

**KIRBY MORGAN SUPERLITE DEEP SEA DIVING HELMET MODELS 17  
A/B, 17-C, 17-K, 27, AND KM-37  
SUPERVISORS EQUIPMENT CHECKS  
PRIOR TO ENTRY INTO WATER  
APPENDIX A2.4**

7-12-06

- NOTE:** This checklist is intended to be used with all KMDSI SuperLite Helmet models and KM-37.
- NOTE:** Helmet(s) being used in polluted waters, or extreme environments, will require inspection that is more frequent.
- CAUTION:** KMDSI strongly recommends the use of a Tender to assist the diver when “dressing-in”. The Tender should ensure the Helmet Liner is fastened to the Helmet Shell and the Chinstrap is properly fastened under the divers chin, once the Helmet is donned. Prior to closing the Yoke/Neck Clamp Assembly, ensure that the Clamp is installed.
- WARNING:** These are recommended minimum checks when using Kirby Morgan Helmets or Masks. Additional checks may be required as dictated by the conditions and tasks being performed. Failure to perform in-water checks may result in serious injury or death.
- CAUTION:** All surface supplied diving with Kirby Morgan Helmets must include a fully functional, properly maintained Emergency Gas System (“EGS”). The EGS should be maintained in accordance with the applicable Operations and Maintenance Manual(s).

Date:
Helmet Serial #:
Associated Equipment Serial #(s):
Technician (print name):

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Document: Checklist- SuperLite/KM- A2.4

STEP	PROCEDURES	INITIALS
1. Supply Gas	<b>Supervisor:</b> a. Ensure gas to the diver.	
2. Check Breathing System	<b>Diver- Check the following (a - e):</b>	
	a. Open and close the Steady-Flow Valve to ensure proper operation.	
	b. Check breathing resistance. Set Demand Regulator Adjustment Knob for minimum inhalation effort.	
	c. Press Purge Button to check gas purge function.	
	d. Ensure Nose Block Device slides freely.	
	e. Ensure Emergency Valve opens and closes properly. Then, ensure Emergency Valve is closed and the Bail Out Cylinder Valve is open.	
3. Check Communications	<b>Diver:</b> Perform communications check.	
4. Check Hot Water Supply (if applicable)	<b>Tender:</b> Check hot water supply connections. Ensure topside hot water supply has been switched to diver and verify flow to hot water shroud and suit (if used).	
5. Check Dry Suit Inflation Hose (if applicable)	<b>Tender:</b> Check dry suit Inflation Hose Connection. Ensure dry suit Inflation Valve and Exhaust Valve function properly.	
6. Check Entire Rig	<b>Tender:</b> Soap and leak check Helmet/Mask gas fittings and connections, including Emergency Gas System.	
<b>SL-17A/B Step 7 &amp; 8 Only, SL-17 C, K, SL-27 and KM-37, steps 8 &amp; 9</b>		
7. Check Diver's Entire Rig	<b>Supervisor/Tender- Check adjustment/fit of the entire rig, including the following (a - f):</b>	

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<p><b>NOTE:</b> On the SL-17A/B, this procedure will ensure the Neck Clamp w/Yoke Assembly is properly adjusted prior to descent.</p> <p><b>NOTE:</b> All equipment must be adjusted properly and functioning correctly. The Helmet/Mask must be breathing easily and properly.</p>	<p>a. On SuperLite 17 A/B, ensure the Rear Hinge Tab (26) is fully engaged on the alignment sleeve (88). Using thumb on the bottom of Regulator Body, (112) and middle finger on Neck Clamp (3), attempt to “pop” Neck Clamp w/Yoke Assembly (14) from bottom rim of Helmet (92).</p> <p>b. Diver’s Safety Harness.</p> <p>c. Umbilical strain release.</p> <p>d. EGS Hose Quick Disconnect.</p> <p>e. Boots, gloves, knife, and other accessories.</p> <p>f. Helmet supply pressure, minimum 115 psig.</p>	
<p><b>8. Check Breathing</b></p>	<p><b>Diver:</b> Check to ensure Helmet is breathing easily. Diver report: Breathing OK.</p>	
<p><b>9. Check Diver’s Entire Rig</b></p> <p><b><u>Danger:</u> Both Pull Pins must engage correctly Or the Neck Dam Ring Assembly could flood. Drowning may result.</b></p>	<p><b>Supervisor/Tender- Check adjustment/fit of the entire rig, including the following (a – f):</b></p> <p>a. Ensure the sealed Pull Pins are fully engaged on the base of the Helmet Ring into the Locking Collar/Neck Pad Assembly.</p> <p>b. Diver’s Safety Harness.</p> <p>c. Umbilical strain release.</p> <p>d. EGS Hose Quick Disconnect</p> <p>e. Boots, gloves, knife, and other accessories</p> <p>f. Helmet supply pressure, minimum 115 psig (7.93 bar).</p>	

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STEP	PROCEDURES	INITIALS
<b>10. Check Breathing</b>	<b>Diver:</b> Check to ensure helmet is breathing properly.  <b>Note:</b> All equipment must be adjusted properly and functioning correctly. The Helmet/Mask must be breathing easily and properly.	

Technician Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

KMDSI **highly** recommends that a certified KMDSI Repair Technician make all repairs and that only genuine KMDSI repair and replacement parts be used. Owners of KMDSI products that elect to do their own repairs and inspections should only do so if they possess the knowledge and experience. All inspections, maintenance, and repairs should be completed using the appropriate KMDSI Operations and Maintenance Manual(s). Persons performing repairs should retain all replacement component receipts for additional proof of maintenance history. Should any questions on procedures, components, or repairs arise, please contact Kirby Morgan Dive Systems, Inc., by telephone at (805) 928-7772 or via e-mail at [info@kirbymorgan.com](mailto:info@kirbymorgan.com), or contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at [divelab@aol.com](mailto:divelab@aol.com).

**NOTE:** The Maintenance Log, Appendix 3, of the Operations and Maintenance Manual may be used as a template to create blank pages to record all the maintenance performed.