



A319/A320/A321

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 61933333
Telex: AIRBU 530526F

TITLE : AIR CONDITIONING - AIR COOLING - MODIFY THE AIR CONDITIONING PACK

MODIFICATION No. : 25465K4441

ATA SYSTEM : 21

This page transmits Revision No. <01> of Service Bulletin No.
A320-21-1105.

No more work is necessary to do this revision.

REASON

This Revision is issued for the subsequent listed reason.

CHANGES

SUMMARY

EFFECTIVITY

Customers AFR, BAW and IAC added

SERVICE BULLETIN

Para. EFFECTIVITY

Customers AFR, BAW and IAC added

FILING INSTRUCTIONS

Replace the complete Summary and the Service Bulletin.

Put this Revision Transmittal Sheet in front of the Service Bulletin.

REVISION SEQUENCES

ORIGINAL : Feb 21/96

REVISION No. : 01 - JUL 02/96

A319/A320/A321

SERVICE BULLETIN

SUMMARY

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 61933333
Telex: AIRBU 530526F

This summary is for information only
and is not approved for modification of the aircraft

TITLE : AIR CONDITIONING - AIR COOLING - MODIFY THE AIR CONDITIONING PACK

MODIFICATION No. : 25465K4441

ATA SYSTEM : 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

In order to verify reliability improvements to the air cooling packs an evaluation program has been initiated

This Evaluation Service Bulletin is issued to inform the affected customers about the LIEBHERR ABG-SEMCA Vendor Service Bulletin (VSB) 744A-21-08. This VSB details the modification of the air cooling packs P/N 744A0000-09 or 744A0000-10 and is for field evaluation only. The cooling packs will be equipped with a modified Air Cycle Machine (ACM) P/N 757T0000-01 or 757T0000-02. The two journal air bearings in the ACM are replaced by bump foil bearings in order to decrease the preload of the foils on the shaft, and consequently to reduce the ACM start pressure.

It is expected that this modification will increase the reliability of the air conditioning system and consequently the passengers comfort.

NOTE : The evaluation period is for a maximum of one year.

NOTE : Only one air conditioning pack per A/C has to be modified for evaluation.

EFFECTIVITY

This Service Bulletin is applicable to these customer(s) :
ANA, AFR, BAW, GFA, IAC, ITF, SWR, XP, XZ.

It is the customers responsibility to decide on which A/C this Evaluation Service Bulletin will be accomplished.

SERVICE BULLETIN(S) TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

6 DATE : Feb 21/96

SERVICE BULLETIN No. : A320-21-1105

REVISION No. : 01 - JUL 02/96

PAGE : 1 of 3



A319/A320/A321

SERVICE BULLETIN

SUMMARY

REFERENCES/REPERCUSSIONS

TFU : 21.52.21.008 AND 21.52.21.009
OEB : None
AOT : None
SIL : None
LIFE LIMIT : None
LINE MAINTENANCE AFFECTED : No
OTHER : None

NATURE OF THE WORK

AIRCRAFT : NO
EQUIPMENT : YES
HARD : YES
SOFT : NO
OBRM : NO

COMPLIANCE

Optional

MANPOWER

TOTAL MANHOURS 10.00
ELAPSED TIME (HOURS) 4.50

MATERIAL INFORMATION

AIRCRAFT DATA

None

EQUIPMENT DATA

Designation : Air Conditioning Pack

Supplier : Liebherr ABG-SEMCA



A319/A320/A321

SERVICE BULLETIN

SUMMARY

Service Bulletin No. : 744A-21-08

Old Part Number : 744A0000-09

New Part Number : 744T0000-01

Interchangeability code : 2 (Refer to ATA 200 Chapter 1A-2)

Mixability : YES

Designation : Air Conditioning Pack

Supplier : Liebherr ABG-SEMCA

Service Bulletin No. : 744A-21-08

Old Part Number : 744A0000-10

New Part Number : 744T0000-01

Interchangeability code : 2 (Refer to ATA 200 Chapter 1A-2)

Mixability : YES

APPENDICES

None



A319/A320/A321

SERVICE BULLETIN

AIRBUS INDUSTRIE
 CUSTOMER SERVICES DIRECTORATE
 1 Rond Point Maurice BELLONTE
 31707 BLAGNAC CEDEX FRANCE
 Tel: (33) 61933333
 Telex: AIRBU 530526F

TITLE : AIR CONDITIONING - AIR COOLING - MODIFY THE AIR CONDITIONING PACK

MODIFICATION No. : 25465K4441

ATA SYSTEM : 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models : 320-111, 320-211, 320-212, 320-214, 320-231

(2) Aircraft

| Customer and Fleet No. | MSN | Kit No. 211105 | Qty of Kits | Config. No. |
|---------------------------|---|-------------------|----------------|----------------|
| | | NONE | NONE | |
| AFR 001,002 | 005,007 | | | |
| 004-008 | 014,019,020,021,002 | | | |
| 031 | 061 | | | |
| 033-036 | 063,100,101,102 | | | |
| 038-044 | 129,133,186,187,188,226, 227 | | | |
| 048 | 287 | | | |
| ANA 001-022 | 138,139,148,151,167,170, 196,212,219,245,300,328, 365,383,413,482,501,507, 531,534,549,554 | | | |
| BAW 001-010 | 006,008,011,017,018,039, 042,103,109,120 | | | |
| GFA 801-816 | 313,325,345,375,419,421, 438,445,459,466,481,497, 536,537,542,543 | | | |
| IAC 001-012 | 045,046,047,048,049,050, 051,056,057,058,074,075 | | | |
| 014-031 | 080,089,090,095,096,097, 396,398,416,423,431,432, 451,469,486,490,492,499 | | | |



A319/A320/A321

SERVICE BULLETIN

| Customer and Fleet No. | MSN | Kit No. 211105 | Qty of Kits | Config. No. |
|---------------------------|---|-------------------|----------------|----------------|
| | | NONE | NONE | |
| ITF 001-003 | 010,012,013 | | | |
| 005-018 | 016,033,036,044,004,003, 108,115,130,155,156,184, 214,239 | | | |
| 020-027 | 278,337,352,236,237,377, 491,525 | | | |
| 201,202 | 144,145 | | | |
| 301,302 | 204,211 | | | |
| 401-403 | 215,244,270 | | | |
| SWR 226-233 | 533,545,548,553,559,562, 566,574 | | | |
| XP 001 | 085 | | | |
| XZ 109,110 | 420,436 | | | |

It is the responsibility of the customers to select the A/C to accomplish this Evaluation Service Bulletin.

(3) Spares

None

B. REASON

(1) History

In order to verify reliability improvements to the air cooling packs an evaluation program has been initiated.

(2) Objective/Action

This Evaluation Service Bulletin is issued to inform the affected customers about the LIEBHERR ABG-SEMCA Vendor Service Bulletin (VSB) 744A-21-08. This VSB details the modification of the air cooling packs P/N 744A0000-09 or 744A0000-10 and is for field evaluation only. The cooling packs will be equipped with a modified Air Cycle Machine (ACM) P/N 757T0000-01 or 757T0000-02. The two journal air bearings in the ACM are replaced by bump foil bearings in order to decrease the preload of the foils on the shaft, and consequently to reduce the ACM start pressure.

NOTE : The evaluation period is for a maximum of one year.

NOTE : Only one air conditioning pack per A/C has to be modified for evaluation.

(3) Advantages

It is expected that this modification will increase the reliability of the air conditioning system and consequently the passengers comfort.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

In accordance with the customers maintenance planning.

C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Remove the ACM.
- (2) Install the modified ACM.

D. APPROVAL

The design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No C 01. The changes specified in this Service Bulletin have been approved by the DGAC when they are major, or under the authority of DGAC Design Organisation Approval No. C01, when they are minor.

A319/A320/A321

SERVICE BULLETIN

E. MANPOWER

This Service Bulletin is written for an aircraft in a maintenance condition. The manhours/elapsed time estimates do not include the time to prepare for the modification, non-productive elapsed times or administration.

| | |
|----------------------|-------|
| Get access | 0.50 |
| Removal/Installation | 8.00 |
| Test | 0.50 |
| Close-up | 1.00 |
| TOTAL MANHOURS | 10.00 |
| ELAPSED TIME (HOURS) | 4.50 |

F. MATERIAL - COST AND AVAILABILITY

There will be no charge for this Evaluation Service Bulletin. For further information please contact

LIEBHERR ABG-SEMCA
408 Avenue des Etats Unis
BP2010
31016 Toulouse Cedex
FRANCE
Tel : 61.35.28.28
Telex : ABSEMCA 531634F
Telefax : 61.35.29.29

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Not affected

I. REFERENCES

Aircraft Maintenance Manual (AMM) : 12-34-24, 21-52-21
Vendor Service Bulletin (VSB) : LIEBHERR ABG-SEMCA 744A-21-08

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-52-03, 21-52-41

DATE : Feb 21/96

SERVICE BULLETIN No. : A320-21-1105

REVISION No. : 01 - JUL 02/96

PAGE : 4

2. ACCOMPLISHMENT INSTRUCTIONS**A. GENERAL**

WARNING : MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

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

(1) Preparation

(a) Electrically ground the aircraft (Refer to AMM 12-34-24, P. Block 201).

(b) For the preparation refer to AMM 21-52-21, P. Block 401.

(2) Standard Practices

None

B. MODIFICATION

(1) Remove the ACM 757A0000-09 or 757A0000-10 (Refer to AMM 21-52-21, P. Block 401).

(2) Install the modified ACM 757T0000-01 or 757T0000-02 (Refer to AMM 21-52-21, P. Block 401).

C. TESTS

(1) Do a test as given in the AMM 21-52-21, P. Block 401.

D. CLOSE-UP

(1) For the Close-Up procedure (Refer to AMM 21-52-21, P. Block 401).

E. DOCUMENTATION

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



A319/A320/A321

SERVICE BULLETIN

F. EVALUATION

- (1) The evaluation period is for a maximum of one year.

G. RESTORATION OF AIRCRAFT TO ITS INITIAL CONFIGURATION

- (1) Remove the ACM 757T0000-01 or 757T0000-02 (Refer to AMM 21-52-21, P. Block 401).
- (2) Install the ACM 757A0000-09 or 757A0000-10 (Refer to AMM 21-52-21, P. Block 401).

H. TESTS

- (1) Do a test as given in the AMM 21-52-21, P. Block 401.

I. CLOSE-UP

- (1) For the Close-Up procedure (Refer to AMM 21-52-21, P. Block 401).
- (2) Make sure that the work area is clean and clear of tools and other items of equipment.

J. DOCUMENTATION

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



A319/A320/A321

SERVICE BULLETIN

3. MATERIAL INFORMATION

No Airbus Industrie kit is required for this Service Bulletin. For components required to modify the air conditioning cooling pack refer to LIEBHERR ABG-SEMCA Vendor Service Bulletin 744A-21-08.

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 61933333
Telex: AIRBU 530526F

TITLE : AIR CONDITIONING - AIR COOLING - MODIFY THE AIR CONDITIONING PACK

MODIFICATION No. : 25465K4441

ATA SYSTEM : 21

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 if this sheet is returned to us on the purchase date and signed by a duly authorized and empowered officer or representative.

FROM :

AIRLINE :

.....

NAME :

.....

DATE :

.....19..

Please return to :

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE

Att. : AI/SP - Technical Publications
Department