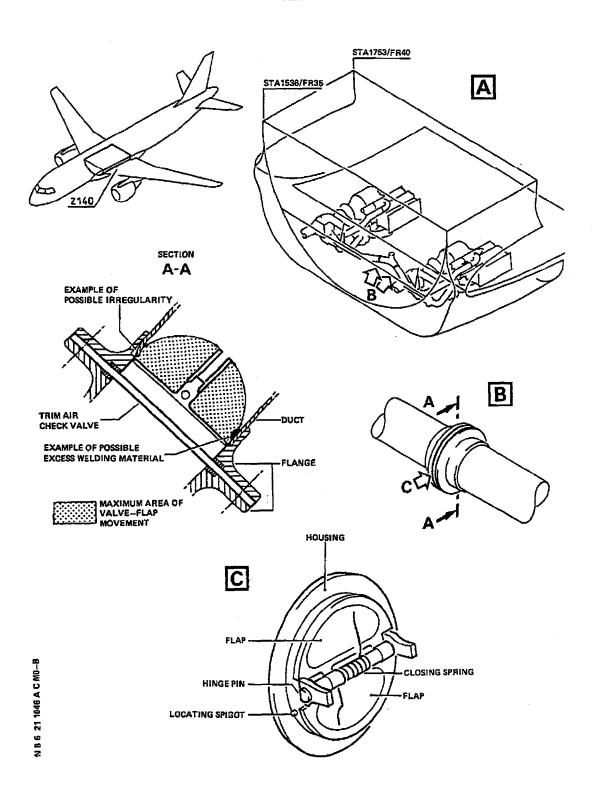
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- (e) Inspect the inside of the ducts in the areas where the trim-air check valves are installed, for:
 - too much welding material
 - unwanted material in the inside of the duct/flange interface.
- (f) Remove any unwanted or too much welding material by filing or grinding.
- (3) Install the trim-air check valves 18HM and 19HM (Refer to AMM 21-63-42, P. Block 401)
 - (a) Make sure that the valve-flaps open and close freely without any resistance other than that caused by their return springs.

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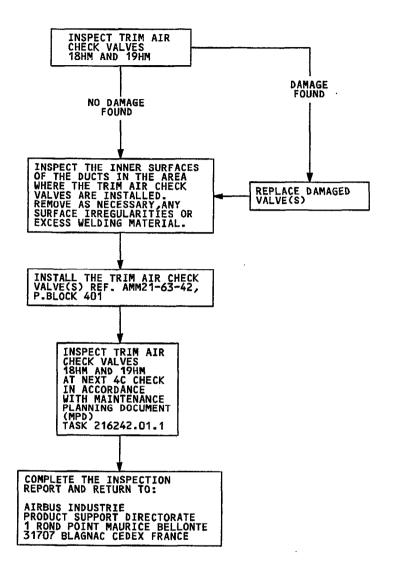
Trim Air Check Valves 18HM and 19HM Figure 1 Sheet 1

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Flow Chart Figure 2 Sheet 1

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C. TESTS

Do an operational test of the cockpit and cabin temperature control system (Refer to AMM 21-63-00, P. Block 501)

D. CLOSE-UP

Make sure that the work area is clean and clear of tools and other items.

E. <u>DOCUMENTATION</u>

- (1) Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.
- (2) Complete the inspection report, Appendix 1, and return it to :

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

Telex: AIRBU 530526 F

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3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

None

B. SPECIAL TOOLS

None

C. LIST OF MATERIAL - OPERATOR SUPPLIED

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

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THE TRIM AIR CHECK VALVES 18HM, 19HM AND AIR DUCTS.

MODIFICATION No. : 00000 (INSPECTION)

ATA SYSTEM: 21

(1) Complete the attached inspection report and return to :

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Tel: (33) 61933333

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6 DATE : Sep 07/92

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A320-21-1046

Inspection Report Appendix 1

	SB NO.	:	A320	21-10	46		INSPECTIO	N REPORT					
	SB TITLE							TEMPERATUR 19HM/AND A			ALLY IN	SPECT	
	A/C MSN	:											
	FLIGHT C	YCLES:						DATE OF	INSPE	CTION:			
	FLIGHT H	iours :											
	DAMAGE F	OUND :	YES		ио []							
SKETCH OF	DAMAGE F	OUND:						DESCRIPTION	N OF DAI	MAGE FOU	ND AND	ACTION	TAKEN:
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AIRBUS INDUSTRIE CUSTOMER SERVICES DIRECTORATE 1 Rond Point Maurice BELLONTE 31707 BLAGNAC CEDEX FRANCE

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THE TRIM AIR CHECK VALVES 18HM, 19HM AND AIR DUCTS.

MODIFICATION No.: 00000

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

FROM :

AIRLINE :

NAME :

DATE :

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 : AIRBU 530526

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