



LEONARDO MALAYSIA SDN. BHD.

WORK CARD

SERVICE ORDER NUMBER: 90025566

WORKCARD NUMBER: 2023/BGH/001-08

SB 139-665 DATE: JULY 8, 2021 REV.: A - MAY 31, 2022 -
ATA 34 - ENHANCED GROUND PROXIMITY WARNING
SYSTEM INSTALLATION (PART III)

CUSTOMER: LEONARDO HELICOPTER ITALY (LHI)

REGISTRATION:	9M-BGH	AIRFRAME HOURS:	302:40	ENGINE #1	SERIAL NUMBER:	PCE-KB1931	ENGINE #2	SERIAL NUMBER:	PCE-KB1885	APU	SERIAL NUMBER:	N/A
SERIAL NUMBER:	31763	LANDINGS:	850	ENGINE HOURS:	302:40	ENGINE HOURS:	302:40	ENGINE HOURS:	302:40	ENGINE HOURS:	N/A	N/A

NO	SOURCE	TASK / REFERENCE	REMARKS	MECHANIC SIGN	* AH SIGN & STAMP	DATE
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NOTE: FOR FIGURE(S), REFER TO IETP / ENGINE MANUAL / AD / SB.

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 REUSE.
- B) SHAPE THE CABLES IN ORDER TO PREVENT INTERFERENCE WITH THE STRUCTURE AND THE OTHER EXISTING INSTALLATIONS, USING WHERE NECESSARY SUITABLE LACING CORDS AND PLASTIC CABLE TIEDOWN.
- C) EXERCISE EXTREME CARE DURING DRILLING OPERATIONS TO PREVENT INSTRUMENTS, CABLES AND HOSES DAMAGE.
- D) AFTER DRILLING, REMOVE ALL SWARF AND SHARP EDGES. APPLY ON BARE METAL A LIGHT FILM OF PRIMER UNLESS THE HOLE IS USED FOR GROUND CONNECTION.
- E) DURING THE INSTALLATION OF BONDING BRAIDS OR COMPONENTS REQUIRING GROUNDING, CLEAN THE SURFACE STRUCTURE IN ORDER TO OBTAIN A GOOD GROUND CONTACT.
- F) LET ADHESIVE CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS UNLESS OTHERWISE SPECIFIED.
- G) ALL LENGTHS ARE IN MM.

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

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







* APPROVAL HOLDER 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 IN WORKPACK INDEX LM/QA/GEN/01.

NO	SOURCE	TASK / REFERENCE	REMARKS	MECHANIC SIGN	* AH SIGN & STAMP	DATE
1		IN ACCORDANCE WITH 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.	STARTING WORK PAPER WORK.		 	14/2/23
2		IN ACCORDANCE WITH DM 39-A-06-41-00-00A-010A-A AND WITH REFERENCE TO FIGURE 32 AND FIGURE 33, REMOVE ALL EXTERNAL PANELS, INTERNAL PANELS AND INTERNAL LINERS AS REQUIRED TO GAIN ACCESS TO THE AREA AFFECTED BY THE INSTALLATION AND PERFORM THE EGPWS EQUIPMENT INSTALLATION P/N 4G3440A00212 AS DESCRIBED IN THE FOLLOWING PROCEDURE: 2.1 IN ACCORDANCE WITH AMP DM 39-A-34-43-02-00A-720A-K, AND WITH REFERENCE TO FIGURE 32 AND FIGURE 33 VIEW A, INSTALL THE EGPWS COMPUTER MOUNTING TRAY P/N 405-0383-001, BY MEANS OF N°2 SCREWS P/N MS35206-230 AND N°2 SCREWS MS24693-S30.	STARTING WORK INSPECTION		 	2/12/23
		<p>NOTE</p> <p>USE THE EDGING P/N A236A ON EDGES WHICH ARE LIABLE TO CAUSE DAMAGE TO CABLE ASSEMBLIES OR WHERE ABRASION MAY OCCUR.</p> <p>NOTE</p> <p>INSTALL THE TUBING BRAIDED P/N A582A WHERE PROTECTION AGAINST CHAFING AND PREVENTION OF CONTACT WITH STRUCTURE MAY OCCUR, BUT THE TUBING PROTECTION IS NOT SUBSTITUTE FOR GOOD ROUTING PRACTICE.</p>				

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NO	SOURCE	TASK / REFERENCE	REMARKS	MECHANIC SIGN	* AH SIGN & STAMP	DATE
		2.2 IN ACCORDANCE WITH AMP DM 39-A-34-43-01-00A-720A-K, AND WITH REFERENCE TO FIGURE 32 AND FIGURE 33 VIEW A, INSTALL THE EGPWS COMPUTER P/N 965-1595-030.	INSTALLATION INSURED	asl	asl 	26/23
		2.3 IN ACCORDANCE WITH AMP DM 39-A-11-00-01-00A-720A-A, AND WITH REFERENCE TO FIGURE 33 VIEW A, INSTALL THE DECAL P/N ED300A106 ON THE EGPWS COMPUTER P/N 965-1595-030.	INSTALLATION INSURED	asl	asl 	26/23
		2.4 IN ACCORDANCE WITH AMP DM 39-B-31-61-09-00A-720A-A AND AMP DM 39-B-31-61-10-00A-720A-A, AND WITH REFERENCE TO FIGURE 32 AND FIGURE 33 VIEW B, INSTALL THE DISPLAY CONTROLLERS P/N 7016683-966.	INSTALLATION INSURED	asl	asl 	26/23
		NOTE CUSTOMER MUST CONTACT AW139 PRODUCT SUPPORT ENGINEERINGENGINEERING.SUPPORT.LHD@LEONARDO.COM TO REQUEST THE CORRECT OPTION FILE AT LEAST THREE MONTHS IN ADVANCE FROM THE SCHEDULED APPLICATION OF THIS SERVICE BULLETIN.	INSTALLATION INSURED, ENSURED	asl	asl 	26/23
		2.5 IN ACCORDANCE WITH AMP DM 39-A-00-00-00A-750A-A, ENSURE THAT THE APPLICABLE OPTION FILE HAS BEEN INSTALLED FOR THE S/W KIT INSTALLATION.				
		2.6 IN ACCORDANCE WITH APPLICABLE STEPS OF AMP DM 39-B-31-61-00-00A-320B-A, PERFORM THE OPERATION TEST OF THE DISPLAY CONTROLLERS P/N 7016683-966.	SATISFACTORY PERFORMANCE	ASL	ASL 	10/3/23
		2.7 IN ACCORDANCE WITH AMP DM 39-B-34-43-00-00A-320A-K, PERFORM THE OPERATION TEST OF THE KIT EGPWS-030 P/N 3G3440F00212.	SATISFACTORY PERFORMANCE	ASL	ASL 	10/3/23

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3	-	RETURN THE HELICOPTER TO FLIGHT CONFIGURATION AND RECORD FOR COMPLIANCE WITH PART III OF THIS SERVICE BULLETIN ON THE HELICOPTER LOGBOOK.	Satisfied by (signature) for Leonardo record as appropriate.			12/3/25
4	-	SEND THE ATTACHED COMPLIANCE FORM TO THE FOLLOWING MAIL BOX: ENGINEERING.SUPPORT.LHD@LEONARDO.COM AS AN ALTERNATIVE, GAIN ACCESS TO MY COMMUNICATIONS SECTION ON LEONARDO WEBPORTAL AND COMPLETE THE "SERVICE BULLETIN APPLICATION COMMUNICATION".	For approval to take note and send as appropriate.			10/3/25

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**PARTS / MATERIAL USED /
COMPONENT CHANGE RECORD**

WORKSHEET /
WORKCARD
NUMBER :

2023/BGH/003

SERVICE ORDER NUMBER :	9	0	0	2	5	5	6	6
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AIRFRAME HOURS :	302:40
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AIRCRAFT REGISTRATION :

9M-BGH

AIRCRAFT SERIAL NUMBER :

31763

LANDINGS :

850

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

DESCRIPTION	PART NO.	REMOVED		INSTALLED		RELEASE DOCUMENT
		SERIAL NO.	TSN/TSO	SERIAL NO.	TSN/TSO	
SCREW, MACHINE	MS35206-230	N/A	N/A	N/A	N/A	0071124333/08.09.2021
DECAL	ED300A106	N/A	N/A	N/A	N/A	A64-2008-19794
MK XXII EPWS WITH GPS	965-1595-030	N/A	N/A	EMK22-1011	N/A	2022001088539Y 24 843678651
CONTROLLER, DC-840	7016683-966	N/A	N/A	22066773	N/A	2022001187164Y14 8011031643-10
CONTROLLER, DC-840	7016683-966	N/A	N/A	22076774	N/A	2022001187168 Y148011043014-10