

Report No.	IAR-2021/010
Area / Scope	GAM/145 – AW139 Float
Date of audit	12 March 2021

A AUDIT DETAILS							
1. Copy to	Engineering Manager						
2. Purpose	The objective of the audit is to carry out audit on GAM Safety Equipment Workshop as per CAA Malaysia requirement Notice 6501 for the purpose to include additional part number into GAM Workshop Capability List.						
3. Reference	1. CAAM Notice 6501						
	2. GAM/CAAM/MOE Issue 2 Revision 03						
	3. Workshop Procedure Manual Issue 1 Revision 01						
	4. Workshop Capability Procedure (WCP 2.1.5)						
4. Auditor	Nur Amirah Izani Binti Kamarzaman						
B AUDIT SUMMARY							
1.	<p>Audit of Safety Equipment Workshop carried out to evaluate the compliance and adequacy of procedure (readiness) of the workshop operations for the additional part number requested into the capability list. The additional part no. was requested to cater the current maintenance contract and other interested customer/client. MOC No.: GAM/MOC/19/0025 dated 9 Apr 2019 raised.</p> <p><u>Description, Scope And Model of Component Under Workshop Capability</u></p> <p>Description</p> <p>a. This section details the GAM capability to perform maintenance checks and service of 1-year inspection to Aerosekur Float (AW139).</p> <p>Scope of Capability</p> <p>a. Maintenance for workshop capability to be carried out by GAM to service Aerosekur Float are as follows:</p> <ul style="list-style-type: none"> i. Disassembly/ Reassembly ii. Detail Inspection iii. Leak Check iv. Inspection, Repair & Replacement <p>b. Repair for failure or defect found during inspection which is out of limit or not covered within the approved manual must be repaired by the manufacturer or by an approved repair center.</p> <p>Model of Component under Workshop Capability</p> <table border="1" data-bbox="256 1973 1481 2087"> <thead> <tr> <th>Components</th> <th>Model/ Series</th> <th>Part Number</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>3G9560V00131</td> </tr> </tbody> </table>	Components	Model/ Series	Part Number			3G9560V00131
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		3G9560V00131					

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Floatation system	Aerosekur Float system	3G9560V00231	
		3G9560V01231	
		3G9560V01331	
		3G9560V01232	
		3G9560V01332	
		3G9560V00331	
		3G9560V00431	
		3G9560V01531	
		3G9560V01433	
		3G9560V01533	
		3G9560V01432	
		3G9560V01532	
		3G9560V01431	
		3G9560V00332	
		3G9560V00432	
		3G9560V00333	
		3G9560V01434	
3G9560V00433			
3G9560V01534			

The audit was carried out with the reference made to the CAAM Notice 6501, and latest revision of GAM/CAAM/MOE, Workshop Procedure Manual and Workshop Capability Procedure. Audit methodology used are sampling of document, interview with personnel and observation of the work area.

The scope of this pre-audit covers;

- a. Facility requirement;
- b. Personnel requirement;
- c. Tool / Equipment / Material requirement;
- d. Maintenance Data / Documents;
- e. Demonstration of First Article Inspection (FAI) i.a.w the technical reference up to repair capability

Demonstration of the FAI of the article carried out i.a.w the approved reference and found to be satisfactory.

The requirements to perform the maintenance to the requested part number found to be similar to the Aerosekur Float part numbers approved in the GAM Workshop Capability List.

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Personnel Contacted (Auditee)

Mr. Bahiran Abdul Aziz	Safety Equipment Workshop Supervisor
Mr. Mohd Nurfitriy Basiron	Nominated Certifying Staff
Mr. Akhmal Anuar	Technician

Facility

- Safety Equipment (Aerosekur Float) Workshop is in the same building with GAM HQ Office Building. It is a room which consist of the area to study maintenance data, complete the maintenance record, storage of tools, material, and place to perform the intended maintenance.
- Room is equipped with air conditioning unit, working bench, shadow board for tools control, air supply for testing, personal computer to access the manual and paperwork purposes and a printer.
- The room was found secured and can only be accessed by the authorised personnel only.
- Workshop space was found sufficient for the intended maintenance activities.
- Lighting found bright enough for inspection and maintenance purposes.
- Temperature and humidity found controlled and recorded.
- Incoming, holding, and outgoing racks found available. The racks are shared between safety equipment maintenance activities for product segregation.
- Safety evacuation plan and safety equipment i.e., serviceable fire extinguisher, and first aid kit found available at the work area.

Maintenance Data / Document

- The Publication Master List Issue GAM/WS/P-01-2021 dated 15 January 2021 found available for viewing.
- Maintenance Manual used to carry out maintenance activities was made available and found current during the audit. The manual was obtained/accessed from the IETP software which installed in the personal computer available in the workshop. The revision of the manual is controlled/monitored by the technical publication personnel.
- The workshop worksheet reviewed and found to be satisfactory.
- The applicable reference manuals are as follow;

Part Number	Manual References
3G9560V00131	AW139 AMP 39-A-95-61-14-00A-31AA-k latest revision Forward float assembly (left/right) – Detailed inspection.
3G9560V00231	AW139 AMP 39-A-95-61-14-00A-530A-k latest revision Forward float assembly (left/right) – Disassemble.
3G9560V01231	AW139 AMP 39-A-95-61-14-00A-710A-k latest revision Forward float assembly (left/right) – Assemble procedure.
3G9560V01331	AW139 AMP 39-A-95-61-14-01A-364A-k latest revision Flotation bag (forward float assembly) – Leak check
3G9560V01232	AW139 AMP 39-A-95-61-14-01A-66AA-k latest revision Flotation bag (forward float assembly) – Repair procedure
3G9560V01332	AW139 AMP 39-A-95-61-14-01A-91LA-k latest revision Flotation bag (forward float assembly) – Unfold/fold procedure.
	AW139 AMP 39-A-95-61-14-02A-921A-k latest revision Inflate / deflate valve (forward float assembly) – Replacement

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	(remove and install a new item)
3G9560V00331	AW139 AMP 39-A-95-61-15-00A-31AA-k latest revision Aft float assembly (left/right) – Detailed inspection.
3G9560V00431	AW139 AMP 39-A-95-61-15-00A-530A-k latest revision Aft float assembly (left/right) – Disassemble.
3G9560V01531	AW139 AMP 39-A-95-61-15-00A-710A-k latest revision Aft float assembly (left/right) – Assemble procedure.
3G9560V01433	AW139 AMP 39-A-95-61-15-01A-364A-k latest revision Flotation bag (Aft float assembly) – Leak check
3G9560V01533	AW139 AMP 39-A-95-61-15-01A-66AA-k latest revision Flotation bag (Aft float assembly) – Repair procedure
3G9560V01432	AW139 AMP 39-A-95-61-15-01A-91LA-k latest revision Flotation bag (Aft float assembly) – Unfold/fold procedure.
3G9560V01532	AW139 AMP 39-A-95-61-15-02A-921A-k latest revision Inflate / deflate valve (Aft float assembly) – Replacement (remove and install a new item)
3G9560V01431	AW139 AMP 39-A-95-61-05-00A-720A-k latest revision Left bottle assembly – Install procedure.
3G9560V00332	AW139 AMP 39-A-95-61-06-00A-720A-k latest revision Right bottle assembly – Install procedure.
3G9560V00432	
3G9560V00333	
3G9560V01434	
3G9560V00433	
3G9560V01534	

Tools / Equipment / Material

- Tools / equipment / material checked for availability and serviceability in accordance with the relevant maintenance data for the intended scope of maintenance.
- List of Tools / equipment and shadow board found for tool control. The tools' location was also identified in the list for ease of monitoring.
- The finding on tools for the intended maintenance is as follows;

No.	Nomenclature	P/N*	QA Remarks
1	Thermometer	Commercially Available	Available CTE/196
2	Barometer	Commercially Available	Available CTE/212
3	10-power magnifying glass	Commercially Available	Available G2323
4	Heat Gun	Commercially Available	Available G5691
5	Inflate/Deflate device	303636A or commercially available	Available ST389
6	Inflate/Deflate device adapters kit	304691B	Available ST068, ST233, ST234, ST235
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	1. Hose	307426B	Superseded by 304691B
	2. Hose adapter	307425A	
	3. Float adapter	314978A	
8	Air compressor	Commercially Available	Available GAM/GSE/207
9	Hose	Commercially Available	Available
10	Emergency floats maintenance kit		
	1. Check valves mounting lever	202313A	Available ST183
	2. Forward float support	312520A	Available ST064
	3. Forward float support	304224A	Available ST187, ST188
	4. Inflate-deflate valve key	202316A or commercially available	Available G1761
	5. Hoses plugs	312253B	Available
	6. Hydrotest plugs	308970A	Available ST226
	7. Hoses test tool	313693A	Available CTE/08
	8. Left aft float support	312529A	Available ST066
	9. Right aft float support	312530A	Available ST065
	10. Aft float support	304212A	Available ST348
	11. Relief valve test tool	313692A	Available CTE/49
	12. Relief valve mounting key	202315A	Available ST390
11	Floats repacking kit :-	304695A	Available ST539
	1. Passing rope device	202295A	Available ST/257
	2. Closure rope pulling tool	202294A	Available ST227, ST228
	3. Stress riser string tool	202318A	Available ST231, ST232
	4. Sleeker	202317A	Available ST229, ST230
	5. Diffuser cap	303717A	Available ST238, ST239
	6. Diffuser cap	303719A	Available ST236, ST237
	7. Fairlead wrench	304692A	Available ST225
12	Torque wrench	Commercially Available	Available CTE/43
13	Roller	Commercially Available	Available G1767
14	Pressure meter	Commercially Available	Available CTE48

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Personnel

- a. Total of 03 workshop personnel found available for the operation, 01 Workshop supervisor, 01 nominated certifying staff and 01 technician.
- b. The nominated certifying staff (Mohd Nurfitri Basiron) records reviewed and found satisfactory. Mr. Mohd Nurfitri is an experienced technician from HRD Aerosystem Sdn Bhd.
- c. He has been involved the component maintenance since July 2015 and had attended the specific training for A189, AW139 helicopters float and raft conducted by the OEM.
- d. Mr. Mohd Nurfitri's Work experience logbook reviewed and found satisfactorily comply to the 6/24 requirements.
- e. Personal Protective Equipment i.e., earmuff and google found available at the work area. Staff also been equipped with safety shoes and uniforms.

2. Findings / observation

Observation

Nil

Minor Finding

Nil

Major Finding

Nil

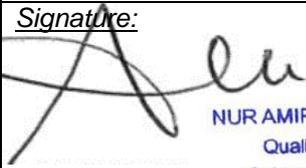
3. Conclusion

Nil findings found during the audit. Safety Equipment – AW139 Aerosekur Float operation found to be satisfactory and recommended for the additional part number.

4. Prepared by

Signature:

Date: 15 March 2021

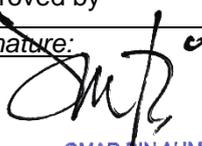


NUR AMIRAH IZANI KAMARZAMAN
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5. Approved by

Signature:

Date: 15 March 2021



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6. Distribution

- Managing Director | Date:
- Others | Date: