AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
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31707 BLAGNAC CEDEX FRANCE

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This summary is for information only and is not D.G.A.C.-approved for modification of the aircraft

**OUTFLOW VALVE 10HL** 

MODIFICATION No.: 23128K2932 ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - PRESSURE CONTROL AND MONITORING - PROVIDE LIGHT-

NING PROTECTION FOR OUTFLOW VALVE

#### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

Investigations have shown that the

bonding connection of the actuating mechanism for the outlet valve of the air conditioning system may be inadequate to fulfil the lightning protection requirements. This Service Bulletin introduces two additional bonding connections between the actuating mechanism and the aircraft structure. The accomplishment of this Service Bulletin improves the lightning protection for the outflow valve.

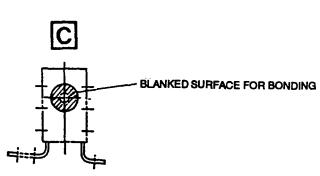
#### **EFFECTIVITY**

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

This modification is embodied prior to delivery on A/C MSN 411 and subsequent.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None



2170

STA3158/FR66

STA3101/FR65

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REFERENCES/REPERCUSSIONS

TFU LIFE LIMIT None None

0EB LINE MAINTENANCE AFFECTED None

NO

AOT None

SIL OTHERS None None

NO

NATURE OF THE MODIFICATION

AIRCRAFT YES

EQUIPMENT

HARD NO

SOFT NO

**OBRM** NO

**COMPLIANCE** 

Recommended

**MANPOWER** 

10.00 Manhours 10.00 Elapsed Time (hours)

MATERIAL INFORMATION

Aircraft Data

None

**Equipment Data** 

None

**APPENDICES** 

None

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T I T L E : AIR CONDITIONING - PRESSURE CONTROL AND MONITORING - PROVIDE LIGHT-

NING PROTECTION FOR OUTFLOW VALVE

# 1. PLANNING INFORMATION

## A. EFFECTIVITY

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

Customer and Fleet No.	MSN	Kit No. (No Kit required)
AAA 001-012	022, 023, 024, 025, 026, 027, 029, 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	
ADR 001-003	043, 113, 114	
AFR 001-002, 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	
ALK 001-002	374, 406	
AMC 001-002	112, 293	
ANA 001-014	138, 139, 148, 151, 167, 170, 196, 212, 219, 245, 300, 328, 365, 383	
AWE 620-622, 624-629, 631-641	052, 053, 054, 055, 064, 065, 066, 067, 076, 077, 081, 082, 091, 092, 098, 099, 347, 354, 357, 373	
BAW 001-010	006, 008, 011, 017, 018, 039, 042, 103, 109, 120	
BV 051-052	185, 191	
CDN 401-412, 414-416	174, 175, 210, 231, 232, 279, 283, 284, 302, 305, 309, 371, 397, 403, 404	

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Customer and Fleet No.	MSN	Kit No. (No Kit required)
CYP 001-008	028, 035, 037, 038, 180, 256, 295, 316	
DLH 001-034	069, 070, 071, 072, 078, 083, 086, 093, 094, 104, 105, 110, 111, 116, 117, 135, 137, 147, 161, 162, 172, 200, 201, 202, 209, 216, 217, 218, 267, 268, 269, 346, 382, 401	
FHA 001-002	332, 369	
GFA 801-804	313, 325, 345, 375	
IAC 001-012, 014-021	045, 046, 047, 048, 049, 050, 051, 056, 057, 058, 074, 075, 080, 089, 090, 095, 096, 097, 396, 398	
IBE <b>001-</b> 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	
LUR 001-002	322, 326	
MSR 001-007	165, 166, 178, 194, 198, 351, 366	
MXA 001-015	252, 259, 260, 261, 275, 276, 296, 320, 321, 353, 361, 368, 376, 386, 405	
NWA 301-348	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,	

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Customer and Fleet No.	MSN	Kit No. (No Kit required)
OYC 001-006	163, 164, 168, 169, 179, 193	
RJA 001-003	087, 088, 123	
SAA 001-006	243, 249, 250, 251, 334, 335	
TAR 001-004	119, 124, 205, 370	
XF 001-002	393, 394	
XP 001	085	
051-069	203, 220, 221, 222, 294, 299, 301, 302, 305, 348, 349, 379, 389, 390, 391, 392, 402, 403, 404	
501-505	344, 362, 363, 409, 411	
XR 501-517	225, 230, 238, 247, 257, 271, 280, 291, 292, 304, 308, 314, 315, 317, 327, 336, 338,	
XZ 001-004	131, 132, 189, 190	
101-108	234, 235, 288, 289, 331, 343, 395, 407	

This modification is embodied prior to delivery on A/C MSN 413 and subsequent

# (2) Spares

None

#### B. REASON

# (1) History

Investigations have shown that the bonding connection of the actuating mechanism for the outlet valve of the airconditioning system may be inadequate to fulfil the lightning protection requirements.

# (2) Objective/Action

This Service Bulletin introduces two additional bonding connections between the actuating mechanism and the aircraft structure.

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## (3) Advantages

The accomplishment of this Service Bulletin improves the lightning protection for the outflow valve.

(4) Accomplishment Timescale

This recommended 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:

#### **AIRCRAFT**

- (1) Gaining access to zone 172.
- (2) Removing the outflow valve 10HL.
- (3) Blanking the surface for bonding connection.
- (4) Installing the outflow valve 10HL.
- (5) Testing and close-up.

## D. APPROVAL

This Service Bulletin is approved by Direction Générale de l'Aviation Civile - FRANCE (D.G.A.C).

## E. MANPOWER

	Manhours
Gain access	1.50
Modification	5.00
Close-up	2.00
Test	1.50
TOTAL MANHOURS	10.00
ELAPSED TIME (HOURS)	10.00

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.

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F. MATERIAL - COST AND AVAILABILITY

None

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual : 06-41-53, 20-28-00, 21-31-00, 21-31-51,

52-30-00

J. PUBLICATIONS AFFECTED

None

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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 these circuit breakers:

PANEL SERVICE		IDENT.	LOCATION
49VU	AIR COND/CAB/PRESS/CTL1	1HL	D09
122VU	AFT CARGO VENT AND HTG/FAN	30HN	<b>\$22</b>
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/CTL/2	2HL	Y22

- (b) Put access platforms at the AFT cargo compartment door 826 and at the outflow valve zone 172.
- (c) Open the AFT cargo compartment door 826 (Ref. AMM 52-30-00, P. Block 201).
- (d) Attach a warning placard to the AFT cargo compartment door, to tell persons not to close the door. This prevents accidental pressurization of the aircraft when all the cabin openings are closed.
- (e) Remove the access panels 162DV and 162CV (Ref. AMM 06-41-53, P. Block 1).

#### (2) Standard Procedures

(a) Prepare bonding connections (Ref. AMM 20-28-00, P. Block 201).

## B. MODIFICATION

(1) Providing of lightning protection for outflow valve 10HL

Refer to Figure 1

- (a) Remove the outflow valve 10HL in accordance with the AMM 21-31-51, P. Block 401.
- (b) Blank the surface in for the bonding connection in accordance with AMM 20-28-00, P. Block 201 and to dimension as given in figure.

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(c) Install the outflow valve 10HL in accordance with the AMM 21-31-51, P. Block 401.

## C. TEST

- (1) Remove the safety clips and the tags and close these circuit breakers: 1HL, 2HL, 3HL, 6HU and 3OHN.
- (2) Do the operational test of the pressure control and monitoring system (Ref. AMM 21-31-00, P. Block 501).

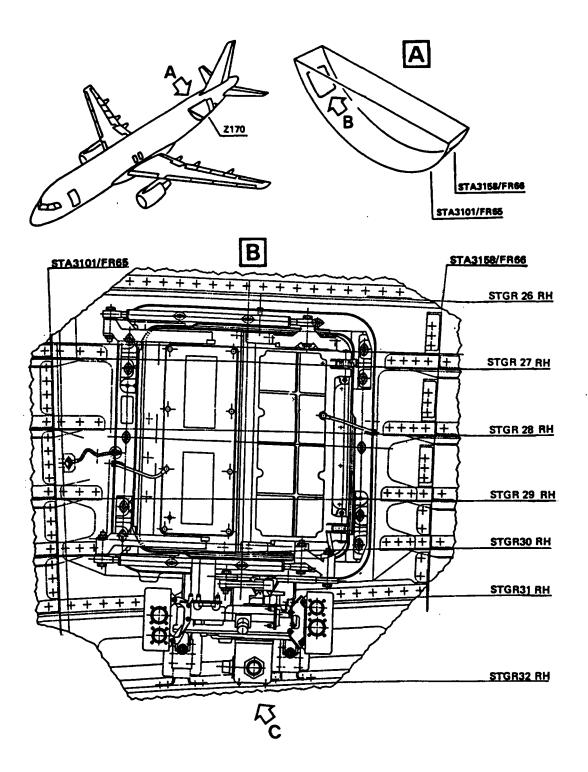
## D. CLOSE-UP

- (1) Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.
- (2) Install the access panels 162DV and 162CV (Ref. AMM 06-41-53, P. Block 1).
- (3) Remove the warning placard and the access platform.
- (4) Open the AFT cargo compartment door 826 (Ref. AMM 52-30-00, P. Block 201).

#### E. DOCUMENTATION

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

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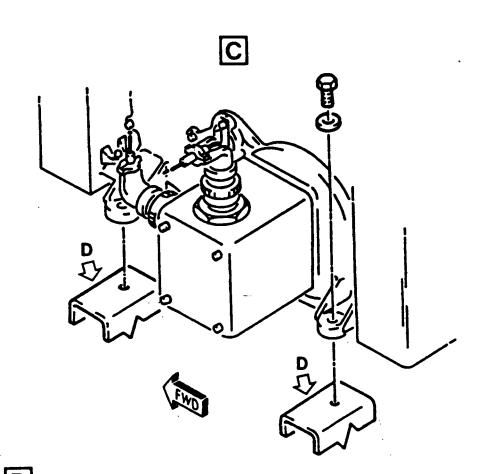


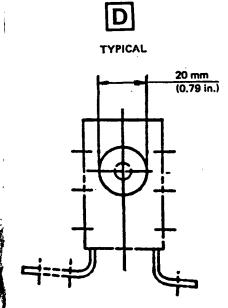
Location of Bonding Connection for Outflow Valve 10HL Figure 1

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# 3. MATERIAL INFORMATION

Basis for the following material data is per aircraft

A. LIST OF COMPONENTS

None

B. SPECIAL TOOLS

None

C. LIST OF MATERIALS - OPERATOR SUPPLIED

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

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