

## CHECKLIST 5

### G2000SS DIVING HELMET

### MONTHLY INSPECTION AND MAINTENANCE CHECKLIST

Inspection and maintenance procedures in accordance with this checklist are to be conducted at least once a month for helmets used frequently and once every two months for helmets used less than ten times (i.e. ten dives) in any given month.

This checklist is to be used in conjunction with the helmet technical manual for guidance in conducting each step in the inspection and maintenance of the G2000SS diving helmet.



**NOTE:**

- *The procedures in this checklist are to be performed only by personnel who have received factory authorized training through an Aqua Lung Service and Repair Seminar.*
- *If you do not completely understand all of the procedures outlined in this checklist, contact Aqua Lung to speak with a technical advisor before proceeding any further.*
- *If the helmet is used in contaminated water, monthly inspection and maintenance is required.*
- *After completing this checklist, it should be kept in the helmet maintenance log/file.*



**WARNING:** Aqua Lung America strongly recommends completion of this checklist and meeting the minimum requirements provided before using the G2000SS diving helmet. However, these requirements are not conclusive, as further steps may be required depending on the type of activity performed. **FAILURE TO COMPLY WITH THIS CHECKLIST MAY RESULT IN SERIOUS INJURY OR EVEN DEATH.**




#### COMPLETE THE FOLLOWING BOXES PRIOR TO THE CHECKLIST

#### COMPLETE THE SIGNATURE, DATE AND COMMENTS AT THE END OF THE CHECKLIST







<b>Helmet Serial No:</b>	<b>Date:</b>
<b>Technician:</b> (Print Name)	

## MONTHLY INSPECTION AND MAINTENANCE CHECKLIST (continued)





1. All parts are to be visually inspected for damage or deterioration.
2. Any damaged or defective parts must be replaced.
3. Between annual overhauls certain consumable parts (e.g. o-rings) may be reused if no damage or deterioration is revealed by the inspection process.

STEPS	PROCEDURE	INITIALS
<b>NECK DAM</b>	<ul style="list-style-type: none"> <li>• Visually inspect the neck dam ring for signs of damage, such as bends, scratches on the quad ring surface area, or any other deformities.</li> <li>• Visually inspect the neck seal for cuts and /or deterioration. A damaged neck seal must be replaced.</li> <li>• If the quad ring is dry, lightly lubricate the quad ring.</li> <li>• Replace the neck dam assembly onto the helmet and ensure a proper fit.</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, neck dam assembly section for guidance.</p>	
<b>NECK RETAINER AND LOCKING ASSEMBLY</b>	<ul style="list-style-type: none"> <li>• Visually inspect the neck retainer for damage, bends, wear or loose screws.</li> <li>• Confirm correct operation of locking system.</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, neck retainer and locking system section for guidance.</p>	
<b>HEAD LINER</b>	<ul style="list-style-type: none"> <li>• Visually inspect for deterioration and/or damage. If necessary, replace with new head liner.</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, head liner section for guidance.</p>	



## MONTHLY INSPECTION AND MAINTENANCE CHECKLIST (continued)

STEPS	PROCEDURE	INITIALS
<b>COMMUNICATIONS</b>	<ul style="list-style-type: none"> <li>• <u>Without removing the comms system</u>, check condition of speakers and microphone by visual inspection. If inspection reveals poor quality of sound, replace with new speakers and/or microphone.</li> <li>• <u>Without removing them</u>, check communication posts and terminal block (if equipped) for insulator cracks or damage. If necessary, replace with new posts.</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, communications section for guidance.</p>	
<b>NOSE CLEARING DEVICE (NCD)</b>	<ul style="list-style-type: none"> <li>• Check NCD for ease of movement and then remove NCD and check for damage to the NCD body and components.</li> <li>• Visually inspect o-rings and neoprene pad for damage and/or deterioration and if necessary replace. Lubricate o-rings lightly as required.</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, nose clearing device section for guidance.</p>	
<b>ORAL-NASAL MASK</b>	<ul style="list-style-type: none"> <li>• Remove oral-nasal mask and check for damage (e.g. splits, cuts, tears) and/or deterioration. No damage is permitted.</li> </ul> <p> <b>NOTE:</b> If no damage or deterioration is found, wash oral-nasal mask with soap and water, rinse with fresh water and allow to dry.</p> <p> <b>NOTE:</b> Refer to the technical manual, oral-nasal mask section for guidance.</p>	
<b>INHALATION VALVE HOUSING AND INHALATION VALVE</b> (one way valve)	<ul style="list-style-type: none"> <li>• Remove and visually inspect both components for damage and/or deterioration. <u>DO NOT remove the inhalation valve from the valve housing.</u></li> </ul> <p> <b>NOTE:</b> All spokes of the "wagon wheel" must be present.</p> <p> <b>NOTE:</b> Refer to the technical manual, oral-nasal mask section for guidance.</p>	

**MONTHLY INSPECTION AND MAINTENANCE CHECKLIST (continued)**

STEPS	PROCEDURE	INITIALS
<p><b>SECOND STAGE REGULATOR</b></p>	<ul style="list-style-type: none"> <li>• Remove the second stage regulator from helmet.</li> <li>• Visually inspect the flapper valve for damage or deterioration. If damaged, replace flapper valve.</li> <li>• Separate the main assembly as follows:               <ul style="list-style-type: none"> <li>• Unscrew diaphragm housing from main body.</li> <li>• Unscrew connecting ring.</li> <li>• Pull out LP valve assembly from main body.</li> </ul> </li> <li>• Visually inspect these assemblies, then wash them with soap and water, rinse with fresh water and allow to dry. Compressed air may be used to assist drying.</li> <li>• Set the LP valve assembly to the correct position. Re-adjust as required (refer to technical manual).</li> <li>• When dry, re-install LP valve assembly into main body. Lubricate o-ring and install connecting ring.</li> <li>• Adjust the lever pin (refer to technical manual).</li> <li>• Insert lever into diaphragm tube, lubricate o-ring and re-attach diaphragm housing to main body.</li> </ul> <p> <b>NOTE:</b> <i>If regulator performance is suspect, the LP valve assembly may need to be disassembled and serviced by a trained technician.</i></p> <p> <b>NOTE:</b> <i>Refer to the technical manual, second stage regulator section for guidance.</i></p>	
<p><b>FREE FLOW VALVE KNOB</b></p>	<ul style="list-style-type: none"> <li>• Remove the free flow valve knob and check the condition of the guide hole. It should be square and firm. If any deterioration or excess play is present, replace knob.</li> </ul> <p> <b>WARNING:</b> <b>Knob slippage on the stem may cause dangerous conditions to the diver, including death.</b></p> <p> <b>NOTE:</b> <i>Refer to the technical manual, free flow/exhaust valve section for guidance.</i></p>	

**MONTHLY INSPECTION AND MAINTENANCE CHECKLIST (continued)**

STEPS	PROCEDURE	INITIALS
<b>FREE FLOW / EXHAUST VALVE</b>	<ul style="list-style-type: none"> <li>• Remove the exhaust valve cover and <u>without removing the free flow/exhaust valve from the helmet</u>, remove the snap ring and flapper valve.</li> <li>• Visually inspect the flapper valve for damage or deterioration. Clean the flapper valve with soap and water, rinse with fresh water and allow to dry. If damaged, replace the flapper valve.</li> <li>• Clean the external seating surface on the valve body (i.e. where the flapper valve makes contact).</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, free flow / exhaust valve section for guidance.</p>	
<b>MANIFOLD</b>	<ul style="list-style-type: none"> <li>• <u>Without removing the manifold body from the helmet</u>, remove the manifold plug and clean the manifold screen. Replace on completion.</li> <li>• Check both one-way valves for proper operation by sucking on the umbilical and scuba hose adapters.</li> </ul> <p> <b>NOTE:</b> Refer to the technical manual, manifold section for guidance.</p>	
<b>HELMET SHELL AND COMPONENTS</b>	<ul style="list-style-type: none"> <li>• Visually inspect the helmet with the above listed components removed from the helmet.</li> <li>• Verify condition and inspect for damage to the helmet shell.</li> <li>• Check all o-ring placement surfaces to ensure proper seal.</li> <li>• Wash the shell with soap and water, rinse with fresh water and dry with air and towels. Blow water out of inner airway using compressed air.</li> </ul>	
<b>FINAL ASSEMBLY AND TEST</b>	<ul style="list-style-type: none"> <li>• Follow the technical manual to assemble helmet to original condition.</li> <li>• Pressurize the helmet and perform a functional test and leak check.</li> </ul>	

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Comments: \_\_\_\_\_

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