AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE

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

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

MODIFICATION No.: 23433K3130

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - CARGO COMPARTMENT HEATING - MODIFY THE HEAT

CONTROLLER (1HC) FOR FWD CARGO COMPARTMENT

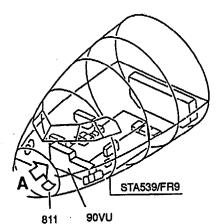
REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

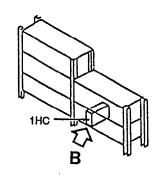
This Service Bulletin is issued to advise operators of A320 aircraft of the issue of the BAVARIA AVIONIK TECHNOLOGIE GMBH, SERVICE BULLETIN No. 600611-21-003.

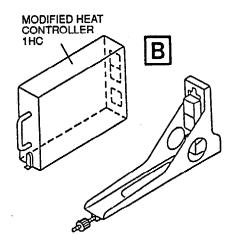
This modification introduces an improved cargo heat controller (1HC) for the FWD cargo compartment. The improvements concern the software (EPROM change). The improvements of the cargo heat controller (1HC) consist of:

- Software failure for "Ground Report" operation corrected.
- Monitoring time for Trim Air Valve spring operation during power-up test increased to max. 8s to ensure proper monitoring of closing of the Trim Air Valve down to temperature of -55° C.
- An additional time delay of 60s for power-up test. Wait-time for "Ground information" if CFDS is in the power-up test phase.
- Within the waiting time for ARINC data from CFDS, failures are not stored into the BITE-memory.
- Increased validation times and toler ances to avoid failure indication of transient failures.
- The S/W step counter of the stepper motor will be used for TAV movement monitoring and TAV position indication on ECAM.

3 DATE : MAY 18/93







SERVICE BULLETIN No.: A320-21-1070

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SERVICE BULLETIN SUMMARY

EFFECTIVITY

This Service Bulletin is applicable to the following operator: IBE.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

REFERENCES/REPERCUSSIONS

TFU TFU 21.43.51.004

LIFE LIMIT

None

OEB None

LINE MAINTENANCE AFFECTED

NO

AOT None

SIL None

OTHERS None

NATURE OF THE MODIFICATION

AIRCRAFT

YE\$

EQUIPMENT

NO

HARD

NO

SOFT

NO

OBRM

NO

COMPLIANCE

Desirable

MANPOWER

On aircraft

Modification

Manhours

2.00

Ref.to BAVARIA AVIONIK

TECHNOLOGIE GMBH. SERVICE BULLETIN No. 600611-21-003

Elapsed Time (hours)

2.00

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MATERIAL INFORMATION

Aircraft Data

Designation

Cargo Heat Controller

Supplier

BAVARIA AVIONIK TECHNOLOGIE GMBH

Kirchstraße 20 D-8000 München 50

Germany

Service Bulletin No.

600611-21-003

Part Number Before

600611-00-505

Part Number After

600611-00-506

Interchangeable Code

02

Intermixable

Not applicable

Equipment Data

None

APPENDICES

None

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MODIFICATION No.: 23433K3130

ATA SYSTEM: 21

TITLE: AIR CONDITIONING - CARGO COMPARTMENT HEATING - MODIFY THE HEAT

CONTROLLER (1HC) FOR FWD CARGO COMPARTMENT

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft Model: A320-211

(2) Aircraft

Customer and Fleet No.

MSN

Kit No. Q

Qty of Kits

None

.....

None

IBE 001-022 134,

134, 136, 143, 146, 158, 173, 176, 177, 199, 207, 223, 224, 240, 241, 246, 264, 266, 274, 303, 312, 323,

356

(3) Spares

Controller P/N 600611-00-505

B. REASON

(1) History

This Service Bulletin is issued to advise operators of A320 aircraft of the issue of the BAVARIA AVIONIK TECHNOLOGIE GMBH, SERVICE BULLETIN No. 600611-21-003.

This modification introduces an improved cargo heat controller (1HC) for the FWD cargo compartment. The improvements concern the software (EPROM change). The improvements of the cargo heat controller (1HC) consist of:

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- Within the waiting time for ARINC data from CFDS, failures are not stored into the BITE-memory.
- Increased validation times and tolerances to avoid failure indication of transient failures.
- The S/W step counter of the stepper motor will be used for TAV movement monitoring and TAV position indication on ECAM.

(2) Objective/Action

To enable such improvements, the cargo heat controller 1HC has to equipped with a new EPROM in accordance with the BAVARIA AVIONIK TECHNOLOGIE GMBH Service Bulletin No. 600611-21-003.

(3) Advantages

The accomplishment of this Service Bulletin ensures the correct function of the cargo heat controller (1HC).

(4) Accomplishment Timescale

This desirable Service Bulletin can be accomplished at the convenience of the operator.

C. DESCRIPTION

Accomplishment of this Service Bulletin consists of carrying out the following jobs:

- (1) Removing the cargo heat controller (1HC), PN 600611-00-505.
- (2) Modifying the cargo heat controller as described in the BAVARIA AVIONIK TECHNOLOGIE GMBH Service Bulletin No. 600611-21-003.
- (3) Installing the improved cargo heat controller (1HC), PN 600611-00-506.

D. APPROVAL

This Service Bulletin relates to the change(s) referenced on page 1 which has (have) been approved under the authority of DGAC Design Organisation Approval No. C 01.

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

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E. MANPOWER

	Manhours		
	Aircraft	Bench	
Gain access	0.50		
Removal	0.50		
Modification		Ref.to BAVARIA AVIONIK TECHNOLOGIE GMBH. SERVICE BULLETIN No. 600611-21-003	
Installation	0.50		
Close-up	0.50		
Test			
TOTAL MANHOURS	2.00		
ELAPSED TIME (HOURS)	2.00		

NOTE: This Service Bulletin assumes that the aircraft has been placed in a maintenance status. The manhours/elapsed time estimates do not include preparation for the modification, non-productive elapsed time, or administrative functions.

F. MATERIAL - COST AND AVAILABILITY

Refer to BAVARIA AVIONIK TECHNOLOGIE GMBH. Service Bulletin No. 600611-21-003.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual: 21-43-34, 21-43-00

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog: 21-43-34

Component Maintenance Manual: 21-43-01

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SERVICE BULLETIN

2. ACCOMPLISHMENT INSTRUCTIONS

AIRCRAFT

A. GENERAL

(1) Preparation

Accomplishment of this Service Bulletin includes these operations:

(a) Open, safety and tag this circuit breaker:

PANEL	SERVICE			IDENT.	LOCATION
49VU	AIR COND/FWD MONG	CARGO/VENT	& HTG/CTL &	2HN	c08

- (b) Put the access platform in position at the access door 811.
- (c) Open access door 811.
- (2) Standard Procedures

None

B. MODIFICATION

Refer to Figure 1

- (1) Remove the cargo heat controller (1HC), PN 600611-00-505 in accordance with the AMM 21-43-34, P. Block 401.
- (2) Modify the cargo heat controller (1HC) as per Para. 2.F.
- (3) Install the modified FWD cargo heat controller (1HC), PN 600611-00-506 in accordance with the AMM 21-43-34, P. Block 401.

C. TEST

(1) Do an operational test of the FWD cargo compartment heating system in accordance with the AMM 21-43-00, P. Block 501.

D. CLOSE-UP

- (1) Make sure that the work area is clean and clear of tools and other items of equipment.
- (2) Remove the safety clip and the tag and close the circuit breaker 2HN
- (3) Close the access door 811.

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(4) Remove the access platform.

E. DOCUMENTATION

DATE: MAY 18/93

Record the accomplishment of this Service Bulletin in the relevant aircraft technical records.

BENCH

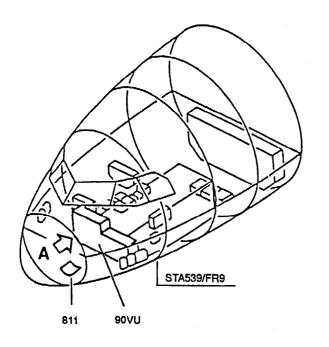
F. REMOVED COMPONENTS AND SPARES

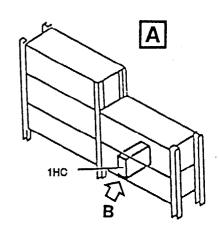
(1) Modify the cargo heat controller 6944101700, P/N 600611-00-505 in accordance with the BAVARIA AVIONIK TECHNOLOGIE GMBH SERVICE BULLETIN No. 600611-21-003.

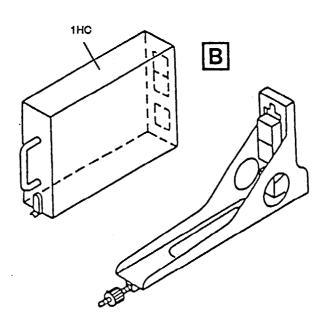
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Location of FWD Cargo Heat Controller 1HC Figure 1

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3. MATERIAL INFORMATION

Basis for the following material data is per aircraft

A. LIST OF COMPONENTS

For parts required, refer to the BAVARIA AVIONIK TECHNOLOGIE GMBH, SERVICE BULLETIN No. 600611-21-003.

B. LIST OF MATERIALS - OPERATOR SUPPLIED

None

C. SPECIAL TOOLS

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

Refer to the BAVARIA AVIONIK TECHNOLOGIE GMBH, SERVICE BULLETIN No. 600611-21-003.

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SERVICE BULLETIN

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CONTROLLER (1HC) FOR FWD CARGO COMPARTMENT

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>:

NAME:

DATE:

19....

Please return to:

AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE

Att.: AI/SP - Technical Publications
Department

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