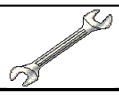


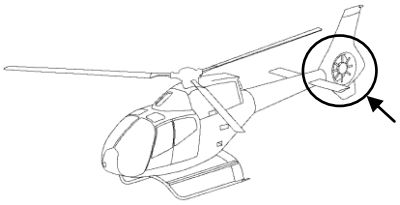
Civil version: B

ALERT SERVICE BULLETIN

CORRECTIVE MEASURE

LIMITATIONS - Tail Rotor Hub
Introduction of a new part number and re-identification of the Equipped Blades of the Tail Rotor Hub
ATA: 64

For the attention of




Revision No.	Date of issue
Revision 0	2018-07-18

Summary:

As the manufacturing process for the equipped blades has changed, Airbus Helicopters has introduced a new part number for these equipped blades.

This ALERT SERVICE BULLETIN makes their re-identification mandatory, without affecting the Service Life Limit (SLL) of the equipped blades mentioned in the Airworthiness Limitations Section (ALS).

Compliance:

Compliance with this ALERT SERVICE BULLETIN is mandatory.

1. PLANNING INFORMATION

1.A. EFFECTIVITY

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

EC120 version B helicopters with equipped blades part number C642A0300103 whose serial numbers are listed in Appendix 4.A.,

NOTE 1

Refer to the Log Card of the Tail Rotor Hub (TRH) to identify the actual modification status of the helicopter.

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

- Equipped blade P/N C642A0300103 whose serial numbers are listed in Appendix 4.A.
- Tail Rotor Hub P/N C642A0110054 or C642A0110056 equipped with at least one blade P/N C642A0300103.



P/N
Serial number

NOTE 2

The part number and serial number of the equipped blade can be found on:
- the equipped blade,
- Form1 for the equipped blade,
- the Tail Rotor Hub Log Card.

The figure above is provided for reference, to show the location of the part number and serial number on an equipped blade.

1.B. ASSOCIATED REQUIREMENTS

Not applicable.

1.C. REASON

As the manufacturing process for the equipped blades has changed, Airbus Helicopters has introduced a new part number for these equipped blades.

This ALERT SERVICE BULLETIN makes their re-identification mandatory, without affecting the Service Life Limit (SLL) of the equipped blades mentioned in the Airworthiness Limitations Section (ALS).

1.D. DESCRIPTION

This ALERT SERVICE BULLETIN consists in:
- checking the part number of the equipped blades of the Tail Rotor Hub (C642A0300103 + serial number) and the associated Tail Rotor Hubs,
- completing the Tail Rotor Hub Log Card for the equipped blades concerned,
- re-identifying the equipped blades of the Tail Rotor Hubs concerned.

1.E. COMPLIANCE

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

Helicopters/Installed equipment or parts:

Not applicable.

Non-installed equipment or parts:

Before delivery of the equipped blades refer to Form1 to check the part number and the serial numbers of the equipped blades in stock. Compare the serial numbers of the equipped blades with the list of serial numbers in Appendix 4.A. to determine whether they are concerned:

- for the serial numbers concerned:
  . comply with paragraph 3.B.2. of this ALERT SERVICE BULLETIN,
  . edit a new Form 1.

Before delivery of the Tail Rotor Hub refer to log card for the Tail Rotor Hub to check the part number and the serial numbers of the equipped blades. Compare the serial numbers of the equipped blades with the list of serial numbers in Appendix 4.A. to determine whether they are concerned:

- for the serial numbers concerned, Airbus Helicopters makes compliance with paragraph 3. of this ALERT SERVICE BULLETIN mandatory.

1.E.2. Compliance in service

Helicopters/installed equipment or parts:

Airbus Helicopters makes compliance with this ALERT SERVICE BULLETIN mandatory.

The work on the helicopter is to be performed by the operator.

- Within 12 months from receipt of this ALERT SERVICE BULLETIN, issued on the date indicated in the page footer, refer to the Tail Rotor Hub Log Card to check the part number and the serial numbers of the installed equipped blades. Compare the serial numbers of the equipped blades with the list of serial numbers in Appendix 4.A. to determine whether they are concerned:

  . Completion of the documentation

  .. For the serial numbers concerned, comply with paragraph 3.B.1. of this ALERT SERVICE BULLETIN.

  .. For the serial numbers not concerned, no additional action is required.

- No later than the next disassembly of the Tail Rotor Hub:

  . Re-identification of the equipped blades

  .. For the serial numbers concerned, comply with paragraph 3.B.2. of this ALERT SERVICE BULLETIN.

NOTE 3

The disassembly of the Tail Rotor Hub is scheduled at 1000 flight hours // 24 months to complete the detailed check of the TRH blade assemblies.

Non-installed equipment or parts:

For an equipped blade alone:

- Before installation, refer to Form1 to check the part number and the serial number of the equipped blades in stock. Compare the serial number of the equipped blade with the list of serial numbers in Appendix 4.A., to determine whether it is concerned:

  . for the serial number concerned, comply with paragraph 3.B.2. of this ALERT SERVICE BULLETIN.

For Tail Rotor Hub:

- Before installation, refer to the Tail Rotor Hub Log Card to check the part number and the serial numbers of the equipped blades in stock. Compare the serial numbers of the equipped blades with the list of serial numbers in Appendix 4.A. to determine whether they are concerned:

  . for the serial numbers concerned, comply with paragraph 3. of this ALERT SERVICE BULLETIN.

1.F. APPROVAL

Approval of modifications:

The information or instructions relate to modification COA08001 approved on June 1, 2018 by EASA for civil version helicopters subject to an Airworthiness Certificate.



Approval of this document:

The technical information contained in this ALERT SERVICE BULLETIN Revision 0 was approved on July 18, 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 qualification:

Qualification:
- 1 Mechanical Technician.



The time for the operations is indicated for reference, for a standard configuration.

Time for the operation:
- Approximately 30 minutes for the Mechanical Technician (for an equipped blade removed).

1.H. WEIGHT AND BALANCE

Not applicable.

1.I. POWER CONSUMPTION

Not applicable.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

The documents required for compliance with this ALERT SERVICE BULLETIN are as follows:

MTC: 20.02.07.403: Use of Vernelec 43022 varnish - Electrical bonding,
MTC: 20.04.01.102: Use of cleaning products on individual parts and on aircraft - Cleaning,
MTC: 20.04.04.403: Touch-up of protective treatment with ALODINE 1200 - Surface treatment before painting,
MTC: 20.08.05.101: Drafting and updating the Log Card (FM) General rules applicable to aircraft,
MTC: 20.08.05.103: Monitoring of parts in operation - marking - service life customization - General rules applicable to aircraft,
MTC: 20.60.00.401: General Recommendations - Blades standard practices,

AMM: Aircraft Maintenance Manual,

ALS: Airworthiness Limitations Section: (04-10-00 Airworthiness Limitations (SLL)),

MSM: Master Servicing Manual.

1.L. OTHER AFFECTED PUBLICATIONS



The modification will be integrated into the following manual:
ALS.

This document will be issued again at a later date.

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Interchangeability:

Tail Rotor Hub equipped blades P/N C642A0300103 and P/N C642A0300105 are interchangeable.

Mixability:

Mixing Tail Rotor Hub equipped blades P/N C642A0300103 and P/N C642A0300105 is permitted.

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

Consumables to be ordered separately:

As per the Work Cards specified in this ALERT SERVICE BULLETIN and the list below:

Designation	Qty	Consumable P/N	CM	Item
Cleaning agent	A/R	METHYL ETHYL KETONE	217	1
Chemical transformation agent	A/R	ALODINE1200	316	2
Varnish	A/R	ECS2228.10	514	3

The products can be ordered separately from the company KLX AEROSPACE SOLUTIONS.

Internet address: https://www.klxaerospace.com/klxaero/
Telephone: +1.305.925.2600
AOG: +1.305.471.8888

Special tools:

As per the Work Cards specified in this ALERT SERVICE BULLETIN and the list below:

Designation	Qty	Tool P/N or equivalent	Item
Vibration scriber	1	Commercial reference	zz

2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

Read and comply with the general instructions concerning standard practices applicable to blades as per Work Card 20.60.00.401 (MTC).

3.B. WORK STEPS

NOTE

The serial number of an equipped blade remains unchanged following the application of this ALERT SERVICE BULLETIN.

3.B.1. Fill in the Log Card (FM)

- On the Log Card:
  . cross out the part number of the equipped blade, leaving it legible,
  . note the new part number,
  . record compliance with this ALERT SERVICE BULLETIN as per paragraph 3.C.

3.B.2. Re-identification of the equipped blades

- Clean the area containing the part number and serial number of the equipped blades using the cleaning agent (1) as per Work Card 20.04.01.102 (MTC).

- Using a vibration scriber (zz) and as per Work Card 20.08.05.103 (MTC):
  . cross out the part number C642A0300103, leaving it legible,
  . mark the new part number C642A0300105 under the serial number.

- Protect the vibration scribed zones using chemical conversion material (2) as per Work Card 20.04.04.403 (MTC).
- Apply varnish (3) as per Work Card 20.02.07.403 (MTC).

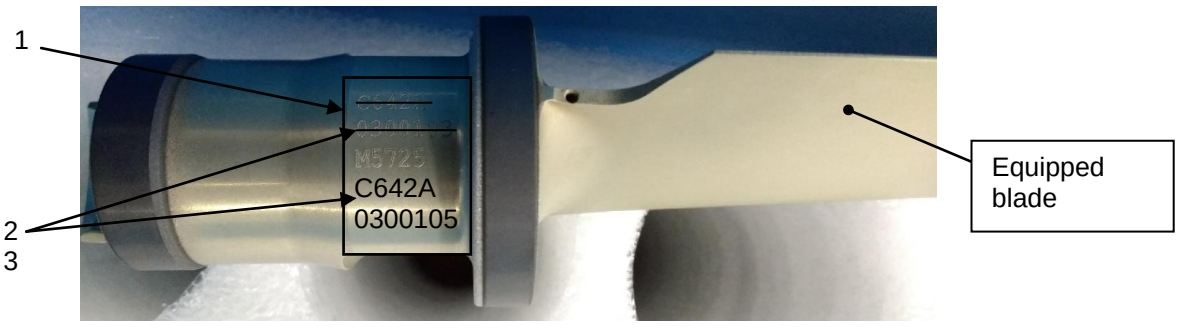


Figure 1

- Record compliance with this ALERT SERVICE BULLETIN as per paragraph 3.C.

3.C. COMPLIANCE CONFIRMATION

Compliance with this document:

- For installed equipment or parts:

When complying with paragraph 3.B.1.:

. record compliance with paragraph 3.B.1. of this ALERT SERVICE BULLETIN, with the revision number on the Tail Rotor Hub Log Card.

. note: « *paragraph 3.B.2. of the ALERT SERVICE BULLETIN No. 04A008 must be complied with mandatorily during the next disassembly of the Tail Rotor Hub*» on the Tail Rotor Hub Log Card.

When complying with paragraph 3.B.2.:

. record **complete** compliance with this ALERT SERVICE BULLETIN, with the revision number on the Tail Rotor Hub Log Card.

- For non-installed equipment or parts:

. record complete compliance with this ALERT SERVICE BULLETIN, with the revision number, on the Tail Rotor Hub Log Card.

Identification of modifications on equipment or parts:

Identify the equipped blades of the Tail Rotor Hub using the table below and Work Card 20.08.05.103 (MTC):

Designation	Former P/N	New P/N	MOD	Type of marking
Equipped blade	C642A0300103	C642A0300105	-	Vibration scribing

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Operating instructions:

Not applicable.

Maintenance instructions:

Refer to the Master Servicing Manual (MSM) in effect.

Refer to the Aircraft Maintenance Manual (AMM) in effect.

The deadlines for new part numbers for the equipped blades on the Tail Rotor Hub in the Airworthiness Limitations Section (ALS) are identical to the old part numbers. The Airworthiness Limitations Section (ALS) will incorporate the new part numbers as part of a future revision.

4. APPENDIX

4.A. Tail Rotor Hub Equipped blade (P/N) C642A0300103

serial numbers (S/N)		
M5596	M5630	M5725
M5598	M5631	M5726
M5599	M5632	M5730
M5600	M5633	M5732
M5601	M5634	M5735
M5602	M5635	M5736
M5603	M5636	M5737
M5604	M5637	M5739
M5605	M5643	M5741
M5606	M5644	M5742
M5607	M5645	M5747
M5608	M5646	M5749
M5609	M5647	M5750
M5610	M5648	M5752
M5611	M5652	M5753
M5612	M5656	M5754
M5613	M5658	
M5614	M5659	
M5615	M5663	
M5616	M5664	
M5617	M5667	
M5618	M5669	
M5619	M5670	
M5620	M5673	
M5621	M5674	
M5622	M5675	
M5623	M5716	
M5624	M5717	
M5625	M5719	
M5626	M5720	
M5627	M5721	
M5628	M5723	
M5629	M5724	