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

SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

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

MODIFICATION NO: 22100K2246

ATA SYSTEM: 21

TITLE: AIR-CONDITIONING - AIR-CONDITIONING PACK - EVALUATE THE IMPROVED PACK

DE-ICING

Herewith Revision No. 1 of Service Bulletin A320-21-1901. NO ADDITIONAL WORK IS REQUIRED BY THIS REVISION.

#### REASON

This revision is issued to insert the effectivity of operator SAA and to incorporate the Change Notices No. OA and OB in this Service Bulletin.

#### **CHANGES**

### SERVICE BULLETIN SUMMARY

- Page 1 of 2

Para. EFFECTIVITY - Updated.

- Page 2 of 2

Para. MATERIAL INFORMATION - Change Notice No. OA

incorporated.

#### SERVICE BULLETIN

- Page 1 of 7

Para. 1.A. (2) - Effectivity updated and

Change Notice No. OB incorporated.

- Page 2

Text updated.

- Page 3/4

Para. 2.I. - AMM reference added.

- Page 5

Para. 2.B.(1) - AMM reference added.

### FILING INSTRUCTIONS

- Replace Service Bulletin Summary pages 1 of 2 and 2 of 2.
- Replace Service Bulletin pages 1 of 7, 2, 3/4 and 5.
- File this Revision Transmittal Sheet in front of this Service Bulletin.

## REVISION SEQUENCE

Original: Jul 24/91

Revision No: 1 - FEB 25/92

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EVALUATION
SERVICE BULLETIN
SUMMARY

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

MODIFICATION NO: 22100K2246 ATA SYSTEM: 21

T I T L E : AIR-CONDITIONING - AIR-CONDITIONING PACK - EVALUATE THE IMPROVED

PACK DE-ICING

#### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

A new air-conditioning pack and pack controller are to be evaluated in order to make certain that the ice protection function of the air-conditioning pack is properly maintained by the improved anti-ice valve. For evaluation in realistic conditions on the air-conditioning pack 10HM, the anti-ice valve and pack controller must be replaced. After accomplishment of this Evaluation Service Bulletin, a correct ice protection function of the air-conditioning system by the anti-ice valve will be confirmed.

#### **EFFECTIVITY**

This Service Bulletin is applicable to the following operators: AAA, ITF and SAA.

SERVICE BULLETIN/MODIFICATION TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

### None

#### REFERENCES/REPERCUSSIONS

TFU 21.61.41.01

### NATURE OF THE MODIFICATION

AIRCRAFT : NO EQUIPMENT : YES

HARD: YES (Refer to LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05).

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SOFT : YES OBRM : NO

### COMPLIANCE

Optional for evaluation

#### MANPOWER

Total manhours 10.00 Elapsed time (hours) 5.00

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### MATERIAL INFORMATION

Aircraft Data

None

**Equipment Data** 

Designation

Air-Conditioning Pack (ACP)

Pack Controller (PC)
Anti-Icing Valve (AIV)
Pipe Assemblies (PA)

Supplier

LIEBHERR ABG-SEMCA

Service Bulletin No.

744A-21-05

Part Number Before

744A0000-08 (ACP) 759A0000-08 (PC) 748A0000-05 (AIV) 778A2900-02 (PA) 778A3000-02 (PA) 778A2800-02 (PA) 778A2600-01 (PA)

Part Number After

744C0000-01 (ACP) 759B0000-01 (PC) 748A0000-07 (AIV) 778A3700-01 (PA) 778A3800-01 (PA) 778A3900-02 (PA) 778A4000-01 (PA)

Interchangeability

- 1. In case of ACM failure, PC 759B0000-01 must be replaced by PC 759A0000-08.
- 2. In case of PC 759B0000-01 failure it is possible to install a PC P/N 759A0000-07.
- 3. In case of AIV 748A0000-07 failure, AIV 748A0000-05 must be fitted with a PC 759A0000-07.

Intermixability

Not applicable

### **APPENDICES**

None

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T I T L E : AIR-CONDITIONING - AIR-CONDITIONING PACK - EVALUATE THE IMPROVED PACK

DE-ICING

### 1. PLANNING INFORMATION

### A. EFFECTIVITY

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

(2) Aircraft

Customer and Fleet No.	MSN	Qty of Kits None
AAA 001-012	022, 023, 024, 025, 026, 027, 029, 030, 140, 142, 157, 229	
ITF 001-024	010, 012, 013, 015, 016, 033, 036, 044, 004, 003, 108, 115, 130, 155, 156, 184, 214, 239,	
SAA 001-007	258, 278, 337, 352, 236, 237 243, 249, 250, 251, 334, 335, 449	

(3) Spares

None

## B. REASON

#### (1) History

A new air-conditioning pack and pack controller are to be evaluated in order to ensure the ice protection function of the air-conditioning pack by an anti-ice valve.

## (2) Objective/Action

For evaluation in realistic conditions on the air-conditioning pack 10MH, the anti-ice valve and the pack controller have to be replaced.

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# (3) Advantages

After accomplishment of this Evaluation Service Bulletin a correct ice protection function of the air-conditioning system by the anti-ice valve will be confirmed.

## (4) Accomplishment Timescale

In accordance with operator's experience.

#### C. DESCRIPTION

Accomplishment of this Evaluation Service Bulletin consists of carrying out the following jobs:

- (1) Replacing the pack controller 7HH, 759A0000-08 with 759B0000-01.
- (2) Modifying the air-conditioning pack 10HM, LH, 744A0000-08 as given in the LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05.
  - (3) Re-identifying the modified air-conditioning pack 10HM from 744A0000 -08 to 744C0000-01.

#### D. APPROVAL

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

#### E. MANPOWER

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

## Manhous/aircraft

Gain access	2.00	
Modification	4.00	Refer to LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05
Test	2.00	
Close-Up Total manhours	2.00 10.00	

Elapsed time (hours) 5.00

NOTE: This Evaluation 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.

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## F. MATERIAL - COST AND AVAILABILITY

Refer to LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

None

### I. REFERENCES

Aircraft Maintenance Manual 12-34-24, 21-52-23, 21-52-41, 21-61-00, 21-61-34, 21-63-00, 52-10-00, 53-35-13

LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05

J. PUBLICATIONS AFFECTED

None

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### 2. ACCOMPLISHMENT INSTRUCTIONS

### A. GENERAL

- (1) Electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).
- (2) Put the access platform in position at the passenger/crew door.
- (3) Open the FWD passenger/crew door (Refer to AMM 52-10-00, P. Block 201).
- (4) Open, safety and tag the circuit breakers as given in AMM 21-52-41, P. Block 401.
- (5) Put the access platform in position at the access panel 191KB (Refer to AMM 53-35-13, P. Block 401).
- (6) Remove and retain the access panel 191KB (Refer to AMM 53-35-13, P. Block 401).

### B. MODIFICATION

- NOTE: This modification has to be embodied on the air-conditioning pack 10HM, LH.
- (1) Replace the pack controller 7HH, 759A0000-08 with 759B0000-01 (Refer to AMM 21-61-34, P. Block 401).
- (2) Do the modification to the air-conditioning pack 10HM, LH, 744A0000-08 as given in the LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05.
- (3) Change the modified air-conditioning pack 10HM number from 744A0000 -08 to 744C0000-01.

### C. TEST

- (1) Remove the safety clips and tags and close the circuit breakers opened in Para. 2.A.(4).
- (2) Do a Leak check of the pipe assy connections (Refer to AMM 21-52-23, P. Block 401).
- (3) Do an operational test of the cockpit and cabin temperature system (Refer to AMM 21-61-00, P. Block 501).

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## D. CLOSE-UP

- (1) Make sure that the work area is clean and clear of tools and other items.
- (2) Install the retained access panel 191KB (Refer to AMM 53-35-13, P. Block 401).
- (3) Close the FWD passenger/crew door (Refer to AMM 52-10-00, P. Block 201).
- (4) Remove the access platforms.

### E. DOCUMENTATION

Write in the related A/C technical records that you did this Service Bulletin.

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# 3. MATERIAL INFORMATION

Refer to LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-05

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DE-ICING

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.

AIRLINE:

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

Att.: AI/SP - Technical Publications
Department

DATE:

19.

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