LEONARDO HELICOPTERS

LEONARDO MALAYSIA SDN. BHD.

WORKSHEET

SERVICE ORDER :	9	0	0	2	5	5	6	6	WORKSHEET NUMBER :	2022/31763/007-10	
AIRCRAFT REGISTRATION :	9M-BGH	AIRCRAFT SERIAL NUMBER :	31763	AIRFRAME HOURS :	300:40	LANDINGS :	838				
#1 ENGINE SERIAL NO.:	PCE-KB1931	#1 ENGINE HOURS :	300:40	#2 ENGINE SERIAL NO.:	PCE-KB1885	#2 ENGINE HOURS :	300:40	APU SERIAL NO.:	N/A	APU HOURS :	N/A
CRITICAL MAINTENANCE TASK REQUIREMENT	YES		NO	X	RAISED BY :	SYAQIRA	RAISED DATE :	17-11-2022			

DESCRIPTION / WORK TO BE CARRIED OUT	CORRECTIVE ACTION TAKEN
EASA AD NO.: 2021-0186R1 [CORRECTION: 23 AUGUST 2021]	N/A. HOIST WILL BE SEND FOR OH
ISSUED: 18 AUGUST 2021 (EASB 139-679 DATE: AUGUST 5, 2021 REV. : /) -	AT OEM FACILITY. EASA AD TO
ATA 25 - HOIST RATED LOAD CHECK TO BE CARRIED OUT I.A.W EASA	BE APPLIED BY OEM.
AD AND EASB ATTACHED.	
	MECHANIC SIGN: N/A — N/A

MAINTENANCE ACTIVITIES ABOVE ARE PERFORMED IN ACCORDANCE WITH: (CIRCLE THE SELECTED MODEL WHERE APPLICABLE)

AIRCRAFT MAINTENANCE MANUAL	AW189 | AW169 | (AW139) | A119 | A109S/AW109SP IETP 41 ISSUE: 2022-06-28 UPDATED: 2022-11-16
ENGINE MAINTENANCE MANUAL	GE CT7-2E | PW210A | PT6C-67C | PT6B-37A | PW206C/PW207C MM REV./ISSUE NO.: N/A DATED: N/A
APU MAINTENANCE MANUAL	DT13-01_eAPU60-MLE 342 ISSUE NO.: N/A DATED: N/A
OTHER APPROVED MAINTENANCE DATA	EASA AD NO.: 2021-0186R1 [CORRECTION: 23 AUGUST 2021] ISSUED: 18 AUGUST 2021

INDEPENDENT INSPECTION / RE-INSPECTION I.A.W MOE 2.23

DESCRIPTION OF CRITICAL MAINTENANCE TASK REQUIREMENT AREA :

AUTHORISATION HOLDER

NAME	STAMP	SIGNATURE	DATE

INDEPENDENT INSPECTOR

NAME	STAMP	SIGNATURE	DATE

PARTS / MATERIAL USED / COMPONENT CHANGE RECORD (IF APPLICABLE)

DESCRIPTION	PART NO.	REMOVED		INSTALLED		RELEASE DOCUMENT
		SERIAL NO.	TSN/TSO	SERIAL NO.	TSN/TSO	
			N/A			

☐ ADDITIONAL PARTS / MATERIAL USED / COMPONENT CHANGE RECORD HAVE BEEN RAISED AND ATTACHED.

☐ CALIBRATED / SPECIAL TOOLS RECORD SHEET HAVE BEEN RAISED AND ATTACHED.

* CERTIFYING STAFF HAVE VERIFIED THAT ALL TOOLS, EQUIPMENT AND OTHER EXTRANEOUS PART OF MATERIALS ARE CLEARED AND ALL TASKS OR INSPECTIONS HAVE BEEN CARRIED OUT TO THE REQUIRED STANDARD. TASK HAS BEEN PERFORMED I.A.W. MAINTENANCE MANUAL SPECIFIED ABOVE.

CERTIFICATE OF RELEASE TO SERVICE

* CERTIFYING STAFF NAME	SIGNATURE	STAMP	LOCATION	DATE
S. ELLER		LC1 LM	SZB	22/12/22

CAAM (MALAYSIA) AMO/2016/40 - CERTIFIES THAT THE WORK SPECIFIED, EXCEPT AS OTHERWISE SPECIFIED, WAS CARRIED OUT IN ACCORDANCE WITH CAA MALAYSIA REQUIREMENTS AND IN RESPECT TO THAT WORK THE AIRCRAFT / AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE.

European Union Aviation Safety Agency

Airworthiness Directive

AD No.: 2021-0186R1
[Correction: 23 August 2021]

Issued: 18 August 2021

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:
LEONARDO S.p.A.

Type/Model designation(s):
AB139 and AW139 helicopters

Effective Date:	Revision 1: 25 August 2021 Original issue: 10 August 2021
TCDS Number(s):	EASA.R.006
Foreign AD:	Not applicable
Revision:	This AD revises EASA Emergency AD 2021-0186-E dated 06 August 2021.

ATA 25 – Equipment / Furnishings – External Hoist Assembly – Rated Load Check

Manufacturer(s):
Leonardo S.p.A. Helicopters, formerly Finmeccanica S.p.A, AgustaWestland S.p.A., Agusta S.p.A.; and AgustaWestland Philadelphia Corporation, formerly Agusta Aerospace Corporation

Applicability:
AB139 and AW139 helicopters, all serial numbers (s/n).

Definitions:
For the purpose of this AD, the following definitions apply:

Affected part:

a) Breeze external hoist assemblies, having Part Number (P/N) P/N 3G2591V00331 (Breeze P/N BL-20200-421), P/N 3G2591V02931 (Breeze P/N BLH-20200-431-1), P/N 3G2591V02932 (Breeze P/N BLH-20200-431-2) or P/N 3G2591V01431 (Breeze P/N BL-20200-422), all s/n, which had the hoist cable (Breeze P/N BL-6260 or P/N BL-9149-8, as applicable) replaced before installation on the helicopter, except those which, before 10 August 2021 [the effective date of this AD at original issue], passed (no defects found) an RTC (rated load check) in accordance with the instructions of Breeze Flight Line Operation and Maintenance Manual TD-03-008, TD-08-002 or TD-03-009, as applicable; or

b) Breeze external hoist assemblies having P/N 3G2591V00331 (Breeze P/N BL-20200-421), P/N 3G2591V02931 (Breeze P/N BLH-20200-431-1), P/N 3G2591V02932 (Breeze P/N BLH-20200-431-2) or P/N 3G2591V01431 (Breeze P/N BL-20200-422), all s/n, which were kept in stock for more than 12 months before the installation on a helicopter, except those which, before 10 August 2021 [the effective date of this AD at original issue], passed an RTC (no defects found) in accordance with the instructions of Breeze Flight Line Operation and Maintenance Manual TD-03-008 or TD-08-002 or TD-03-009, as applicable.

Serviceable part: Any external hoist assembly, eligible for installation, which is not an affected part; or has passed an RTC in accordance with the ASB as defined in this AD.

The ASB: Leonardo Emergency Alert Service Bulletin (ASB) 139-679.

Groups: Group 1 helicopters are those that have an affected part installed. Group 2 helicopters are those that do not have an affected part installed.

Reason:

Review of the AW139 Maintenance Publication (AMP) manual determined that the requirement to accomplish an RTC on a Breeze hoist assembly was introduced in the AMP Issue 39, dated 7 June 2021. The RTC is intended to verify the integrity of the hoist assembly and efficiency of the hoist system operation. This check is included in the hoist manufacturer (Breeze) Flight Line Operation and Maintenance Manual and is required whenever the hoist cable is replaced, or a hoist is stored for more than 12 months.

As the requirement for RTC has been only recently published in the AW139 AMP manual and is limited to the replacement of the cable, the RTC may not have been accomplished on all affected parts.

This condition, if not detected and corrected, could lead to failure of an affected part, possibly resulting in loss of external human cargo during helicopter hoist operations.

To address this potential unsafe condition, Leonardo issued the ASB, as defined in this AD, providing instructions for RTC. Additionally, Leonardo published Temporary Maintenance Instruction TMI 139-546 providing instructions for RTC whenever a hoist assembly is (re)installed after storage for 12 months or more. Consequently, EASA issued Emergency AD 2021-0186-E to require a one-time RTC of each affected part. That AD also introduced (re)installation restrictions.

Since that AD was issued, it was recognised that the AW139 AMP manual reference was incorrectly indicated as "AMPI" in the Reason paragraph. This AD is revised to provide the correct reference.

This AD is republished to correct the issue date of the ASB.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Rated Load Check:

(1) For Group 1 helicopters: Before next hoist operation after 10 August 2021 [the effective date of this AD at original issue], accomplish an RTC of the affected part in accordance with the instructions of the ASB.

Corrective Action(s):

(2) If, during the RTC as required by paragraph (1) of this AD, any discrepancy is detected, as defined in the ASB, before next hoist operation, contact Leonardo S.p.A. Helicopters for approved corrective action instructions and accomplish those instructions accordingly.

(3) Replacement on a helicopter of an affected part with a serviceable part in accordance with approved maintenance instructions is an acceptable method to comply with the requirements of paragraph (1) or (2) of this AD, as applicable.

Parts Installation:

(4) For Group 1 and Group 2 helicopters: From 10 August 2021 [the effective date of this AD at original issue], it is allowed to install on any helicopter an external hoist assembly, provided it is a serviceable part, as defined in this AD.

Ref. Publications:

Leonardo Emergency ASB 139-679 original issue dated 05 August 2021.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.

2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.

3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.

4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the EU aviation safety reporting system. This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.

5. For any question concerning the technical content of the requirements in this AD, please contact: Leonardo S.p.A. Helicopters. E-mail: engineering.support.lhd@leonardocompany.com.

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AgustaWestland Products

SERVICE BULLETIN

EMERGENCY ALERT

N° 139-679

DATE: August 5, 2021

REV. : /

TITLE

ATA 25 - HOIST RATED LOAD CHECK

REVISION LOG

First Issue

An appropriate entry should be made in the aircraft log book upon accomplishment.
If ownership of aircraft has changed, please, forward to new owner.

1. PLANNING INFORMATION

A. EFFECTIVITY

- All hoists P/N 3G2591V00331 (Vendor P/N BL-20200-421), P/N 3G2591V02931 (Vendor P/N BLH-20200-431-1), P/N 3G2591V02932 (Vendor P/N BLH-20200-431-2) and P/N 3G2591V01431 (Vendor P/N BL-20200-422) that have replaced the hoist cable (Vendor P/N BL-6260 or Vendor P/N BL-9149-8, as applicable) without having performed, at the issue date of the Service Bulletin, the "rated load check" according to the instructions of Breeze Flight Line Operation and Maintenance Manual TD-03-008 or TD-08-002 or TD-03-009, as applicable.
- All hoists P/N 3G2591V00331 (Vendor P/N BL-20200-421), P/N 3G2591V02931 (Vendor P/N BLH-20200-431-1), P/N 3G2591V02932 (Vendor P/N BLH-20200-431-2) and P/N 3G2591V01431 (Vendor P/N BL-20200-422) installed on the helicopter after having been kept in stock for more than one year, that do not have performed, at the issue date of the Service Bulletin, the "rated load check" according to the instructions of Breeze Flight Line Operation and Maintenance Manual TD-03-008 or TD-08-002 or TD-03-009, as applicable.

B. COMPLIANCE

Before the next use of the hoist P/N 3G2591V00331 (Vendor P/N BL-20200-421), P/N 3G2591V02931 (Vendor P/N BLH-20200-431-1), P/N 3G2591V02932 (Vendor P/N BLH-20200-431-2) or P/N 3G2591V01431 (Vendor P/N BL-20200-422).

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to prescribe the "rated load check" of the hoists P/N 3G2591V00331, P/N 3G2591V02931, P/N 3G2591V02932 or P/N 3G2591V01431.

E. DESCRIPTION

This Service Bulletin prescribes the "rated load check" to hoists Breeze P/N 3G2591V00331 (Vendor P/N BL-20200-421), P/N 3G2591V02931 (Vendor P/N BLH-20200-431-1), P/N 3G2591V02932 (Vendor P/N BLH-20200-431-2) or P/N 3G2591V01431 (Vendor P/N BL-20200-422) for those helicopters that have

replaced the hoist cable, or that have installed a hoist kept in stock for more than one year, without having performed the mentioned check.

The check is composed of two consecutive tests, both performed in hovering condition, where two loads are tested, one of 300 lb (136 kg) and the other of 600 lb (272 kg).

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 one (1) MMH is 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

N.A.

2) ACRONYMS & ABBREVIATIONS

AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
lb	Pound
MMH	Maintenance Man Hours

P/N Part Number

3) ANNEX

Annex A Rescue hoist system - Rated load - Operation test

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

N.A.

2) CONSUMABLES

N.A.

3) LOGISTIC MATRIX

N.A.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

N.A.

3. ACCOMPLISHMENT INSTRUCTIONS

NOTE

The rated load test requires testing of the hoist on the helicopter, in a hover, with the hoist cowlings installed.

NOTE

The following step is applicable only to hoist P/N 3G2591V00331 (Vendor P/N BL-20200-421) and P/N 3G2591V01431 (Vendor P/N BL-20200-422).

1. With reference to Annex A step 2, perform the rated load check of the rescue hoist P/N 3G2591V00331 or P/N 3G2591V01431, as applicable.

NOTE

The rated load test requires testing of the hoist on the helicopter, in a hover, with the hoist cowlings installed.

NOTE

The following step is applicable only to hoists P/N 3G2591V02931 (Vendor P/N BLH-20200-431-1) and P/N 3G2591V02932 (Vendor P/N BLH-20200-431-2).

2. With reference to Annex A step 3, perform the rated load check of the rescue hoist P/N 3G2591V02931 or P/N 3G2591V02932, as applicable.
3. In case of test not passed and/or other findings, contact Product Support Engineering (engineering.support.lhd@leonardocompany.com).
4. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
5. 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".

ANNEX A

RESCUE HOIST SYSTEM - RATED LOAD - OPERATION TEST

Safety Conditions

WARNING

Be careful when you do the operational check procedure of the rescue hoist system. Injury to the persons can occur if you do not obey the safety precautions that follow:

- **Keep your hands, cloths and body away from the components that are in movement.**
- **Always wear protective goggles and gloves when you work on the hoist.**
- **Only approved persons can stay near the helicopter during the operations on the rescue hoist.**

Do not touch the electric motor during the operation. This can cause injuries to persons.

CAUTION

The cable contamination by dirt or sand will cause damage or incorrect operation of the rescue hoist.

Procedure

Note

1. The rated load test of the rescue hoist must be done with the rescue hoist gearbox at ambient temperature.
2. One pilot is necessary to do the rated load test in flight and one approved person is necessary as responsible of the operation of the rescue hoist. One other person is necessary to do the ground operations.
3. You must lift the dummy load with the rescue hoist during hover flight.

1 To do the rated load test, go to:
- [K0067] and [K0068] step 2
- [K0069] step 3.

2 **[K0067] and [K0068] Rated load test (in-flight)**

2.1 Put the Dummy load (136 kg (300 lb)) (ZZ-00-00) in a free, open and safe area.

2.2 Tell the pilot to flight and hover the helicopter at approximately 15.24 m (50 ft) above the dummy load. Refer to the Rotorcraft Flight Manual.

2.3 Tell the pilot to close the following circuit breaker on the circuit breaker panel (6, Figure 1):

- HOIST CONTR
- HOIST PWR.

2.4 Tell the pilot to set the PWR switch (10) on the hoist control panel (9) to ON.

2.5 Unwind the hoist cable (3) of the hoist (1).

2.6 Connect the hook (2) of the hoist (1) to the dummy load with a Belt (ZZ-00-00) of the appropriate load rating.

2.7 Tell the pilot to increase hover altitude to approximately 77.72 m (255 ft) above ground level. Refer to the Rotorcraft Flight Manual.

2.8 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, setting the direction/speed control thumb-wheel (5) to DOWN position on the control pendant (4).

2.9 Make the hoist cool down for 30 seconds.

Note
Make sure that the minimum speed of the cable is 1.07 m/s (210 fpm) when using the hoist operator pendant at full deflection and the cable is on the top layer.

2.10 Tell the pilot or the hoist operator to wind up the hoist cable (3) of the hoist (1) until 3.048 m (10 ft) of cable is left out, the dummy load connected by setting the direction/speed control thumb-wheel (5) to UP position on the control pendant (4).

2.11 Tell the pilot or the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

2.12 Make the hoist cool down for 30 seconds.

Note
Make sure that the maximum speed of the cable is 1.52 m/s (300 fpm) when using the hoist operator pendant at full deflection and the cable is on the top layer.

2.13 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, setting the direction/speed control thumb-wheel (5) to DOWN position on the control pendant (4) until the cable stops.

2.14 Tell the pilot or the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

2.15 Make the hoist cool down for 30 seconds.

2.16 Do again the step 2.10 thru step 2.15.

Note
Make sure that the minimum speed of the cable is 1.07 m/s (210 fpm).

2.17 Tell the pilot or the hoist operator to wind up the hoist cable (3) of the hoist (1) until 3.048 m (10 ft) of cable is left out, with the dummy load connected by setting the direction/speed control thumb-wheel (5) to UP position on the control pendant (4).

2.18 Tell the pilot or the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

2.19 Make the hoist cool down for 30 seconds.

Note
Current values must not exceed 155 amps for the motor and 5 amps for the control circuit at 25 VDC minimum.

2.20 If the speed requirements of the hoist cable (3) are not in the limits, repeat step 2.8 thru step 2.19 checking that current and voltage values.

2.21 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, for approximately 15.24 m (50 ft).

2.22 Tell the pilot to decrease hover altitude until the dummy load touches the ground.

2.23 Disconnect the hook (2) of the hoist (1) from the dummy load.

2.24 Put the Dummy load (272 kg (600 lb)) (ZZ-00-00) in a free, open and safe area.

2.25 Tell the pilot to flight and hover the helicopter above the dummy load. Refer to the Rotorcraft Flight Manual.

2.26 Connect the hook (2) of the hoist (1) to the dummy load with a Belt (ZZ-00-00) of the appropriate load rating.

2.27 Tell the pilot to increase hover altitude to approximately 77.72 m (255 ft) above ground level. Refer to the Rotorcraft Flight Manual.

2.28 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected by setting the direction/speed control thumb-wheel (5) to DOWN position on the control pendant (4).

2.29 Make the hoist cool down for 30 seconds.

Note
Make sure that the minimum speed of the cable is 0.66 m/s (130 fpm) when using the hoist operator pendant at full deflection and the cable is on the top layer.

2.30 Tell the pilot or the hoist operator to wind up the hoist cable (3) of the hoist (1) until 3.048 m (10 ft) of cable is left out, with the dummy load connected, setting the direction/speed control thumb-wheel (5) to UP position on the control pendant (4).

2.31 Tell the pilot or the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

2.32 Make the hoist cool down for 30 seconds.

Note
Make sure that the maximum speed of the cable is 1.52 m/s (300 fpm).

2.33 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, setting the direction/speed control thumb-wheel (5) to DOWN position on the control pendant (4) until the cable stops.

2.34 Tell the pilot or the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

2.35 Make the hoist cool down for 30 seconds.

2.36 Do again the step 2.30 thru step 2.35.

Note
Make sure that the minimum speed of the cable is 0.66 m/s (130 fpm) when using the hoist operator pendant at full deflection and the cable is on the top layer.

2.37 Tell the pilot or the hoist operator to wind up the hoist cable (3) of the hoist (1) until 3.048 m (10 ft) of cable is left out, with the dummy load connected by setting the direction/speed control thumb-wheel (5) to UP position on the control pendant (4).

2.38 Tell the pilot or the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

2.39 Make the hoist cool down for 30 seconds.

Note
Current values must not exceed 155 amps for the motor and 5 amps for the control circuit at 25 VDC minimum.

2.40 If the speed requirements of the hoist cable (3) are not in the limits, repeat step 2.28 thru step 2.39 checking that current and voltage values.

2.41 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, for approximately 15.24 m (50 ft).

2.42 Tell the pilot to decrease hover altitude until the dummy load touches the ground.

2.43 Disconnect the hook (2) of the hoist (1) from the dummy load.

2.44 Fully wind up the hoist cable (3) of the hoist (1).

2.45 Tell the pilot to land and stop the engines. Refer to the Rotorcraft Flight Manual.

2.46 If the current values in step 2.40 are in the correct limits, check the temperature of external surface of the large drum flange. It must not exceed 94 °C (200 °F).

2.47 Make the helicopter safe for maintenance. Refer to 39-A-00-20-00-00A-120A-A.

3 **[K0069] Rated load test (in-flight)**

Note
The tolerance of the dummy load is ±27 kg (50 lbf).

3.1 Put the Dummy load (136 kg (300 lb)) (ZZ-00-00) in a free, open and safe area.

3.2 Tell the pilot to flight and hover the helicopter at approximately 15.24 m (50 ft) above the dummy load. Refer to the Rotorcraft Flight Manual.

3.3 Tell the pilot to close the following circuit breaker on the circuit breaker panel (6, Figure 1):

- HOIST CONTR
- HOIST PWR.

3.4 Tell the pilot to set the PWR switch (10) on the hoist control panel (9) to ON.

3.5 Unwind the hoist cable (3) of the hoist (1).

3.6 Connect the hook (2) of the hoist (1) to the dummy load with a Belt (ZZ-00-00) of the appropriate load rating.

3.7 Tell the pilot to increase hover altitude to approximately 92.96 m (305 ft) above ground level. Refer to the Rotorcraft Flight Manual.

3.8 Tell the pilot to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, setting the hoist control switch (8) to DN position on the collective stick (7).

3.9 Make the hoist cool down for 30 seconds.

3.10 Tell the pilot to wind up the hoist cable (3) of the hoist (1) until 3.048 m (10 ft) of cable is left out, with the dummy load connected, setting the hoist control switch (8) to UP position on the collective stick (7).

3.11 Make the hoist cool down for 30 seconds.

3.12 Tell the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, setting the direction/speed control thumb-wheel (5) to DOWN position (full speed) on the control pendant (4) until the cable stops.

3.13 Tell the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

3.14 Make the hoist cool down for 30 seconds.

3.15 Tell the hoist operator to wind up the hoist cable (3) of the hoist (1) until 3.048 m (10 ft) of cable is left out, with the dummy load connected, setting the direction/speed control thumb-wheel (5) to UP position (full speed) on the control pendant (4).

3.16 Tell the hoist operator to set the direction/speed control thumb-wheel (5) to OFF position on the control pendant (4).

3.17 Make the hoist cool down for 30 seconds.

3.18 Tell the pilot or the hoist operator to unwind the hoist cable (3) of the hoist (1), with the dummy load connected, for approximately 15.24 m (50 ft).

3.19 Tell the pilot to decrease hover altitude until the dummy load touches the ground.

3.20 Disconnect the hook (2) of the hoist (1) from the dummy load.

Note
The tolerance of the dummy load is ±27 kg (50 lb).

3.21 Put the Dummy load (272 kg (600 lb)) (ZZ-00-00) in a free, open and safe area.

3.22 Do again step 3.2 thru step 3.7 and step 3.12 thru step 3.20.

3.23 Fully wind up the hoist cable (3) of the hoist (1).

3.24 Tell the pilot to land and stop the engines. Refer to the Rotorcraft Flight Manual.

3.25 Make the helicopter safe for maintenance. Refer to 39-A-00-20-00-00A-120A-A.

Requirements After Job Completion

1 Remove all the tools and the other items from the work area. Make sure that the work area is clean.

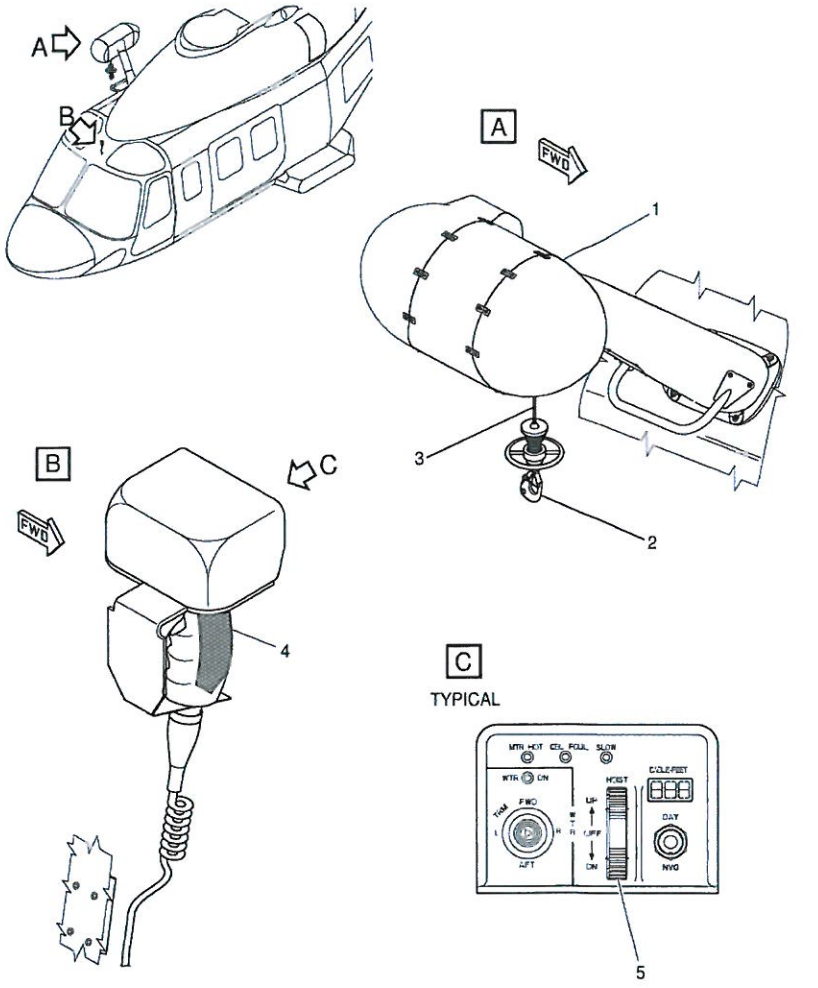

Figure 1 (Sheet 1 of 2) Rescue hoist system - Rated load - Operation test

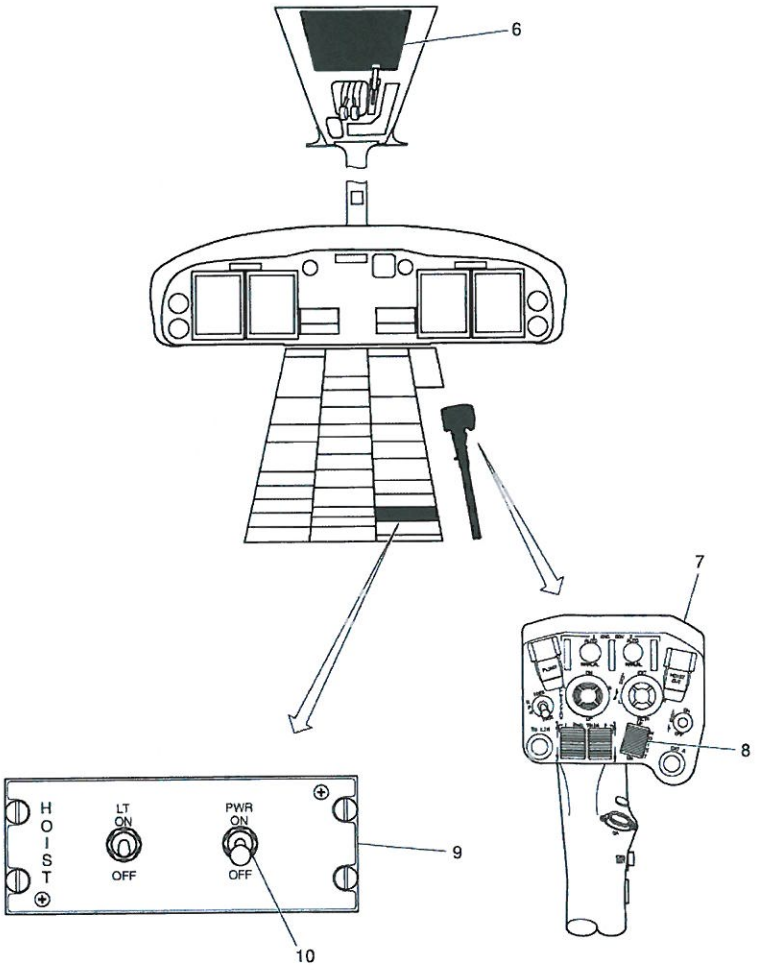

Figure 1 (Sheet 2 of 2) Rescue hoist system - Rated load - Operation test

LEONARDO
HELICOPTERS

AgustaWestland Products

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.