AIRBUS INDUSTRIE PRODUCT SUPPORT DIRECTORATE 1 Rond Point Maurice BELLONTE

31707 BLAGNAC CEDEX FRANCE

Tel: (33) 61-93-33-33

Telex: AIRBU 530526F REVISION TRANSMITTAL SHEET

SERVICE BULLETIN

MODIFICATION No.: 23143K2664 ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE AIR CONDITIONING

PACK PN 744A0000-09

Herewith Revision No. 1 of Service Bulletin A320-21-1058.

No additional work is required by this Service Bulletin.

REASON

This Revision is issued to include the following pages:

Service Bulletin Summary

Page 1 of 3 Para. EFFECTIVITY - Operators updated

Page 2 of 3 Text shifted

Page 3 of 3 Para. MATERIAL INFORMATION - Equipment Data added

Service Bulletin

Pages 1 of 11 Para. 1.A.(2) - Updated

thru 3

Page 4 Para. 1.C.(2)(a) thru (d) Added

- Text shifted Page 5/6

Page 8 Para. 2.B.(1)(a) and (d) - SB references added

FILING INSTRUCTIONS:

Remove Service Bulletin Summary Pages 1 of 2 and 2 of 2 and Service Bulletin Pages 1 of 11 thru 5/6 and 8.

Insert Service Bulletin Summary Pages 1 of 3 thru 3 of 3 and Service Bulletin Pages 1 of 1 thru 5/6 and 8.

Printed in France

File this Revision Transmittal Sheet in front of this Service Bulletin.

REVISION SEQUENCE

Original: Oct 26/92

Revision No.: 1- Nov 20/92

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PAGE : 1 of 1

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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 ATA SYSTEM: 21

T I T L E: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE AIR CONDITIONING

PACK PN 744A0000-09

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

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

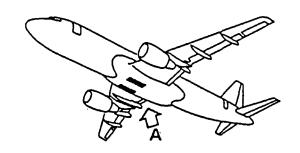
This Service Bulletin is published to advise the affected operators of the issue of LIEBHERR ABG SEMCA Service Bulletin No. 744A-21-06. This publication deals with:

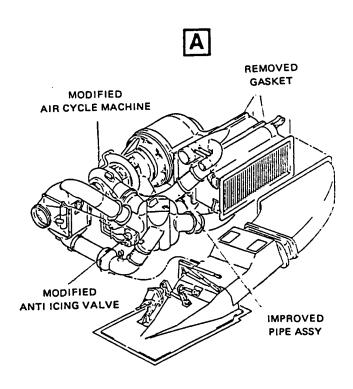
- Replacement of the air cycle machine.
- Replacement of the anti-icing valve.
- Replacement of pipe assemblies.
- Removal of two gaskets between main heat exchanger, the primary heat exchanger and the plenum.

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 modification is embodied prior to delivery on A/C MSN 353 and subsequent.





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SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

REFERENCES/REPERCUSSIONS

TFU 21.61.41.01 and 21.52.21.07 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

Optional

MANPOWER

Manhours 9.00 Elapsed Time (hours) 6.00

MATERIAL INFORMATION

Aircraft Data

None

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Equipment Data

Service Bulletin No. 744A-21-06

Part No. Before 744A0000-08

Part No. After 744A0000-09

Interchangeability Code 01

Intermixability Yes

APPENDICES

None

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MODIFICATION No.: 23143K2664 ATA SYSTEM: 21

T I T L E: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE AIR CONDITIONING

PACK PN 744A0000-09

1. PLANNING INFORMATION

A. EFFECTIVITY

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

(2) Aircraft

Customer and Fleet No.	MSN	Qty of Kits (No kit required)
AAA 001-012	022, 023, 024, 025, 026, 027, 029, 030, 140, 142, 157, 229	
ACA 201-230	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	
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	
AMC 001-002	112, 293	
ANA 001-012	138, 139, 148, 151, 167, 170, 196, 212, 219, 245, 300, 328	
BAW 001-010	006, 008, 011, 017, 018, 039, 042, 103, 109, 120	
BV 051-052	185, 191	
CDN 401-411	174, 175, 210, 231, 232, 279, 283, 284, 302, 305, 309	
CYP 001-008	028, 035, 037, 038, 180, 256, 295, 316	

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Customer and Fleet No.	MSN	Qty of Kits (No kit required)
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	
HP 620-622, 624-629, 631-638	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.			Qty of Kits (No kit required)	
TAR	001-003 007	119, 124, 2 123	205		
XP	001	085			
ХР	051-059	203, 220, 3 349	221, 222,	294, 299, 301, 34	48,
	501	344			
XR	501-517			257, 271, 280, 29 315, 317, 327, 33	
xs	001-002	322,326			
ΧZ	001-004	131, 132,	189, 190		
	101-106	234, 235,	288, 289,	331, 343	
Thi	e modifica	ion is embo	died prio	r to delivery on	A/C MCN 353 and

This modification is embodied prior to delivery on A/C MSN 353 and subsequent.

(3) Spares

Air conditioning pack PN 744A0000-08.

B. REASON

(1) History

The existing air 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. 744A-21-06. This publication deals with:

- Replacement of the air cycle machine.
- Replacement of the anti-icing valve.
- Replacement of pipe assemblies.
- Removal of two gaskets between main heat exchanger, the primary heat exchanger and the plenum.

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(3) Advantages

The accomplishment of this Service Bulletin increases the equipment efficiency and reliability of the air conditioning packs.

(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) Modification of air conditioning packs as per LIEBHERR ABG SEMCA Service Bulletin No. 744A-21-06.
 - (a) Replacement of the air cycle machine P/N 757A0000-08 by the P/N 757A0000-09 (Refer to SB 757A-21-05).
 - (b) Replacement of the anti-icing valve (AIV) P/N 748A0000-05 by the P/N 748A0000-08 and the related four pipe assemblies (sense lines) connected to AIV P/N 748A0000-05 by new pipe assemblies for the AIV P/N 748A0000-08 (Refer to SB 748A-21-02).
 - (c) Replacement of the pipe assembly P/N 778A0200-02 or 778A0200-03 or 778A4100-01 by the new pipe assembly 778A0200-03 Amdt A having an improved strength (Refer to SIL/A320/043).
 - (d) Deletion of the two gaskets located between the main heat exchanger the primary heat exchanger and the plenum.

NOTE: Any combination of above mentioned improvements may be installed.

(3) Test and close-up.

D. APPROVAL

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

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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. 744A-21-06.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual: 21-52-21, 21-52-23, 21-52-25, 21-52-26, 21-62-00, 21-61-41, 24-41-00, 53-35-13

LIEBHERR ABG SEMCA Service Bulletin No. 744A-21-06.

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog: 21-52-03, 21-52-21, 21-52-41, 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		
49VU	AIR COND/FLOW/CTL/& IND1	1HB	D07
	OR		
122VU	AIR COND/FLOW/CTL AND IND/1	1HB	V22
	ON ALL		
122VU	AIR COND/FLOW/MIXER/FLAP	ЗНВ	V23
122VU	AIR COND/FLOW/CTL AND IND/2	2HB	V21
122VU	AIR COND/PACK TEMP/CTL SYS1/1/115VAC	1нн	X22
122VU	AIR COND/PACK TEMP/CTL SYS1/1/28VDC	3нн	X21
122VU	AIR COND/PACK TEMP/CTL SYS2/1/28VDC	4HH	Y19
122VU	AIR COND/PACK TEMP/CTL SYS2/1/115VAC	2HH	Y18
122VU	AIR COND/ZONE TEMP/CTL/28VDC/SYS2	4HK	V20
122VU	AIR COND/ZONE TEMP/CTL/28VDC/SYS1	3HK	V19
122VU	AIR COND/ZONE TEMP/CTL/115VAC/SYS2	2HK	V18
122VU	AIR COND/ZONE TEMP/CTL/115VAC/SYS1	1HK	V17
FOR	11HM		
49VU	AIR COND/FLOW/CTL/& IND1	1HB	D07
	OR		
122VU	AIR COND/FLOW/CTL AND IND/1	1HB	V22
	ON ALL		
122VU	AIR COND/FLOW/MIXER/FLAP	ЗНВ	V23
122VU	AIR COND/FLOW/CTL AND IND/2	2HB	V21
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
122VU	AIR COND/ZONE TEMP/CTL/28VDC/SYS2	4HK	V20
122VU	AIR COND/ZONE TEMP/CTL/28VDC/SYS1	3HK	V19

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PANEL	SERVICE	IDENT.	LOCATION
122VU	AIR COND/ZONE TEMP/CTL/115VAC/SYS2	2HK	V18
122VU	AIR COND/ZONE TEMP/CTL/115VAC/SYS1	1HK	V17

(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.

B. MODIFICATION

Refer to Figure 1

- (1) Modification of air conditioning pack from (standard-08) to (standard-09) as per LIEBHERR ABG SEMCA Service Bulletin No. 744A-21-06.
 - (a) For the replacement of the air cycle machine refer to AMM 21-52-21, P. Block 401 and Service Bulletin A320-21-1064.
 - (b) For removal of the gaskets refer to AMM 21-52-25, P. Block 401 and AMM 21-52-26, P. Block 401.
 - (c) For the replacement of pipe assemblies refer to AMM 21-52-23, P. Block 401.
 - (d) For the replacement of anti-icing valve refer to AMM 21-61-41, P. Block 401 and Service Bulletin A320-21-1065.

C. TEST

1

- (1) Do the preparation for test in accordance with the relevant AMM Chapter.
- (2) Do the operational test of the pack temperature control system (Ref. AMM 21-61-00, P. Block 501).
- (3) Do the test in accordance with the AMM 21-52-21, P. Block 401.

D. CLOSE-UP

(1) Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.

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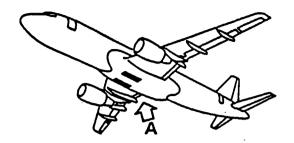
- (2) Install the access panel 191KB (for 10HM) 192KB (for 11HM) (Ref. AMM 53-35-13, P. Block 401).
- (3) On the ECAM control panel 11VU set the lower display and the upper display knobs to the OFF position.
- (4) De-energize the electrical circuits (Ref. AMM 24-41-00, P. Block 201).

E. DOCUMENTATION

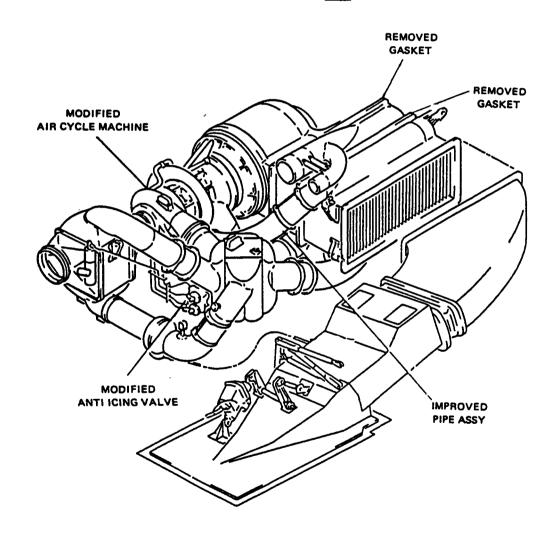
Record the accomplishment of this Service Bulletin in the relevant aircraft technical records.

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Location of Air Conditioning Packs
Figure 1

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3. MATERIAL INFORMATION

Terms of procurement are to be negotiated directly with LIEBHERR ABG SEMCA, as per LIEBHERR ABG SEMCA Service Bulletin No. 744A-21-06.

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

ATA SYSTEM: 21 MODIFICATION No.: 23143K2664

TITLE: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE AIR CONDITIONING

PACK PN 744A0000-09

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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