



# A318/A319/A320/A321

## SERVICE BULLETIN SUMMARY

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

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

ATA SYSTEM : 21

TITLE : AIR CONDITIONING - PACK TEMPERATURE CONTROL - INSTALL IMPROVED AIR COND.  
SYSTEM CONTROLLER PN 1803B0000-01

MODIFICATION No. : 34428K9458

### REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

In-Service experience and the resulting detailed investigation of the Air Conditioning System Controller (ACSC) have revealed two potential malfunctions:

- Of the Programmable Logic Device (PLD), which handles the generation of the stepper pulses to the Trim Air Valves (TAV) and the By Pass Valve (BPV), resulting from an inconsistency within the internal power supply voltage of the controller and
- Of one layout variant of the power board of the ACSC. This variant can lead to a trigger of subject failures.

These potential malfunctions are described in the TFU 21.61.34.010.

This Service Bulletin informs operators of the issue of the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02, which details the modification of the ACSC to avoid the above mentioned malfunctions.

After accomplishment of this Service Bulletin the mentioned malfunctions will be prevented and the operation of the ACSC will be improved.

EVALUATION TABLE			
COMPLIANCE	DESIRABLE	CANCELS INSPECTION SB	NO
POTENTIAL AD	NO	A/C OPERATION AFFECTED	NO
RELIABILITY AFFECTED	YES	PAX COMFORT AFFECTED	NO
COST SAVING	NO	ETOPS AFFECTED	NO
STRUCTURAL LIFE EXTN	NO	VENDOR SB INVOLVED	YES
KIT PRICE (USD)	SEE SB		

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## SERVICE BULLETIN SUMMARY

### EFFECTIVITY

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

AFR EZY FFT

### CONCURRENT REQUIREMENTS

None

### REFERENCES/REPERCUSSIONS

TFU	: 21.61.34.010
OEB	: None
AOT	: None
SIL	: None
LIFE LIMIT	: None
LINE MAINTENANCE AFFECTED	: No
OTHERS	: None

### NATURE OF THE WORK

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

### MANPOWER

TOTAL MANHOURS	1.75
ELAPSED TIME (HOURS)	1.75

### MATERIAL INFORMATION

AIRCRAFT DATA

ACSC

### APPENDICES

None

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### 1. PLANNING INFORMATION

#### A. EFFECTIVITY

##### (1) Models

318-111 319-111 319-115

##### (2) Aircraft

##### (a) Effectivity by MSN

This Service Bulletin is applicable to aircraft MSN :

1660 1939 1991 2017 2035 2037 2043 2050-2051 2053 2059 2062  
2071 2081 2100 2109 2119-2120 2129 2170 2176 2181 2184 2196  
2213-2214 2218 2224 2228 2230 2245 2249 2251

##### (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 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.

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## SERVICE BULLETIN

OPERATOR MSN

AFR 2035 2059 2071 2081 2100 2109 2213 2228

EZY 2037 2043 2050 2053 2062 2119 2120 2129 2170 2176  
2181 2184 2196 2214 2224 2230 2245 2249 2251

FFT 1660 1939 1991 2017 2051 2218

(c) Effectivity by MSN and Kit/Configuration

None

(3) Spares

None

### B. CONCURRENT REQUIREMENTS

None

### C. REASON

(1) History

In-Service experience and the resulting detailed investigation of the Air Conditioning System Controller (ACSC) have revealed two potential malfunctions:

- Of the Programmable Logic Device (PLD), which handles the generation of the stepper pulses to the Trim Air Valves (TAV) and the By Pass Valve (BPV), resulting from an inconsistency within the internal power supply voltage of the controller and
- Of one layout variant of the power board of the ACSC. This variant can lead to a trigger of subject failures.

These potential malfunctions are described in the TFU 21.61.34.010.

(2) Objective/Action

This Service Bulletin informs operators of the issue of the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02, which details the modification of the ACSC to avoid the above mentioned malfunctions.

(3) Advantages

After accomplishment of this Service Bulletin the mentioned malfunctions will be prevented and the operation of the ACSC will be improved.

(4) Operational/Maintenance Consequences

None

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### D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Remove the ACSC, 47HH and 57HH (P/N 1803A0000-04).
- (2) Return the ACSC, 47HH and 57HH (P/N 1803A0000-04), to the vendor in accordance with the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02.
- (3) Install the modified ACSC, 47HH and 57HH (P/N 1803B0000-01).

### E. COMPLIANCE

- (1) Classification

DESIRABLE

- (2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

### 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 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

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### 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

ESPM : 20-55-00

LIEBHERR AEROSPACE Service Bulletin : 1803A-21-02

### K. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-61-08 21-61-34

### L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART No.	NEW PART No.	INT	MIXABILITY
ACSC	1803A0000-04	1803B0000-01	01	None

NOTE : For definitions of interchangeability codes in column INT. refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

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### 2. MATERIAL INFORMATION

#### A. MATERIAL – PRICE AND AVAILABILITY

##### (1) Material

Modification of removed equipment should be negotiated directly with LIEBHERR AEROSPACE as per instructions given in the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02 .

Vendor parts are to be purchased from:

LIEBHERR AEROSPACE  
P.O. BOX 1363  
D88153 LINDENBERG  
GERMANY  
Tel: +49 (0) 8381 464 304  
Fax: +49 (0) 8381 464 103

##### (2) Price and Availability

Refer to the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02 for the equipment modification sales terms.

#### B. INDUSTRY SUPPORT INFORMATION

Refer to the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02 for the industry support terms.

#### C. LIST OF COMPONENTS

None

#### D. LIST OF MATERIALS – OPERATOR SUPPLIED

None

#### E. PARTS TO BE RE-IDENTIFIED BY THE OPERATOR

ITEM	NEW PART No.	KEYWORD	ITEM	OLD PART No.	INT
	1803B0000-01	ACSC		1803A0000-04	01

NOTE : For definitions of interchangeability codes in column INT. refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

#### 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.

CAUTION : ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE).

WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE. TO DO THIS :

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC. AS NECESSARY ON ELECTRICAL WIRING AND COMPONENTS.
- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.

IN CASE OF CONTAMINATION REFER TO ESPM 20-55-00.

#### (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 related circuit breaker(s), refer to AMM 21-61-34 Page block 401.
- (c) Put the access platform in position at the access door 811.
- (d) Open the access door 811.

#### (2) Standard Practices

None

#### B. MODIFICATION

- (1) Remove the ACSC, 47HH and 57HH (P/N 1803A0000-04), refer to AMM 21-61-34 Page block 401.
- (2) Return the ACSC, 47HH and 57HH (P/N 1803A0000-04), to the vendor in accordance with the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02.

NOTE : Accomplishment of the LIEBHERR AEROSPACE Service Bulletin No. 1803A-21-02 will be done by LIEBHERR AEROSPACE .

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- (3) Install the modified ACSC, 47HH and 57HH (P/N 1803B0000-01), refer to AMM 21-61-34 Page block 401.

### **C. TEST**

- (1) Remove the safety clip(s) and tag(s) and close the related circuit breaker(s), refer to AMM 21-61-34 Page block 401.
- (2) Do the operational test of the Pack Temperature Control System, refer to 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 CONDITIONING - PACK TEMPERATURE CONTROL - INSTALL IMPROVED AIR COND.  
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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:

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

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 :

AIRBUS  
CUSTOMER SERVICES DIRECTORATE  
1 Rond Point Maurice Bellonte  
31707 BLAGNAC  
Attn : SET1 Service Bulletins Management  
FAX : (33) 5 61 93 42 51

Or via your Resident Customer Support Office.

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