@ Ac18/Ac16/Ac20/Ac21

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

OEB

AOT

SIL

LIFE LIMIT

: 21 .61 .34 .010

: None

: None

: None

: 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

1 .75

ELAPSED TIME (HOURS)

MATERIAL INFORMATION

AIRCRAFT DATA

ACSC

APPENDICES

None

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AIRBUS

CUSTOMER SERVICES DIRECTORATE

1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

Tel : (33) 5 61 93 33 33

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ATA SYSTEM : 21

TITLE : AIR CONDITIONING - PACK TEMPERATURE CONTROL - INSTALL IMPROVED AIR COND .

SYSTEM CONTROLLER PN 1803B0000-01

MODIFICATION No . : 34428K9458

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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

AFR

EZY

FFT

MSN

2035

2037

2181

1660

2059 2071 2081 2100 2109 2213 2228

2043 2050 2053 2062 2119 2120 2129 2170 2176

2184 2196 2214 2224 2230 2245 2249 2251

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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SERVICE BULLETIN

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

Modification

Test

Close-up

TOTAL MANHOURS

ELAPSED TIME (HOURS)

0 . 50

0 . 50

0 . 50

0 .25

1 .75

1 .75

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H . WEIGHT AND BALANCE

None

I . ELECTRICAL LOAD DATA

Not changed

J . REFERENCES

Aircraft Maintenance Manual (AMM)

ESPM

LIEBHERR AEROSPACE Service Bulletin

K . PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC)

L . INTERCHANGEABILITY/MIXABILITY

: 12-34-24 21-61-00 21-61-34

: 20- 55-00

: 1803A-21-02

: 21-61-08 21-61-34

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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SERVICE BULLETIN

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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SERVICE BULLETIN

(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 .

SYSTEM CONTROLLER PN 1803B0000-01

MODIFICATION No . : 34428K9458

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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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

X Effectivity

X Reason

X Manpower

X References

X Publication

Comments :

Material

X Kit content

X List of Materials

Operator Supplied

X Re-identification

X Tooling

Instructions

X Preparation

X Mod/Inspection

X Test

X Close-Up

X Illustrations

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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