

**KMB 18/28 (BAND MASK)
DAILY MASK AND EMERGENCY GAS SYSTEM
SET-UP AND FUNCTIONAL CHECKLISTS
APPENDIX A2.3**

7-12-06

THIS DAILY SET-UP AND FUNCTIONAL CHECKLIST SHOULD BE COMPLETED PRIOR TO COMMENCEMENT OF DAILY DIVING OPERATIONS.

WARNING:

These are recommended minimum checks when using Kirby Morgan KMB 18/28 Band 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.**

NOTE: Mask(s) being used in polluted waters, or extreme environments, will require more frequent inspection.

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: Perform the Side Block/Demand Regulator inspection procedures with gas supplies not connected to the Side Block. Attach the gas supply at Step 5 of the “Side Block/Demand Regulator” inspection procedure.

NOTE: Steps 3(a) - 3(e) use the EGS for setting up and checking the Mask’s systems. For a proper check of the Demand Regulator adjustment, the First Stage Regulator must have an intermediate supply pressure output between 135 – 150 psig (9.3 – 10.3 bar). The First Stage Bleed/Relief Valve should be set between 180 - 200 psig (12.4 – 13.8 bar). Do not attach the Umbilical until Step 6.

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

STEP	PROCEDURES	INITIALS
<p>1. Hood and Band Assembly</p> <p>NOTE: When the screws that hold the Bands in position are properly torque, the Hood and Face Seal cannot be removed from under the Bands.</p>	<p>Diver/Tender: Check the following (a-d):</p>	
	<p>a. Visually inspect the Hood and Face Seal for signs of damage. Check the Hood for tears, holes, and/or cuts. Ensure the Face Seal is properly glued to the Hood.</p>	
	<p>b. Check the screws that hold the Bands in position. They must be properly torque to <i>26 inch pounds (28 kg cm)</i>. Ensure the Hood protrudes at least $\frac{1}{4}$" to $\frac{1}{2}$" (6 – 12 mm). Guidance O & M Manual.</p>	
	<p>c. Inspect the Bands. Ensure the welds exhibit no signs of cracking and/or parting.</p> <p>DANGER: If the Bands become loose, the Hood and Face Seal could separate from the Mask. This would cause the Mask to flood, which could cause drowning.</p>	
<p>2. Visually Inspect Mask</p> <p>NOTE: KMDSI recommends replacement of the Hose Assembly (117a) on the KMB-18A every 2-years, regardless of condition.</p>	<p>Diver/Tender: Check the following (a-g):</p>	
	<p>a. Visually inspect the interior/exterior of the Band Mask for any obvious signs of damage. Check to make sure the Oral Nasal Valve is correctly installed and the Oral Nasal Mask is installed on the Regulator Mount Nut. Ensure the Nose Clearing Device operates smoothly. Lubricate as necessary. Guidance O & M Manual.</p>	
	<p>b. Ensure the Earphones and the Microphone are installed correctly. Check the Wire Lugs to ensure they are not touching each other. Guidance O & M Manual.</p> <p>c. Ensure the Demand Regulator Cover is not excessively dented, with dents deeper than $\frac{1}{4}$ inch.</p>	

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STEP	PROCEDURES	INITIALS
<p>2. Visually Inspect Mask (Cont.)</p> <p>NOTE: The EGS being used must be properly maintained and fully functional.</p>	<p>d. Inspect the Regulator Hose Assembly on the KMB-18A. The Hose(s) and fittings must be in good shape. On the KMB-18B, the Bent Tube must not have any dents and/or compressed areas exceeding 1/8"</p>	
	<p>e. Check all moving parts to ensure smooth and proper operation.</p> <ol style="list-style-type: none"> 1) Defogger Control Knob 2) Auxiliary Knob (EGS) 3) Nose Block Device 4) Regulator Adjustment Knob 	
	<p>f. Ensure the One-Way Valve is operational</p> <p>WARNING: The One-Way Valve must be tested daily prior to commencing diving operations. DO NOT DIVE THE MASK if the One-Way Valve is not operating properly. If the Hose parts near the surface, serious injury could result to the divers' lungs and/or eyes. In extreme cases, this could be fatal.</p>	
	<p>g. Connect the First Stage Regulator to the EGS Cylinder and the Mask Emergency Supply Valve. With the Cylinder turned OFF, open and close the Side Block Auxiliary Valve (EGS) to check for smooth operation. Then open and close the Defogger Valve to check for smooth operation. Guidance O&M Manual.</p>	
<p>3. EGS Inspection</p>	<p>Diver/Tender: Check the following (a-e):</p>	
	<p>a. Visually inspect all EGS hoses for signs of damage.</p>	
	<p>b. Check to ensure the cylinder is within the VIP and the hydro dates.</p>	
	<p>c. Ensure the First Stage Regulator pressure setting and the Over Pressure Bleed/Relief Valve settings have been checked within the past month. (Maintenance Log).</p>	

STEP	PROCEDURES	INITIALS
	<p>d. Inspect the Safety Harness and Cylinder Retainer for wear and damage. Repair/replace as necessary.</p>	
	<p>e. Document inspection/maintenance in Maintenance Log (Appendix 3).</p>	
4. Check the Mask	<p>Diver/Tender: Check the following (a-d):</p>	
	<p>a. Rotate the Regulator Adjustment Knob in fully (clockwise), then rotate out (counterclockwise) 3 – 4 rotations to check for smooth operation.</p>	
	<p>b. Open the EGS Supply Valve on the cylinder. Log the pressure _____ psig. Then open the Emergency Supply Valve on the Side Block.</p>	
	<p>c. Momentarily open the Mask Defogger $\frac{3}{4}$ to 1 full turn. Check for a strong flow of gas out of the Defogging Train, and then close.</p>	
	<p>d. Check for gas escaping from the One-Way Valve.</p>	
5. Attach the Umbilical	<p>Tender: Blow down the Umbilical and attach it to the Umbilical Adapter on the One-Way Valve.</p>	
<p>6. Check the Demand Regulator Adjustment</p> <p>Note: If the Purge Button travels further than 1/8” (3mm) before gas starts flowing, or has a weak flow of</p>	<p>Diver/Tender: Check the following (a-d):</p>	
	<p>a. Rotate out (counterclockwise) on the Demand Regulator Adjustment Knob until a slight free flow develops. Then rotate in (clockwise) until the free flow stops.</p>	
	<p>b. Slowly depress the Purge Button to check for excessive travel. The Purge Button should travel in no less than 1/16” and out no more than 1/8” (1.5 - 3.0 mm) before gas flow is heard.</p>	
<p>c. Depress the Purge Button all the way, verify a strong surge of gas.</p>		

STEP	PROCEDURES	INITIALS
gas when fully depressed, adjustment of the regulator is necessary. Guidance O&M Manual	d. Ensure the Side Block Emergency Valve is closed, and the Bail Out Cylinder Valve is open. Log the cylinder pressure _____ psig.	
7. Check the Communications	Diver: Perform communications check.	
8. Check the Hot Water Supply (if applicable)	Tender: Check the hot water supply connections. Ensure topside supply has been switched to the diver and verify flow to hot water shroud and suit (if used).	
9. Check the Dry Suit Inflation Hose (if applicable)	Tender: Check the dry suit Inflation Hose Connection. Ensure the dry suit Inflation Valve and Exhaust Valve function properly.	
10. Check the Entire Rig	Tender: Soap and leak check the Mask gas fittings and connections including the EGS.	
11. Check the Diver's Entire Rig	Supervisor/Tender: Check adjustment/fit of the entire rig, including the following (a-d):	
	a. Diver's Safety Harness	
	b. Umbilical Strain Release	
	c. EGS Hose Quick Disconnect	
	d. Boots, gloves, knife, and other accessories NOTE: All equipment must be adjusted properly and functioning correctly.	
12. Check Breathing	Diver: Check to ensure the Mask is breathing easily. NOTE: The Mask must be breathing easily and properly	
13. Diver(s) Is Ready	Diver: Report when you are ready to enter the water.	

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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, or contact Dive Lab, Inc., by telephone at (850) 235-2715 or via e-mail at 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.

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