



A318/A319/A320/A321

SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE
Tel : (33) 5 61 93 33 33
Telex : AIRBU 530526F
Fax : (33) 5 61 93 42 51

ATA SYSTEM : 21

TITLE : AIR CONDITION - PACK TEMPERATURE CONTROL - INSTALL IMPROVED PACK
TEMPERATURE-CONTROLLERS (7HH AND 27HH)

MODIFICATION No. : 23987K3521

This page transmits Revision No 01 of Service Bulletin No A320-21-1106.

ADDITIONAL WORK

No additional work is required by this revision for aircraft modified by any previous issue.

REASON

This Revision has been issued to update the interchangeability and the mixability of the pack temperature-controllers.

CHANGES

SUMMARY

- Material information, interchangeability/mixability updated.

PLANNING INFORMATION

- Para. L., interchangeability/mixability updated.

MATERIAL INFORMATION

- Para. D.(2), interchangeability/mixability updated.

NOTE : Layout changes due to computerization of this revision are not identified.

FILING INSTRUCTIONS

This Service Bulletin has been generated electronically and is re-issued as a complete document. Replace the complete document.

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

HISTORY OF PREVIOUS REVISIONS

No previous revisions.

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REVISION TRANSMITTAL SHEET

REVISION SEQUENCE

ORIGINAL : Aug 09/96

REVISION No. : 01 – May 05/04

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31707 BLAGNAC CEDEX FRANCE
Tel : (33) 5 61 93 33 33
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This summary is for information only
and is not approved for modification of the aircraft

ATA SYSTEM : 21

TITLE : AIR CONDITION - PACK TEMPERATURE CONTROL - INSTALL IMPROVED PACK
TEMPERATURE-CONTROLLERS (7HH AND 27HH)

MODIFICATION No. : 23987K3521

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

The original de-ice function of the air conditioning packs was achieved by the anti-ice valve (AIV) via a pressure drop measurement across the condenser. Due to sticky behavior of the AIV 748A0000-05, this function was not properly achieved, resulting in reliability deterioration for some Environmental Control System (ECS) components.

As an immediate means to assure a proper de-icing of the condenser, an automatic anti-icing cycle has been implemented with the pack temperature-controller 759A0000-08. The cycle consist of a software-commanded opening of the bypass valve in defined intervals. This BPV opening preventively melts off potential ice built-up.

Later, an improved anti-ice valve 748A0000-08 has been introduced (via SB 21-1065) and it is proposed to install it instead of the modified pack temperature-controller 759A0000-08 up to 759A0000-10 so that the de-icing function of the air conditioning pack is again achieved by the anti-ice valve and no longer by the pack temperature-controller.

The accomplishment of this Service Bulletin will allow a common pack temperature- controller standard for the A319/A320/A321 aircraft.

With the accomplishment of this Service Bulletin, the pack temperature-controllers 759A0000-10 will be replaced by the pack temperature-controllers 759C0000-02 which has the automatic anti-icing cycle deleted and therefore needs to be installed in conjunction with the AIV -08.

EVALUATION TABLE			
COMPLIANCE	OPTIONAL	CANCELS INSPECTION SB	NO
POTENTIAL AD	NO	A/C OPERATION AFFECTED	NO
RELIABILITY AFFECTED	NO	PAX COMFORT AFFECTED	NO
COST SAVING	NO	ETOPS AFFECTED	NO

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EVALUATION TABLE			
STRUCTURAL LIFE EXTN	NO	VENDOR SB INVOLVED	NO
KIT PRICE (USD)	NO AIRBUS KIT		

EFFECTIVITY

This Service Bulletin is applicable to this (these) operator(s) :

13Y 55Y ACA ADR AEF AFR AJM ALK AMC ANA AWE AWW BAW BGH BWG C9L CNW CRX CSC CTN
CYP D2F DLH F2I G2X GFA GWI GWY HEJ HVN I2L IAC IBE JET KAC LAJ LAO LBT LXR MLD
MON MSR MXA MYT NWA OHY P2C RJA RML RNV RYN S2A SSV TAI TAM TAP TAR TCW TNA UAL
UKM VKG VLE

CONCURRENT REQUIREMENTS

Service Bulletin(s) to be accomplished previously or simultaneously :

Service Bulletin No. A320-21-1058 Mod. No. 23143K2664

Service Bulletin No. A320-21-1065 Mod. No. none

Service Bulletin No. A320-21-1082 Mod. No. 24094K3554

REFERENCES/REPERCUSSIONS

TFU : 21.61.41.001
OEB : None
AOT : None
SIL : None
LIFE LIMIT : None
LINE MAINTENANCE AFFECTED : No
OTHERS : None

NATURE OF THE WORK

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

MANPOWER

TOTAL MANHOURS 1.75
ELAPSED TIME (HOURS) 1.75

MATERIAL INFORMATION

AIRCRAFT DATA

None

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SERVICE BULLETIN SUMMARY

EQUIPMENT DATA

Designation : Pack temperature-controller

Supplier : LIEBHERR-AERO-TECHNIK GMBH

Service Bulletin No. : None

Old Part Number : 759A0000-10

New Part Number : 759C0000-02

Interchangeability code : 03

Mixability : No

NOTE : Interchangeability code 03, two way interchangeable only on A320, if the air conditioning pack has the latest standard anti-ice valve 748A0000-08 (refer to Service Bulletin A320-21-1065). Installation of P/N 759A0000-10 on A319 and A321 is not approved.

APPENDICES

None

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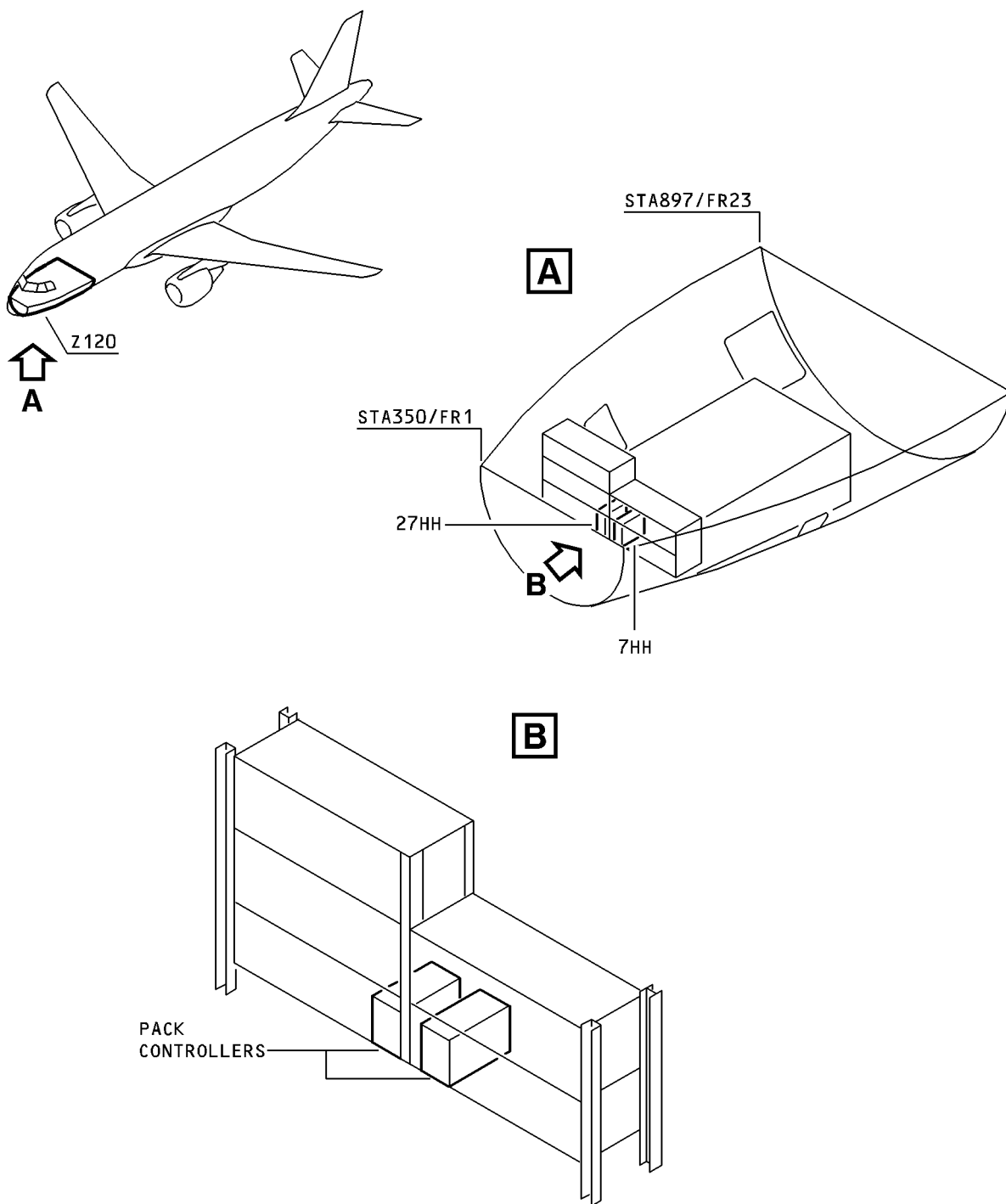
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NB6 21 1106 AAMA-A

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MODIFICATION No. : 23987K3521

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1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Models

320-111 320-211 320-212 320-214 320-231 320-232 320-233

(2) Aircraft

(a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

0002-0008 0010-0014 0016-0078 0080-0091 0093-0104 0106-0363
0365-0373 0375-0384 0386-0411 0413-0432 0435-0457 0459-0467
0469-0472 0475-0476 0478-0480 0482-0483 0485-0487 0489-0492
0496-0497 0499-0501 0503-0504 0506-0508 0510-0512 0523 0525
0527-0528 0530-0531 0533-0534 0537 0539-0540 0542-0543 0545
0547-0549 0551 0553-0554 0556 0558-0559 0561-0562 0565-0566
0568-0569 0571 0573-0575 0577 0579-0580 0582 0584-0585 0587
0589-0590 0592 0594 0596 0601 0603 0605 0607 0611 0613 0615
0617 0619 0622 0624 0626 0632 0662

(b) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting

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from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
13Y	0371
55Y	0525 0579
ACA	0059 0068 0073 0084 0122 0126 0127 0141 0149 0150 0154 0159 0174 0175 0183 0210 0231 0232 0233 0242 0248 0253 0254 0255 0265 0277 0279 0283 0284 0290 0302 0305 0309 0310 0311 0324 0330 0333 0341 0342 0350 0359 0378 0384 0403 0404 0426
ADR	0043 0113 0114
AEF	0565 0575 0580
AFR	0002 0003 0004 0005 0007 0010 0012 0013 0014 0016 0019 0020 0021 0033 0036 0044 0061 0062 0063 0100 0101 0102 0108 0115 0128 0129 0130 0131 0133 0144 0145 0155 0156 0184 0186 0187 0188 0203 0204 0211 0214 0215 0220 0226 0227 0228 0235 0236 0237 0239 0244 0270 0278 0285 0286 0287 0337 0352 0377 0491
AJM	0422 0528 0624 0626
ALK	0304 0315 0406
AMC	0112 0288 0293 0331
ANA	0138 0139 0148 0151 0167 0170 0196 0212 0219 0245 0300 0328 0365 0383 0413 0482 0501 0507 0531 0534 0549 0554
AWE	0052 0053 0054 0055 0064 0065 0066 0067 0076 0077 0081 0082 0091 0098 0099 0238 0271 0317 0448 0455 0471 0527 0543 0584
AWW	0022 0023
BAW	0006 0008 0011 0017 0018 0039 0042 0103 0109 0120
BGH	0029
BWG	0530
C9L	0547 0615 0632 0662
CNW	0533 0548
CRX	0577 0585 0596 0603
CSC	0540 0551 0556 0573 0582
CTN	0258
CYP	0028 0035 0037 0038 0180 0256 0295 0316
D2F	0326 0344 0478
DLH	0069 0070 0078 0083 0093 0094 0104 0110 0111 0116 0117 0135 0137 0161 0162 0172 0200 0201 0202 0209 0216 0217 0218 0267 0268 0269 0346 0401
F2I	0322 0545 0566

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OPERATOR	MSN
G2X	0132 0234
GFA	0325 0375 0409 0419 0421 0438 0445 0459 0466 0497 0537
GWI	0071 0072 0086 0147 0382
GWY	0427
HEJ	0425
HVN	0590 0594 0601 0605 0607 0611 0617 0619
I2L	0542
IAC	0045 0046 0047 0048 0049 0050 0051 0056 0057 0058 0074 0075 0080 0089 0090 0095 0096 0097 0168 0179 0247 0257 0308 0314 0327 0336 0362 0376 0386 0396 0398 0416 0423 0431 0432 0451 0469 0486 0490 0492 0499
IBE	0134 0136 0143 0146 0158 0173 0176 0177 0199 0207 0223 0224 0240 0241 0246 0264 0266 0274 0303 0312 0323 0356
JET	0363 0393 0414
KAC	0181 0182 0195
LAJ	0480
LAO	0024
LBT	0140 0157 0222 0299 0348
LXR	0191 0221 0395
MLD	0622
MON	0379 0389 0391 0392
MSR	0165 0166 0178 0194 0198 0351 0366
MXA	0225 0252 0259 0260 0261 0275 0276 0280 0291 0292 0296 0320 0321 0332 0347 0353 0361 0368 0369 0373 0405 0415 0428 0430 0447 0467
MYT	0163 0164 0169 0193 0230 0338 0349 0424 0429 0437 0444 0449
NWA	0031 0032 0034 0040 0041 0060 0106 0107 0118 0121 0125 0152 0153 0160 0171 0192 0197 0206 0208 0213 0262 0263 0272 0273 0281 0282 0297 0298 0306 0307 0318 0319 0329 0339 0340 0355 0358 0360 0367 0372 0380 0381 0387 0388 0399 0400 0408 0410 0417 0418
OHY	0313 0345
P2C	0025 0030 0142 0553 0559 0562 0574
RJA	0087 0088 0289 0407 0569
RML	0397
RNV	0229
RYN	0460

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OPERATOR	MSN
S2A	0026
SSV	0476 0496
TAI	0461 0558 0561
TAM	0243 0249 0250 0251 0334 0335 0440 0453
TAP	0185
TAR	0119 0123 0124 0205 0370 0390 0402 0511
TCW	0354 0357 0394 0411 0443
TNA	0441
UAL	0435 0439 0442 0450 0452 0454 0456 0457 0462 0463 0464 0465 0470 0472 0475 0479 0483 0485 0487 0489 0500 0503 0504 0506 0508 0510 0512 0523 0539 0568 0571 0587 0589 0592 0613
UKM	0027
VKG	0294 0301
VLE	0085 0189 0190 0343 0420 0436 0446

This modification is embodied before delivery on aircraft MSN 628 and subsequent.

(c) Effectivity by MSN and Kit/Configuration

None

(3) Spares

Pack temp. cont. P/N 759A0000-10

B. CONCURRENT REQUIREMENTS

Service Bulletin(s) to be accomplished previously or simultaneously :

Service Bulletin No. A320-21-1058 Mod. No. 23143K2664
Service Bulletin No. A320-21-1065 Mod. No. none
Service Bulletin No. A320-21-1082 Mod. No. 24094K3554

C. REASON

(1) History

The original de-ice function of the air conditioning packs was achieved by the anti-ice valve (AIV) via a pressure drop measurement across the condenser. Due to sticky behavior of the AIV 748A0000-05, this function was not properly achieved, resulting in reliability deterioration for some Environmental Control System (ECS) components.

As an immediate means to assure a proper de-icing of the condenser, an automatic anti-icing cycle has been implemented with the pack

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temperature-controller 759A0000-08. The cycle consist of a software-commanded opening of the bypass valve in defined intervals. This BPV opening preventively melts off potential ice built up.

Later, an improved anti-ice valve 748A0000-08 has been introduced (via SB 21-1065) and it is proposed to install it instead of the modified pack temperature-controller 759A0000-08 up to 759A0000-10 so that the de-ice function of the air conditioning pack is again achieved by the anti-ice valve and no longer by the pack temperature-controller.

(2) Objective/Action

The accomplishment of this Service Bulletin will allow a common pack temperature-controller standard for the A319/A320/A321 aircraft.

(3) Advantages

With the accomplishment of this Service Bulletin, the pack temperature-controllers 759A0000-10 will be replaced by the pack temperature-controllers 759C0000-02 which has the automatic anti-icing cycle deleted and therefore needs to be installed in conjunction with the AIV -08.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Replace the pack temperature-controllers 7HH and 27HH.

E. COMPLIANCE

- (1) Classification

Optional

- (2) Accomplishment Timescale

In accordance with operators' maintenance schedule.

F. APPROVAL

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

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining



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approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operators' circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying time for paints, sealants, etc. and general administration work are also not included.

Get Access	0.50
Modification	0.50
Test	0.50
Close-up	0.25
TOTAL MANHOURS	1.75
ELAPSED TIME (HOURS)	1.75

H. WEIGHT AND BALANCE

None

I. ELECTRICAL LOAD DATA

Not changed

J. REFERENCES

Aircraft Maintenance Manual (AMM)	: 12-34-24, 21-61-00, 21-61-34
Service Bulletin (SB)	: A320-21-1058, A320-21-1065, A320-21-1082

K. PUBLICATIONS AFFECTED

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

L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
Pack temp. cont.	759A0000-10	759C0000-02	03	NO

NOTE (1) Interchangeability code 03, two way interchangeable only on A320, if the air conditioning pack has the latest standard anti-ice valve 748A0000-08 (refer to Service Bulletin

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A320-21-1065). Installation of P/N 759A0000-10 on A319 and A321 is not approved.

NOTE (2) For the definitions of interchangeability codes in the column INT. refer to ATA 200 Chapter 1A-2.

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2. MATERIAL INFORMATION

A. MATERIAL – PRICE AND AVAILABILITY

(1) Material

Vendor parts are to be purchased from :

LIEBHERR-AERO-TECHNIK GMBH
POSTFACH 1363
88153 LINDENBERG
GERMANY
TEL.: 08381-46-0
TELEX: 83818123

(2) Price and Availability

Sales terms for the equipment must be negotiated with the equipment vendor.

B. INDUSTRY SUPPORT INFORMATION

Refer to paragraph 2.A.(2): "Price and Availability".

C. LIST OF COMPONENTS

None

D. LIST OF MATERIALS – OPERATOR SUPPLIED

(1) Consumable Materials

None

(2) Components

ITEM	NEW PART No.	QTY	UM	KEYWORD	ITEM	OLD PART No.	INT	INST	DISP
	759C0000-02	2		CONTROLL		759A0000-10	03		

NOTE (1) Interchangeability code 03, two way interchangeable only on A320, if the air conditioning pack has the latest standard anti-ice valve 748A0000-08 (refer to Service Bulletin A320-21-1065). Installation of P/N 759A0000-10 on A319 and A321 is not approved.

NOTE (2) For the definitions of interchangeability codes in the column INT. refer to ATA 200 Chapter 1A-2.

E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

None

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F. TOOLING – PRICE AND AVAILABILITY

None

G. SPECIAL TOOLS

None

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3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

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

(1) Preparation

- (a) Make sure that the aircraft is electrically grounded, refer to AMM 12-34-24 Page block 201.
- (b) Open, safety and tag the applicable circuit breakers as given in the AMM 21-61-34 Page block 401.
- (c) Put an access platform in position at the access door 811.
- (d) Open the access door 811.

(2) Standard Practices

None

B. MODIFICATION

(1) Replace the pack temperature-controllers (7HH) and (27HH).

- (a) Remove and send to stores the pack temperature-controllers P/N 759A0000-10, as given in the AMM 21-61-34 Page block 401.
- (b) Install the new pack temperature-controllers P/N 759C0000-02, as given in the AMM 21-61-34 Page block 401.

C. TEST

- (1) Do an operational test of the pack temperature-control system as given in the AMM 21-61-00 Page block 501.

D. CLOSE UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Close the access door 811.
- (3) Remove the access platform.

E. DOCUMENTATION

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



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SERVICE BULLETIN REPORTING SHEET

TITLE : AIR CONDITION - PACK TEMPERATURE CONTROL - INSTALL IMPROVED PACK
TEMPERATURE-CONTROLLERS (7HH AND 27HH)

MODIFICATION No. : 23987K3521

Please complete the appropriate item (A or B):

A - SB WILL BE embodied YES/NO (if NO please comment)
If YES, aircraft concerned (as per SB effectivity by default) and planned dates
(month/year) of embodiment:

B - SB HAS BEEN embodied on aircraft:
.
.

Operator comments:
.
.

From Airline:
Name/Title:
Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If
information is needed prior to next normal revision or prior to SB embodiment,
please indicate required service(s):

Either: Advance Data YES/NO
Or : Intermediate/Temporary revision. YES/NO

Important Information: This SB will only be incorporated in your maintenance and
operational documentation if this sheet is returned to Airbus and signed by a
duly authorised representative. With the next feasible revision, this will
result in

- updating of maintenance documentation to show pre and post SB data.
- updating of maintenance and operational documentation to show post SB data
after embodiment.

If this SB requires previous or simultaneous accomplishment of other SBs,
Airbus shall automatically include them in the manual revisions. Refer to SIL
00-037 for detailed information.

Please return this completed sheet to:

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Attn: SDC32 Technical Data and Documentation Services
FAX: (+33) 5 61 93 28 06
or via your Resident Customer Support Office.

Alternatively, SB lists via letters or fax are also accepted.



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SERVICE BULLETIN QUALITY PERCEPTION FORM

Use this form to tell us what is your perception of the quality of this Service Bulletin. The reported data that you provide us will be used to analyse areas of difficulties and to take corrective action to further improve the quality of our Service Bulletins.

We thank you for the time you have taken in completing this form.

(Please rate on a scale of 1 to 4, with 4 being the highest score)

- | | | | | |
|---|-------|---|---|---|
| - Quality rating of this SB | 4 | 3 | 2 | 1 |
| - Quality rating of the Accomplishment Instructions | 4 | 3 | 2 | 1 |
| - Quality rating of the Illustrations | 4 | 3 | 2 | 1 |
| - Is this SB easy to understand ? | Y / N | | | |

If you have had difficulties in the accomplishment of this SB please quote below the area(s) and give a short description of the issue.

Planning	Material	Instructions
X Effectivity	X Kit content	X Preparation
X Reason	X List of Materials	X Mod/Inspection
X Manpower	Operator Supplied	X Test
X References	X Re-identification	X Close-Up
X Publication	X Tooling	X Illustrations

Comments :

Operator :

Date:

Name/Title :

Please return this form to :

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CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
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Attn : SET1 Service Bulletins Management
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.