## **@A320/A321**

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

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

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

TITLE: AIR CONDITIONING - PRESSURIZATION CONTROL AND MONITORING - INTRODUCE

OUTFLOW VALVE -8

MODIFICATION No.: 24157K3612

ATA SYSTEM: 21

#### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

If the auto-motor of one of the two cabin pressurization AUTO systems has a defective brake, control of the pressurization through the second AUTO system and manual control may become impossible, with the outflow valve forced to the fully closed position.

This Service Bulletin is published to advise the affected operators of the issue of NORD MICRO Service Bulletin Nos. 15703-21-005 and 16917-21-001. This publication deals with replacing of the outflow valve PN 9023-15703-4 or PN 9023-15703-6 or PN 9023-15703-7 with possible defective automotor brakes.

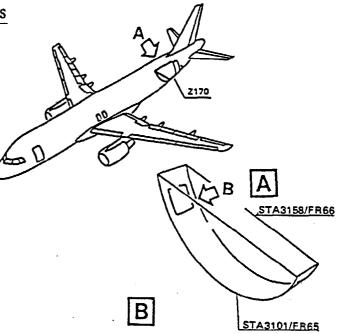
#### **EFFECTIVITY**

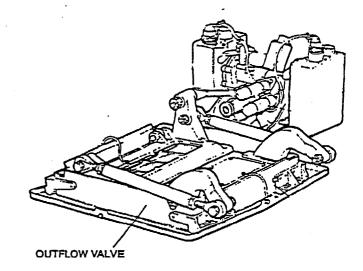
This Service Bulletin is applicable to the following operators: AAA, ACA, ADR, AFR, AIB, ALK, AMC, ANA, BAW, BV, CDN, CYP, DLH, FHA, GFA, HP, IAC, IBE, ITF, KAC, MSR, MXA, NWA, OYC, RJA, SAA, SHK, TAR, UAL, XF, XP, XR, XW and XZ.

This modification is embodied prior to delivery on A320 aircraft MSN 368, 376, 379, 389, 390, 402, 415, 422, 427, 428, 433, 448, 453, 456, 457, 460, 461, 462, 463, 464, 469, 475 and subsequent.

SERVICE BULLETIN(S) TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None





6 DATE : NOV 15/94

SERVICE BULLETIN No.: A320-21-1083

REVISION No. :

PAGE: 1 of 3



#### REFERENCES/REPERCUSSIONS

TFU 21.31.51.007

21.31.51.009

LIFE LIMIT

None

OEB None

LINE MAINTENANCE AFFECTED

NO

AOT None

SIL None

OTHERS None

NATURE OF THE MODIFICATION

**AIRCRAFT** 

No

**EQUIPMENT** 

Yes

**HARD** 

Yes

SOFT

NO

OBRM

NO

COMPLIANCE

Recommended

MANPOWER

Manhours

7.00

Elapsed Time (hours)

5.00

MATERIAL INFORMATION

AIRCRAFT DATA

None

SERVICE BULLETIN No.: A320-21-1083

REVISION No. :

**DATE:** NOV 15/94

Printed in France

PAGE: 2 of 3



EQUIPMENT DATA

Designation

Outflow valve

Supplier

NORD MICRO

Service Bulletin No.

15703-21-005 and 16917-21-001

Outflow valve

Part Number Before Part Number After

9023-15703-4 9023-15703-4B 9023-15703-7 9023-15703-7B

9023-15703-4-c 9023-15703-4-BC 9023-15703-7-c 9023-15703-7-BC

9023-15703-6

9023-15703-8

Interchangeability Code 02

Intermixability:

Not applicable

**APPENDICES** 

None

DATE : NOV 15/94 SERVICE BULLETIN No. : A320-21-1083

REVISION No.: Printed in France PAGE: 3 of 3

### **© A320/A321**

#### SERVICE BULLETIN

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

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

T I T L E : AIR CONDITIONING - PRESSURIZATION CONTROL AND MONITORING - INTRODUCE

OUTFLOW VALVE -8

MODIFICATION No.: 24157K3612 ATA SYSTEM: 21

#### 1. PLANNING INFORMATION

#### A. EFFECTIVITY

(1) Aircraft Models: A320-111, -211, -212, -231, -232

#### (2) Aircraft

| Customer and Fleet No.              | MSN  | Kit No.<br>None | Qty of<br>Kits |
|-------------------------------------|--|-----------------|----------------|
| AAA 001-012                         | 022, 023, 024, 025, 026, 027, 029,<br>030, 140, 142, 157, 229  |                 |                |
| ACA 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 |                 |                |
| ADR 001-003                         | 043, 113, 114  |                 |                |
| AFR 001-002,<br>004-008             | 005, 007, 014, 019, 020, 021, 002  |                 |                |
| 031-048                             | 061, 062, 063, 100, 101, 102, 128, 129, 133, 186, 187, 188, 226, 227, 228, 285, 286, 287   |                 |                |
| AIB 001                             | 258  |                 |                |
| ALK 001-002                         | 374, 406   |                 |                |
| AMC 001-002                         | 112, 293   |                 |                |
| ANA 001-015                         | 138, 139, 148, 151, 167, 170, 196,<br>212, 219, 245, 300, 328, 365, 383,<br>413  |                 |                |
| BAW 001-010                         | 006, 008, 011, 017, 018, 039, 042, 103, 109, 120   |                 |                |
| BV 051-052                          | 185, 191   |                 |                |
| CDN 401-405,<br>407-411,<br>415-416 | 174, 175, 210, 231, 232, 283, 284, 302, 305, 309, 403, 404   |                 |                |

6 DATE: NOV 15/94

SERVICE BULLETIN No.: A320-21-1083

REVISION No. :

## **© A320/A321**

### SERVICE BULLETIN

| Customer and Fleet No.              | MSN   | Kit No. Qty of<br>None Kits |
|-------------------------------------|---|-----------------------------|
| CYP 001-008                         | 028, 035, 037, 038, 180, 256, 295,<br>316   |                             |
| DLH 001-010,<br>012-034             | 069, 070, 071, 072, 078, 083, 086, 093, 094, 104, 110, 111, 116, 117, 135, 137, 147, 161, 162, 172, 200, 201, 202, 209, 216, 217, 218, 267, 268, 269, 346, 382, 401 | • <u>F</u>                  |
| FHA 001-002                         | 332, 369  |                             |
| GFA 801-810                         | 313, 325, 345, 375, 419, 421, 438,<br>445, 459, 466   | <b>*</b>                    |
| HP 620-622,<br>624-629,<br>631-637  | 052, 053, 054, 055, 064, 065, 066, 067, 076, 077, 081, 082, 091, 092, 098, 099  |                             |
| IAC 001-012,<br>014-026             | 045, 046, 047, 048, 049, 050, 051, 056, 057, 058, 074, 075, 080, 089, 090, 095, 096, 097, 396, 398, 416, 423, 431, 432, 451   |                             |
| 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,<br>005-018,<br>020-025 | 010, 012, 013, 016, 033, 036, 044, 004, 003, 108, 115, 130, 155, 156, 184, 214, 239, 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   |                             |
| MXA 001-011,<br>014-015             | 252, 259, 260, 261, 275, 276, 296, 320, 321, 353, 361, 386, 405, 455  |                             |

DATE: NOV 15/94 SERVICE BULLETIN No.: A320-21-1083

REVISION No.:

Printed in France

PAGE: 2

| Customer and Fleet No.  | MSN  | Kit No. Qty of<br>None Kits |
|-------------------------|--|-----------------------------|
| 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 | · 5>                        |
| OYC 001-006             | 163, 164, 168, 169, 179, 193   |                             |
| RJA 001-002             | 087, 088   | •                           |
| SAA 001-007             | 243, 249, 250, 251, 334, 335, 440  |                             |
| SHK 001-003             | 322, 326, 344  |                             |
| TAR 001-004,<br>007     | 119, 124, 205, 370, 123  |                             |
| UAL 401-406,<br>412-414 | 435, 439, 442, 450, 452, 454, 465,<br>470, 472   |                             |
| XF 001-007              | 393, 394, 414, 430, 443, 447   |                             |
| 101                     | 425  |                             |
| 501,<br>504-506         | 446, 371, 397, 409   |                             |
| <b>551</b>              | 279  |                             |
| XP 001                  | 085  |                             |
| 051-059,<br>062-063     | 203, 220, 221, 222, 294, 299, 301,<br>348, 349, 391, 392   |                             |
| 502-505                 | 362, 363, 455, 471   |                             |
| XR 501-521              | 225, 230, 238, 247, 257, 271, 280, 291, 292, 304, 308, 314, 315, 317, 327, 336, 338, 429, 444, 449, 467  |                             |
| XW 501-506,<br>508-509  | 347, 354, 357, 373, 411, 424, 437,<br>441  |                             |

DATE: NOV 15/94 SERVICE BULLETIN No.: A320-21-1083

REVISION No. : PAGE : 3 Printed in France

Customer and Fleet No.

MSN

Kit No. Qty of None Kits

XZ 001-004

131, 132, 189, 190

XZ 101-110

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

407, 420, 436

This modification is embodied prior to delivery on A320 aircraft MSN 368, 376, 379, 389, 390, 402, 415, 422, 427, 428, 433, 448, 453, 456, 457, 460, 461, 462, 463, 464, 469, 475 and subsequent.

(3) Spares

None

#### **B. REASON**

(1) History

If the auto-motor of one of the two cabin pressurization AUTO systems has a defective brake, control of the pressurization through the second AUTO system and manual control may become impossible, with the outflow valve forced to the fully closed position.

(2) Objective/Action

This Service Bulletin is published to advise the affected operators of the issue of NORD MICRO Service Bulletin Nos. 15703-21-005 and 16917-21-001. This publication deals with replacing of the outflow valve PN 9023-15703-4 or PN 9023-15703-6 or PN 9023-15703-7 with possible defective automotor brakes.

(3) Advantages

The accomplishment of this Service Bulletin ensures the proper function of the outflow valve.

(4) Accomplishment Timescale

This recommended Service Bulletin should be accomplished at the earliest convenience of the operator.

DATE: NOV 15/94

SERVICE BULLETIN No.: A320-21-1083

REVISION No. :

PAGE: 4

#### C. DESCRIPTION

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

#### **AIRCRAFT**

- (1) Gain access.
- (2) Replace the outflow valve in accordance with the NORD MICRO Service Bulletin No. 15703-21-005.
- (3) Close-up.

#### D. APPROVAL

The design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No CO1. 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 CO1, when they are minor.

#### E. MANPOWER

|                      | Manhours |
|----------------------|----------|
| Gain access          | 1.50     |
| Replacing            | 3.50     |
| Close-up             | 1.00     |
| Test                 | 1.00     |
| TOTAL MANHOURS       | 7.00     |
| ELAPSED TIME (HOURS) | 5 -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 NORD MICRO Service Bulletin Nos. 15703-21-005 and 16917-21-001.

#### G. TOOLING - PRICE AND AVAILABILITY

None

#### H. WEIGHT AND BALANCE

None

DATE: NOV 15/94 SERVICE BULLETIN No.: A320-21-1083

REVISION No.: Printed in France PAGE: 5

#### I. REFERENCES

Aircraft Maintenance Manual (AMM): 06-41-53, 21-31-00, 21-31-51, 52-30-00 NORD MICRO Service Bulletin Nos. 15703-21-005 and 16917-21-001

### J. PUBLICATIONS AFFECTED

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

**DATE:** NOV 15/94

SERVICE BULLETIN No.: A320-21-1083

REVISION No. :

Printed in France PAGE: 6

#### 2. ACCOMPLISHMENT INSTRUCTIONS

#### A. GENERAL

#### (1) Preparation

Accomplishment of this Service Bulletin includes these operations:

- (a) Put the access platform at the AFT cargo door 826 in position.
- (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   | <b>S22</b> |
| 122VU | AIR COND/LAV/GALLEY VENT CTL/EXTRACT FAN/SPLY | бни    | U19        |
| 122VU | AIR COND/CAB/PRESS/CTL/MAN                    | 3HL    | Y23        |
| 122VU | AIR COND/CAB/PRESS/CTL2                       | 2HL    | Y22        |

- (c) Open the AFT cargo door (Ref. AMM 52-30-00 P. Block 201).
- (d) Attach warning placard to the AFT cargo door to tell persons not to close the door. This prevents accidental pressurization of the aircraft when all cabin openings are closed.
- (e) Remove access panels 162DW and 162CW (Ref. AMM 06-41-53, P. Block 1).

#### (2) Standard Practices

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

#### B. MODIFICATION

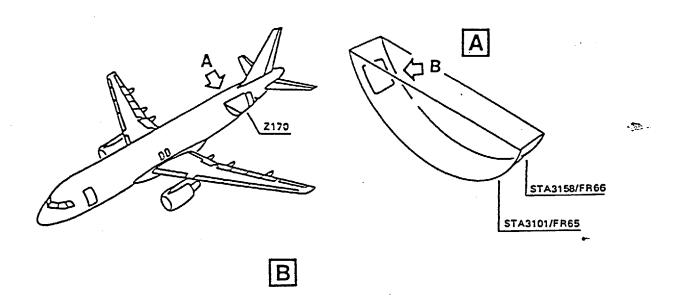
(1) Removal and installation of the outflow valve 10HL

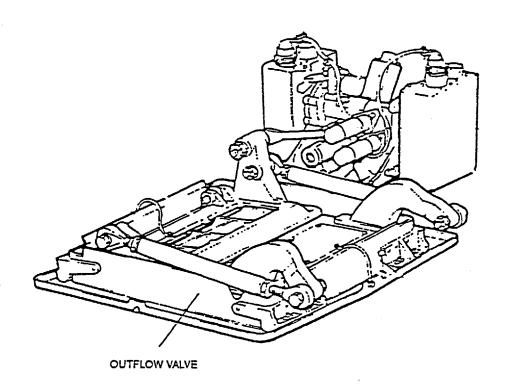
Refer to Figure 1

(a) Replace the outflow valve in accordance with the AMM 21-31-51, P. Block 401 and NORD MICRO Service Bulletin Nos. 15703-21-005 and 16917-21-001.

SERVICE BULLETIN No.: A320-21-1083 **DATE:** NOV 15/94

REVISION No. : PAGE: 7 Printed in France





Location of the Outflow Valve 10HL Figure 1

**DATE:** NOV 15/94

SERVICE BULLETIN No. : A320-21-1083

REVISION No. :

PAGE: 8

#### C. TESTS

- (1) Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.
- (2) Remove the safety clips and the tags and close these circuit breakers: 1HL, 2HL, 3HL, 6HU and 30HN.

•

(3) Do the operational test of the pressure control and monitoring system in accordance with the AMM 21-31-00, P. Block 501.

#### D. CLOSE-UP

- (1) Install the access panels 162DW and 162CW (Ref. AMM 06-41-53, ← P. Block 1).
- (2) Remove the warning placard and the access platform.
- (3) Close the AFT cargo compartment door 826 (Ref. AMM 52-30-00, P. Block 201).

#### E. DOCUMENTATION

DATE: NOV 15/94

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

SERVICE BULLETIN No.: A320-21-1083

REVISION No.: Printed in France PAGE: 9/10



### 3. MATERIAL INFORMATION

Refer to NORD MICRO Service Bulletin No. 15703-21-005 and 16917-21-001.

**DATE:** NOV 15/94

REVISION No. :

SERVICE BULLETIN No.: A320-21-1083

Printed in France PAGE : 11



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

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

T I T L E : AIR CONDITIONING - PRESSURIZATION CONTROL AND MONITORING - INTRODUCE

OUTFLOW VALVE -8

MODIFICATION No.: 24157K3612

ATA SYSTEM : 21

- 302 -

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

DATE: NOV 15/94 SERVICE BULLETIN No.: A320-21-1083

REVISION No.: Printed in France PAGE: 1 of 1