

**To** : GAM CAMO, AMO & QA Personnel  
**CC** : GAM Accountable Manager, GAM Quality Assurance Manager  
**From** : Continuing Airworthiness Management Manager (CAMM)  
**Subject** : Upcoming Revision to Aircraft Maintenance Programme for JBPM AW139 and AW189 fleet

## 1. REFERENCE

- a. JBPM/CAMO/AMP/AW189 Issue 3 Rev 0 Dated 01 July 2021
- b. JBPM/CAMO/AMP/AW139 Issue 2 Rev 0 Dated 01 July 2021

## 2. APPLICABILITY

- a. AW139 and AW189 fleet operated by *Jabatan Bomba dan Penyelamat Malaysia* (JBPM)

## 3. INTRODUCTION

- a. A new revision to the current approved JBPM's AMP for AW139 and AW189 fleet (referenced above) had been submitted to CAAM for approval. The AMP had been revised mainly on the interval for the Corrosion Control Program amendment to Severe as required by CAAM.
- b. Operator had been informed and agreed with the changes for implementation of the Severe Corrosion Control Program prior AMP submission to CAAM.
- c. This notice is raised to notify on the upcoming revision of the above AMP and for compliance to the new interval effective immediately upon AMP approval by CAAM.

## 4. REQUIREMENT

- a. CAMO Planner to amend the Corrosion Control Program interval to Severe as per 89-A-00-10-00-02A-028A-D or 39-A-00-10-00-02A-028A-D, as applicable, in AERONET upon AMP approved by CAAM.
- b. Those inspection with daily or after last flight interval for Severe Corrosion Control Program had been integrated with Airworthiness Check / Daily Inspection and shall be complied with accordingly once AMP approved. For authorisation to pilot, a task training shall be required against the new revised AMP.
- c. Refer Appendix 1 for draft of JBPM AW189 and AW139 AMP that had been submitted to CAAM for reference only.

Kindly be informed and adhered to the requirement.



Zaty Nadhira Binti Mohamed Zuhari  
Continuing Airworthiness Management Manager

# APPENDIX 1

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW189				
<b>PAGE TITLE:</b>	TITTLE PAGE	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW189	<b>ISSUE:</b>	3	<b>REVISION:</b>	1
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## AIRCRAFT MAINTENANCE PROGRAMME

LEONARDO HELICOPTER AW189

FITTED WITH

GENERAL ELECTRIC CT7-2E1 ENGINES

DOC. REFERENCE: JBPM/CAMO/AMP/AW189

ISSUE: 3      REVISION: 1      DATE: 22 SEPTEMBER 2021

MASTER – JABATAN BOMBA DAN PENYELAMAT MALAYSIA (BAHAGIAN UDARA)

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW189				
<b>PAGE TITLE:</b>	MAINTENANCE PROGRAMME APPROVAL PAGE	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW189	<b>ISSUE:</b>	3	<b>REVISION:</b>	1
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## MAINTENANCE PROGRAMME APPROVAL PAGE

### Civil Aviation Authority of Malaysia

#### AIRWORTHINESS DIVISION

#### MAINTENANCE PROGRAMME APPROVAL



**Programme Reference** : JBPM/CAMO/AMP/AW189

**Issue No.** : 3      **Rev No.** : 1      **Date** : 22 September 2021

**Aircraft Applicability** : Leonardo S.p.A Helicopter AW189 fitted with General Electric CT7-2E1 Engines

**Owner/ Operator** : Jabatan Bomba dan Penyelamat Malaysia

**CAMO** : Galaxy Aerospace (M) Sdn. Bhd.

**For the purpose of** : General Aviation

Approved by :

Date :

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW189				
<b>PAGE TITLE:</b>	MAINTENANCE PROGRAMME STATEMENT	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW189	<b>ISSUE:</b>	3	<b>REVISION:</b>	1
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## AIRCRAFT MAINTENANCE PROGRAMME STATEMENT

THIS MAINTENANCE PROGRAMME IS OWNED BY THE MALAYSIA FIRE AND RESCUE DEPARTMENT and the continuing compliance of this document to the applicable stated references are the responsibility of Galaxy Aerospace (M) Sdn Bhd (GAM) through its Continuing Airworthiness Management Organisation (CAMO).

Preparation of this **LEONARDO HELICOPTER AW189 MAINTENANCE PROGRAMME** ref: **JBPM/CAMO/AMP/AW189 ISSUE 3 REV 1 DATED 22 SEPTEMBER 2021** is based on requirements by the Civil Aviation Authority of Malaysia (CAAM) as required by Malaysian Civil Aviation Regulations (MCAR) 2016 Regulation 27 and detailed in Civil Aviation Directives 6801 with the recommendations of the aircraft, engine and equipment manufacturers and their recommendations are evaluated along with operator experience and where appropriate incorporated into the maintenance programme.


The data contained in this Aircraft Maintenance Programme will be reviewed for continued validity at least annually in the light of operating experience. Furthermore, subsequent recommendations through their maintenance manual revisions or other publications are to be reviewed and if appropriate, incorporated by amendment procedures into this maintenance programme.

It is recognised that approval of this Aircraft Maintenance Programme does not prevent the necessity of compliance with mandatory instructions that from time to time may be issued by the CAAM or by the type certificate and supplementary type certificate holders and any other organisation that publishes such data.

It is recognised that the compliance with this Aircraft Maintenance Programme alone does not discharge the owner / operator from ensuring that the Aircraft Maintenance Programme reflects the maintenance needs of the aircraft, such that continuing safe operation can be assured. It is further understood that the CAAM reserves the right to suspend, vary or cancel the approval of the maintenance programme if the CAAM has evidence that the requirements of the Aircraft Maintenance Programme are not being followed or that the required standards of airworthiness are not being maintained.

Prepared by  
Sign :   
Name : **AMIRAH FATINI ZAINAL**  
**Technical Services Engineer**  
**Galaxy Aerospace (M) Sdn. Bhd.**  
Date : 24/09/2021 (1040262-D)

Verified by  
Sign :   
Name : **ZATY NADHIRA BINTI MOHAMED ZUHARI**  
**Continuing Airworthiness Management Manager**  
**Galaxy Aerospace (M) Sdn Bhd**  
**(1040262-D)**  
Date : 24 SEPTEMBER 2021

Accepted by  
Sign :   
Name : **PgKB I MUHAMMAD AL-MUSTAKIN**  
**ABDUL HADY**  
**Pegawa Kejuruteraan (KB48)**  
**Cawangan Kejuruteraan Pesawat**  
**Pangkalan Udara Subang**  
**JBPM**  
Date : 24/09/2021

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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	6	1	22.09.2021
	7	1	22.09.2021

Reviewed by

Signature :   
 Name : OMAR BIN AHMAD  
           Quality Assurance Manager  
           Galaxy Aerospace (M) Sdn. Bhd  
 Date : 24.09.2021 (1040262-D)

Approved by


Signature : \_\_\_\_\_  
 Name : \_\_\_\_\_  
 Date : \_\_\_\_\_

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW189		
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## RECORD OF AMENDMENTS

'A' AMENDMENTS			
NO.	SUBJECT	SIGNATURE	DATE INCORPORATED

'B' AMENDMENTS			
NO.	SUBJECT	SIGNATURE	DATE INCORPORATED
1	a) Chapter 1A.0: Page 1 of 1 New chapter of Maintenance Programme Approval Page in compliance with issuance of CAGM – 6804. b) Chapter 6.0: Page 1 of 1 Addition of new Chapter 1A.0 in table of contents. c) Chapter 7: Page 12 of 12 Changed Mild to Severe Corrosion Control Program. d) Chapter 11: Page 3, 4, 6 and 7 of 10 - Item B8: 3Y (Task 25-20, 25-21) inspection removed, not applicable due to ADELTA not installed. - Item C6: 1200FH/1Y (Task 33-11) inspection removed, not applicable due to searchlight not installed. - Item C9: 2000FH/2Y (Task 25-06) inspection removed, not applicable due to different hoist configuration. - Item C35: Added item C35 due to new task 63-31 introduced in the latest AMPI. - Table E: Changed Mild to Severe Corrosion Control Program. e) Chapter 19: Page 3, 4, 5 and 6 of 7 Addition of tasks for daily and after last flight inspection for CCP.		22/09/2021

'C' AMENDMENTS			
NO.	SUBJECT	SIGNATURE	DATE INCORPORATED

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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3. It is the responsible of JBPM as owner of the helicopter to ensure the implementation of the program by the current CAMO responsible for the helicopter.
4. This shall include the transfer of all Reliability Programme normal prime sources data and history to the new CAMO should the owner decides to change the CAMO in the future.
5. It is the responsibility of the CAMO to execute the program and based on the data analysed through a Review Meeting chaired by GAM Continuing Airworthiness Management Manager (Camm) and based on the findings to review this Maintenance Programme with the operator.

## H. CORROSION CONTROL PROGRAMME

1. On AW189 ACCP 89-A-00-10-00-00A-028A-D Corrosion control programme, the aircraft shall be operating in severe zones with hot and wet climate and high humidity concentrations. As such the aircraft shall be maintained in accordance with the **Severe Inspection Program**.
2. The change of interval of the maintenance task is revised if a particular condition occurs. If the change is referred to an event, such as corrosion finding or the flight in determinate atmospheric condition, the change of the task interval must be done one time only for each time that a condition occurs. If the change is referred to a helicopter configuration, such as the installation of a determinate kit, the change of the task interval is intended permanent until the helicopter is in this configuration. ACCP 89-A-00-10-00-02A-028A-D Corrosion Control Program refers.

## I. OPERATING ENVIRONMENT

### Engine

Listed below are the engine operating environment that must be considered when determining the maintenance programme for the engines. As this Maintenance Programme is based on tropical climate, it is the responsibility of the operator to ensure maintenance programme chosen must include any additional maintenance due to operating environment required by the OEM has been considered. The following operating environments are as listed in EMM 05-21-00-300-803 as listed by GE. However, the operator may seek assistance from GE representative on determining the operating environment and selection of a plan.

- a) **NORMAL OPERATION:** This is land-based operation away from salt water, dirt, and sand.
- b) **SALT WATER OPERATION:** This is an operation over salt water or in coastal areas. Operation from ships and platforms are in this category as are coastal search and rescue helicopters. The salt environment can extend inland a considerable distance.
- c) **DIRT ENVIRONMENT OPERATION:** This is a typical operation from land with landings and take-offs from dirt (unprepared) landing areas. This environment could include heavy industrial areas, as well as areas with sand.
- d) **SAND ENVIRONMENT OPERATION**  
This is an operation, but not limited to desert areas such as the Middle East, South West Asia, Central and Northern Africa.

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ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>A</b>	<b>AIRFRAME SCHEDULED INSPECTIONS - FLIGHT HOUR INTERVAL</b>			
A27	5000 FH Insp.	AMPI 89-A-04-30-00	Every 5000FH	<i>This task is performed also during the rescue hoist assembly overhaul. Use the limit that occurs first</i>
A28	5200 FH Insp.	AMPI 89-A-05-21-00	Every 5200FH	
A29	6400 FH Insp.	AMPI 89-A-05-21-00	Every 6400FH	
A30	6500 FH Insp.	AMPI 89-A-04-30-00	Every 6500FH	<i>Task to be performed by sending components to the manufacturer</i>
A31	8000 FH Insp.	AMPI 89-A-04-30-00	Every 8000FH	
A32	10000 FH Insp.	AMPI 89-A-04-30-00	Every 10000FH	
A33	20000 FH Insp.	AMPI 89-A-05-21-00	Every 20000FH	

ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>B</b>	<b>AIRFRAME SCHEDULED INSPECTIONS - CALENDAR INTERVAL</b>			
B1	30 D Insp.	AMPI 89-A-05-21-00	Every 30D	
B2	120 D Insp.	AMPI 89-A-05-21-00	Every 120D	
B3	1 M Insp.	AMPI 89-A-05-21-00	Every 1M	
B4	3 M Insp.	AMPI 89-A-05-21-00	Every 3M	<i>No Tolerance</i>
B5	6 M Insp.	AMPI 89-A-05-21-00	Every 6M	
B6	1 Y Insp.	AMPI 89-A-05-21-00	Every 1Y	
B7	2 Y Insp.	AMPI 89-A-05-21-00	Every 2Y	
B8	Deleted	-	-	
B9	4 Y Insp.	AMPI 89-A-05-21-00	Every 4Y	
B10	5 Y Insp.	AMPI 89-A-05-21-00	Every 5Y	<i>To perform of inspection on component by removal.</i>
B11	6 Y Insp.	AMPI 89-A-05-21-00	Every 6Y	
B12	8 Y Insp.	AMPI 89-A-05-21-00	Every 8Y	

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ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>C</b>	<b>AIRFRAME SCHEDULED INSPECTIONS - SPECIFIC INTERVAL</b>			
C1	150 FH // 1 Y Insp	AMPI 89-A-05-21-00	Every 150FH/1Y	
C2	400 FH // 1 Y Insp.	AMPI 89-A-05-21-00	Every 400FH/1Y	
C3	600 FH // 1 Y Insp.	AMPI 89-A-05-21-00	Every 600FH/1Y	
C4	800 FH // 1 Y Insp.	AMPI 89-A-05-21-00	Every 800FH/1Y	
C5	800 FH // 2 Y Insp.	AMPI 89-A-05-21-00	Every 800FH/2Y	
C6	Deleted	-	-	
C7	1600 FH // 2 Y Insp.	AMPI 89-A-05-21-00	Every 1600FH/2Y	
C8	1600 FH // 4 Y Insp.	AMPI 89-A-05-21-00	Every 1600FH/4Y	
C9	Deleted	-	-	
C10	3200 FH // 2 Y Insp.	AMPI 89-A-04-30-00	Every 3200FH/2Y	<i>Cargo Hook</i>
C11	3200 FH // 4 Y Insp.	AMPI 89-A-05-21-00	Every 3200FH/4Y	
C12	6 M // 400 Hoist Lifts Insp.	AMPI 89-A-04-30-00 AMPI 89-A-05-21-00	Every 6M/400HC	<i>No Tolerance</i>
C13	300 FH // 1000 Hoist Lifts Insp.	AMPI 89-A-04-20-00	Every 300FH/1000HC	
C14	3 Hoist Ops. H // 1 M	AMPI 89-A-05-21-00	Every 3HH/1M	<i>No Tolerance</i>
C15	50 Hoist Lift Insp.	AMPI 89-A-04-20-00	Every 50HC	
C16	2600 Hoist Lift // 36 M	AMPI 89-A-04-30-00	Every 2600HC/36M	<i>Hoist Lift Limit</i>
C17	52 Hoist Ops. H // 6 M	AMPI 89-A-05-21-00	Every 52HH/6M	<i>No Tolerance</i>
C18	4000 Landings	AMPI 89-A-05-21-00	Every 4000 landings	
C19	20000 Landing Initial / 15000 Landing Recurring	AMPI 89-A-05-21-00	At 20000 landings and subsequently at each 15000 landings	<i>Return MLG shock absorber to service centre. Refer Note 81 on NLG maintenance. May be called up by component cycles.</i>
C20	40000 Landings	AMPI 89-A-05-21-00	Every 40000 landings	<i>Refer Note 81 on NLG maintenance. May be called up by component cycles.</i>
C21	50 APU Hours // 1 Y Insp.	AMPI 89-A-05-21-00	Every 50 APU Hour or 1Y	<i>APU operating hours.</i>

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ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>C</b>	<b>AIRFRAME SCHEDULED INSPECTIONS - SPECIFIC INTERVAL</b>			
C30	Check PCM1 post installation of HP or LP filter	AMPI 89-A-05-21-00	10 FH	<i>One off check</i>
C31	Check PCM2 post installation of HP or LP filter	AMPI 89-A-05-21-00	10 FH	<i>One off check</i>
C32	Restoration of ELT battery pack	AMPI 89-A-05-21-00	After use in an emergency, or inadvertent activation of unknown duration, or when the total of all known transmission exceeds 1 hour.	<i>Replacement of ELT battery pack</i>
C33	Functional check (torque check)	AMPI 89-A-05-21-00	After 5 FH and after 30 FH from any installation	<i>Do this one-off checks after any installation of shafts and/or flexible couplings and/or adapters. Do this task ALF when 5 FH and 30 FH from any installation are reached.</i>
C34	Functional check (torque check)	AMPI 89-A-05-21-00	ALF when 25 FH from any bolts re-torque are reached	<i>Bolts having logged more than 60 FH and found under torqued shall be replaced.</i>
C35	Restoration (cleaning) of the foam contained in the oil cooler silenced exhaust duct	AMPI 89-A-05-21-00	At each MGB oil cooler silenced exhaust duct removal	

**Note** : After flight inspection requirement for flights in icing condition is not called up due to operating area is in hot and humid environment

ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>D</b>	<b>EWIS TASKS</b>			
D1	1 Y Insp.	AMPI 89-A-05-21-00	Every 1Y	
D2	2 Y Insp.	AMPI 89-A-05-21-00	Every 2Y	
D3	4 Y Insp.	AMPI 89-A-05-21-00	Every 4Y	
D4	8 Y Insp.	AMPI 89-A-05-21-00	Every 8Y	

ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>E</b>	<b>CORROSION CONTROL PROGRAM – SEVERE</b>			
E1	ALF Inspection	AMP 89-A-00-10-00-02A-028A-D	Every ALF	<i>Integrated in Daily Inspection</i>

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ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>E</b>	<b>CORROSION CONTROL PROGRAM – SEVERE</b>			
E2	2 W Inspection	AMP 89-A-00-10-00-02A-028A-D	Every 2W	
E3	1 M Inspection	AMP 89-A-00-10-00-02A-028A-D	Every 1M	
E4	3 M Inspection	AMP 89-A-00-10-00-02A-028A-D	Every 3M	
E5	6 M Inspection	AMP 89-A-00-10-00-02A-028A-D	Every 6M	
E6	Deleted	-	-	
E7	Deleted	-	-	
E8	Daily	AMP 89-A-00-10-00-02A-028A-D	Every ALF	<i>Integrated in Daily Inspection</i>
E9	1 W Inspection	AMP 89-A-00-10-00-02A-028A-D	Every 1W	

ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>F</b>	<b>AIRFRAME UNSCHEDULED INSPECTIONS – CONDITIONAL INSPECTIONS</b>			
F1	Rotor Emergency Braking	AMP 89-A-00-70-00-01A-28AA-A	At each occurrence	
F2	Transmission Overtorque	AMP 89-A-00-70-00-02A-28AA-A	At each occurrence	
F3	Rotor Overspeed	AMP 89-A-00-70-00-03A-28AA-A	At each occurrence	

ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>G</b>	<b>AUXILIARY POWER UNIT - MANDATORY INSPECTION</b>			
G1	50 FH Insp.	APU MM 89-A-04-20-49-20A	Every 50FH	
G2	5000 APU/H or 8Y Insp.	APU MM 89-A-04-20-49-20A	Every 5000 APU H or 8Y	<i>*Performed during shop visit.</i>

ITEM	INSPECTION DESC.	REFERENCE	INTERVAL	REMARKS
<b>H</b>	<b>AUXILIARY POWER UNIT - INSPECTION</b>			
H1	400 APU Hours	APU MM 89-A-05-10-49-20A	Every 400 APU Hours	
H2	800 APU Hours	APU MM 89-A-05-10-49-20A	Every 800 APU Hours	

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW189		
<b>PAGE TITLE:</b>	PRE-FLIGHT / TURN AROUND / DAILY INSPECTION	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW189	<b>ISSUE:</b>	3
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NO	ITEM	INSPECTION REQUIREMENTS	REMARKS
<b>CHECKS</b>			
<b>DAILY INSPECTIONS – ENGINE MAINTENANCE PROGRAM</b>			
01	Oil tank Servicing	Check the engine oil level, service, as necessary Refer: EMP TASK 72-00-00-600-802	DI
02	Fault Isolation	Check and disposition FADEC Maintenance Messages Refer: EMP TASK 72-00-00-810-809	DI
<b>CORROSION CONTROL PROGRAMME – SEVERE INSPECTION</b>			
03	CP-019 Restoration (cleaning) of tail rotor	Wash and clean the tail rotor head and related equipments. Refer: AMP 89-A-20- 21-01-00A -258A-D	ALF
04	CP-020 Restoration (cleaning) of main rotor	Wash and clean the main rotor head and related equipments. Refer: AMP 89-A-20- 21-01-00A -258A-D	ALF
05	CP-001 General visual inspection of windshields and transparents area	Perform a general visual inspection of the cockpit windows, the upper and lower transparents and the windshield wiping washing system for condition, corrosion and corrosion protection deterioration. Refer: AMP 89-A-20- 80-00-01A -310A-D	DI
06	CP-002 General visual inspection of tail rotor head	Perform a general visual inspection of the tail rotor head installation for condition, salt accumulation, evidence of water intrusion and corrosion protection deterioration. Inspection to include tail rotor blades, dampers, pitch links, elastomeric bearings, bonding cables and strips, hub, spider and slider group, tail rotor servoactuator installation and hardware. Refer: AMP 89-A-20- 82-02-00A -310A-D	DI

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NO	ITEM	INSPECTION REQUIREMENTS	REMARKS
07	CP-003 General visual inspection of main rotor head	<p>Perform a general visual inspection of the main rotor head for evidence of water intrusion, scratches, damage, salt accumulation, paint and corrosion protection deterioration. Inspection to include all the components of the main rotor head installation, blades trim tab and weight pockets, bonding cables and strips, tension link, pitch change lever and hardware.</p> <p>Refer: AMP 89-A-20- 82-01-00A -310A-D</p>	DI
08	CP-004 General visual inspection of main gearbox	<p>Perform a general visual inspection of the main gearbox, installed equipments and installation provisions for corrosion, evidence of water intrusion and corrosion protection deterioration.</p> <p>Refer: AMP 89-A-20- 82-04-00A -310A-D</p>	DI
09	CP-005 Visual check of Pitot support	<p>Perform a visual check of the Pitot support cover and Pitot installation for obstruction of drain hole, corrosion, evidence of water intrusion, salt accumulation and corrosion protection deterioration.</p> <p>Refer: AMP 89-A-20- 80-00-04A -311A-D</p>	DI
10	CP-006 Visual check of tailplane	<p>Perform a visual check of the tailplane installation for evidence of water intrusion, corrosion damage, sealant and corrosion protection deterioration.</p> <p>Refer: AMP 89-A-20- 84-02-00A -311A-D</p>	DI
11	CP-008 Visual check of sponson and life raft	<p>Perform a visual check of the sponson installation and related fairings for corrosion, evidence of water intrusion and corrosion protection deterioration. If installed, check also the life raft fairings and exposed areas.</p> <p>Refer: AMP 89-A-20- 80-00-10A -311A-D</p>	DI

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NO	ITEM	INSPECTION REQUIREMENTS	REMARKS
12	CP-009 Restoration (cleaning) of external surfaces of the helicopter	Wash and clean the external surfaces of the helicopter. Examine also the correct operation of the drain lines.  Refer: AMP 89-A-20- 21-01-00A -258A-D	DI
13	CP-010 General visual inspection of upper deck installations and equipments	Perform a general visual inspection of the exposed areas of upper deck installations and equipments for corrosion protection deterioration.  Refer: AMP 89-A-20- 82-07-00A -310A-D	ALF
14	CP-011 Restoration (cleaning) of engines	Wash and clean the engines.  Refer: AMP 89-A-71- 01-00-01A -251A-A	ALF
15	CP-012 Restoration (cleaning) of APU	Wash and clean the APU.  Refer: AMP 89-A-49- 20-00-00A -251A-A	ALF
16	CP-013 Visual check of upper deck drain line scuppers	Perform a visual check of the drain line scuppers on the upper deck for condition, clogging and water and salt accumulation. Check also the attaching hardware for evidence of corrosion.  Refer: AMP 89-A-20- 82-07-02A -311A-D	ALF
17	CP-015 General visual inspection of nose and main landing gear bays	Perform a general visual inspection of the nose and main landing gear bays for corrosion protection deterioration and evidence of water intrusion.  Refer: AMP 89-A-20- 81-02-00A -310A-D	ALF
18	CP-016 Restoration (cleaning) of nose and main landing gear bays	Wash and clean the nose and main landing gear bays.  Refer: AMP 89-A-20- 21-01-00A -258A-D	ALF



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NO	ITEM	INSPECTION REQUIREMENTS	REMARKS
19	CP-017 General visual inspection of main battery bay	Perform a general visual inspection of the main battery bay and installation for condition, corrosion, evidence of water intrusion, salt contamination and corrosion protection deterioration.  Refer: AMP 89-A-20- 81-01-00A -310A-D	ALF
20	CP-018 Visual check of baggage compartment	Perform a visual check of the visible area of the baggage compartment for evidence of water intrusion and corrosion protection deterioration.  Refer: AMP 89-A-20- 81-04-00A -311A-D	ALF
21	CP-021 Visual check of rescue hoist	Perform a visual check of the rescue hoist configuration for corrosion, evidence of water intrusion, sealant and corrosion protection deterioration.  Refer: AMP 89-A-20- 80-00-05A -311A-D	ALF
<b>OPTIONAL OPERATION / MISSION EQUIPMENT</b>			
22	Rescue Hoist Cable	GVI of the maximum length of cable used during the day operation for damage and condition. Carried out after the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used.  Refer: AMPI 89-A-25-91-01-06A-310B-A  AMPI 89-A-25-93-00-02A-310A-A	PF, DI
23	Rescue Hoist D-Lock Hook	GVI for damage  Refer: AMPI 89-A-25-91-01-07A-310A-A  AMPI 89-A-25-93-00-03A-310A-A	DI

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## AIRCRAFT MAINTENANCE PROGRAMME

LEONARDO HELICOPTER AW139

FITTED WITH

PRATT & WHITNEY CANADA PT6C-67C ENGINES

DOC. REFERENCE: **JBPM/CAMO/AMP/AW139**

**ISSUE: 2**

**REVISION: 1**

**DATE: 20 SEPTEMBER 2021**

**MASTER – JABATAN BOMBA DAN PENYELAMAT MALAYSIA - BAHAGIAN UDARA**

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW139				
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## MAINTENANCE PROGRAMME APPROVAL PAGE

### Civil Aviation Authority of Malaysia

#### AIRWORTHINESS DIVISION

#### MAINTENANCE PROGRAMME APPROVAL



**Programme Reference** : JBPM/CAMO/AMP/AW139

**Issue No.** : 2      **Rev No.** : 1      **Date** : 20 September 2021

**Aircraft Applicability** : Leonardo S.p.A Helicopter AW139 fitted with Pratt & Whitney Canada PT6C-67C Engines

**Owner/ Operator** : Jabatan Bomba dan Penyelamat Malaysia

**CAMO** : Galaxy Aerospace (M) Sdn. Bhd.

**For the purpose of** : General Aviation

Approved by :

Date :

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

DOCUMENT TITLE:	AIRCRAFT MAINTENANCE PROGRAMME	AIRCRAFT TYPE:	LEONARDO HELICOPTER AW139				
PAGE TITLE:	MAINTENANCE PROGRAMME STATEMENT	REFERENCE:	JBPM/CAMO/AMP/AW139	ISSUE:	2	REVISION:	1
CHAPTER:	2.0	PAGE:	1 of 1	DATE:	20 SEPTEMBER 2021		

## AIRCRAFT MAINTENANCE PROGRAMME STATEMENT

THIS MAINTENANCE PROGRAMME IS OWNED BY THE MALAYSIA FIRE AND RESCUE DEPARTMENT and the continuing compliance of this document to the applicable stated references are the responsibility of Galaxy Aerospace (M) Sdn Bhd (GAM) through its Continuing Airworthiness Management Organisation (CAMO).

Preparation of this **LEONARDO HELICOPTER AW139 AIRCRAFT MAINTENANCE PROGRAMME** ref: **JBPM/CAMO/AMP/AW139; ISSUE 2 REVISION 1 DATED 20 SEPTEMBER 2021** is based on requirements by the Civil Aviation Authority of Malaysia (CAAM) as required by Malaysian Civil Aviation Regulations (MCA) 2016 Regulation 27 and detailed in Civil Aviation Directive 6801 with the recommendations of the aircraft, engine and equipment manufacturers and their recommendations are evaluated along with operator experience and where appropriate incorporated into the maintenance programme.

The data contained in this Aircraft Maintenance Programme will be reviewed for continued validity at least annually in the light of operating experience. Furthermore, subsequent recommendations through their maintenance manual revisions or other publications are to be reviewed and if appropriate, incorporated by amendment procedures into this maintenance programme.


It is recognised that approval of this Aircraft Maintenance Programme does not prevent the necessity of compliance with mandatory instructions that from time to time may be issued by CAAM or by the type certificate and supplementary type certificate holders and any other organisation that publishes such data.

It is recognised that the compliance with this Aircraft Maintenance Programme alone does not discharge the owner / operator from ensuring that the Aircraft Maintenance Programme reflects the maintenance needs of the aircraft, such that continuing safe operation can be assured. It is further understood that CAAM reserves the right to suspend, vary or cancel the approval of the maintenance programme if the CAAM has evidence that the requirements of the Aircraft Maintenance Programme are not being followed or that the required standards of airworthiness are not being maintained.


Prepared by

Sign :   
Name : **AHMAD AKMAL ALIF ABDUL AZIZ**  
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**Galaxy Aerospace (M) Sdn. Bhd.**  
**(1040262-D)**  
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Verified by

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**Galaxy Aerospace (M) Sdn Bhd**  
**(1040262-D)**  
Date : 24/09/2021

Accepted by

Sign :   
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**ABDUL HADY**  
**Pegawa: Kejuruteraan (KB48)**  
**Cawangan Kejuruteraan Pesawat**  
**Pangkalan Udara Subang**  
**JBPM**  
Date : 24.09.2021

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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	14	1	20.09.2021
	15	1	20.09.2021

Reviewed by

Signature :

Name :

Date :



OMAR BIN AHMAD  
Quality Assurance Manager  
Galaxy Aerospace (M) Sdn. Bhd

24.09.2021 (1040262-D)

Approved by

Signature :

Name :

Date :

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# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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## RECORD OF AMENDMENTS

### ‘A’ AMENDMENTS

NO.	SUBJECT	SIGNATURE	DATE INCORPORATED

### ‘B’ AMENDMENTS

NO.	SUBJECT	SIGNATURE	DATE INCORPORATED
1	a. Chapter 1A.0 Page 1 of 1 i. New chapter of Maintenance Programme Approval Page in compliance with issuance of CAGM 6804		20/09/2021
	b. Chapter 5.0 Page 1 of 1 i. Addition of new Chapter 1A.0 in Table of Content		
	c. Chapter 6.0 Page 11 of 11 i. Changed Moderate to Severe Corrosion Control Program		
	d. Chapter 9.0 Page 5 of 10 i. Table C: Added item C23 5 Tyre Replacement // 1500 Landings Inspection. ii. Table D: Changed Corrosion Control inspection interval to Severe		
	e. Chapter 14.0 Page 1 of 1 i. Added corrosion control program to airworthiness checks		
	f. Chapter 17.0 Page 15 of 15 i. Added Post Repair Inspection of Upper Panel Assembly.		

### ‘C’ AMENDMENTS

NO.	SUBJECT	SIGNATURE	DATE INCORPORATED

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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## I. RELIABILITY PROGRAM

- 1) The maintenance requirement for this helicopter have been developed using Manufacturer's Aircraft Maintenance Planning Information (AMPI) document. This covers the Hard Time and On Condition maintenance for the helicopter.
- 2) For Condition Monitoring of the helicopter, on top of Reliability Programmes normal prime sources as stated in the Continuing Airworthiness Management Exposition (CAME), for helicopter operated using this Maintenance Programme shall add into its Reliability Programmes the input from onboard and Engine Power Available Trend Monitoring.
- 3) It is the responsibilities of JBPM as owner of the helicopter to ensure the implementation of the program by the current CAMO responsible for the helicopter.
- 4) This shall include the transfer of all Reliability Programme normal prime sources data and history to the new CAMO should the owner decides to change the CAMO in the future.
- 5) It is the responsibility of the CAMO to execute the program and based on the data analyzed through a Review Board Meeting chaired by CAMO and based on the findings to review this Maintenance Programme.
- 6) The Reliability Program shall be referred to GAM second level manual, Continuing Airworthiness Management Procedures (CAMP).

## J. CORROSION INSPECTION PROGRAM (*Ref: IETP 39-A-00-10-00-02A-028A-D*)

- 1) The inspection tasks type and interval for the aircraft shall be maintained in accordance with the **Severe Inspection Program**.
- 2) Each task should be performed at the scheduled maintenance frequency applicable to the installation/component as per AMPI/MPM Chapter 5 or at the calendar interval specified, whichever occurs first.
- 3) The operator, based on his own operational experience, may adapt the suggested schedule as needed to optimize the effectiveness of Corrosion Protection.
- 4) The Corrosion Protection Program will be effective only after the installation/components will be inspected and protected according to the instruction provided in this manual.



# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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NO.	INSPECTION DESCRIPTION	REFERENCE	ITEM	INTERVAL/FREQUENCIES	REMARKS
C15	2600 Hoist Lifts // 36 M Inspection	AMPI 04-30 CMR T5	AA	Every 36 Months or 2600 hoist lifts whichever occurred first	-
C16	400 Hoist Lifts // 6 M Inspection	AMPI 04-30 CMR T5	AA	Every 6 Months or 400 hoist lifts whichever occurred first	-
C17	4450 Landings	AMPI 05-21 SUMC T3	AA	Every 4450 landings	-
C18	23450 Landings	AMPI 05-21 SUMC T3	AA	Every 23450 landings	-
C19	27400 Landings	AMPI 05-21 SUMC T3	AA	Every 27400 landings	-
C20	Check post installation of MR Hub retaining assembly bolts.	AMPI 05-21 SUMC T3	AA	At 5 FH – 10 FH	<u>Note 1</u>
C21	Check post installation of TR Hub retaining assembly bolts.	AMPI 05-21 SUMC T3	AA	At 5 FH – 10 FH	<u>Note 2</u>
C22	Post Rotor Start/Stop with Wind Speed Above 33kts.	AMPI 04-20 MI T6	AA	Within 15 FH from the event	-
C23	5 Tyre Replacement // 1500 Landings Inspection	AMPI 05-21 SUMC T3	AA	Every 5 Tyre Replacement or 1500 Landings whichever occurred first	-

NO.	INSPECTION DESCRIPTION	REFERENCE	ITEM	INTERVAL/FREQUENCIES	REMARKS
<b>D</b>	<b>CORROSION CONTROL PROGRAM (SEVERE INSPECTION PROGRAM)</b>				
D1	Daily Inspection	ACCP 00-10 TO T2	AA	Daily	<u>Note 3, Integrated in Airworthiness Checks</u>
D2	1W Inspection	ACCP 00-10 TO T2	AA	Every 1 week	<u>Note 3</u>
D3	1M Inspection	ACCP 00-10 TO T2	AA	Every 1 month	<u>Note 3</u>
D4	3M Inspection	ACCP 00-10 TO T2	AA	Every 3 months	<u>Note 3</u>

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

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NO.	INSPECTION DESCRIPTION	REFERENCE	ITEM	INTERVAL/FREQUENCIES	REMARKS
D5	6M Inspection	ACCP 00-10 TO T2	AA	Every 6 months	<u>Note 3</u>
D6	1Y Inspection	ACCP 00-10 TO T2	AA	Every 1 year	<u>Note 3</u>
D7	2Y Inspection	ACCP 00-10 TO T2	AA	Every 2 years	<u>Note 3</u>

NO.	INSPECTION DESCRIPTION	REFERENCE	ITEM	INTERVAL/FREQUENCIES	REMARKS
<b>E</b>	<b>AIRFRAME UNSCHEDULED INSPECTIONS</b>				
E1	All task listed in table 3 under section UMC	AMPI 05-21 SUMC T3, SRHS T6	AA	As stipulated in the AMPI 05-21	-
E2	Heavy landings	39-A-00-70-00-01A-28AA-A	AA	At each occurrence	-
E3	Excess "g"	39-A-00-70-00-02A-28AA-A	AA	At each occurrence	-
E4	Lightning strikes	39-A-00-70-00-03A-28AA-A	AA	At each occurrence	-
E5	Exceeding maximum all up weight	39-A-00-70-00-04A-28AA-A	AA	At each occurrence	-
E6	Transmission over-torque	39-A-00-70-00-05A-28AA-A	AA	At each occurrence	-
E7	Exceeding rotor speed limits	39-A-00-70-00-06A-28AA-A	AA	At each occurrence	-
E8	Exceeding maximum forward speed	39-A-00-70-00-07A-28AA-A	AA	At each occurrence	-
E9	Exceeding maximum sideway speed	39-A-00-70-00-08A-28AA-A	AA	At each occurrence	-
E10	Exceeding maximum rate of turn in flight	39-A-00-70-00-09A-28AA-A	AA	At each occurrence	-
E11	Exceeding CG envelope limits	39-A-00-70-00-10A-28AA-A	AA	At each occurrence	-
E12	Main rotor blade strike	39-A-00-70-00-11A-28AA-A	AA	At each occurrence	-
E13	Tail rotor blade strike	39-A-00-70-00-12A-28AA-A	AA	At each occurrence	-
E14	Engine overspeed	39-A-00-70-00-13A-28AA-A	AA	At each occurrence	-

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW139				
<b>PAGE TITLE:</b>	INSPECTION POST MODIFICATION / REPAIR	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW139	<b>ISSUE:</b>	2	<b>REVISION:</b>	1
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## INSPECTION POST MODIFICATION / REPAIR

No.	Description	Reference	Item	Inspection	Interval	Remarks
1	Upper Panel Assembly Repair	EOAS/139/21/003	No 1 Damper Attachment Base	Do a GVI for damage and condition. REF: AMP 39-A-65-11-09-00A-720A-A	300FH	9M-BOC only

**DRAFT**

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW139				
<b>PAGE TITLE:</b>	AIRWORTHINESS CHECKS	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW139	<b>ISSUE:</b>	2	<b>REVISION:</b>	1
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6. If a fault is detected or in case of doubt during the inspection of the aircraft, refer to the different tasks related to the ATA100 chapters concerned. If a fault is detected or in case of doubt during inspection of the engine, refer to the P&WC PT6-67C EMM to know the corrective actions to be applied.
7. External pre-flight checks  
The inspection commences at the nose and continues clockwise around the helicopter. During the inspection, check that there are no leaks from overboard drains, that all vents, air intakes, air outlets and fire access points are clear of obstructions, and all access panels and antennas are secure.
8. Reference shall be made to:
  - a) AW139 AMPI 05-21-00
  - b) AW139 Rotorcraft Flight Manual, Section 2 – Normal Procedures and Section 5 – Optional Equipment Supplements
  - c) PT6C-67C Engine Maintenance Manual
  - d) EASA AD2018-0112R1
  - e) AW139 ACCP 00-10-00

# JABATAN BOMBA DAN PENYELAMAT MALAYSIA

<b>DOCUMENT TITLE:</b>	AIRCRAFT MAINTENANCE PROGRAMME	<b>AIRCRAFT TYPE:</b>	LEONARDO HELICOPTER AW139		
<b>PAGE TITLE:</b>	AIRWORTHINESS CHECKS	<b>REFERENCE:</b>	JBPM/CAMO/AMP/AW139	<b>ISSUE:</b>	2
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NO.	ITEM	INSPECTION REQUIREMENTS	REMARKS
<b>Daily Fuel Drain Check</b>			
134.	Fuel Tank Drain Check	Drain 10 to 20cc from each fuel sump water drain valve by activating the relevant push button. Release the pushbutton, confirm that the fuel is free of water and no fuel is dripping from the aircraft drains. REF: AW139 RFM Section 2- External Pre-Flight Check	BFF
<b>Corrosion Control Program</b>			
135.	Restoration (Cleaning) of the helicopter external surfaces	Perform a restoration (cleaning) of the helicopter external surfaces and exposed (wetted) areas. REF: 39-A-20-21-01-00A-258A-D, ACCP 00-10 Table 2 Tasks overview	AC

**Notes:**

1. If a step on rear fairing is installed on MLG sponson the task can be performed by the pilot prior first flight of the day. It is not necessary to apply this task only if it is performed by the pilot prior first flight of the day.
2. Task to be performed by following the instructions contained in the last issue of P&W PT6C-67C Engine Maintenance Manual.