



Civil version(s): B, B1

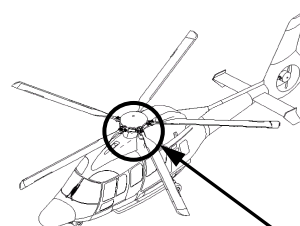
ALERT SERVICE BULLETIN

PROTECTIVE MEASURE

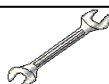
LIMITATIONS - Main rotor head

Reduction in service life limit of rotor mast bearing spacer

ATA: 62



For the attention of



Revision No.	Date of issue
Revision 0	2017-10-20
Revision 1	2018-03-26

Summary:

Airbus Helicopters introduces this ALERT SERVICE BULLETIN to reduce the Service Life Limit (SLL) of the rotor mast bearing spacer on helicopters POST MOD 0762B88, from 13700 Flight Hours (FH) to 3300 FH.

Reason for last Revision:

Revision 1 of this Service Bulletin corrects the citation of the Aircraft Maintenance Manual (AMM) Task mentioned in this ALERT SERVICE BULLETIN, simplifies the Summary of this ALERT SERVICE BULLETIN, corrects the part numbers of the non-installed main rotor head assemblies and adds clarity to the applicability, reason and compliance requirements.

Revision 1 of this ALERT SERVICE BULLETIN affects the compliance with revision 0 of this ALERT SERVICE BULLETIN.

Compliance:

Airbus Helicopters considers that compliance with the instructions contained in this ALERT SERVICE BULLETIN is essential.

1. PLANNING INFORMATION

1.A. EFFECTIVITY

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

Helicopters:

- POST MOD 0762B88 (Rotor shaft nut with reinforced tightening load),
- equipped with rotor mast bearing spacer part number (P/N) 365A31-4527-01.

NOTE 1

Modification 0762B88 is available through Service Bulletin No. 62-007.

The modification includes replacing rotor mast bearing spacer from P/N: 365A31-4527-00 to P/N: 365A31-4527-01.

NOTE 2

Refer to the Individual Inspection Log Book (RIC AMS) and/or Aircraft Log Book to identify the actual modification status of the helicopter.

Helicopters which have complied with revision 0 of this ALERT SERVICE BULLETIN are not concerned by revision 1 of this ALERT SERVICE BULLETIN.

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

Rotor mast bearing spacer P/N: 365A31-4527-01.

Main rotor head assemblies of the following P/Ns:

- 365A31-4500-02X,
- 365A31-4500-04X,
- 365A31-4500-06X,
- 365A31-4500-08X.

NOTE 3

The "X" in the part numbers above denotes the configuration of the main rotor head assembly. Refer to the Illustrated Parts Catalog (IPC) and/or Equipment Log Card (FM) to identify the actual configuration of the main rotor head assembly.

Main rotor head assemblies who have complied with revision 0 of this ALERT SERVICE BULLETIN and have not replaced the rotor mast bearing spacer are concerned by revision 1 of this ALERT SERVICE BULLETIN.

Rotor mast bearing spacers which are not installed in the main rotor head assemblies and have complied with revision 0 of this ALERT SERVICE BULLETIN are not concerned by revision 1 of this ALERT SERVICE BULLETIN.

1.B. ASSOCIATED REQUIREMENTS

Not applicable.

1.C. REASONRevision 0:

During overhaul maintenance of the main rotor shaft assembly, a crack was found on the rotor mast bearing spacer. This rotor mast bearing spacer, which holds the mast bearing of the main rotor head assembly in place and participates in lift loads transmission from the main rotor head to the conical housing, is secured onto the main rotor head assembly by eighteen pressure bolts.

Investigations show that the crack started due to the high pressure contact between the pressure bolts and the rotor mast bearing spacer. The propagation of the crack is slow and will stop in the middle of the rotor mast bearing spacer, close to the phonic wheel support. This does not jeopardize the function of the rotor mast bearing spacer and flight safety.

Therefore Airbus Helicopters introduces this ALERT SERVICE BULLETIN to reduce the SLL of the rotor mast bearing spacer on helicopters POST MOD 0762B88, from 13700 FH to 3300 FH. Although the SLL of the rotor mast bearing spacer has been reduced, Airbus Helicopters allows the replacement of the rotor mast bearing spacer at the next removal of the rotor mast bearing spacer during the detailed inspection of the main rotor head assembly as per Task 62-20-00-223 (AMM).

Although the safety level of the aircraft is compliant with the airworthiness regulations, the issue of this ALERT SERVICE BULLETIN ensures improvement of the Airbus Helicopters safety standards.

Revision 1:

Revision 1 of this ALERT SERVICE BULLETIN corrects the citation of the Aircraft Maintenance Manual (AMM) Task mentioned in this ALERT SERVICE BULLETIN, simplifies the Summary of this ALERT SERVICE BULLETIN, corrects the part numbers of the non-installed main rotor head assemblies and adds clarity to the applicability, reason and compliance requirements.

In addition, revision 1 of this ALERT SERVICE BULLETIN also standardizes the designation of the equipment according to the maintenance manual, and removes redundant instruction to replace pressure bolts since this instruction is already present in the Aircraft Maintenance Manual (AMM) Task concerned.

Revision 1 of this ALERT SERVICE BULLETIN affects compliance with revision 0 of this ALERT SERVICE BULLETIN.

1.D. DESCRIPTION

This ALERT SERVICE BULLETIN consists of reducing the SLL of the rotor mast bearing spacer to 3300 FH (without any margin).

1.E. COMPLIANCE

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

Not applicable.

1.E.2. Compliance in service

Helicopters/installed equipment or parts:

The works must be performed on the helicopter by Operator.

Replace rotor mast bearing spacer P/N: 365A31-4527-01 at the time of the next removal of the rotor mast bearing spacer without exceeding 13700 FH, as from receipt of this ALERT SERVICE BULLETIN published at the date mentioned in page footer.

Non-installed equipment or parts:

The work must be performed on non-installed equipment by Operator.

Upon receipt of this ALERT SERVICE BULLETIN, check the flight hours logged by the rotor mast bearing spacer P/N: 365A31-4527-01 installed in the main rotor head assemblies identified in paragraph 1.A.2. of this ALERT SERVICE BULLETIN:

- for rotor mast bearing spacer that has logged more than 3300 FH, replace rotor mast bearing spacer,
- for rotor mast bearing spacer that has not logged more than 3300 FH, replace the rotor mast bearing spacer at the next removal of the rotor mast bearing spacer during the detailed inspection of the main rotor head assembly as per Task 62-20-00-223 (AMM) without exceeding 13700 FH.

NOTE 4

The detailed inspection of the main rotor head assembly as per Task 62-20-00-223 (AMM) includes disassembly of the flared housing. This disassembly requires the removal of the flared housing, which in turn, includes the removal of the rotor mast bearing spacer.

Upon receipt of this ALERT SERVICE BULLETIN, scrap stocks of rotor mast bearing spacer P/N: 365A31-4527-01 that has logged more than 3300 FH.

1.F. APPROVAL

Approval of modifications:

Not applicable.



Approval of this document:

The technical information contained in this ALERT SERVICE BULLETIN Revision 0 was approved on October 20, 2017 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

The technical information contained in this ALERT SERVICE BULLETIN Revision 1 was approved on March 23, 2018 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

1.G. MANPOWER

For compliance with this ALERT SERVICE BULLETIN, Airbus Helicopters recommends the following personnel qualifications:

Qualification: 1 Mechanical Technician.

1.H. WEIGHT AND BALANCE

Not applicable.

1.I. POWER CONSUMPTION

Not applicable.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

Not applicable.

1.L. OTHER AFFECTED PUBLICATIONS**CAUTION**

TO COMPLY WITH THIS ALERT SERVICE BULLETIN, THE OPERATOR MUST ENSURE THAT ALL THE MAINTENANCE DOCUMENTS REQUIRED FOR THE MAINTENANCE OF THIS INSTALLATION ARE AVAILABLE. OTHERWISE, IT IS THE OPERATOR'S RESPONSIBILITY TO PROCURE THE PUBLICATIONS VIA THE USUAL AIRBUS HELICOPTERS CONTACT.

Publications to be updated:

This ALERT SERVICE BULLETIN will give rise to modification of the Airworthiness Limitations Section (ALS) by Airbus Helicopters.

These documents will be circulated at a later date.

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.

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

Not applicable.

3.B. WORK STEPS

Not applicable.

3.C. COMPLIANCE CONFIRMATION

Compliance with this document:

Record full compliance with this ALERT SERVICE BULLETIN No. 04A015 revision 1 in the helicopter documents.

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Operating instructions:

Not applicable.

Maintenance instructions:

Scheduled:

Comply with the new SLL as follows:

Description	Manufacturer Part Number (MP/N)	Previous SLL	New SLL	Margin
Rotor mast bearing spacer	365A31-4527-01	13700 FH	3300 FH	0

Unscheduled:

Refer to Aircraft Maintenance Manual (AMM) in effect.

The Airworthiness Limitations Section (ALS) will incorporate these instructions during a next revision. Further to incorporation of these instructions in the Airworthiness Limitations Section (ALS), refer to this manual.