SUMMARY

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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

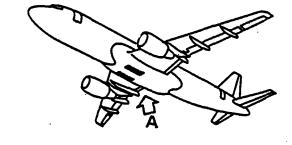
TITLE: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE AIR CYCLE MACHINE

PN 757A0000-09

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

The existing air cycle machine 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. 757A-21-05. This publication deals with replacement of the air cycle machine.



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.

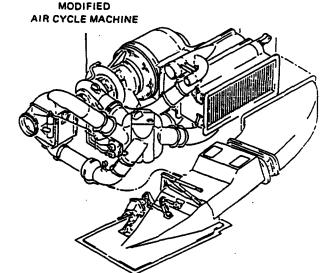
This Service Bulletin is linked to Service Bulletin No. A320-21-1058/Mod. No. 23143K2664.

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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SERVICE BULLETIN SUMMARY

REFERENCES/REPERCUSSIONS

TFU 21.52.21.07

LIFE LIMIT

None

0EB None

LINE MAINTENANCE AFFECTED

NC

AOT None

SIL None

OTHERS None

NATURE OF THE MODIFICATION

AIRCRAFT

NO

EQUIPMENT

YES

NOTE: A standard air cycle machine

PN757A0000-08 or-09 may be installed on a

air conditioning pack PN744A000-08.

Only an air cycle machine PN757A0000-09 can be installed on an air conditioning pack

PN744A0000-09.

HARD

SOFT

NO

YES

OBRM

NO

COMPLIANCE

Optional

MANPOWER

Manhours

6.00

Elapsed Time (hours)

4.00

MATERIAL INFORMATION

Aircraft Data

None

Equipment Data

Designation

Air Cycle Machine

Supplier

LIEBHERR ABG SEMCA

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Service Bulletin No.

757A-21-05

Part Number Before

757A0000-08

Part Number After

757A0000-09

Interchangebility code

01

Intermixability

Yes

APPENDICES

None

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

MODIFICATION No.: 23143K2664 (Partial)

ATA SYSTEM: 21

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

PN 757A0000-09

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	032, 023, 024, 025, 036, 027, 029, 030, 140, 142, 157, 239	
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, 6 004-008	005, 007, 01,4, 01,9, 02,0, 02,1, 00,2	
გ 031−048	061, 062, 063, 100, 101, 102, 128, 129, 133, 186, 187, 188, 226, 227, 228, 285, 286, 287	
AMC 001-002	1/2, 293	
ANA 001-012	138, 139, 148, 151, 167, 170, 196, 212, 219, 245, 300, 328	
BAW 001-010	006, 008, 01/1, 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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SA320

Customer and Fleet No.	MSN	Qty of Kits (No kit required)
DLH 001-032	069, 070, 071, 072, 078, 083, 086, 098, 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	33/2	
GFA 801-803	313, 325, 345	
HP 620-622, 624-629, 631-638	052, 053, 054, 055, 064, 068, 066, 067, 076, 077, 081, 082, 091, 092, 098, 099, 347	
IAC 001-012, 6 014-019	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	097, 098	
SAA 001-006	243, 249, 250, 251, 334, 335	

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Qty of Kits (No kit required)

	tomer and et No.			MSN		
	001 ~ 003 007	119, 12/ 123	4, 20 5			
XP	001	085				
XP	051-062	203, 220 349), 221,	222, 294	, 299,	301, 348,
D	501	344				
XR	501-517	235, 230 292, 304 338), 238, 4, 308,	247, 257 314, 315	7, 271, 5, 317,	280, 291 327, 336,
XS	001-002	322, 326	5			
XZ	001-004	131, 13/	2, 189,	190		
	101-106	234, 23	7,88,	2,89, 3,81	1, 3//3	

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

Air cycle machine PN 757A0000-08.

B. REASON

(1) History

The existing air cycle machine 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. 757A-21-05. This publication deals with the modification of the air cycle machine.

(3) Advantages

The accomplishment of this Service Bulletin increases the equipment efficiency and reliability of the air cycle machine.

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(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 of air cycle machine.
- (3) Modification of air cycle machine as per LIEBHERR ABG SEMCA Service Bulletin No. 757A-21-05.
- (4) Installation of air cycle machine.
 - NOTE: A standard air cycle machine PN757A0000-08 or-09 may be installed on a air conditioning pack PN7440000-08.

 Only a aircraft cycle machine PN757A0000-09 can be installed on a 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

	Manhours	
	Aircraft	•
Gain access	1.00	
Removal	1 .00	
Modification		Ref.to LIEBHERR ABG SEMCA Service Bulletin No. 757A-21-05.
Installation	1.00	
Close-up	2.00	
Test	1.00	
TOTAL MANHOURS	6.00	
ELAPSED TIME (HOURS)	4.00	

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

Terms of procurement are to be negotiated directly with LIEBHERR ABG SEMCA, as per LIEBHERR ABG SEMCA Service Bulletin No. 757A-21-05.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual: : 21-52-21, 24-41-00, 53-35-13

LIEBHERR ABG SEMCA Service Bulletin No. 757A-21-05

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog: : 21-52-03, 21-52-21

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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	3 H H	x21
122VU	AIR COND/PACK TEMP/CTL SYS2/1/28VDC	4HH	Y19
122VU	AIR COND/PACK TEMP/CTL SYS2/1/115VAC	2HH	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.

B. MODIFICATION

Refer to Figure 1

- (1) Replacement of anti ice valve.
 - (a) 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.

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(b) Install the modified air cycle machine (Ref. AMM 21-52-21, P. Block 401)

NOTE: For another approved configuration for an air condition pack PN744A0000-08 refer to Service Bulletin A320-21-1058.

C. TEST

- (1) Do the preparation for test in accordance with APP 21-52-21, P. Block 401.
- (2) Do the test in accordance with the AMM 21-52-21, P. Block 401.

D. CLOSE-UP

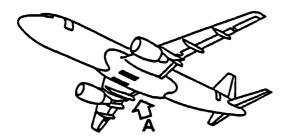
- (1) Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.
- (2) Install the access panel 191KB (for 10HM), 192KB (for 11HM) (Ref. AMM 53-35-13, P. Block 401).
- (3) On the ECAM control panel 11VU set the lower display and the upper display knobs to the OFF position.
- (4) De-energize the electrical circuits (Ref. AMM 24-41-00, P. Block 201).

E. DOCUMENTATION

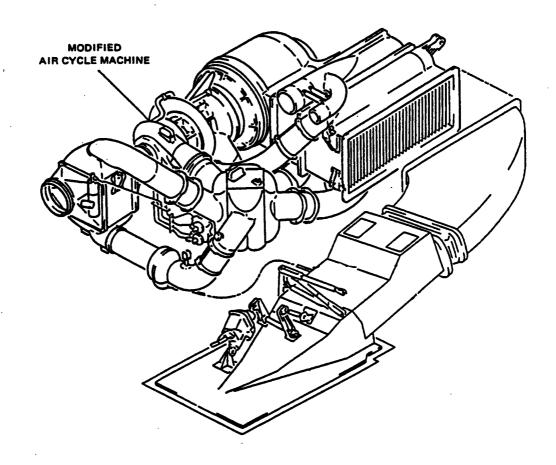
Record the accomplishment of this Service Bulletin in the relevant aircraft technical records.

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A



Location of Air Cycle Machine Figure 1

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GA320 SERVICE BULLETIN

3. MATERIAL INFORMATION

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