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

MODIFICATION No.: 23143K2664 (Partial) ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE ANTI-ICING VALVE

PN 748A0000-08

### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

The existing anti-icing valve of the conditioning pack (standard-08) does not include some technical improvements that would increase the equipment efficiency and reliability.

This Service Bulletin is published to advise the affected operators of the issue of LIEBHERR ABG SEMCA Service Bulletin No. 748A-21-02. This publication deals with replacement of the anti-icing valve.

### **EFFECTIVITY**

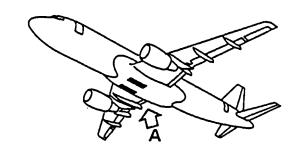
This Service Bulletin is applicable to the following operators: AAA, ACA, ADR, AFR, AMC, ANA, BAW, BV, CDN, CYP, DLH, FHA, GFA, HP, IAC, IBE, ITF, KAC, MSR, MXA, NWA, OYC, RJA, SAA, TAR, XP, XR, XS and XZ.

This Service Bulletin is linked to Service Bulletin No. A320-21-1058/Mod. No. 23143K2664.

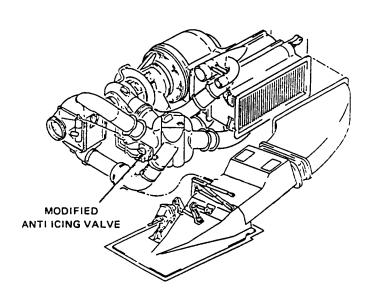
The Modification No. 23143K2664 is embodied prior to delivery on A/C MSN 353 and subsequent.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None







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REFERENCES/REPERCUSSIONS

TFU 21.61.41.01 LIFE LIMIT None

OEB None LINE MAINTENANCE AFFECTED

NO

AOT None

SIL None OTHERS None

NATURE OF THE MODIFICATION

AIRCRAFT NO

EQUIPMENT YES NOTE: A standard anti-icing valve PN748A0000-05

or -08 can be installed on an air condition

ing pack PN744A000-08.

Only an anti-icing valve PN748A0000-08

can be installed on an air conditioning pack

PN744A0000-09.

HARD YES

SOFT NO

OBRM NO

COMPLIANCE

Optional

MANPOWER

Manhours 6.00

Elapsed Time (hours) 4.00

MATERIAL INFORMATION

Aircraft Data

None

Equipment Data

Designation Anti-Icing Valve

Supplier LIEBHERR ABG SEMCA

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Service Bulletin No. 748A-21-02

Part Number Before 748A0000-05

Part Number After 748A0000-08

Interchangebility code 01

Intermixability N/A

APPENDICES

None

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MODIFICATION No.: 23143K2664 (Partial) ATA SYSTEM: 21

TITLE: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE ANTI-ICING VALVE

PN 748A0000-08

# 1. PLANNING INFORMATION

## A. EFFECTIVITY

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

# (2) Aircraft

	tomer and et No.					MSN				Qty of Kits (No kit reqiured)
AAA	001-012	-	023, 142,	-	•	026,	027,	029,	030,	
ACA	201-230	149, 253,	068, 150, 254, 330,	154, 255,	159, 265,	183, 277,	233, 290,	242,	248,	
ADR	001-003	043,	113,	114						
AFR	001-002, 004-008	005,	007,	014,	019,	020,	021,	002		
	031-048		062, 186, 287							
AMC	001-002	112,	293							
ANA	001-012	138, 219,	139, 245,			167,	170,	196,	212,	
BAW	001-010	006, 109,	008, 120	011,	017,	018,	039,	042,	103,	
BV	051-052	185,	191							
CDN	401-411	174, 302,	175, 305,		231,	232,	279,	283,	284,	
СҮР	001-008	028,	035,	037,	038,	180,	256,	295,	316	

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Customer and Fleet No.	MSN	Qty of Kits (No kit reqiured)
DLH 001-032	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,	
FHA 001	332	
GFA 801-803	313, 325, 345	
	052, 053, 054, 055, 064, 065, 066, 067, 076, 077, 081, 082, 091, 092, 098, 099, 347	
IAC 001-012, 014-019	045, 046, 047, 048, 049, 050, 051, 056, 057, 058, 074, 075, 080, 089, 090, 095, 096, 097	
IBE 001-021	134, 136, 143, 146, 158, 173, 176, 177, 199, 207, 223, 224, 240, 241, 246, 264, 266, 274, 303, 312, 323	
ITF 001-003, 005-024	010, 012, 013, 016, 033, 036, 044, 004, 003, 108, 115, 130, 155, 156, 184, 214, 239, 258, 278, 337, 352, 236, 237	
201-202	144,145	
301-302	204, 211	
401-403	215, 244, 270	
KAC 001-003	181, 182, 195	
MSR 001-006	165, 166, 178, 194, 198, 351	
MXA 001-009	252, 259, 260, 261, 275, 276, 296, 320, 321	
NWA 301-335	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	
OYC 001-006	163, 164, 168, 169, 179, 193	
RJA 001-002	087, 088	
SAA 001-006	243, 249, 250, 251, 334, 335	

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Customer and Fleet No.		MSN							of Kits (No kit eqiured)			
	TAR	001-003 007	119, 123	124,	205							
	ΧP	001	085									
	XP	051-062	203, 349	220,	221,	222,	294,	299,	301,	348,		
		501	344									
	XR	501-517	_	-	238, 308,	-	-	-	-			
	XS	001-002	322,	326								
	XZ	001-004	131,	132,	189,	190						
		101-106	234,	235,	288,	289,	331,	343				

This Service Bulletin is linked to Service Bulletin No. A320-21-1058/Mod. No. 23143K2664.

The Modification No. 23143K2664 is embodied prior to delivery on aircraft MSN 353 and subsequent.

### (3) Spares

Anti-icing valve PN 748A0000-05.

## **B. REASON**

#### (1) History

The existing anti-icing valve of the conditioning pack (standard-08) does not include some technical improvements that would increase the equipment efficiency and reliability.

# (2) Objective/Action

This Service Bulletin is published to advise the affected operators of the issue of LIEBHERR ABG SEMCA Service Bulletin No. 748A-21-02. This publication deals with the modification of the anti-icing valve.

### (3) Advantages

The accomplishment of this Service Bulletin increases the equipment efficiency and reliability of the anti-icing valve.

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PAGE: 3 REVISION No. : Printed in France



(4) Accomplishment Timescale

This optional 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.
- (2) Removal anti-icing valve.
- (3) Modification of anti-icing valve as per LIEBHERR ABG SEMCA Service Bulletin No. 748A-21-02.
- (4) Installation of anti-icing valve.

NOTE: A standard anti-icing valve PN748A0000-05 or -08 may be installed on a air conditioning pack PN744A0000-08.

Only an anti-icing valve PN748A0000-08 can be installed on an air conditioning pack PN744A0000-09.

(5) Test and close-up.

#### D. APPROVAL

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

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### E. MANPOWER

		mannours
	Aircraft	
Gain access	1.00	
Removal	1.00	
Modification		Ref.to LIEBHERR ABG SEMCA Service Bulletin No. 748A-21-02.
Installation	1.00	
Close-up	2.00	
Test	1.00	
TOTAL MANHOURS	6.00	
ELAPSED TIME (HOURS)	4.00	

Manhaura

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

Terms of procurement are to be negotiated directly with LIEBHERR ABG SEMCA, as per LIEBHERR ABG SEMCA Service Bulletin No. 748A-21-02.

## G. TOOLING - PRICE AND AVAILABILITY

None

# H. WEIGHT AND BALANCE

None

# I. REFERENCES

Aircraft Maintenance Manual: : 21-61-00, 21-61-41, 53-35-13

## J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog: : 21-61-03, 21-61-41

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# 2. ACCOMPLISHMENT INSTRUCTIONS

## AIRCRAFT

WARNING: MAKE SURE THAT NO AIR IS SUPPLIED TO THE AIR CONDITIONING SYSTEM FROM THE MAIN ENGINE, THE APU OR A GROUND SOURCE.

## A. GENERAL

## (1) Preparation

Accomplishment of this Service Bulletin includes these operations:

(a) Open, safety and tag these circuit breakers:

PANEL	SERVICE	IDENT.	LOCATION	
FOR	10HM			
122VU	AIR COND/PACK TEMP/CTL SYS1/1/115VAC	1HH	X22	
122VU	AIR COND/PACK TEMP/CTL SYS1/1/28VDC	3нн	X21	
122VU	AIR COND/PACK TEMP/CTL SYS2/1/28VDC	4нн	Y19	
<b>122V</b> U	AIR COND/PACK TEMP/CTL SYS2/1/115VAC	2нн	Y18	
FOR	11HM			
122VU	AIR COND/PACK TEMP/CTL SYS1/2/115VAC	21HH	W22	
122VU	AIR COND/PACK TEMP/CTL SYS1/2/28VDC	23HH	W21	
122VU	AIR COND/PACK TEMP/CTL SYS2/2/28VDC	24HH	Y21	
122VU	AIR COND/PACK TEMP/CTL SYS2/2/115VAC	22HH	Y20	

(b) Remove access panel 191KB (for 10HM), 192KB (for 11HM) (Ref. AMM 53-35-13, P. Block 401).

## (2) Standard Procedures

(a) Put blanking caps on disconnected plugs and blanking plugs on disconnected line ends.

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## B. MODIFICATION

Refer to Figure 1

- (1) Replacement of anti-icing valve.
  - (a) Remove sense lines P/N 778A2900-02, 778A2800-02, 778A2600-01 and 778A3000-02.
  - (b) Remove the anti-icing valve (Ref. AMM 21-61-41, P. Block 401) for modification as per LIEBHERR ABG SEMCA Service Bulletin No. 748A-21-02.

NOTE: For another approved configuration for an a air conditioning pack PN744A0000-08 refer to Service BulletinA320-21-1058.

- (c) Install the modified anti-icing valve P/N748A0000-08 (Ref. AMM 21-61-41, P. Block 401).
- (d) Install new sense lines P/N 778A3700-01,778A3900-02,778A4000-01 and 778A3800-01.

# C. TEST

(1) Do the test in accordance with the AMM 21-61-00, P. Block 501.

## D. CLOSE-UP

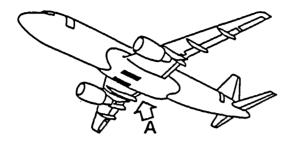
- (1) Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.
- (2) Install the access panel 191KB (for 10HM) 192KB (for 11HM) (Ref. AMM 53-35-13, P. Block 401).

## E. DOCUMENTATION

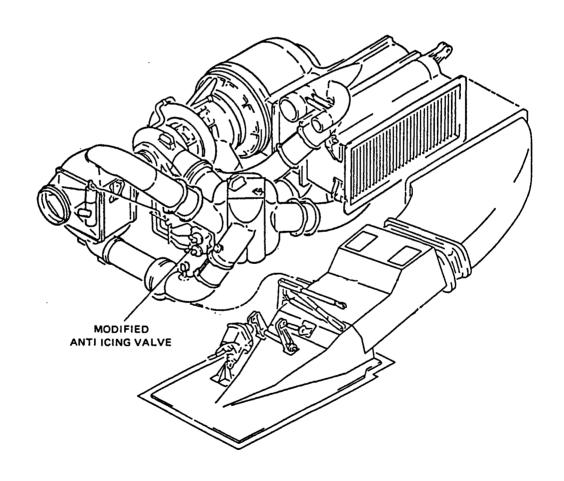
Record the accomplishment of this Service Bulletin in the relevant aircraft technical records.

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Location of Anti-Icing Valve Figure 1

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# 3. MATERIAL INFORMATION

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MODIFICATION No.: 23143K2664 ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE ANTI ICE VALVE

PN 748A0000-08

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

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