



A319/A320/A321

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 - FWD AND AFT CARGO COMPARTMENTS - REPLACE THE
HEATING CONTROLLERS 1HC (FWD) AND 10HC (AFT)

MODIFICATION No. : 24130K3571 24131K3572

ATA SYSTEM : 21

This page transmits Revision No. 02 of Service Bulletin No. -21-1084.

ADDITIONAL WORK

No more work is necessary to do this revision.

REASON

This Revision has been issued to update the aircraft effectivity.

CHANGES

SUMMARY

Para. EFFECTIVITY, Operator CTN added; Operators AIB, CSC, ITF, MON, SHK
and XP deleted.

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PLANNING INFORMATION

Para. A.(2), effectivity updated.

Para. D., Approval statement revised.

FILING INSTRUCTIONS

Replace the complete Service Bulletin.

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

HISTORY OF PREVIOUS REVISIONS

Revision No. 01 was issued to update the effectivity.

REVISION SEQUENCE

ORIGINAL : Mar 20/95

REVISION No. : 01 - Feb 21/97

REVISION No. : 02 - Sep 24/98

6 DATE : Mar 20/95

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SERVICE BULLETIN SUMMARY

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

TITLE : AIR CONDITIONING - FWD AND AFT CARGO COMPARTMENTS - REPLACE THE
HEATING CONTROLLERS 1HC (FWD) AND 10HC (AFT)

MODIFICATION No. : 24130K3571 24131K3572

ATA SYSTEM : 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Due to the larger cargo compartment in the A321 aircraft, difficulties with temperature stability have been experienced in the FWD and AFT cargo compartments during the flight test phase.

This Service Bulletin is issued to introduce improved cargo compartment heating-controllers 1HC (FWD cargo compartment) and 10HC (AFT cargo compartment) in common with A321 aircraft.

The improvements to the cargo compartment heating-controllers consist of:

- new temperature-control law to improve the temperature stability
- change of TAPRV auto close output-monitoring resistor to avoid unjustified failure messages (code 713)

NOTE : The unjustified failure code (713) which was stored in CHC memory had no adverse effect on the system operation.

- installation of a reverse current protection diode at all discrete inputs
- controllers are fitted with an alternative housing

EFFECTIVITY

This Service Bulletin is applicable to these operator(s) :
AFR, ANA, CDN, CTN, GFA, IBE, KAC, MSR, NWA, RJA, TAR, UAL, XF, XZ.

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

REFERENCES/REPERCUSSIONS

TFU	: None
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None
LINE MAINTENANCE AFFECTED	: None

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SERVICE BULLETIN SUMMARY

OTHER : None

NATURE OF THE WORK

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

COMPLIANCE

Optional

MANPOWER

Config. No. 01

TOTAL MANHOURS	3.50
----------------	------

ELAPSED TIME (HOURS)	2.50
----------------------	------

Config. No. 02

TOTAL MANHOURS	4.00
----------------	------

ELAPSED TIME (HOURS)	3.00
----------------------	------

MATERIAL INFORMATION

AIRCRAFT DATA

Config. No. 01

1 Heating controller

Config. No. 02

2 Heating controller

EQUIPMENT DATA

None

APPENDICES

None

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MODIFICATION No. : 24130K3571 24131K3572

ATA SYSTEM : 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models : 320-111, 320-211, , , , , ,

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
AFR009-013	004,003,010,012,013			1
015	016			1
066-068	033,036,044			1
071-078	108,115,130,155,156,184			1
	214,239			
080-085	278,337,352,236,237,377			1
201, 202	144,145			1
211, 212	420,436			1
226, 227	131,132			1
301, 302	204,211			1
401-403	215,244,270			1
411	491			1
ANA001-022	138,139,148,151,167,170			1
	196,212,219,245,300,328			
	365,383,413,482,501,507			
	531,534,549,554			
CDN401-405	174,175,210,231,232			1
407-411	283,284,302,305,309			1
415, 416	403,404			1
CTN101	258			1
GFA801-812	313,325,345,375,419,421			1
	438,445,459,466,481,497			

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Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
814	537			1
IBE001-022	134,136,143,146,158,173 176,177,199,207,223,224 240,241,246,264,266,274 303,312,323,356			2
KAC001-003	181,182,195			1
MSR001-007	165,166,178,194,198,351 366			1
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			
RJA001-003	087,088,569			1
TAR007	123			1
UAL401-435	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			1
XF504-507	371,397,409,427			1
510	525			1
551, 552	279,579			1
XZ003, 004	189,190			1
101-110	234,235,288,289,331,343 395,407,420,436			1

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NOTE 1 : Modification 24131K3572 (AFT cargo-compartment controller) is valid for A/C with Config. No. 01

NOTE 2 : Modification 24130K3571 (FWD cargo-compartment controller) and 24131K3572 (AFT cargo compartment controller) are valid for A/C with Config. No. 02

The modification 24130K3571 is applicable to the A/C listed in para. 1.A.(2) only and is embodied, before delivery, on aircraft 434, 477, 488, 494, 495, 513, 514, 515, 516, 524, 526, 532, 572, 576, 583, 586, 593, where cargo compartment-heating controllers 1HC are installed.

The modification 24131K3572 is applicable to the A/C listed in para. 1.A.(2) only and is embodied before delivery, on aircraft 498, 509, 521, 529, 544, 564, 568, 569, 571, 572, 589, 594, where cargo compartment-heating controllers 10HC are installed.

(3) Spares

None

B. REASON

(1) History

Due to the larger cargo compartment in the A321 aircraft, difficulties with temperature stability have been experienced in the FWD and AFT cargo compartments during the flight test phase.

(2) Objective/Action

This Service Bulletin details the procedure to install the improved cargo compartment heating-controllers 1HC and 10HC in common with A321 aircraft.

(3) Advantages

The subsequent modifications will make sure of the correct function of the FWD and AFT cargo compartment heating-controllers:

- new temperature-control law to improve temperature stability.
- change of TAPRV auto close output-monitoring resistor to avoid unjustified failure messages (code 713).

NOTE : The unjustified failure code (713) which was stored in CHC memory had no adverse effect on the system operation.

- installation of a reverse current protection diode at all discrete inputs
- the new controllers are fitted with an alternative housing.

Equipment commonality between A320 aircraft and A321 aircraft.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

In accordance with the operators maintenance planning.

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C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Replace the cargo compartment heating-controllers 1HC and 10HC.

D. APPROVAL

The technical content of this Service Bulletin has been approved under the authority of the DGAC Design Organisation Approval No. F.JA.02.

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.

Modification applicable to Config. No. 01

Get access	1.00
Modification	0.50
Test	1.00
Close-up	1.00
TOTAL MANHOURS	3.50
ELAPSED TIME (HOURS)	2.50

Modification applicable to Config. No. 02

Get access	1.00
Modification	1.00
Test	1.00
Close-up	1.00
TOTAL MANHOURS	4.00
ELAPSED TIME (HOURS)	3.00

F. MATERIAL – COST AND AVAILABILITY

(1) Material

No Airbus Kit will be provided for this Service Bulletin. For procurement of the heating controllers please contact:

BAVARIA AVIONIK TECHNOLOGIE GMBH
KIRSCHSTRASSE 20
80999 MUENCHEN
GERMANY
Tel.: (49) 089/8184-0
Fax.: (49) 089/8120833

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(2) Cost and availability

Kit No.	Cost (US Dollars)	Availability : Calendar days from receipt of order
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None

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual (AMM) : 12-34-24, , , 21-43-00, , ,
21-43-34

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-43-08

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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 applicable circuit breakers as given in (Refer to AMM: 21-43-34, P. Block 401 .
- (c) Put an access platform in position at the access door 811.
- (d) Open the access door 811.

(2) Standard Practices

None

B. MODIFICATION

NOTE: This procedure is for the replacement of both heating controllers (1HC and 10HC). For A/C listed under Config. No. 01 you must do the procedure for the AFT heating-controller 10HC only.

(1) Replace the FWD/AFT cargo compartment heating-controllers 1HC and 10HC.

- (a) Remove the FWD/AFT cargo compartment heating-controllers 1HC and 10HC.

1 Remove and discard the cargo compartment heating - controllers (Refer to AMM: 21-43-34, P. Block 401 .

- (b) Install the new cargo compartment heating-controllers 600611-00-600, 1HC and 10HC

1 Install and connect the improved cargo compartment heating-controllers. (Refer to AMM: 21-43-34, P. Block 401 .

C. TEST

NOTE: This procedure is for both heating controllers (1HC and 10HC). For A/C listed under Config. No. 01 you must do the test procedure for the AFT heating controller 10HC only.

- (1) Remove the safety clips and tags and close the circuit breakers that you opened in Refer to Paragraph 2.A.(1)(b) (Refer to AMM: 21-43-34, P. Block 401).
- (2) Do the operational test of the FWD and AFT cargo compartments heating-system (Refer to AMM: 21-43-00, P. Block 501 .

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D. CLOSE-UP

- (1) Make sure that the work area is clean and clear of tools and other items.
- (2) Close the access door 811.
- (3) Remove the access platform.

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

ITEM	NEW PART NO.	QTY	KEYWORD	ITEM	OLD PART NO.	INT	INST DISP
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Kit No. 21108401

1	600611-00-600	1	Controll		600611-00-506		A
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Kit No. 21108402

1	600611-00-600	2	Controll		600611-00-506		A
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(A) Buyer Furnished Equipment (BFE)

NOTE : No Airbus Industrie kit will be supplied for this modification. For procurement of the heater controllers refer to para 1.F: MATERIAL - COST and AVAILABILITY.

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

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MODIFICATION No. : 24130K3571 24131K3572

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 :

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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