

**No. AS350-05.01.00**

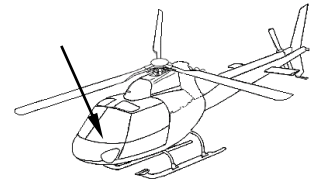
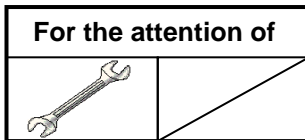
Civil version(s): B2, B3

# ALERT SERVICE BULLETIN

## PROTECTIVE MEASURE

### INDICATING AND RECORDING SYSTEMS - Control unit Inspection of the control panel

ATA: 31



Revision No.	Date of issue
Revision 0	2021-03-31
Revision 1	2023-10-25

### Summary:

The purpose of this ALERT SERVICE BULLETIN is to introduce a periodic cleaning to prevent short-circuit on the control panel printed circuit board.

### Reason for last Revision:

The purpose of the revision 1 of this ALERT SERVICE BULLETIN is to:

- Update the effectivity of the paragraph 1.A.1 to exclude helicopters that have complied with the modification 0720175.
- Precise the amendment of a MP/N.
- Replace cleaning procedure for the printed circuit board by the application of an AMM task.

### Compliance:

It is mandatory to comply with this ALERT SERVICE BULLETIN except for [paragraph 3.D.](#)

### Export Control:

US Export Control - No US content. This Item does not contain any U.S. origin ITAR or EAR content.

FR Export Control - Not Listed. This Item is not listed against the EC regulations in the EU/FR.

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## 1. PLANNING INFORMATION

### 1.A. EFFECTIVITY

#### 1.A.1. Helicopters/installed equipment or parts

Helicopters AS350 POST MOD 073273 and PRE MOD 074280 and PRE MOD 0720175.

#### **NOTE 1**

*Modification 0720175 consists to move the position of the FLOAT FIRE and / or FLOAT ARM pushbutton outside the control panel, to prevent the loss of the emergency floatation gear if there is a control panel failure. The modification 0720175 can be applied in retrofit through the ALERT SERVICE BULLETIN No. 25.04.87 (Movement of the emergency floatation gear pushbutton(s) from the SMS Block to the instrument panel).*

#### **NOTE 2**

*Refer to the Individual Inspection Logbook (RIC AMS) and/or Aircraft Logbook to identify the modification status of the helicopter.*

#### **NOTE 3**

*The control unit P/Ns which correspond to the POST MOD 073273 and PRE MOD 074280 and PRE MOD 0720175 configuration are listed below:*

- 052706AA (704A46580115),
- 052706B or 052706B-A (704A46580118),
- 074102AA (704A46580122),
- 052706CA (704A46580123),
- 101801AA (704A46580129),
- 104101AA (704A46580130),
- 304-2613-00 (704A46580140),
- 304-2614-00 (704A46580141),
- 304-2615-00 (704A46580142),
- 304-2616-00 (704A46580143),
- 304-2617-00 (704A46580144).

#### 1.A.2. Non-installed equipment or parts

The control unit P/Ns are:

- 052706AA (704A46580115),
- 052706B or 052706B-A (704A46580118),
- 074102AA (704A46580122),
- 052706CA (704A46580123),
- 101801AA (704A46580129),
- 104101AA (704A46580130),
- 304-2613-00 (704A46580140),
- 304-2614-00 (704A46580141),
- 304-2615-00 (704A46580142),
- 304-2616-00 (704A46580143),
- 304-2617-00 (704A46580144).

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#### 1.B. ASSOCIATED REQUIREMENTS

Not applicable.

#### 1.C. REASON

##### Revision 0:

During a mission on EC130 B4, a strong smell of burning was detected in the cabin with various lights coming on and going off on the Safety Management Systems (SMS) block push buttons and the Caution and Warning Panel lights (CWPL) with their associated audio alarm.

The pilot returned to the base without any further consequences for the mission.

After investigation, the most likely scenario could be dust or FOD on the contacts of the push buttons leads to deteriorate the LACU printed circuit board.

The deterioration of the control panel can lead to the loss of the emergency flotation gear.

Consequently, the purpose of this ALERT SERVICE BULLETIN is to introduce a periodic cleaning to prevent court-circuit on the control panel printed circuit board.

##### Revision 1:

The purpose of the revision 1 of this ALERT SERVICE BULLETIN is to:

- Update the effectivity of the paragraph 1.A.1. to exclude helicopters that have complied with the modification 0720175.
- Precise that the amendment "A" of the MP/N 052706B which has the same P/N 704A46580118, is also applicable to this ALERT SERVICE BULLETIN.
- Replace the cleaning procedure for the printed circuit board by the application of an AMM task.

Revision 1 of this ALERT SERVICE BULLETIN has no effect on the compliance with revision 0 of this ALERT SERVICE BULLETIN.

#### 1.D. DESCRIPTION

The goal of this ALERT SERVICE BULLETIN is to:

- record the position of all the push buttons,
- remove all the push buttons,
- vacuum the printed circuit board,
- make sure that there is no FOD on the contacts of the push buttons,
- install all the push buttons again.

#### 1.E. COMPLIANCE

##### 1.E.1. Compliance at H/C manufacturer level

This paragraph is left empty by intention.

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#### 1.E.2. Compliance in service

Helicopters/installed equipment or parts:

The operator must do the work on the helicopter.

Comply with Table No. 1 below:

Table No. 1			
Configuration	Flight hours (FH)	1 <sup>st</sup> application	Periodicity
Helicopters with emergency flotation gear	Less than 900 FH	Comply with <a href="#">paragraph 3.</a> of this ALERT SERVICE BULLETIN before exceeding 1200 FH.	and, thereafter, comply with <a href="#">paragraph 3.</a> of this ALERT SERVICE BULLETIN at intervals not to exceed 1320 FH.
	More than 900 FH	Comply with <a href="#">paragraph 3.</a> of this ALERT SERVICE BULLETIN not more than 300 flight hours or 12 months (the first limit you get to is applicable) after you received revision 0 of this ALERT SERVICE BULLETIN (refer to the issue date on the page footer).	
Helicopters without emergency flotation gear	Less than 600 FH	Comply with <a href="#">paragraph 3.</a> of this ALERT SERVICE BULLETIN before exceeding 1200 FH.	Refer to <a href="#">paragraph 3.D.</a>
	More than 600 FH	Comply with <a href="#">paragraph 3.</a> of this ALERT SERVICE BULLETIN not more than 600 flight hours or 24 months (the first limit you get to is applicable) after you received revision 0 of this ALERT SERVICE BULLETIN (refer to the issue date on the page footer).	

Non-installed equipment or parts:

Comply with [paragraph 3.B.2.](#) of this ALERT SERVICE BULLETIN before you install the control unit P/N identified in [paragraph 1.A.2.](#)

#### 1.F. APPROVAL



The technical content of this document is approved under the authority of the Design Organization Approval ref. EASA. 21J.700.

The technical content of this document is approved under the prerogatives of the recognition of design capability ref. FRA21J-002-DGA for French Government helicopters.

#### 1.G. MANPOWER



Airbus Helicopters recommends that the personnel who will do this ALERT SERVICE BULLETIN have this qualification:

Qualification:

1 Electrical Technician.



The man-hours are an estimate given for information only and for a standard helicopter configuration.

Estimated Man-hours:

2 hours for the Electrical Technician.



The helicopter downtime is an estimate given for information only and for a standard helicopter configuration.

The estimate of the helicopter downtime is two days.

#### 1.H. WEIGHT AND BALANCE

Not applicable.

#### 1.I. POWER CONSUMPTION

Not applicable.

#### 1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

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#### 1.K. REFERENCES

These documents are necessary to comply with this ALERT SERVICE BULLETIN:

Standard Practices Manual (MTC):

MTC: 20-07-02-201: Helicopter parked in a repair shop - Safety instructions

MTC: 20-07-03-406: Instructions applicable when working on an aircraft electrical circuit and power generating systems - Technical instructions

MTC: 20-07-03-408: Appearance checks on an aircraft after an inspection or repair - Technical instructions

Aircraft Maintenance Manual (AMM):

AMM: 24-00-00,3-1: General Instructions - Electrical Systems - Electrical power

AMM: 31-42-00,7-1: Cleaning - Printed circuit board - Control Unit

Information Notice (IN):

IN: 3785-I-00: Introduction of the digital Service Bulletin reporting service SB Insight

#### 1.L. OTHER AFFECTED PUBLICATIONS



For AS350 B2 helicopters:

The inspection has been integrated into the Master Servicing Manual (MSM) and the Aircraft Maintenance Manual (AMM).

For AS350 B3 helicopters:

- The inspection has been integrated into the AMM.
- The inspection will be integrated into the MSM.
- The MSM will be updated during one of the next revisions.

#### 1.M. PART INTERCHANGEABILITY OR MIXABILITY

Not applicable.

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### 2. EQUIPMENT OR PARTS INFORMATION

#### 2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

Not applicable.

#### 2.B. LOGISTIC INFORMATION

Not applicable.

#### 2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Not applicable.

#### 2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

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## 3. ACCOMPLISHMENT INSTRUCTIONS

### 3.A. GENERAL

- Comply with the instructions on the Instructions applicable when working on an aircraft electrical circuit and power generating systems refer to the Work Card 20-07-03-406 (MTC).
- Comply with the general Safety instructions, refer to the General Safety Instructions Task 24-00-00,3-1 (AMM).

### 3.B. WORK STEPS

#### 3.B.1. Preliminary steps

Park the helicopter in a hangar. Refer to Work Card 20-07-02-201 (MTC).

#### 3.B.2. Procedure

Clean the printed circuit board of the control panel. Refer to Task 31-42-00,7-1 (AMM).

#### **NOTE 1**

*For Non-installed equipments or parts, do not take into account the paragraphs "Job step" and "Close up" of the Task 31-42-00,7-1 (AMM).*

#### 3.B.3. Final steps

Do an aspect check of the helicopter after inspection or repair. Refer to Work Card 20-07-03-408 (MTC).



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#### 3.C. RECORD OF COMPLIANCE

##### Compliance with this document:

Record the full compliance with this ALERT SERVICE BULLETIN, with the revision number, in the helicopter documents.

Record compliance with this ALERT SERVICE BULLETIN (see IN 3785-I-00 for instructions):  
QR code or hypertext link



##### **NOTE 2**

*The recording of compliance with  
ALERT SERVICE BULLETINS in the SB Insight tool does  
not replace the recording in the helicopter documents.*

[ASB AS350-05.01.00](#)

#### 3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

##### Operating instructions:

Not applicable.

##### Maintenance instructions:

For AS350 B2 helicopters without emergency flotation gear, the MSM and the AMM have been updated with the related maintenance, so refer to MSM and AMM.

For AS350 B3 helicopters without emergency flotation gear, comply with Task 31-42-00,7-1 (AMM) (Cleaning - Printed circuit board - Control Unit) of this ALERT SERVICE BULLETIN every 1320FH. The AMM has been updated, so refer to AMM.

The MSM will integrate this maintenance instruction during a future revision.  
When this instruction is integrated, refer to the MSM.