AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
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This summary is for information only and is not approved for modification of the aircraft

MODIFICATION No.: 23432K3129

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - CARGO COMPARTMENT HEATING - MODIFY THE HEAT

CONTROLLER (10HC) FOR AFT 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 (10HC) for the AFT cargo compartment. The improvements concern the software (EPROM change). The improvements of the cargo heating controller (10HC) 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.

STA539/FR9 90VU 811 10HC MODIFIED HEAT CONTROLLER В

3 DATE : Apr 01/93

SERVICE BULLETIN No.: A320-21-1068

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### **EFFECTIVITY**

This Service Bulletin is applicable to the following operators: ANA, CDN, GFA, IBE, ITF, KAC, MSR, NWA, RJA and XZ.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

REFERENCES/REPERCUSSIONS

TFU 214351004

LIFE LIMIT

None

0EB None

LINE MAINTENANCE AFFECTED

NC

AOT None

SIL None

OTHERS None

NATURE OF THE MODIFICATION

**AIRCRAFT** 

YES

**EQUIPMENT** 

NO

HARD

NO

SOFT

NO

OBRM

NO

COMPLIANCE

Desirable

**MANPOWER** 

Kit No. 211068A00

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

Yes

Equipment Data

None

**APPENDICES** 

None

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ATA SYSTEM: 21

T I T L E: AIR CONDITIONING - CARGO COMPARTMENT HEATING - MODIFY THE HEAT CONTROLLER (10HC) FOR AFT CARGO COMPARTMENT

### 1. PLANNING INFORMATION

### A. EFFECTIVITY

(1) Aircraft Models: A320-111, -211, -212, -231

### (2) Aircraft

Customer and Fleet No.	MSN	Kit No. AOO	Qty of Kits
ANA 001-015	138, 139, 148, 151, 167, 170, 196, 212, 219, 245, 300, 328, 365, 383, 413		
CDN 401-412, 414-415	174, 175, 210, 231, 232, 279, 283, 284, 302, 305, 309, 371, 397, 403, 404, 409, 415		
GFA 801-806	313, 325, 345, 375, 419, 321		
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		
ITF 001-003, 005-025	010, 012, 013, 016, 033, 036, 044, 004, 003, 108, 115, 130, 155, 156, 184, 214, 239, 258, 278, 337, 352, 236, 237, 377		
201-202	144, 145		
301-302	204, 211		
401-403	215, 244, 270		
KAC 001-003	181, 182, 195		
MSR 001-007	165, 166, 178, 194, 198, 351, 366		
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		

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SERVICE BULLETIN No.: A320-21-1068

Customer and Fleet No.

MSN

Kit No. Qty of A00 Kits

RJA 001-003

087, 088, 551

XZ 101-109

234, 235, 288, 289, 331, 343, 395,

407, 420

### (3) Spares

Cargo heat controller (10HC), PN 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.

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- Software failure for "Ground Report" operation corrected.
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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 10HC has to equipped with a new EPROM in accordance with the BAVARIA AVIONIK TECHNOLOGIE GMBH Service Bulletin No. 600611-21-003.

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### (3) Advantages

The accomplishment of this Service Bulletin ensures the correct function of the cargo heat controller (10HC).

(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 (10HC), PN 600611-00-505.
- (2) Modifying the cargo heating controller as described in the BAVARIA AVIONIK TECHNOLOGIE GMBH Service Bulletin No. 600611-21-003.
- (3) Installing the improved cargo heat controller (10HC), 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

	mannours	
	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 Test	0.50 0.50	
TOTAL MANHOURS	2.50	
ELAPSED TIME (HOURS)	2.00	

Manhoure

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

Component Maintenance Manual: 21-43-01

### J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog: 21-43-34, 21-43-08

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### 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/AFT CARGO/VENT & HTG/CTL & MONG	31HN	c07

- (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 (10HC), PN 600611-00-505 in accordance with the AMM 21-43-34, P. Block 401.
- (2) Modify the cargo heat controller (10HC) as per Para. 2.F.
- (3) Install the modified cargo heat controller (10HC), PN 600611-00-506 in accordance with the AMM 21-43-34, P. Block 401.

#### C. TEST

(1) Do an operational test of the AFT 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 31HN
- (3) Close the access door 811.

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(4) Remove the access platform.

### E. DOCUMENTATION

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

### BENCH

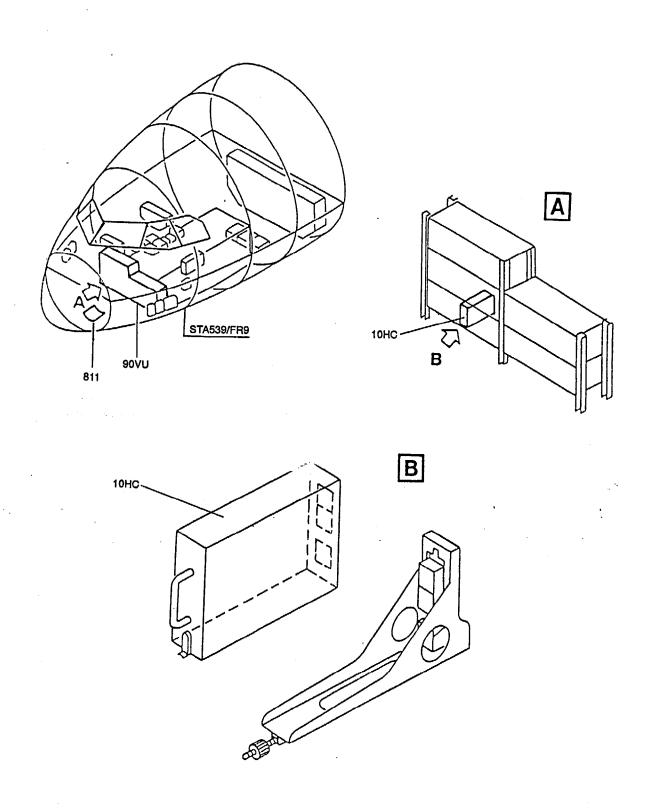
# F. REMOVED COMPONENTS AND SPARES

(1) Modify the cargo heating 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 AFT Cargo Heat Controller 10HC Figure 1

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# **ØA320**SERVICE BULLETIN

### 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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CONTROLLER (10HC) FOR AFT 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:
AIRLINE :
•••••
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

3 DATE : Apr 01/93

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