

A319/A320/A321

SERVICE BULLETIN SUMMARY

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 5 61-93-33-33
Telex: AIRBU 530526 F

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

TITLE : AIR CONDITIONING - PACK TEMPERATURE CONTROL - INTRODUCE IMPROVED PACK
TEMPERATURE CONTROLLER A-11

MODIFICATION No. : 27469K5430

ATA SYSTEM : 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

In-service experience has shown that, in hot weather conditions (above approx. 38 deg. C. (100 deg. F.)), the air conditioning pack discharge temperature is kept above 5 deg. C. (41 deg. F.) and the pack bypass valve is almost closed (less than 25 degrees open). In this configuration, the pack automatic de-icing cycle is activated by the 'A' pack controller; the bypass valve is then driven fully open for a period of 50 seconds approximately every ten minutes. As a result of this, the pack discharge pack temperature can exceed 40 deg. C. (104 deg. F.) and very hot air is blown into the cabin.

This Service Bulletin advises customers of the issue of the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin No. 759A-21-07 which introduces a modified pack controller incorporating a software change and also a modification of the main control limit for the ram air door to 40%.

Accomplishment of this modification will ensure that the pack de-icing cycle is activated as soon as the pack outlet temperature drops below 5 deg. C. (41 deg. F.), independent of the bypass valve position.

EFFECTIVITY

This Service Bulletin is applicable to these customer(s) :
HP, TAI, XP, XR.

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

Service Bulletin No. A320-21-1082 (Mod. No. 24094K03554)

REFERENCES/REPERCUSSIONS

TFU	: None
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None

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LINE MAINTENANCE AFFECTED : None

OTHER : None

NATURE OF THE WORK

AIRCRAFT	:	No
EQUIPMENT	:	yes
HARD	:	NO
SOFT	:	NO
OBRM	:	NO

COMPLIANCE

Desirable

MANPOWER

On Aircraft

TOTAL MANHOURS	1.25
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ELAPSED TIME (HOURS)	1.25
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MATERIAL INFORMATION

AIRCRAFT DATA

None

EQUIPMENT DATA

Designation : Pack Controller (7HH and 27HH)

Supplier : LIEBHERR-AEROSPACE LINDENBERG GmbH

Service Bulletin No. 759A-21-07

Old Part Number 759A0000-10

New Part Number 759A0000-11

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

Mixability : None

APPENDICES

None

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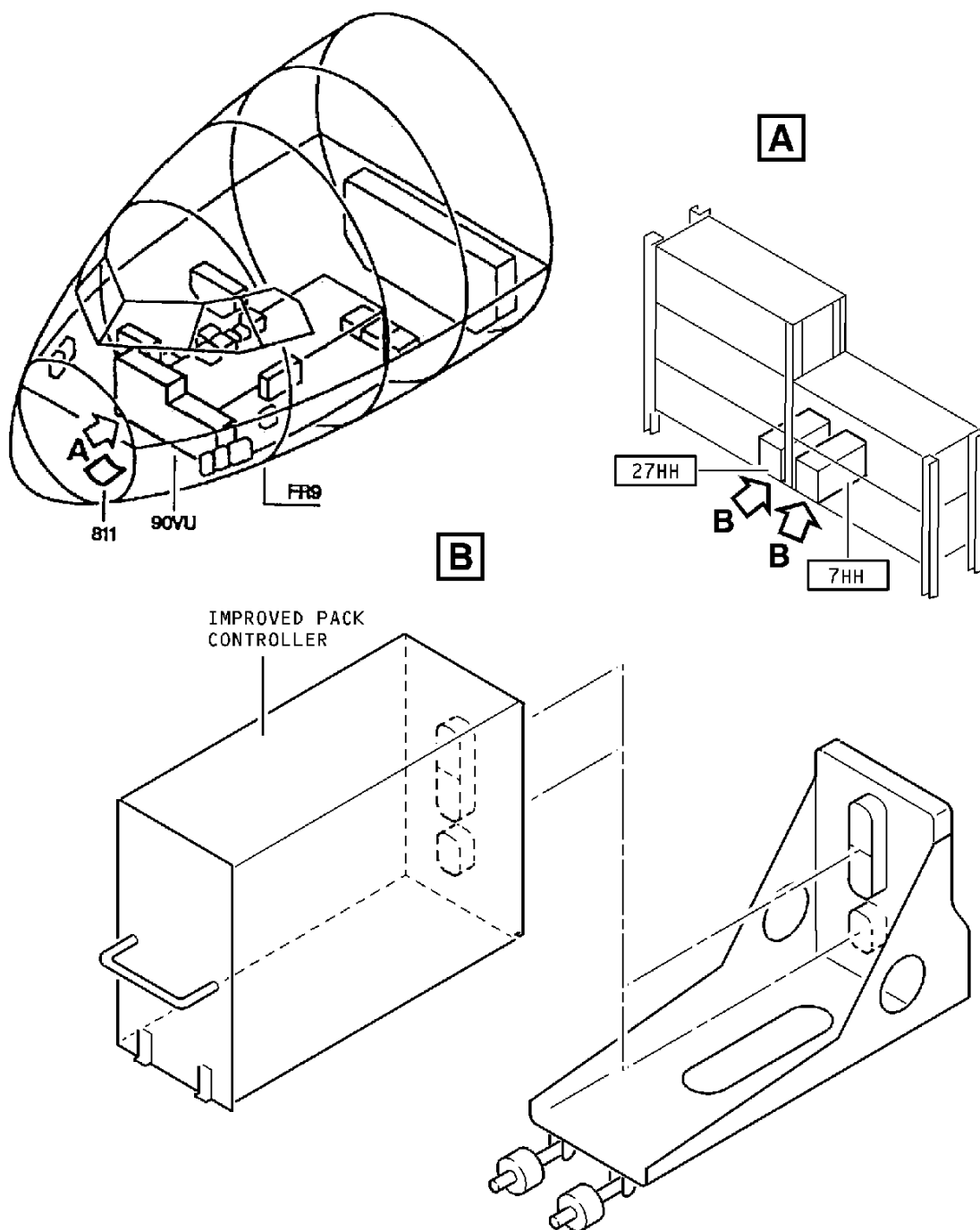
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TITLE : AIR CONDITIONING - PACK TEMPERATURE CONTROL - INTRODUCE IMPROVED PACK
TEMPERATURE CONTROLLER A-11

MODIFICATION No. : 27469K5430

ATA SYSTEM : 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models : 320-231, 320-232

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. none	Qty of kits	Config No.
HP620-622	052,053,054			
624-629	055,064,065,066,067,076			
631-636	077,081,082,091,092,098			
637	099			
TAI051-052	448,453			
XR503	238			
506	271			
510	304			
513, 514	315,317			
XP504-506	455,471,584			

To do this Service Bulletin you must do Service Bulletin
A320-21-1082 (Modification No. 24094K03554) before or at the same
time.

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(3) Spares

None

B. REASON

(1) History

In-service experience has shown that, in hot weather conditions (above approx. 38 deg. C. (100 deg. F.)), the air conditioning pack discharge temperature is kept above 5 deg. C. (41 deg. F.) and the pack bypass valve is almost closed (less than 25 degrees open). In this configuration, the pack automatic de-icing cycle is activated by the 'A' pack controller; the bypass valve is then driven fully open for a period of 50 seconds approximately every ten minutes. As a result of this, the pack discharge pack temperature can exceed 40 deg. C. (104 deg. F.) and very hot air is blown into the cabin.

(2) Objective/Action

This Service Bulletin advises customers of the issue of the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin No. 759A-21-07 which introduces a modified pack controller incorporating a software change and also a modification of the main control limit for the ram air door to 40%.

(3) Advantages

Accomplishment of this modification will ensure that the pack de-icing cycle is activated as soon as the pack outlet temperature drops below 5 deg. C. (41 deg. F.), independent of the bypass valve position.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

In accordance with operators' maintenance schedule.

C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

(1) Remove the pack controllers 7HH and 27HH.

(2) Perform the modification of the LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin 759A-21-07 on bench or send the pack controllers to LIEBHERR-AEROSPACE LINDENBERG GmbH.

(3) Install the modified pack controllers 7HH and 27HH.

D. APPROVAL

The technical content of this Service Bulletin has been approved under the authority of the DGAC Design Organisation Approval No. F.JA.02.

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E. MANPOWER

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

On Aircraft: Refer to LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin 759A-21-07 for manhours for bench modification.

Get access	0.25
Modification	0.25
Test	0.50
Close-up	0.25
TOTAL MANHOURS	1.25
ELAPSED TIME (HOURS)	1.25

F. MATERIAL - COST AND AVAILABILITY**(1) Material**

Modification of removed equipment should be negotiated directly with LIEBHERR-AEROSPACE LINDENBERG GmbH as per instructions given in Service Bulletin No. 759A-21-07. The address is:

LIEBHERR-AEROSPACE LINDENBERG GmbH
Customer Service
P.O.BOX 1363
D-88153 Lindenberg
GERMANY

(2) Cost and availability

Kit No.	Cost (US Dollars)	Availability : Calendar days from receipt of order
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Refer to the vendor Service Bulletin LIEBHERR-AEROSPACE LINDENBERG GmbH 759A-21-07 for the equipment modification sales terms.

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Not changed

I. REFERENCES

Aircraft Maintenance Manual (AMM)	:	06-41-53, 12-34-24, 21-61-00, 21-61-34, 52-10-00
Service Bulletin (SB)	:	A320-21-1082
LIEBHERR-AEROSP. Service Bulletin (SB)	:	759A-21-07

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J. PUBLICATIONS AFFECTED

Aircraft Maintenance Manual (AMM)	:	21-61-00
Illustrated Parts Catalog (IPC)	:	21-61-08, 21-61-34

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2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

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

(1) Preparation

- (a) Make sure that the aircraft is electrically grounded (Refer to AMM: 12-34-24, P. Block 201).
- (b) Open the passenger/crew door(s) (Refer to AMM: 52-10-00, P. Block 201).
- (c) Open, safety and tag the circuit breakers (Refer to AMM: 21-61-34, P. Block 401).
- (d) Open the avionics compartment door 811 (Refer to AMM: 06-41-53, P. Block 001) for access to the pack controllers 7HH and 27HH.

(2) Standard Practices

None

B. MODIFICATION

Refer to Figure 1

- (1) Remove the pack controllers 7HH and 27HH 759A0000-10, item (1), (Refer to AMM: 21-61-34, P. Block 401) as shown in the Figure.
- (2) Modify the pack controllers, item (1), (Refer to LIEBHERR-AEROSPACE LINDENBERG GmbH Service Bulletin 759A-21-07) on bench or send them to LIEBHERR-AEROSPACE LINDENBERG GmbH.
- (3) Install the pack controllers 7HH and 27HH 759A0000-11, item 1, (Refer to AMM: 21-61-34, P. Block 401) as shown in the Figure.

NOTE : For better performance Pack Discharge Sensor (PDS) PN 763A0000-03 should be installed.

C. TEST

Do an operational test of the pack temperature control (Refer to AMM: 21-61-00, P. Block 501).

D. CLOSE-UP

- (1) Close the avionics compartment door 811 (Refer to AMM: 06-41-53, P. Block 001).
- (2) Close the circuit breakers (Refer to AMM: 21-61-34, P. Block 401).
- (3) Close the passenger/crew door(s) (Refer to AMM: 52-10-00, P. Block 201).

E. DOCUMENTATION

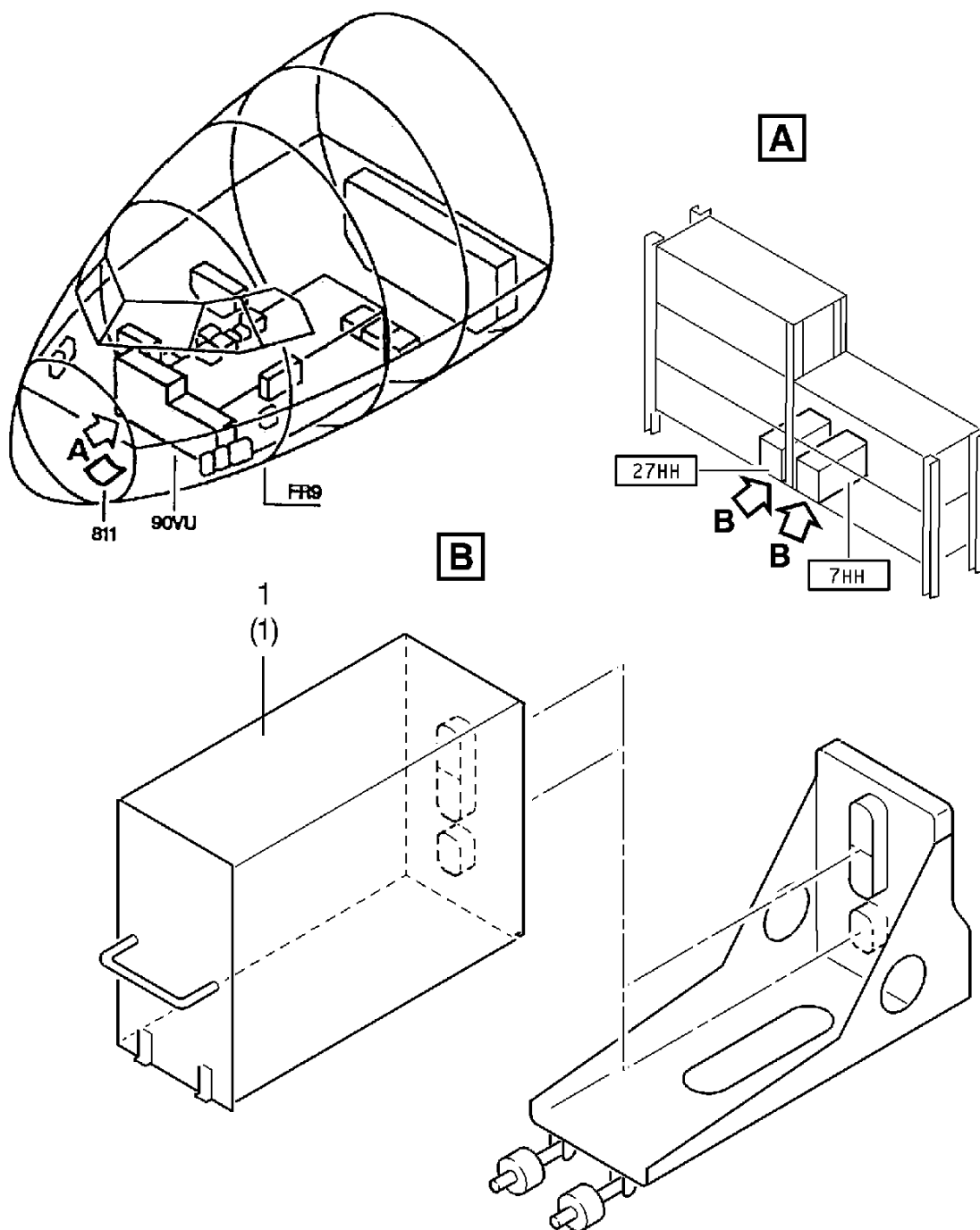
Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

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Removal and Installation of the Temperature Pack Controller (7HH and 27HH)

Figure 1 Sheet 1

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3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

ITEM	NEW PART NO.	QTY	KEYWORD	ITEM	OLD PART NO.	INT	INST DISP
1	759A0000-11	2	Packctrl	(1)	759A0000-10	200	A

(A) Modification of removed pack controllers should be negotiated directly with the vendor LIEBHERR-AEROSPACE LINDENBERG GmbH as per instructions given in the Service Bulletin No. 759A-21-07.

NOTE : For definition of interchangeability codes in column INT. refer to ATA 200 Chapter IA-2.

B. SPECIAL TOOLS

None

C. LIST OF MATERIAL - OPERATOR SUPPLIED

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

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ACCEPTANCE/REJECTION SHEET

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TEMPERATURE CONTROLLER A-11

MODIFICATION No. : 27469K5430

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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 returned to us on purchase date and signed by a duly
authorized and empowered officer or representative.

FROM :

AIRLINE :

NAME :

DATE :

Please return to :

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE
Attn : AI/SE-D32 Technical Data
and Documentation Services
FAX : (+33) 5 61 93 28 06

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