
SERVICE BULLETIN

N° 139-617

DATE: March 25, 2021

REV. : /

TITLE

**ATA 62 – MAIN ROTOR BLADE LIGHTNING STRIP CORROSION PROTECTION
IMPROVEMENT**

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

NOTE

Main rotor blade assemblies are NOT affected if the blade S/N recorded on the component Log Card is followed by the suffix “E” (e.g. “2010E” or “R2010E”), even if they have a S/N listed below.

NOTE

Main rotor blade S/N may be composed of either three or four digits, possibly preceded and/or followed by letters. For the purpose of the present Effectivity, only valid numerical characters are considered, neglecting letters. Possible examples follow:

- S/N R2010 will be referred to as S/N 2010;
- S/N Q1458 will be referred to as S/N 1458;
- S/N AW4006 will be referred to as S/N 4006;
- S/N R1758 will be referred to as S/N 1758.

Main rotor blade assemblies:

P/N 3G6210A00131 up to S/N 5474;

P/N 4G6210A00132 up to S/N 595;

P/N 4G6210A00131 up to S/N 595;

P/N 3G6210A00134 all S/N;

installed on AB139/AW139 helicopters or kept in stock only before installing them on the helicopter.

B. COMPLIANCE

- Within twelve (12) months after the issue of this Service Bulletin for all helicopters equipped with Main Rotor Blade assemblies listed in Effectivity;
- Within six (6) months after the first installation on helicopter for all main rotor blade assemblies kept in stock.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to prescribe the application of a preventive lightning strip protection on the main rotor blade assembly.

E. DESCRIPTION

Positive results have been gathered from trials conducted on in service main rotor blades installed on AW139 operating in harsh corrosion environmental condition. The repair lightning strip protection consists in the application of adhesive EC2216, which is a flexible material added on top of the paint to further increase the protection against corrosion of the lightning strip.

This Service Bulletin can be applied at different times on each Main Rotor Blades installed on helicopter, and mixed blade configurations are allowed provided this SB is applied within the compliance time.

F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives. If an aircraft listed in the effectivity embodies a modification or repair not LHD certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

G. MANPOWER

To comply with this Service Bulletin two (2) MMH are deemed necessary.

MMH are based on hands-on time and can change with personnel and facilities available.

H. WEIGHT AND BALANCE

N.A.

I. REFERENCES

1) PUBLICATIONS

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance	-
DM02 39-A-62-11-00-00A-310A-A	Main rotor blade installation - Blades - General visual inspection	-
DM03 39-A-62-11-01-00A-259C-B	Main rotor blade - Lightning conductor strip - Other procedures to protect surfaces	-

2) ACRONYMS

AMD I	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
ITEP	Illustrated Tools and Equipment Publication
LHD	Leonardo Helicopters Division
MMH	Maintenance-Man-Hours
MRB	Main Rotor Blade
SB	Service Bulletin

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

N.A.

2) CONSUMABLES

Refer to AMDI for the consumable materials required to comply with the AMP DM referenced in the accomplishment instructions.

3) LOGISTIC MATRIX

N.A.

B. SPECIAL TOOLS

The following special tools, or equivalent, are necessary to accomplish this Service Bulletin:

#	P/N	DESCRIPTION	Q.TY	NOTE	PART
1	Commercial	Vibropen	1		-

Refer also to ITEP for the special tools required to comply with the AMP DM referenced in the accomplishment instructions.

C. INDUSTRY SUPPORT INFORMATION

N.A

3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.
- b) Protect properly all those equipment not removed from area affected by the modification during installation procedure.
- c) Let the adhesive cure at room temperature for at least 24 hours, unless otherwise specified.
- d) All lengths are in mm.

NOTE

This SB can be applied at different times on each main rotor blades installed on helicopter, and mixed blade configurations are allowed on the Main Rotor provided this SB is applied to all blades within the compliance time.

NOTE

Skip step 1 for blade assemblies kept in stock.

1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
2. In accordance with AMP DM 39-A-62-11-01-00A-259C-B check for the presence of the repair lightning strip protection adhesive EC2216 (C518) in the designated area of the main rotor blade:
 - If the adhesive EC2216 is present skip to step 5, otherwise proceed with step 3.
3. In accordance with AMP DM 39-A-62-11-00-00A-310A-A perform the General Visual Inspection of the Main Rotor Blade.
4. In accordance with the applicable steps of AMP DM 39-A-62-11-01-00A-259C-B perform the repair lightning strip protection.
5. Mark suffix "E" after the Main Rotor Blade serial number:
 - on the blade identification plate by means of a vibropen, and

- on the component logcard.
6. Record the compliance with this Service Bulletin on the component logcard.

NOTE

Skip step 7 for blade assemblies kept in stock.

7. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
8. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.

Please send to the following address: LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY PRODUCT SUPPORT ENGINEERING & LICENSES DEPT. Via Giovanni Agusta, 520 21017 Cascina Costa di Samarate (VA) - ITALY Tel.: +39 0331 225036 Fax: +39 0331 225988	SERVICE BULLETIN COMPLIANCE FORM	Date:
Number:		
Revision:		

Customer Name and Address:	Telephone:
	Fax:
	B.T. Compliance Date:

Helicopter Model	S/N	Total Number	Total Hours	T.S.O.

Remarks:

Information:

We request your cooperation in filling this form, in order to keep out statistical data relevant to aircraft configuration up-to-date. The form should be filled in all its parts and sent to the above address or you can communicate the application also via Technical Bulletin Application Communication Section placed in Leonardo AW Customer Portal - MyCommunications Area. We thank you beforehand for the information given.