

**- 4 OCT. 1996**

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

TITLE : AIR-CONDITIONING ~ PRESSURE CONTROL AND MONITORING ~ MODIFY THE  
ELECTRONIC BOXES OF THE OUTFLOW VALVE

MODIFICATION No. : 25224K4338

ATA SYSTEM : 21

This page transmits Revision No. 01 of Service Bulletin No.  
A320-21-1103.

ADDITIONAL WORK

No more work is necessary to do this revision.

REASON

This Revision is issued to update the effectivity.

CHANGES

SERVICE BULLETIN

EFFECTIVITY

Effectivity updated.

FILING INSTRUCTIONS

Replace the complete Service Bulletin.

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

HISTORY OF PREVIOUS REVISIONS

No previous Revisions

REVISION SEQUENCES

ORIGINAL : Dec 8/95

REVISION No. : 01 - Sep 26/96

## SERVICE BULLETIN SUMMARY

AIRBUS INDUSTRIE  
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31707 BLAGNAC CEDEX FRANCE  
Tel: (33) 61933333  
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This summary is for information only  
and is not approved for modification of the aircraft

**TITLE : AIR-CONDITIONING - PRESSURE CONTROL AND MONITORING - MODIFY THE  
ELECTRONIC BOXES OF THE OUTFLOW VALVE**

**MODIFICATION No. : 25224K4338**

**ATA SYSTEM : 21**

### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Some operators have reported Outflow Valve (OFV) failures which have resulted in rapid cabin depressurisation due to the incorrect operation of the OFV and the subsequent in-flight turn back or diversion. Investigations have shown that the Electronic Box is subject to intermittent grounding faults and it is necessary to incorporate two wire bridges on the electronic circuit board of the Electronic Box.

This Service Bulletin is issued to inform the customers about a Nord-Micro Vendor Service Bulletin No 16639-21-002 and 15703-21-007 which detail the modification of the Electronic Box.

The embodiment of this modification improves the reliability of the OFV and avoids uncommanded cabin depressurization.

### EFFECTIVITY

This Service Bulletin is applicable to these customer(s) :  
AAA, ACA, ADR, AEF, AFR, AIB, ALK, AMC, ANA, AUA, AZA, BAW, BV,  
CDN, CSC, CYP, DLH, FHA, GFA, HP, IAC, IBE, ITF, KAC, MON, MSR,  
MXA, NWA, OYC, RJA, SAA, SHK, SWR, TAI, TAR, UAL, XF, XP, XR, XW,  
XZ.

### SERVICE BULLETIN(S) TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

### REFERENCES/REPERCUSSIONS

TFU : 21. 31. 51. 013

OEB : None

AOT : None

SIL : None  
 LIFE LIMIT : None  
 LINE MAINTENANCE AFFECTED : No  
 OTHER : None

#### NATURE OF THE WORK

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

#### COMPLIANCE

Recommended

#### MANPOWER

The subsequent manhours are applicable for Get Access and Close Up only. For the modification and test manhours refer to NORD-MICRO Service Bulletin 16639-21-002 and 15703-21-007.

TOTAL MANHOURS	3.25
ELAPSED TIME (HOURS)	3.25

#### MATERIAL INFORMATION

##### AIRCRAFT DATA

None

##### EQUIPMENT DATA

Designation : Electronic Box

Supplier : NORD-MICRO

Service Bulletin No. : 16639-21-002 and 15703-21-007

Old Part Number : REFER TO NORD-MICRO Service Bulletins  
 16639-21-002 and 15703-21-007.

# **A319/A320/A321**

## SERVICE BULLETIN

### SUMMARY

New Part Number : REFER TO NORD-MICRO Service Bulletins  
16639-21-002 and 15703-21-007.

Interchangeability code : 2 (Refer to ATA 200 Chapter 1A-2)

Mixability : Not applicable

### APPENDICES

None

AIRBUS INDUSTRIE  
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TITLE : AIR-CONDITIONING - PRESSURE CONTROL AND MONITORING - MODIFY THE  
ELECTRONIC BOXES OF THE OUTFLOW VALVE

MODIFICATION No. : 25224K4338

ATA SYSTEM : 21

### 1. PLANNING INFORMATION

#### A. EFFECTIVITY

(1) Aircraft models : 320-111, 320-200, 320-211, 320-212, 320-214,  
320-231, 320-232, 321-111, 321-112, 321-131

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. 211103 NONE	Qty of Kits NONE	Config. No.
<del>AAA</del> 001-013	022,023,024,025,026,027, 029,030,140,142,157,229, 547			
<del>ACA</del> 201-234	059,068,073,084,122,126, 127,141,149,150,154,159, 183,233,242,248,253,254, 255,265,277,290,310,311, 324,330,333,341,342,350, 359,378,384,426			
<del>ADR</del> 001-003	043,113,114			
<del>AEF</del> 051	565			
<del>AFR</del> 001,002	005,007			
<del>004-008</del>	014,019,020,021,002			
<del>031-048</del>	061,062,063,100,101,102, 128,129,133,186,187,188, 226,227,228,285,286,287			
<del>106,107</del>	131,132			
<del>AIB</del> 001	258			
<del>401,402</del>	376,386			
<del>ALK</del> 001,002	374,406			
<del>AMC</del> 001,002	112,293			

# **A319/A320/A321**

## **SERVICE BULLETIN**

Customer and Fleet No.	MSN	Kit No. 211103 NONE	Qty of Kits NONE	Config. No.
<del>ANA</del> 001-022	138,139,148,151,167,170, 196,212,219,245,300,328, 365,383,413,482,501,507, 531,534,549,554			
<del>AUA</del> 476,477	552,570			
<del>AZA</del> 001-011	477,488,494,495,434,524, 526,532,515,516,513			
<del>BAW</del> 001-010	006,008,011,017,018,039, 042,103,109,120			
<del>BV</del> 051,052	185,191			
<del>CDN</del> 401-405	174,175,210,231,232			
<del>407-411</del>	283,284,302,305,309			
<del>415,416</del>	403,404			
<del>CSC</del> 051	540			
<del>053</del>	556			
<del>CYP</del> 001-008	028,035,037,038,180,256, 295,316			
<del>DLH</del> 001-010	069,070,071,072,078,083, 086,093,094,104			
<del>012-034</del>	110,111,116,117,135,137, 147,161,162,172,200,201, 202,209,216,217,218,267, 268,269,346,382,401			
<del>181-114</del>	458,468,473,474,484,493, 412,502,505,518,560,563, 564,567			
<del>FHA</del> 001,002	332,369			
<del>101,102</del>	538,555			
<del>GFA</del> 801-814	313,325,345,375,419,421, 438,445,459,466,481,497, 536,537			
<del>HP</del> 620-622	052,053,054			
<del>624-629</del>	055,064,065,066,067,076			
<del>631-637</del>	077,081,082,091,092,098, 099			
<del>IAC</del> 001-012	045,046,047,048,049,050, 051,056,057,058,074,075			
<del>014-031</del>	080,089,090,095,096,097, 396,398,416,423,431,432, 451,469,486,490,492,499			

# **A319/A320/A321**

## SERVICE BULLETIN

Customer and Fleet No.	MSN	Kit No. 211103 NONE	Qty of Kits NONE	Config. No.
<del>IBE</del> 001-022	134,136,143,146,158,173, 176,177,199,207,223,224, 240,241,246,264,266,274, 303,312,323,356			
<del>ITF</del> 001-003	010,012,013			
<del>005-018</del>	016,033,036,044,004,003, 108,115,130,155,156,184, 214,239			
<del>020-027</del>	278,337,352,236,237,377, 491,525			
<del>101-105</del>	498,509,521,529,544			
<del>201,202</del>	144,145			
<del>301,302</del>	204,211			
<del>401-403</del>	215,244,270			
KAC 001-003	181,182,195			
MON 001,002	379,389			
<del>MSR</del> 001-007	165,166,178,194,198,351, 366			
<del>MXA</del> 001-010	252,259,260,261,275,276, 296,320,321,353			
<del>012,016</del>	368,433			
<del>NWA</del> 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			
<del>OYC</del> 001-006	163,164,168,169,179,193			
<del>RJA</del> 001-003	087,088,569			
<del>BAA</del> 001-007	243,249,250,251,334,335, 440			
SHK 001-003	322,326,344			
SWR 226-232	533,545,548,553,559,562, 566			
<del>276-281</del>	517,519,520,522,535,541			
TAI 001,002	558,561			
051-054	448,453,460,461			
TAR 001-008	119,124,205,370,390,402, 123,511			

# **A319/A320/A321**

## **SERVICE BULLETIN**

Customer and  
Fleet No.

MSN

Kit No.  
211103  
NONE

Qty  
of Kits  
NONE

Config.  
No.

~~UAL~~ 401-431

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

~~XF~~ 001-009

393,394,414,430,443,447,  
415,405,361

~~053-056~~

428,496,527,530

~~101~~

425

~~105,106~~

542,543

~~201,202~~

550,557

~~501,502~~

446,422

~~504-508~~

371,397,409,427,528

~~551~~

279

~~XP~~ 001

085

~~051-059~~

203,220,221,222,294,299,  
301,348,349

~~062,063~~

391,392

~~502,503~~

362,363

~~504,505~~

455,471

~~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

~~XW~~ 501-506

347,354,357,373,411,424

~~509~~

441

~~XZ~~ 003,004

189,190

~~101-110~~

234,235,288,289,331,343,  
395,407,420,436

UNASSIGNED A/C

~~364~~

This modification is embodied before delivery on aircraft MSN 385,  
514, 551, 573 and subsequent.

(3) Spares

None



**B. REASON****(1) History**

Some operators have reported Outflow Valve (OFV) failures which have resulted in rapid cabin depressurisation due to the incorrect operation of the OFV and the subsequent in-flight turn back or diversion. Investigations have shown that the Electronic Box is subject to intermittent grounding faults and it is necessary to incorporate two wire bridges on the electronic circuit board of the Electronic Box.

**(2) Objective/Action**

This Service Bulletin is issued to inform the customers about the Nord-Micro Vendor Service Bulletins No 16639-21-002 and 15703-21-007 which detail the modification of the Electronic Box.

**(3) Advantages**

The embodiment of this modification improves the reliability of the OFV and avoids uncommanded cabin depressurization.

**(4) Operational/Maintenance Consequences**

None

**(5) Accomplishment Timescale**

It is recommended to accomplish this Service Bulletin at the earliest opportunity when manpower and facilities are available.

**C. DESCRIPTION**

To accomplish this Service Bulletin it is necessary to :

- (1) Remove the electronic boxes 10HL-1 and 10HL-2.
- (2) Modify the electronic boxes 10HL-1 and 10HL-2.
- (3) Install the electronic boxes 10HL-1 and 10HL-2.

**D. APPROVAL**

The design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No C 01. The changes specified in this Service Bulletin have been approved by the DGAC when they are major, or under the authority of DGAC Design Organisation Approval No. C01, when they are minor.

**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.

Get access	1.00
Removal/Installation	0.50
Modification and Test	Refer to NORD-MICRO Service Bulletins 16639-21-002 and 15703-21-007.
Test	0.75
Close-Up	1.00
TOTAL MANHOURS	3.25
ELAPSED TIME (HOURS)	3.25

**F. MATERIAL - COST AND AVAILABILITY**

**(1) Material**

Refer to the NORD-MICRO Vendor Service Bulletins 15703-21-007 and 16639-21-002 for the equipment modification sales terms.

**(2) Cost and Availability**

This Service Bulletin is the subject of a NORD-MICRO retrofit campaign.

For the organisation of this retrofit, operators are kindly requested to contact, before Dec 31, 1996 :

NORD-MICRO  
Electronic Feinmechanik AG  
Victor Slotosch Strasse 20  
60388 Frankfurt  
Germany

**G. TOOLING - PRICE AND AVAILABILITY**

None

**H. WEIGHT AND BALANCE**

Not affected

**I. REFERENCES**

Aircraft Maintenance Manual (AMM) : 06-41-53, 12-34-24, 21-31-00,  
21-31-51, 52-30-00

NORD-MICRO Vendor Service Bulletins (SB):16639-21-002, 15703-21-007

**J. PUBLICATIONS AFFECTED**

Illustrated Parts Catalog (IPC) : 21-31-04, 21-31-51

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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.

**WARNING** : MAKE SURE THAT AIR IS NOT SUPPLIED TO THE AIR CONDITIONING SYSTEM FROM THE MAIN ENGINE, THE APU OR A GROUND SOURCE. HOT COMPRESSED AIR CAN CAUSE INJURY TO PERSONNEL.

#### (1) Preparation

- (a) Electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).
- (b) Open, safety and tag these circuit breakers :

PANEL	SERVICE	IDENT.	LOCATION
49VU	AIR COND/CAB/PRESS/CTL1	1HL	D09
122VU	AFT CARGO VENT AND HTG/FAN	30HN	S22
122VU	AIR COND/LAV/GALLEY VENT CTL/EXTRACT FAN/SPLY	6HU	U19
122VU	AIR COND/CAB/PRESS/CTL/MAN	3HL	Y23
122VU	AIR COND/CAB/PRESS/CTL2	2HL	Y22

- (c) Put an access platform in position at the AFT cargo compartment door.
- (d) Open the AFT cargo compartment door (Refer to AMM 52-30-00, P. Block 201).
- (e) Remove and retain the access panels 162DW and 162CW (Refer to AMM 06-41-53, P. Block 001).

#### (2) Standard Practices

- (a) Put blanking caps on the disconnected electrical connectors.

### B. MODIFICATION

- (1) Remove the electronic boxes 10HL-1 and 10HL-2.
  - (a) Remove the electronic boxes 10HL-1 and 10HL-2 in accordance with AMM 21-31-51, P. Block 401.
- (2) Modify the electronic boxes 10HL-1 and 10HL-2.
  - (a) Modify and test the electronic boxes 10HL-1 and 10HL-2 in accordance with the NORD-MICRO Vendor Service Bulletins 15703-21-007 and 16639-21-002.
- (3) Install the electronic boxes 10HL-1 and 10HL-2.
  - (a) Install the electronic boxes 10HL-1 and 10HL-2 in accordance with AMM 21-31-51, P. Block 401.

### C. TESTS

- (1) Reason for the job
  - (a) Check the pressure control and monitoring system for correct operation.
- (2) Job set-up information
  - (a) Fixtures, tools, test and support equipment.  
None
  - (b) Referenced information

REFERENCE	DESIGNATION
AMM 21-31-00, P. Block 501	Operational Test of the Pressure Control and Monitoring System

- (3) Job set-up
  - (a) Remove the safety tags and close these circuit breakers :

PANEL	SERVICE	IDENT.	LOCATION
49VU	AIR COND/CAB/PRESS/CTL1	1HL	D09
122VU	AFT CARGO VENT AND HTG/FAN	30HN	S22
122VU	AIR COND/LAV/GALLEY VENT CTL/EXTRACT FAN/SPLY	6HU	U19
122VU	AIR COND/CAB/PRESS/CTL/MAN	3HL	Y23
122VU	AIR COND/CAB/PRESS/CTL2	2HL	Y22

# A319/A320/A321

## SERVICE BULLETIN

### (4) Procedure

- (a) Do the operational test of the Pressure Control and Monitoring System (Refer to AMM 21-31-00, P. Block 501)

### (5) Close-up

- (a) Make sure that the work area is clean and clear of tools and other items.

### D. CLOSE-UP

- (1) Install the access panels 162DW and 162CW.
- (2) Close the AFT cargo compartment door (Refer to AMM 52-30-00, P. Block 201).
- (3) Remove the access platform from the AFT cargo compartment door.

### 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**

Refer to the NORD-MICRO Vendor Service Bulletins 15703-21-007 and 16639-21-002.

**B. SPECIAL TOOLS**

None

**C. LIST OF MATERIAL - OPERATOR SUPPLIED**

None

**D. PARTS TO BE RE-IDENTIFIED BY OPERATOR**

**NOTE :** Refer to the NORD-MICRO Vendor Service Bulletins 15703-21-007 and 16639-21-002.