AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 61-93-33-33

SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

Telex: AIRBU 530526 F

MODIFICATION NO: 22781K2726

ATA SYSTEM: 21

22898K2550

TITLE: AIR-CONDITIONING - PACK CONTROLLER - IMPROVE PRESSURE SENSOR AND

PACK CONTROLLER BITE FUNCTION

Herewith Revision No. 2 of Service Bulletin A320-21-1052.

NO ADDITIONAL WORK IS REQUIRED BY THIS REVISION.

REASON

This Revision is issued to change the address for para. F. from AIRBUS INDUSTRIE SPARES SUPPORT CENTER to LIEBHERR-AERO-TECHNIK GmbH.

SERVICE BULLETIN

- Page 1 of 9

Revision No. 2 - added.

- Page 4

Para. F. address updated.

FILING INSTRUCTIONS

- Replace Service Bulletin pages 1 of 9 and 4.
- File this Revision Transmittal Sheet in front of this Service Bulletin.

REVISION SEQUENCE

Original: Oct 12/92

Revision No.: 1 - Nov 24/92 Revision No.: 2 - DEC 09/92

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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: 22781K2726

22898K2550

ATA SYSTEM: 21

T I T L E : AIR-CONDITIONING - PACK CONTROLLER - IMPROVE PRESSURE SENSOR AND

PACK CONTROLLER BITE FUNCTION

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

This Service Bulletin is published to advise operators of the issue of the LIEBHERR ABG-SEMCA Service Bulletins No. 759A-21-05 and 768A-21-01. The A320 BITE Task Force has requested improvement to the existing pack controller. The pack controller has been changed to incorporate the following software improvements:

- Introduction of a GND memory at CAB TEMP CONT (ZC) CFDS interface (additional submenu).
- Addition of the PC dash number and identifying Letter at LRU-Identification (CAB TEMP CONT-CFDS submenu).
- The Initiated Test (CAB TEMP CONT-CFDS submenu) becomes a complete System Test.
- Change of the Ram Air Inlet (RAI) control logic for the take-off and landing phases.

Introduction of a new pressure sensor.

This Service Bulletin describes the procedure to replace pack controller and pressure sensor with the modified pack controller and the new pressure sensor.

The accomplishment of this Service Bulletin will improve the reliability of the pack controller BITE function and flow indicating of the air-coditioning system.

EFFECTIVITY

This Service Bulletin is applicable to the following operators:

AAA, ACA, ADR, AFR, AMC ANA, AWE, BAW, BV, CDN, CYP, DLH, GFA, IAC, IBE, ITF, KAC, MSR, MXA, NWA, OYC, RJA, SAA, TAR, XP, XR and XZ.

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SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

REFERENCES/REPERCUSSIONS

TFU: 21.51.34.01

LIFE LIMIT: None

OEB: None

LINE MAINTENANCE AFFECTED: No

AOT: None

SIL: None

OTHERS: LIEBHERR ABG-SEMCA Service Bulletins No.

759A-21-05 and 768A-21-01

NATURE OF THE MODIFICATION

AIRCRAFT: No EQUIPMENT: Yes

HARD:

Yes Yes

SOFT: OBRM:

No

COMPLIANCE

Optional

MANPOWER

Per Aircraft

Total manhours Elapsed time (hours) 7.5

apsed time (hours)

4.0

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MATERIAL INFORMATION

Aircraft Data

None

Equipment Data

CAUTION: You must never operate a postmodified pack controller with a

premodified pressure sensor or a premodified pack controller with a

postmodified pressure sensor.

Designation : Pack Controller

Supplier : LIEBHERR ABG-SEMCA

Service Bulletin No. : 759A-21-05

Part Number Before : 759A0000-08

Part Number After : 759A0000-09

Interchangeability : Code 3

Mixability : Yes

Designation : Pressure Sensor

Supplier : LIEBHERR ABG-SEMCA

Service Bulletin No.: 768A-21-01

Part Number Before : 768A0000-03

Part Number After : 9104A0003-01

Interchangeability : Code 3

Mixability : Yes

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



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

MODIFICATION NO: 22781K2726 ATA SYSTEM: 21

22898K2550

T I T L E : AIR-CONDITIONING - PACK CONTROLLER - IMPROVE PRESSURE SENSOR AND

PACK CONTROLLER BITE FUNCTION

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft Models: 320-111, 320-211, 320-212, 320-231

(2) Aircraft

Customer and Fleet No.	MSN	Kits None
AAA 001-012	022, 023, 024, 025, 026, 027, 029, 030, 140, 142, 157, 229	
ACA 201-224	059, 068, 073, 084, 122, 126, 127, 141, 149,	
	150, 154, 159, 183, 233, 242, 248, 253, 254,	
	255, 265, 277, 290, 310, 311	
ADR 001-003	043, 113, 144	
AFR 001-002,	- 005, 007, 014, 019, 020, 021, 002	
004-008		
AFR 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 001-011	138, 139, 148, 151, 167, 170, 196, 212, 219,	
	245, 300	
AWE 620-622,	052, 053, 054, 055, 064, 065, 066, 067, 076,	
624-629,	077, 081, 082, 091, 092, 098, 099	
631-637		
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	
DLH 001-031	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	
GFA 801	313	

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Customer and Fleet No.	MSN	Kits None
IAC 001-012	045, 046, 047, 048, 049, 050, 051, 056, 057,	
014-019	058, 074, 075, 080, 089, 090, 095, 096, 097	
IBE 001-020	134, 136, 143, 146, 158, 173, 176, 177, 199,	
	207, 223, 224, 240, 241, 246, 264, 266, 274, 303, 312	
ITF 001-003,	010, 012, 013, 016, 033, 036, 044, 004, 003,	
005-020	108, 115, 130, 155, 156, 184, 214, 239, 258,	
023,024	278, 236, 237	
ITF 201, 202	144, 145	
ITF 301, 302	204, 211	
ITF 401-403	215, 244, 270	
KAC 001-003	181, 182, 195	
MSR 001-005	165, 166, 178, 194, 198	
MXA 001-007	252, 259, 260, 261, 275, 276, 296	
NWA 301-332	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	
OYC 001-006	163, 164, 168, 169, 179, 193	
RJA 001-002	087, 088	
SAA 001-004	243, 249, 250, 251	
TAR 001-003,	119, 124, 205,	
007	123	
XP 001	085	
XP 051-057	203, 220, 221, 222, 294, 299, 301	
XR 501-514	225, 230, 238, 247, 257, 271, 280, 291, 292,	
	304, 308, 314, 315, 317	
XZ 001-004	131, 132, 189, 190	
XZ 101-104	234, 235, 288, 289	
	•	

This modification is embodied, prior to delivery, on A/C MSN 320 and subsequent.

B. REASON

(1) History

This Service Bulletin is published to advise operators of the issue of the LIEBHERR ABG-SEMCA Service Bulletins No. 759A-21-05 and 768A-21-01. The A320 BITE Task Force has requested improvement to the existing pack controller.

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- (a) The pack controller has been changed to incorporate the following software improvements:
 - Introduction of a GND memory at CAB TEMP CONT (ZC) CFDS interface (additional submenu).
 - Addition of the PC dash number and identifying Letter at LRU-Identification (CAB TEMP CONT-CFDS submenu).
 - The Initiated Test (CAB TEMP CONT-CFDS submenu) becomes a complete System Test.
 - Change of the Ram Air Inlet (RAI) control logic for the take-off and landing phases.
- (b) Introduction of a new pressure sensor.
- (2) Objective/Action

This Service Bulletin describes the procedure to replace pack controller and pressure sensor with the modified pack controller and the new pressure sensor.

(3) Advantages

The accomplishment of this Service Bulletin will improve the reliability of the pack controller BITE function and flow indicating of the air-conditioning system.

(4) Accomplishment Timescale

In accordance with operator's maintenance planning.

C. DESCRIPTION

Accomplishment of this Service Bulletin consists of:

- (1) Removing the pack controllers 7HH and 27HH, P/N 759A0000-08 from the electronics bay, rack 90VU.
- (2) Modifying the pack controllers as per LIEBHERR ABG-SEMCA Service Bulletin No. 759A-21-05.
- (3) Installing the modified pack controller in the electronics bay, rack 90VU.
- (4) Removing the pressure sensors 9HB and 10HB, P/N 768A0000-03 from the keel beam box.
- (5) Changing the pressure sensors as per LIEBHERR ABG-SEMCA Service Bulletin No. 768A-21-01.

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(6) Installing the new pressure sensors P/N 9104A0003-01 in the keel beam box.

D. APPROVAL

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

E. MANPOWER

This Service Bulletin may be accomplished in the following approximate manhours and elapsed time:

4		•	
Manhour	c nor	21777	116
mai ii ioui	a hei	a 11 C1	a 1 L
	•		

Gain access 3.0

Modification Refer to LIEBHERR ABG-SEMCA Service
Bulletins No. 759A-21-05 and 768A-21-01

Test 1.0

Close-Up 3.5

Total manhours 7.5

Elapsed time (hours) 4.0

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, nonproductive elapsed time or administrative functions.

F. MATERIAL - COST AND AVAILABILITY

Sales terms stated (cost and availability) are evaluated with respect to economic conditions at the issue date of this Service Bulletin.

(1) Material

Operators with aircraft listed under paragraph 1.A.(2) should submit a purchase order quoting this Service Bulletin to:

LIEBHERR-AERO-TECHNIK GmbH Tel. (08381) 46-1 Postfach 1363 Telex: 83818123 D-8998 Lindenberg Federal Republic of Germany

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Printed in France



G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

I. REFERENCES

Aircraft Maintenance Manual (AMM) 06-31-53, 12-34-24, 21-51-00, 21-51-11, 21-61-00, 21-61-34, 52-10-00

LIEBHERR ABG-SEMCA Service Bulletins No. 759A-21-05 and 768A-21-01

J. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual 21-51-03, 21-51-11, 21-61-03

Illustrated Parts Catalog 21-61-16, 21-61-34

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2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

(1) Preparation

- (a) Electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).
- (b) Put an access platform in position at the passenger/crew door.
- (c) Open the passenger/crew door (Refer to AMM 52-10-00, P. Block 201).
- (d) Open, safety and tag the circuit breakers as given in AMM 21-61-34, P. Block 401 and AMM 21-51-11, P. Block 401.
- (e) Put an access platform in position at the access door 811.
- (f) Open the access door 811 of the avionics compartment.
- (g) Open the access panels 191KD and 192KD on the keel beam box, zone 191 and 192.

(2) Standard Procedures

(a) For the station (STA) and frame (FR) identification, refer to AMM 06-31-53, P. Block 001.

B. MODIFICATION

- (1) Remove the pack controllers 7HH and 27HH, P/N 759A0000-08 from the electronics bay, rack 90VU (Refer to AMM 21-61-34, P. Block 401).
- (2) Do the modification to the pack controller as given in LIEBHERR ABG-SEMCA Service Bulletin No. 759A-21-05.
- (3) Install the modified pack controllers 7HH and 27HH, P/N 759A0000-09 in the electronics bay, rack 90VU (Refer to AMM 21-61-34, P. Block 401).
- (4) Remove the pressure sensors 9HB and 10HB, P/N 768A0000-03 from the keel beam box in the area between FR37 and FR38 (Refer to AMM 21-51-11, P. Block 401).
- (5) Change the pressure sensors as given in LIEBHERR ABG-SEMCA Service Bulletin No. 768A-21-01.
- (6) Install the new pressure sensors 9HB and 10HB, P/N 9104A0003-01 in the keel beam box in the area between FR37 and FR38 (Refer to AMM 21-51-11, P. Block 401).

NOTE: You must use the pressure sensor P/N 9104A0003-01 only with the pack controller P/N 759A0000-09.

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C. TEST

- (1) Remove the safety clips and the tags and close the circuit breakers given in AMM 21-61-34, P. Block 401 and AMM 21-51-11, P. Block 401.
- (2) Do an operational test of the pack controller (Refer to AMM 21-61-00, P. Block 501).
- (3) Do an operational test of the flow control and indicating (Refer to AMM 21-51-00, P. Block 501).

D. CLOSE-UP

- (1) Make sure that the work area is clean and clear of tools and other items.
- (2) Close the access panels 191KD and 192KD on the keel beam box, zone 191 and 192.
- (3) Close the access door 811 of the avionics compartment.
- (4) Close the passenger/crew door (Refer to AMM 52-10-00, P. Block 201).
- (5) Remove the access platforms.

E. DOCUMENTATION

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

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3. MATERIAL INFORMATION

Refer to LIEBHERR ABG-SEMCA Service Bulletins No. 759A-21-05 and 768A-21-01.

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SERVICE BULLETIN

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MODIFICATION NO: 22781K2726

22898K2550

ATA SYSTEM: 21

T I T L E : AIR-CONDITIONING - PACK CONTROLLER - IMPROVE PRESSURE SENSOR AND

PACK CONTROLLER BITE FUNCTION

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: Please return to:

AIRLINE:

......

NAME :

.......

DATE:

. 19 . .

AIRBUS INDUSTRIE

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

Att.: AI/SP - Technical Publications

Department

;SBTEXTENDE

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