



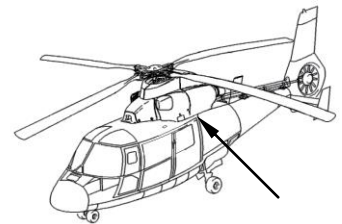
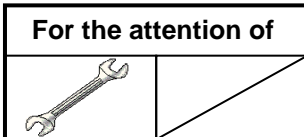
No. AS365-80.00.03

Civil version(s): N, N1, N2, N3
Military version(s): F, Fi, Fs, K, K2

SERVICE BULLETIN

PROTECTIVE MEASURE

STARTING - Generator Starter Update of starter generator maintenance



Revision No.	Date of issue
Revision 0	2021-11-23
Revision 1	2023-07-05

Summary:

The purpose of this Service Bulletin is to give a schedule for the next overhaul, the next installation check and the next brushes check of the starter generator.

Reason for last Revision:

Further to logistic difficulties experienced by the supplier, the purpose of revision 1 of this Service Bulletin is to give an additional compliance time of 18 months to perform the overhaul for the starter generators (SG), with a Time Since New (TSN) between 5 years and 15 years.

Compliance:

Airbus Helicopters recommends that you comply with this Service Bulletin.

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

AS365 helicopters versions F, Fi, Fs, K, K2, N, N1, N2 and N3 that have a starter generator with the Part Number (P/N) 524-031 (704A46101011).

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

Starter generator P/N 524-031 (704A46101011) supplied before the receipt of revision 0 of this Service Bulletin (refer to the issue date on the page footer).

1.B. ASSOCIATED REQUIREMENTS

Not applicable.

1.C. REASON

Revision 0:

A chip warning occurred for the LH engine. After looking at the engine magnetic plugs, many chips were found on the plug of module 1.

After removal of the engine for further inspection, the technician discovered a lot of chips on the starter generator pinion and an excessive play on the drive shaft.

Following these events, Airbus Helicopters updates the maintenance of the starter generator P/N 524-031 as described below:

- For all versions except Fs version:

- . Decrease the (Time Between Overhaul) TBO from 3000 flight hours (FH) (300 FH margin) to 1200 FH (20 FH margin) and introduce a 60-months calendar limit,
- . Decrease the installation check from 1200 FH (120 FH margin) to 600 FH (60 FH margin).

- For Fs version only:

- . Decrease the (Time Between Overhaul) TBO from 3000 flight hours (FH) (300 FH margin) to 1200 FH (20 FH margin) and introduce a 60-months calendar limit,
- . Decrease the installation check from 3600 FH (300 FH margin) to 400 FH (40 FH margin),
- . Decrease the brushes check from 800 FH (80 FH margin) to 400 FH (40 FH margin).

Following this maintenance updating, Airbus Helicopters has defined a schedule for compliance with the next overhaul, the next installation check and the next brushes check of the starter generator as per this Service Bulletin.

Revision 1:

Further to logistic difficulties experienced by the supplier, the purpose of revision 1 of this Service Bulletin is to give an additional compliance time of 18 months to perform the overhaul for the starter generators (SG), with a Time Since New (TSN) between 5 years and 15 years.

Revision 1 of this Service Bulletin has no effect on the compliance with revision 0 of this Service Bulletin.

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1.D. DESCRIPTION

This Service Bulletin consists to give a schedule for the next overhaul, the next installation check and the next brushes check of the starter generator (SG).

1.E. COMPLIANCE

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

Not applicable.

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1.E.2. Compliance in service

Helicopters/installed equipment or parts:

It is the operator who does the work on the helicopter.

1.E.2.a. Overhaul

Airbus Helicopters recommends that you comply with the limits of the Table No.1 (for all versions except Fs version) or Table No. 2 (for Fs version only) for the next overhaul of the SG.

Table No. 1 (for all versions except Fs version)		
Number of FH of the SG Age of the SG	If Time Since New (TSN) or last overhaul of the SG is less than or equal to 1650 FH, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	If TSN or last overhaul is more than 1650 FH, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).
TSN or last overhaul of the SG is less than or equal to 5 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1650 FH or 8Y after production or last overhaul (the first limit you get to is applicable).	Do the overhaul not more than 3300 FH or 8Y after production or last overhaul (the first limit you get to is applicable).
TSN or last overhaul of the SG is more than 5 years and less than or equal to 8 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1650 FH after production or last overhaul or 54 Months (M) (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 54 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).
TSN or last overhaul of the SG is more than 8 years and less than or equal to 10 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1650 FH after production or last overhaul or 42 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 42 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).
TSN or last overhaul of the SG is more than 10 years and less than or equal to 15 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1650 FH after production or last overhaul or 30 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 30 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).
TSN or last overhaul of the SG is more than 15 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1650 FH after production or last overhaul or 6 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 6 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).

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Table No. 2 (for Fs version only)		
Number of FH of the SG Age of the SG	If Time Since New (TSN) or last overhaul of the SG is less than or equal to 1500 FH, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	If TSN or last overhaul is more than 1500 FH, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).
TSN or last overhaul of the SG is less than or equal to 5 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1500 FH or 8Y after production or last overhaul (the first limit you get to is applicable).	Do the overhaul not more than 3300 FH or 8Y after production or last overhaul (the first limit you get to is applicable).
TSN or last overhaul of the SG is more than 5 years and less than or equal to 8 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1500 FH after production or last overhaul or 54 Months (M) (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 54 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).
TSN or last overhaul of the SG is more than 8 years and less than or equal to 10 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1500 FH after production or last overhaul or 42 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 42 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).
TSN or last overhaul of the SG is more than 10 years and less than or equal to 15 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1500 FH after production or last overhaul or 30 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 30 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).
TSN or last overhaul of the SG is more than 15 years, when you received revision 0 of this Service Bulletin (refer to the date on the page footer).	Do the overhaul not more than 1500 FH after production or last overhaul or 6 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).	Do the overhaul not more than 3300 FH after production or last overhaul or 6 M (the first limit you get to is applicable) after you received revision 0 of this Service Bulletin (refer to issue date on the page footer).

Then refer to the Master Servicing Manual (MSM) issued with date code:

- 2022-03-07 or any further date code for helicopters versions F, Fi, Fs, K and K2.
 - 2022-02-08 or any further date code for helicopters versions N, N1, N2 and N3.
- to do the overhaul of the SG.

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1.E.2.b. Installation check

- For all versions except Fs version:
 - . Airbus Helicopters recommends that you comply with the next installation check not more than 1320 FH after production or last installation check.
- For Fs version only:
 - . Airbus Helicopters recommends that you comply with the next installation check not more than 3900 FH after production or last installation check.

Then refer to the MSM issued with date code:

- 2022-03-07 or any further date code for helicopters versions F, Fi, Fs, K and K2.
- 2022-02-08 or any further date code for helicopters versions N, N1, N2 and N3.
to do the installation check of the SG.

1.E.2.c. Brushes check (for Fs version only)

Airbus Helicopters recommends that you comply with the next brushes check not more than 880 FH after production or last brushes check.
Then refer to the MSM issued with date code 2022-03-07 or any further date code to do the brushes check of the SG.

Non-installed equipment or parts:

It is the operator who does the work on non-installed equipment.

Before installation, make sure that the limits for the next SG overhaul, installation check or brushes check are not more than the limits specified for "Helicopters/installed equipment or parts" (above).

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.

The technical content of this document is approved by Airbus Helicopters Airworthiness Department for export military versions.

1.G. MANPOWER

Not applicable.

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1.H. WEIGHT AND BALANCE

Not applicable.

1.I. POWER CONSUMPTION

Not applicable.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

This document is necessary to comply with this Service Bulletin:

Information Notice (IN):

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

1.L. OTHER AFFECTED PUBLICATIONS

Not applicable.

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

Not applicable.

3.B. WORK STEPS

Not applicable.

3.C. RECORD OF COMPLIANCE

Compliance with this document:

- Record the full compliance with this Service Bulletin, with the revision number, in the helicopter documents.
- Record compliance with this Service Bulletin (see IN 3785-I-00 for instructions):
QR code or hypertext link



NOTE

The recording of compliance with Service Bulletins in the SB Insight tool does not replace the recording in the helicopter documents.

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3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.