

Kirby Morgan SuperFlow® First Stage Regulator

Daily Pre-Dive, Post Dive and Scheduled Maintenance Checklists

A2.3

Post dive cleaning and inspection should be performed at the end of daily diving operations or at least every 24 hours during continuous diving operation.

NOTE: Helmets being used in polluted waters, or extreme environments, will require more frequent cleaning, inspection and maintenance.

NOTE: During removal of components for inspection, O-rings and other consumable items may be reused, providing they are clean and a visual inspection does not reveal any damage or deterioration.

NOTE: This cleaning and maintenance schedule should be performed at least on a **DAILY** basis.

WARNING

KMDSI strongly recommends that all repairs and maintenance be performed by trained personnel. Owners of equipment that are not trained and certified to perform maintenance and repairs do so against the recommendations of KMDSI and Dive Lab and at their own risk. Certified technician training is available to all users. Persons acting as certified/authorized KMDSI technicians pose a serious potential hazard to anyone using the equipment.

CAUTION

All diving conducted using Kirby Morgan Helmets or Band 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:
Regulator Serial #:
Associated Equipment Serial # (s), if applicable:
Equipment belonging to:
Remarks:

Daily Pre-Dive Maintenance

Diver and Tender

DIVER/TENDER - CHECK THE FOLLOWING:

Procedures	Initials	
	Owner	Certified Technician
1) Check the maintenance log to insure the regulator has been overhauled during the past 12 months.		
2) Visually inspect the first stage to ensure all unused ports are plugged.		
3) Visually inspect all hoses for signs of damage such as cracking, fitting slippage, cuts or abrasions.		
4) Visually inspect the first stage filter in the yoke for signs of dirt and corrosion.		
5) Attach the first stage regulator to a fully charged SCUBA cylinder with a 2nd stage attached (or other piece of equipment to vent the residual pressure upon completion), If an adjustable 2nd stage is attached, make sure the adjustment knob is rotated in clockwise. Slowly open the cylinder valve.		
6) Listen for the sounds of air leaks. Perform accessory checks as necessary for the equipment in use.		

Post Dive Maintenance

Diver and Tender

Procedures	Initials	
	Owner	Certified Technician
1) Turn off the cylinder valve, depressurize the regulator assembly and remove it from the cylinder.		
2) Whenever the Regulator is removed from the SCUBA Cylinder, the Dust Cap should be dried and installed over the First Stage Inlet Port. It is very important to dry the Dust Cap to prevent water from the cap from entering the First Stage. Screw the regulator set screw down until snug and the rubber dust cap is slightly compressed.		
3) At a minimum, the entire regulator should be thoroughly rinsed with fresh clean water after every dive. Mild hand washing type dish soap can be used to remove grime.		
4) If possible, the first stage regulator should be soaked in fresh warm water, between 70-120 °F, 21-49 C) for 15 minutes or longer. Soaking in warm water will remove salt and mineral deposits more effectively than a fresh water rinse alone.		
5) Allow the regulator to dry completely before storage. Do not leave the regulator sitting in direct sunlight. Clean, oil-free, low-pressure (< 30 psig) (1.8 bar) air can be directed into the first stage sensing holes to help displace water. This is helpful if the regulator is to be packed for travel.		
6) Ensure the regulator is completely dry before storing. Store only in a clean, cool, dry place.		

Scheduled Maintenance

Diver and Tender

Do not assume that a Regulator is in good working order because of infrequent use. Prolonged or improper storage can result in O-ring deterioration or internal corrosion, resulting in poor performance

Procedures	Initials	
	Owner	Certified Technician
<p>1) The first stage sintered filter, located in the yoke assembly, should be visually prior to each use.</p> <p>If a visual inspection reveals discoloration or obvious signs of dirt or corrosion, the regulator should be thoroughly serviced. In addition, the SCUBA cylinders used must be internally inspected and cleaned if necessary.</p>		
<p>2) Every 30 days of diving, using an I.P. Gauge, confirm intermediate pressure is between 135-145 PSI (9-10 BAR). Adjust if necessary.</p>		
<p>3) The minimum maintenance suggested for all regulators is an annual inspection / soft goods overhaul by a qualified KMDSI technician. However, regulators that are used more than 20 times a month or under severely harsh environmental conditions should be serviced more often.</p> <p>For example, a regulator used as a rental or for training purposes may require service every two to three months or more. Whenever a regulator has been inactive for longer than three months, it should be carefully inspected and surface function checked prior to use.</p>		

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 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.

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.