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**SERVICE BULLETIN**

**N° 139-557**

**DATE:** September 26, 2019

**REV. :** A - June 12, 2020

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**TITLE**

**ATA 25 – HOIST CABLE CUTTER FRAME INSTALLATION**

**REVISION LOG**

Revision A is issued in order to cancel this Service Bulletin.

Revision bars in the margins identify changes.

# **1. PLANNING INFORMATION**

## **A. EFFECTIVITY**

### **Part I**

AW139 helicopters from S/N 31201 thru 31699 and from S/N 41201 thru 41499 equipped with single hoist fixed parts P/N 4G2591A00811.

AW139 helicopters from S/N 31700 onwards and from S/N 41501 onwards equipped with single hoist fixed parts P/N 4G2591A00812.

### **Part II**

AW139 helicopters from S/N 31201 thru 31699 and from S/N 41201 thru 41499 equipped with double hoist fixed parts P/N 4G2591A00511.

AW139 helicopters from S/N 31700 onwards and from S/N 41501 onwards equipped with double hoist fixed parts P/N 4G2591A00512.

## **B. COMPLIANCE**

At Customer's option.

## **C. CONCURRENT REQUIREMENTS**

N.A.

## **D. REASON**

This Service Bulletin is issued to provide the necessary instruction on how to perform the installation of hoist cable cutter frame P/N 3G2591A08851.

## **E. DESCRIPTION**

The hoist cable cutter frame is introduced in order to prevent inadvertent cable cut lifting actions on the hoist control panel and it has several functions:

- to provide sufficient protection to the cable cut guarded switch thus allowing the operator to not inadvertently lift the guard and depress the cut button;
- to allow sufficient access that in an emergency condition the hoist operator can quickly and easily lift the cable cut guard and depress the cable cut button with a gloved hand;
- to provide support to the headset cable such that it is not interfering with either the searchlight control button or the cable cut guard and switch.

The hoist cable cutter frame is manufactured from an environmentally resistant thermos-plastic material that provides sufficient strength to the guard against inadvertent access to the cable cut switch.

Part I of the SB describes the installation of the hoist cable cutter frame on the single hoist control panel.

Part II of the SB describes the installation of the hoist cable cutter frame on the double hoist control panel.

## 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 half (0.5) 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.	i, ii

### 2) ACRONYMS

AMD	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module

DOA	Design Organization Approval
EASA	European Aviation Safety Agency
IPD	Illustrated Parts Data
ITEP	Illustrated Tool and Equipment Publication
LHD	Leonardo Spa Helicopters
MMH	Maintenance-Man-Hours
SB	Service Bulletin

**3) ANNEX**

N.A.

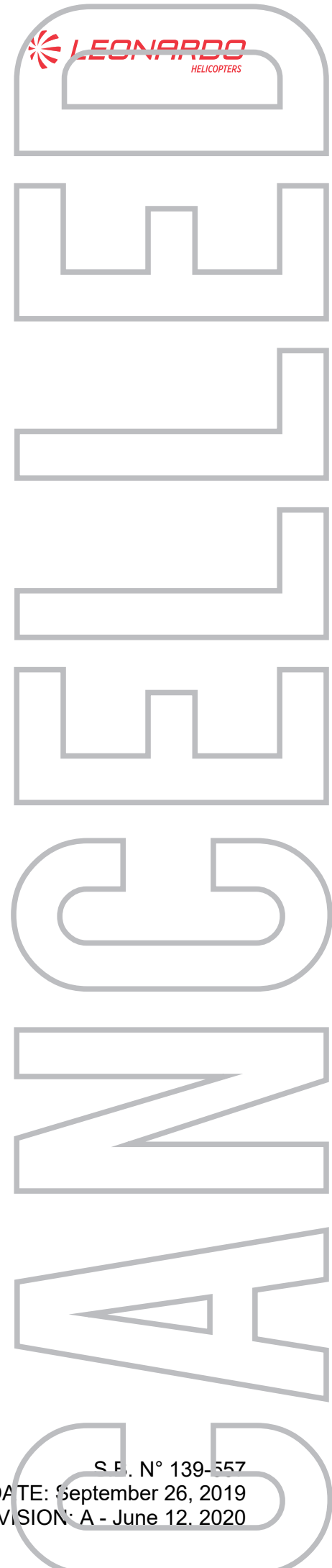
**J. PUBLICATIONS AFFECTED**

AMP

IPD

**K. SOFTWARE ACCOMPLISHMENT SUMMARY**

N.A.



## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### 1) PARTS

##### PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	4G2591A00811		SINGLE HOIST FIXED PARTS	REF	.		-
2	4G2591A00812		SINGLE HOIST FIXED PARTS	REF	.		-
3	3G2591A08851		Hoist cable cutter frame	1	..		-

##### PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
4	4G2591A00511		DOUBLE HOIST FIXED PARTS	REF	.		-
5	4G2591A00512		DOUBLE HOIST FIXED PARTS	REF	.		-
6	3G2591A08851		Hoist cable cutter frame	1	..		-

#### 2) CONSUMABLES

The following consumable materials, or equivalent, are necessary to accomplish this Service Bulletin:

#	Spec./LHD code number	DESCRIPTION	Q.TY	NOTE	PART
7	ASTM-D-5363	Locking compound AN0311	AR	(1)	I, II
8	MIL-PRF-85288, color n°37038	"Matt black" polyurethane topcoat	AR	(1)	I, II

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

#### 3) LOGISTIC MATRIX

N.A.

#### NOTES

- (1) Item to be procured as local supply.
- (2) This item must be ordered six months in advance from the scheduled accomplishment of this SB.

### B. SPECIAL TOOLS

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

### C. INDUSTRY SUPPORT INFORMATION

Product improvement.

### **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.

#### **PART I**

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. With reference to Figure 1, gain access to the cabin.
3. With reference to Figure 1 View A Detail B, remove and retain for later reuse n°2 existing screws from the single hoist control panel P/N 3G2591V02351.
4. With reference to Figure 1 View A Detail B, apply locking compound AN3311 to the threads of the screws removed at previous step.
5. With reference to Figure 1 View A Detail B, install the hoist cable cutter frame P/N 3G2591A08851 on the single hoist control panel P/N 3G2591V02351 by means of n°2 screws previously removed; torque the screws to  $0.54 \pm 0.68$  Nm.
6. With reference to Figure 1 View A Detail B, coat the screw heads with "matt black" polyurethane coating.
7. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
8. Send the attached compliance form to the following mail box:  
[cse.aw139.aw@leonardocompany.com](mailto:cse.aw139.aw@leonardocompany.com)

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

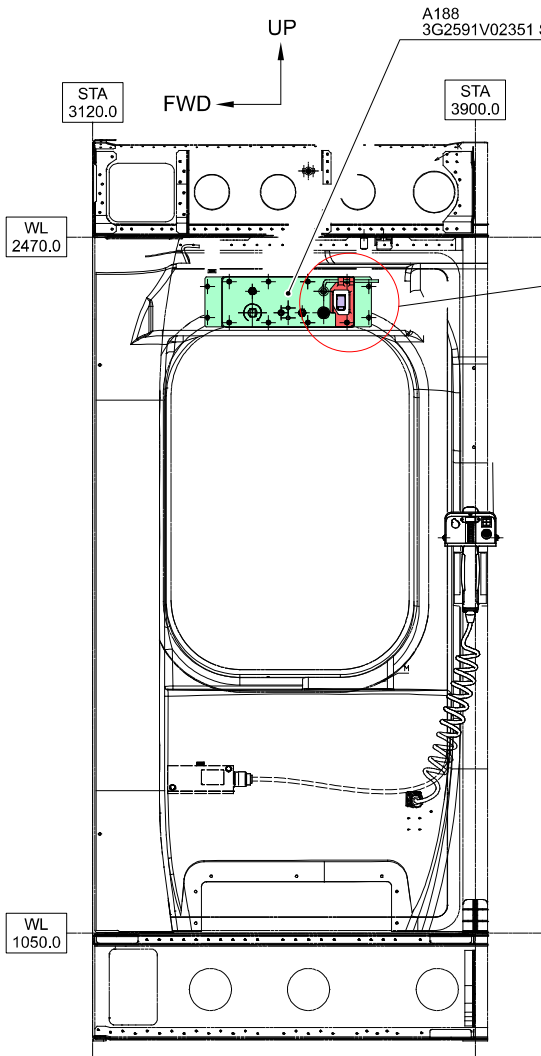
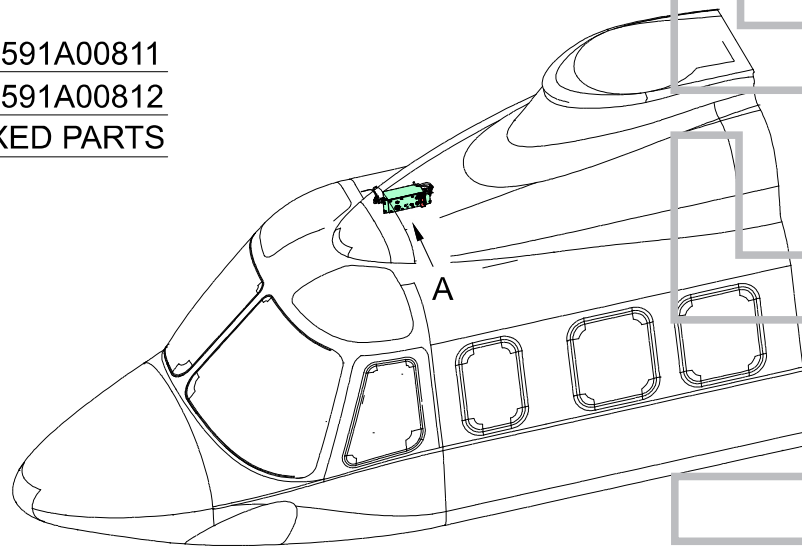
## **PART II**

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. With reference to Figure 2, gain access to the cabin.
3. With reference to Figure 2 View A Detail B, remove and retain for later reuse n°2 existing screws from the double hoist control panel P/N 3G2591V02251.
4. With reference to Figure 2 View A Detail B, apply locking compound AN0311 to the threads of the screws removed at previous step.
5. With reference to Figure 2 View A Detail B, install the hoist cable cutter frame P/N 3G2591A08851 on the double hoist control panel P/N 3G2591V02251 by means of n°2 screws previously removed; torque the screws to 0.54÷0.68 Nm.
6. With reference to Figure 2 View A Detail B, coat the screw heads with “matt black” polyurethane coating.
7. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
8. Send the attached compliance form to the following mail box:

[cse.aw139.aw@leonardocompany.com](mailto:cse.aw139.aw@leonardocompany.com)

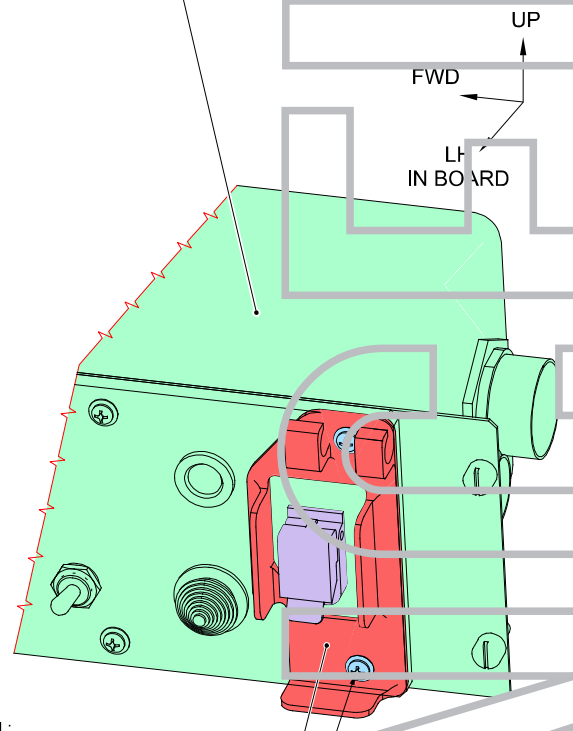
As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.

4G2591A00811  
4G2591A00812  
**SINGLE HOIST FIXED PARTS**



**VIEW A**  
OMITTED PARTS FOR CLARITY

A188  
3G2591V02351 SINGLE HOIST CONTROL PANEL (REF)



INSTALL:  
3G2591A08851 FRAME HOIST CABLE CUTTER

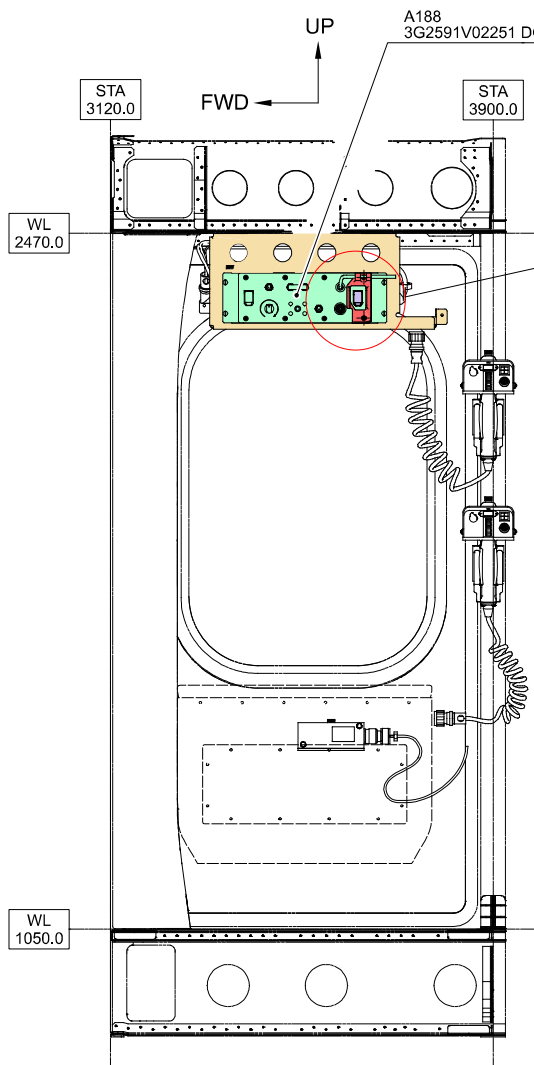
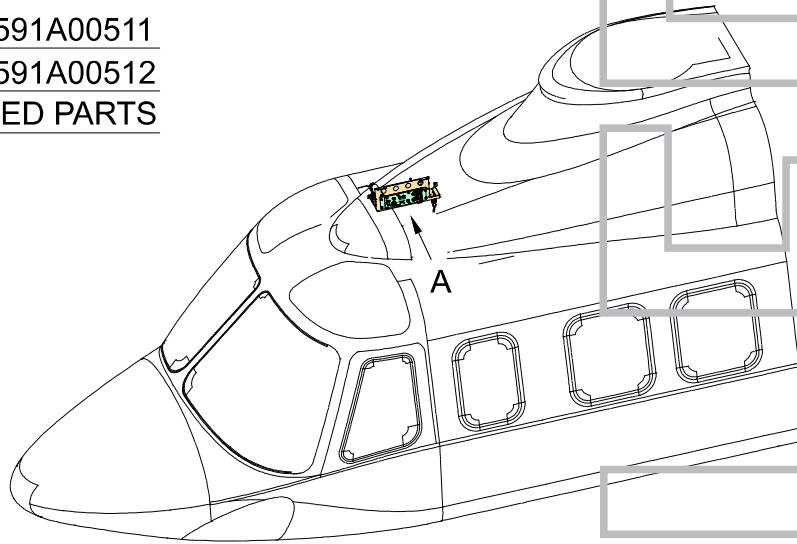
USE:  
EXISTING SCREWS (2 OFF)  
APPLY:  
AN0311 LOCKING COMPOUND  
POLYURETHANE COATING  
TORQUE TO:  
0.54+0.68 Nm

**DETAIL B**  
OMITTED PARTS FOR CLARITY

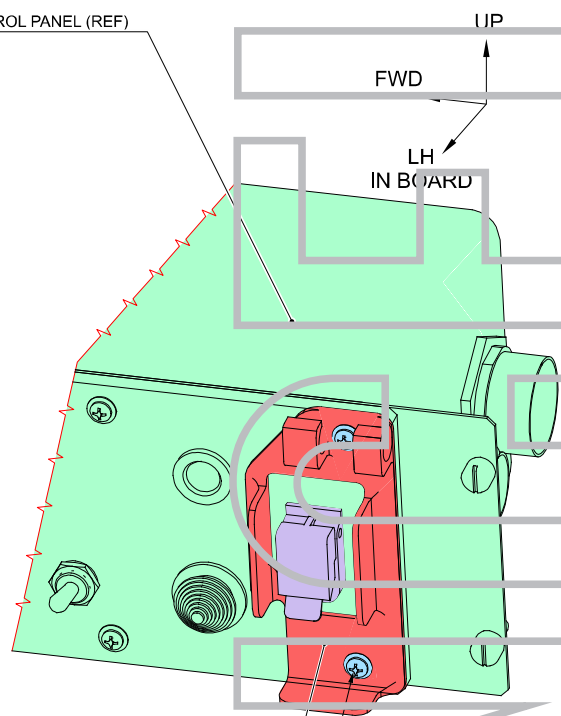
**Figure 1**



4G2591A00511  
4G2591A00512  
**DOUBLE HOIST FIXED PARTS**



**VIEW A**  
OMITTED PARTS FOR CLARITY



INSTALL:  
3G2591A08851 FRAME HOIST CABLE CUTTER

USE:  
EXISTING SCREWS (2 O F)  
APPLY:  
AN0311 LOCKING COMPOUND  
POLYURETHANE COATING  
TORQUE TO:  
0.54+0.68 Nm

**DETAIL B**  
OMITTED PARTS FOR CLARITY

**Figure 2**

