

Draft Not Intended for Publication (03/20/04)

**G2000SS COMMERCIAL DIVING HELMET
DAILY CHECKLIST AND ASSEMBLY
APPENDIX A**

BEFORE DIVING THE G2000SS HELMET, THIS CHECKLIST AND ASSEMBLY MUST BE COMPLETED DAILY.

WARNING: G2000SS strongly recommends completion of this checklist and meeting the minimum requirements provided before using the G2000SS 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 DAILY CHECKLIST MAY RESULT IN SERIOUS INJURY OR EVEN DEATH.**

CAUTION: While using the G2000SS Helmet in commercial diving, the diver must also adopt the use of an Emergency Gas System (“EGS”) which has been correctly maintained and is properly functioning.

NOTE: When using the EGS during completion of the daily checklist, the First Stage Regulator must have an intermediate supply pressure output between 135 and 150 psig. In addition, the First Stage Bleed/Relief Valve should be set between 180 and 200 psig.

Helmet Serial Number:	Date:
Technician: (signature)	Print Name:

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DAILY CHECKLIST

WARNING: When assembling the Neck Dam onto the G2000SS Helmet, the Neck Retainer must be locked with Pool Pins into the Locking Pins, and its proper function must be ensured before the commencement of diving.

ACTION	PROCEDURE	INITIALS
1. NECK RETAINER ASSEMBLY (must be completed by diver/tender)	(a) Visually inspect Neck Retainer Assembly for signs of damage, such as bends. Confirm that the retainer fits properly. (b) Make sure the Pull Pin Assembly is properly working and is not deformed in any way. Ensure that the Lock Pin is in place and is not damaged.	<hr/> <hr/>
2. NECK DAM RING ASSEMBLY (must be completed by diver/tender)	(a) Visually inspect the Neck Dam Ring for signs of damage, such as bends, scratches on the O-ring surface area, or any other deformities. (b) Visually inspect the Neck Seal for signs of damage such as tears, rips or cuts. (c) If the Quad Ring appears dry, slightly lubricate the Quad Ring. (d) Replace the Neck Dam Assembly onto the Helmet and ensure a proper fit. (e) Ensure proper function of the Pull Pins on the Neck Retainer Assembly.	<hr/> <hr/> <hr/> <hr/>
3. HELMET INSPECTION	(a) Make a visual inspection of the helmet (interior and exterior) for damage and/or	

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<p>(must be completed by diver/tender)</p>	<p>contamination. Note- if you choose to clean a contaminated area of the shell using a wire brush, the wire brush must be stainless steel or the are will get contaminated with carbon steel brush.</p> <p>(b) Inspect the Oral Nasal Valve to ensure that it is installed correctly and that the Oral Nasal Mask is installed on the Regulator. Also, make sure the Nose Clearing Device operates without problems. If necessary, lubricate. (Please refer to the Manual for guidance).</p> <p>(c) Ensure the Earphones and Microphones are properly installed. (Please refer to the Manual for guidance).</p> <p>(c) Ensure the Head Cushion fits properly, and check for worn-off Velcro, tears and/or rips. (Please refer to Manual for guidance).</p>	<hr/> <hr/> <hr/> <hr/>
<p>4. EGS INSPECTION (must be completed by diver/tender).</p> <p>(Note: Must make sure that the EGS is maintained properly)</p>	<p>(a) Visually inspect all EGS Hoses for any signs of damage or defect.</p> <p>(b) Ensure that the cylinder is within the VIP and the hydrostatic date.</p> <p>(c) Check the First Stage Regulator pressure settings before each dive.</p> <p>(d) Make sure there is no damage to the Safety Harness and Cylinder Retainer. Once damage occurs, repair or replace.</p>	<hr/> <hr/> <hr/> <hr/>
<p>5. INSPECT THE EGS IN THE HELMET (must be completed by diver/tender)</p>	<p>(a) Confirm the Check Valve is properly functioning by orally checking it (suck on valve to confirm seal).</p> <p>(b) Connect the First Stage Regulator to the EGS Cylinder and the Helmet Emergency Supply Check Valve. With the cylinder</p>	<hr/>

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	<p>turned off, open and close the Free Flow Valve to verify efficient operation of the valve.</p> <p>(c) Open the EGS Supply Valve on the cylinder and Log the pressure: _____ psig.</p> <p>(d) Immediately after logging pressure, open the Helmet Free Flow Valve $\frac{3}{4}$ to 1 full turn and confirm a powerful flow of gas coming out of the Defogging Train. After confirmation, close the flow.</p>	<hr/> <hr/> <hr/>
<p>6. CHECK THE DEMAND REGULATOR (must be completed by diver/tender)</p>	<p>(a) Slowly depress the Purge Button to check for excessive travel. The Purge Button should travel no less than 1/16" and no more than 1/8" (1.5 –3.0 mm) before the regulator begins flowing gas.</p> <p>(b) Depress the Purge Button completely and confirm a strong flow of gas.</p> <p>Note: If the Regulator free flows itself, or after fully depressing the Purge Button there is a weak flow of gas, Regulator needs to be adjusted or the Low Pressure Valve should be replaced or serviced by trained technician.</p>	<hr/> <hr/>
<p>7. ATTACH THE UMBILICAL (to be completed by tender)</p>	<p>(a) Blow air into the Umbilical to remove any debris, and attach the Umbilical into the Umbilical Adapter located on the Check Valve.</p>	<hr/>
<p>8. CONFIRM FUNCTION OF COMMUNICATIONS (to be completed by diver)</p>	<p>(a) Check all communications to make sure all are properly functioning.</p>	<hr/>
<p>9. CHECK THE DRY-SUIT INFLATION</p>	<p>(a) Confirm the dry suit Inflation Valve and Exhaust Valve are functioning properly.</p>	<hr/>

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HOSE (if applicable) (to be completed by tender)		
10. CHECK THE ENTIRE HELMET FOR LEAKS.	(a) Apply soap and water to gas fittings and connections (including the EGS) to check for leaks on the Helmet.	<hr/>
11. FINAL CHECK (to be completed by tender)	(a) Check to ensure the Neck Retainer is in the proper position and properly locked. (b) Ensure the diver's Safety Harness is in good condition. (c) Ensure the Umbilical strain is released. (d) Ensure the EGS Hose Quick Disconnect is in good condition and is functioning properly. (e) Ensure diver has boots, gloves, knife, and other accessories.	<hr/> <hr/>

To Technician: Note comments on the space provided below. Be sure to log maintenance in the applicable maintenance log.

Technician Signature: _____

Date: _____

Comments: _____

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