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SERVICE BULLETIN

TBM AIRCRAFT

SB 70-226

21

ATA No.

RECOMMENDED

The technical content of this document is approved
under the authority of DOA No. EASA.21J.013

SUBJECT : GAS CONTROLLER UPGRADE

REFERENCE : MODIFICATION SHEET No. MOD70-0454-21

EFFECTIVITY : TBM 700 aircraft S/N 434 to 1097

NOTE :

For the other aircraft, the modification MOD70-0454-21 is applied at the factory.

PURPOSE :

A. PROBLEM

Pilot reports of inadequate cabin heating temperature regulation.
Recent increase of "Bleed Off" pilot reports.

B. REASON

GAS system heat protections may cause a "Bleed Off" situation when maximum temperature demand is selected.

C. SOLUTION

Upgrade the GAS controller to provide adequate heating temperature regulation and to reduce possible "Bleed Off" situations.

DESCRIPTION : To change GASC heating control logics.

APPLICATION : On Service Bulletin publication.

WARRANTY : Parts and manhour will be covered under warranty, except cabin inlet overtemperature switch. This campaign will end 1 year and 1 month after the original SB issuance reference date.

PROCURABLE MATERIAL :

- Parts to be ordered from your TBM spare parts distributor.

For aircraft equipped with A300 calculator P/N 82024A030301

Topic	Part number	Description	Qty/aircraft
21-60-07	6046297293	Cabin inlet overtemperature switch P/N 92244B010002	1

CONSUMABLE MATERIAL or OTHER PRODUCTS (Local purchase) :

- None

TOOLS :

- Insertion/Extraction tool M81369/1-02 or equivalent

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MANPOWER :

- 1 aeronautical electrician : 2 hours

TECHNICAL INCIDENCES :

- Not applicable

DESCRIPTION OF ACCOMPLISHMENT INSTRUCTIONS :

NOTE :

Operations required in this Service Bulletin must be accomplished by persons authorized by their Airworthiness Authorities and according to the procedure described hereafter.

A. PREPARATION

- 1) Make sure the "SOURCE" selector is set to "OFF".
- 2) Install the warning sign prohibiting "SOURCE" selector operation

WARNING

**DO NOT OPERATE
MAINTENANCE WORK IN PROGRESS**

- 3) Remove upholstery panels 267 and 268L – refer to Chapter 25–21–01 of the Maintenance Manual.
- 4) Open "AIR COND" circuit breaker.

B. A300 CALCULATOR WIRING MODIFICATION – see Figures 1 and 2

- 1) Disconnect A300–P1, P2, P3 and P4 connectors.

S/N 434 to S/N 684

- 2) Open A300–P4 connector.
- 3) From the wiring harness, retain the wire(s) removed from the connector, then remove heat-shrinkable sleeve used to isolate the contact.
- 4) Using insertion/extraction tool, remove and relocate as follows :
 - HPB71–22 into stud 2.
- 5) Close A300–P4 connector.

S/N 687 to S/N 1097

- 2) Open A300–P2 and P4 connectors.
- 3) In accordance with Figure 2, cut the sheath and open A300–P2 and P4 wirings.
- 4) From the wiring harness, retain the wire(s) removed from the connector, then remove heat-shrinkable sleeve used to isolate the contact.

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5) Using insertion/extraction tool, remove and relocate as follows :

- HPB71-22 into stud 2,
- HNB88-22 into stud 8,
- HBN87-22 into stud 20.

6) Recondition the wiring harness with tie-wraps.

7) Close A300-P2 and P4 connectors.

All

8) Check wiring continuity – refer to Wiring Manual. Take following precautions :

- connect a grounding cable to the aircraft and to an approved ground rod,
- open “AIR COND” circuit breaker,
- check wiring continuity.

C. A300 SOFTWARE UPGRADING

For aircraft Pre-SB70-180-21 equipped with A300 calculator P/N 82024A030301

- 1) Remove and discard S210 switch – refer to Chapter 21-60-07 of the Maintenance Manual.
- 2) Install new S210 switch P/N 6046297293 – refer to Chapter 21-60-07 of the Maintenance Manual.

All

CAUTION

OPERATIONS REQUIRED IN LIEBHERR SERVICE BULLETINS MUST ONLY BE ACCOMPLISHED BY DAHER AUTHORIZED PERSONS

- 3) Contact DAHER to apply LIEBHERR SB No. 82024-21-01 or SB No. 82024A-21-04 at the latest revision on the calculator.

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- 4) The Post–MOD P/N of the calculator is defined according to the table hereunder

LIEBHERR P/N Pre–MOD70–0454–21	LIEBHERR P/N Post–MOD70–0454–21	DAHER P/N Post–MOD70–0454–21
82024 A 030301 82024 A 030401 82024 A 030501	82024 A 030601	6046307230
82024 A 040601	82024 A 040701	6046307229

D. RECONDITIONING

- 1) Close “AIR COND” circuit breaker.
- 2) Install upholstery panels 267 and 268L – refer to Chapter 25–21–01 of the Maintenance Manual.
- 3) Make sure all the tools and materials are removed and the work area is clean and free from debris.
- 4) Remove the warning sign prohibiting “SOURCE” selector operation.

UPDATING OF THE AIRCRAFT DOCUMENTATION :

Upon completion of Service Bulletin No. SB 70–226–21 (Reference MOD70–0454–21 “GAS CONTROLLER UPGRADE”), make an appropriate maintenance record entry.

WARNING : SOCATA considers that it is VERY IMPORTANT for operators to comply with the instructions of this SB.

Operators who arbitrarily ignore the compliance statement indicated in this SB do so at their own risk.

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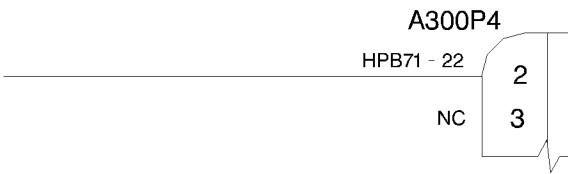
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AVANT MODIFICATION
BEFORE MODIFICATION



APRES MODIFICATION
AFTER MODIFICATION



14210002AAAJMA14600

Figure 1 – S/N 434 to 684 – A300 Calculator wiring modification

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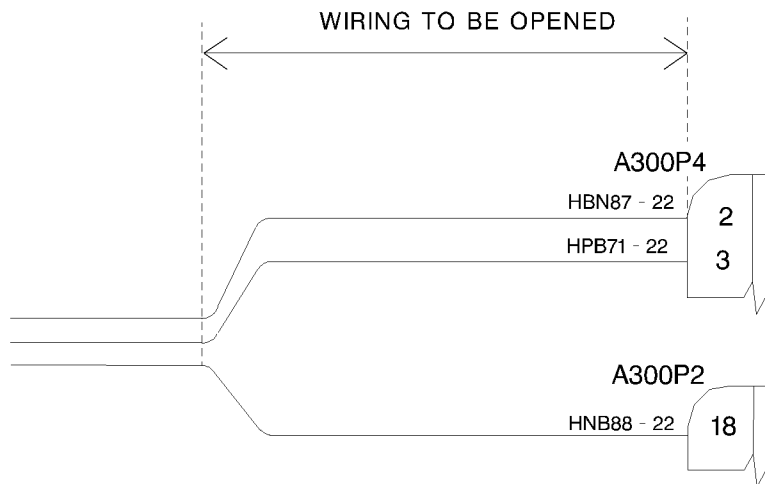
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AVANT MODIFICATION
BEFORE MODIFICATION



APRES MODIFICATION
AFTER MODIFICATION

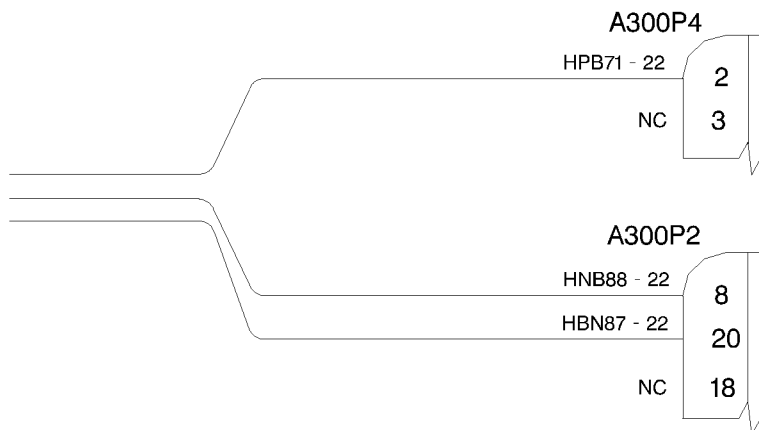


Figure 2 – S/N 687 to 1097 – A300 Calculator wiring modification