

Kirby Morgan®
Deep Sea Diving Helmets
KM Diamond

A2.5
Supervisors In-Water Checklist

**NOTE**

This checklist is intended to be used with Kirby Morgan Diamond . The diving supervisor or person appointed by the diving supervisor should use this checklist as a minimum prior to deploying divers.

⚠ WARNING

These are recommended minimum checks when using Kirby Morgan Helmets or Band Masks®. Additional checks may be required as dictated by the conditions and tasks being performed. Failure to perform pre-dive set up and maintenance, as well as in-water checks may result in serious injury or death. See Modular Operations and Maintenance Manual for air supply requirements.

⚠ CAUTION

All 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 Modular Operations and Maintenance Manual(s).

⚠ WARNING

If diving is conducted with less than the minimum recommended supply pressure, the diver must tailor the work to prevent over breathing the system, resulting in exhaustion.

Date: _____

Helmet Serial Number _____ Diamond Main Tube # _____


Diamond Pod Serial # _____ Diamond Exhaust Serial # _____

Associated Equipment Serial #(s): _____

Technician (*print name*): _____


1. Check Helmet/Equipment For Leaks

DIVER - CHECK THE FOLLOWING:


| Procedures | Initials |
|---|----------|
| <p>1) DIVER: Ensure Helmet is watertight.</p> <p> If the diver is wearing a dry suit, diver reports that a proper seal has been made after checking for water leakage, gas inflation and exhaust working properly. If using hot water, diver ensure hot water supply is adequate to the suit/helmet shroud and temperature is comfortable.</p> <p>NOTE</p> | |

2. Check Breathing

DIVER - CHECK THE FOLLOWING:

| Procedures | Initials |
|--|----------|
| <p>1) DIVER: Before descending, ensure Helmet is breathing properly. Set the Demand Regulator Adjustment Knob for minimum inhalation effort. Report: Breathing OK. Make sure the surface bypass control is set to "Surface Vent."</p> <p> Failure to establish a slight free-flow during descent can result in a return line regulator lock up, requiring the diver to ascend to unlock the diaphragm. A good indicator of "lock up" is exhaust gas burping through the water purge or overpressure valve system.</p> <p>NOTE</p> | |

3. Maintain Gas Supply Over-Bottom Pressure

 If the recommended above over-bottom pressure cannot be supplied, the diver will have to tailor his workload to avoid exhaustion.

NOTE

 All KMDSI Demand Regulator models and Side Block Assemblies have a maximum design pressure of 250 psig (17 bar) over-bottom.

NOTE

CONSOLE OPERATOR/SUPERVISOR - CHECK THE FOLLOWING:

| Procedures | Initials |
|---|----------|
| <p>CONSOLE OPERATOR: Maintain minimum over-bottom gas supply pressure for depth, in accordance with the Modular O & M Manual for the type of demand regulator in use and supply system.</p> | |
| <p>SUPERVISOR: Confirm exhaust gas is venting to the surface/bell with no water exiting exhaust hose. For surface supplied air diving to depths of 100 fsw (40 msw), no return topside control unit is needed. For diving deeper than 100 fsw (40 msw) to a maximum depth of 164 fsw (50 msw), a topside back-pressure control system must be used. For saturation bell diving, the diamond return line must be connected to the bell water trap/back pressure system, and must have a minimum negative pressure of 0.75 bar (11 psig) and a maximum of 2 bar (30 psig).</p> | |

Supervisor's Name: _____ Date: _____

Supervisor's Signature: _____

Comments: _____

KMDSI strongly 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 user guide and 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 kmdsi@kirbymorgan.com, or contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at divelab@divelab.com.



The Maintenance Log, Appendix 3, found in the Misc. Appendices checklists on the Kirby Morgan website, may be used as a template to create blank pages to record all the maintenance performed.