

# Kirby Morgan® Manifold Block

## Daily Set-Up And Functional Checklist

### A2.3

THIS DAILY SET-UP AND FUNCTIONAL CHECKLIST SHOULD BE COMPLETED PRIOR TO COMMENCEMENT OF DAILY DIVING OPERATIONS OR AT LEAST ONCE A DAY IF BEING USED DURING CONTINUOUS DIVING.

**NOTE:** Manifold Blocks being used in polluted waters, or extreme environments, will require more frequent inspection.

#### **WARNING**

**These are recommended minimum checks when using the Kirby Morgan MANIFOLD BLOCK. 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 (umbilical) diving conducted using Kirby Morgan Full Face Masks MUST INCLUDE THE USE of 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:
Associated Equipment Serial # (s), if applicable:
Equipment belonging to:
Technician (print name):
Remarks:

## Procedures

**DIVER/TENDER - CHECK THE FOLLOWING:**

Step	Procedures	Initials	
		Owner	Certified Technician
1) Assembly Inspection	1) Visually inspect the Assembly for signs of damage.		
	2) Test-mate the threads.		
	3) Confirm the smooth operation of the control knob.		
	4) Check to ensure all the port plugs are installed and are tight.		

Step	Procedures	Initials	
		Owner	Certified Technician
2) EGS Inspection	1) Inspect all EGS Hoses for signs of damage.		

Step	Procedures	Initials	
		Owner	Certified Technician
2) EGS In-spection	2) Inspect the cylinder and valve for signs of damage.		
	3) Confirm the First Stage Regulator I.P. and Over-Pressure Bleed/Relief Valve settings have been checked within the past month.		
	4) Inspect the Safety Harness and Cylinder Retainer for wear or damage. Repair/replace as necessary.		

Step	Procedures	Initials	
		Owner	Certified Technician
3) Assembly Check	1) Orally check the one-way valve by blowing through it. Air should pass freely out of the open hose(s). Next, suck back on the umbilical adapter, no air should pass back through the one-way valve. If air can be drawn back through the one-way valve, the one-way valve will require overhaul or replacement. <b>DO NOT DIVE if test fails.</b>		
	2) Connect the EGS supply hose to the block's EGS Valve and connect the open hose(s) to the mask.		

Step	Procedures	Initials	
		Owner	Certified Technician
3) Assembly Check	3) Open the EGS supply valve on the cylinder.  Log the pressure _____ psig.  Next open the EGS valve on the Manifold Block.		
	4) Check for gas escaping from the one-way valve. If any gas flow is detected the one-way valve should be overhauled or replaced.		
	5) Ensure the EGS valve on the block is closed.		

Step	Procedures	Initials	
		Owner	Certified Technician
4) Umbilical	<b>Tender:</b> 1) Blow down the umbilical and attach it to the umbilical adapter on the one-way valve.		

Step	Procedures	Initials	
		Owner	Certified Technician
5) Communications	<b>Diver:</b> 1) Perform communications check.		

Step	Procedures	Initials	
		Owner	Certified Technician
6) Check the Dry Suit Inflation Hose	<b>Tender:</b> 1) Check the dry suit inflation hose connection. Ensure the dry suit inflation valve and exhaust valve function properly.		

Step	Procedures	Initials	
		Owner	Certified Technician
7) Tender-Check the Entire Rig	1) Soap and leak check the Manifold Block gas fittings and connections including the EGS.		
	2) Diver's Safety Harness is in good condition and mounting plate and block are secure.		
	3) Umbilical Strain Release is secure.		
	4) EGS supply cylinder is turned on.		
	5) EGS valve on Manifold Block is turned off.		

Step	Procedures	Initials	
		Owner	Certified Technician
8) Tender	1) Write comments or discrepancies below in the comments section. Log maintenance in the applicable maintenance log.		

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

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](mailto:kmdsi@kirbymorgan.com), or contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at [divelab@divelab.com](mailto:divelab@divelab.com).

**NOTE:** 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.