

No. EC120-05A023

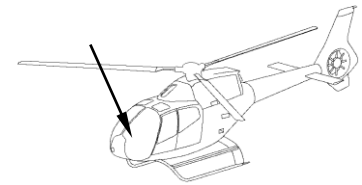
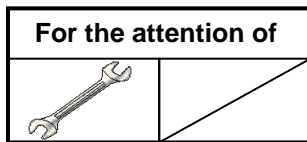
Civil version(s): B

ALERT SERVICE BULLETIN

PROTECTIVE MEASURE

INDICATING AND RECORDING SYSTEMS - Lighting and Ancillaries Control Unit (LACU) Inspection of the LACU

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 LACU 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 ALERT SERVICE BULLETIN No. 25A031 (New Emergency Floatation System (EFS) "FLOAT ARM" push-button location).
- Precise the amendment of a MP/N.
- Replace the 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.

No. EC120-05A023

1. PLANNING INFORMATION

1.A. EFFECTIVITY

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

Helicopters with serial number is from 1399 onward, equipped with the control unit "LACU" P/Ns 040101AB (7050A4314011) or 040101B (7050A4314012) or 040101BA (7050A4314012) or 304-2610-00 (7050A4314013) or 304-2611-00 (7050A4314014),

Or

Helicopters on which Service Bulletin No. 31-004 was complied with.

And

Helicopters that **have not complied** with ALERT SERVICE BULLETIN No. 25A031 (New Emergency Floatation System (EFS) "FLOAT ARM" push-button location).

NOTE

The ALERT SERVICE BULLETIN No. 25A031 (New Emergency Floatation System (EFS) "FLOAT ARM" push-button location) consists to move the Emergency Floatation System (EFS) "FLOAT ARM" push-button from the LACU to allow the use of the EFS function even if the event of a LACU failure.

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

The control unit "LACU" P/Ns are:

- 040101AB (7050A4314011),
- 040101B or 040101BA (7050A4314012),
- 304-2610-00 (7050A4314013),
- 304-2611-00 (7050A4314014).

1.B. ASSOCIATED REQUIREMENTS

Not applicable.

No. EC120-05A023

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 LACU 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 LACU 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 LACU 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 ALERT SERVICE BULLETIN No. 25A031 (New Emergency Flotation System (EFS) "FLOAT ARM" push-button location).
- Precise that the amendment "B" of the MP/N 040101 which has the same P/N 7050A4314012 is also applicable to this ALERT SERVICE BULLETIN.
- Replace 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.

No. EC120-05A023

1.E. COMPLIANCE

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

This paragraph is left empty by intention.

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 st application	Periodicity
Helicopters with emergency flotation gear	Less than 900 FH	Comply with paragraph 3. of this ALERT SERVICE BULLETIN before exceeding 1200 FH.	and, thereafter, comply with paragraph 3. of this ALERT SERVICE BULLETIN at intervals not to exceed 1320 FH.
	More than 900 FH	Comply with paragraph 3. 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 paragraph 3. of this ALERT SERVICE BULLETIN before exceeding 1200 FH.	Refer to paragraph 3.D.
	More than 600 FH	Comply with paragraph 3. 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 "LACU" 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.

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.

No. EC120-05A023

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 Safety Instructions - Electrical Power Supply System

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

Information Notice (IN):

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

1.L. OTHER AFFECTED PUBLICATIONS



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

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Not applicable.

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.

No. EC120-05A023

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 LACU. Refer to Task 31-42-00,7-1 (AMM).

NOTE 1

For Non-installed equipment or parts, do not take into account the paragraphs "Job step" and "Close up" of 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).

No. EC120-05A023

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



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 EC120-05A023](#)

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Operating instructions:

Not applicable.

Maintenance instructions:

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