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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.

SERVICE BULLETIN

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

Revision No. 01 was

REVISION SEQUENCE

REVISIONS

issued to update the effectivity.

ORIGINAL : Mar 20/95

REVISION No. : 01 - Feb 21/97

REVISION No. : 02 - Sep 24/98

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SERVICE BULLETIN

SUMMARY

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

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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3.50

2.50

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OTHER NATURE OF THE WORK

|  |  |
| --- | --- |
| AIRCRAFT  EQUIPMENT  HARD  SOFT  OBRM COMPLIANCE Optional  MANPOWER | :  :  :  :  : |

Config. No. 01

TOTAL MANHOURS

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SUMMARY

: None

YES

NO

NO

NO

NO

ELAPSED TIME (HOURS)

Config. No. 02

TOTAL MANHOURS

4.00

3.00

ELAPSED TIME (HOURS)

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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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

1. PLANNING INFORMATION

A. EFFECTIVITY

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

(2) Aircraft

Customer and MSN Kit No. Qty Config

Fleet No. none of kits 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.

814

IBE001-022

KAC001-003

MSR001-007

NWA301-350

RJA001-003

TAR007

UAL401-435

XF504-507

510

551, 552

XZ003, 004

101-110

MSN

537

134,136,143,146,158,173

176,177,199,207,223,224

240,241,246,264,266,274

303,312,323,356

181,182,195

165,166,178,194,198,351

366

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

087,088,569

123

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

371,397,409,427

525

279,579

189,190

234,235,288,289,331,343

395,407,420,436

Kit No.

Config

No.

Qty

of kits

none

1

2

1

1

1

1

1

1

1

1

1

1

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SERVICE BULLETIN

NOTE 1 : Modification

24131K3572 (AFT cargo-compartment

A/C with Config. No. 01

24130K3571 (FWD cargo-compartment

controller)

is valid for

NOTE 2 : Modification

controller)

(3) Spares

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.

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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SERVICE BULLETIN

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

the authority

E. MANPOWER

content of this Service Bulletin has been approved under

of the DGAC Design Organisation Approval No. F.JA.02.

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

Modification

Test

Close-up

TOTAL MANHOURS

ELAPSED TIME (HOURS)

Modification applicable to

Get access

Modification

Test

Close-up

TOTAL MANHOURS

ELAPSED TIME (HOURS)

Config. No. 02

1.00

0.50

1.00

1.00

3.50

2.50

1.00

1.00

1.00

1.00

4.00

3.00

F. MATERIAL - COST AND AVAILABILITY

|  |  |  |
| --- | --- | --- |
| (1) | Material  No Airbus Kit will be provided for this Service Bulletin.  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 | For |

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(2) Cost and availability

Kit No.

None

Cost

(US Dollars)

Availability :

days from receipt

Calendar of order

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual (AMM)

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC)

: 12-34-24, , , 21-43-00, , ,

21-43-34

: 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 gound 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

Kit No. 2110 01

1 600611-00-600 1 Controll 600611-00-506 A Kit No. 2110 02

1 600611-00-600 2 Controll 600611-00-506 A

(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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| FROM :  AIRLINE :   |  | | --- | | NAME : | | DATE : | |

SERVICE BULLETIN

ACCEPTANCE/REJECTION 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

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| IS BEING HEREWITH  Please fill : | SUBMITTED TO YOU FOR REVIEW  ...REJECTED  ...WILL BE EMBODIED  ...EFFECTIVITY |

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| 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. |

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| --- |
| 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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