

**KIRBY MORGAN EXO (FULL FACE MASK)  
OVERHAUL, MAINTENANCE, AND INSPECTION CHECKLIST  
APPENDIX A2.1  
01-31-17**

THIS INSPECTION AND MAINTENANCE SHOULD BE PERFORMED AT LEAST ANNUALLY AND AS DICTATED BY CONDITION REVEALED DURING DAILY/MONTHLY INSPECTION. MONTHLY INSPECTIONS DETERMINE NECESSITY FOR OVERHAUL WITH MORE ACCURACY THAN SIMPLY PLACING A NUMBER OF HOURS OF USE.

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

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

<b>PROCEDURES</b>	<b>INITIALS</b>
<b>HEAD HARNESS &amp; BUCKELS</b>	
1. Remove and inspect Head Harness (Spider) for signs of tearing, deterioration, and/or damage. Ensure all five legs of the Spider are present. Guidance Modular O & M manual.	
2. Visually inspect for damage and clean all parts of the Buckle assembly components. Replace if necessary. Guidance Modular O & M Manual.	
3. If excessive corrosion is present, remove head harness buckles. Use a 3/16" Allen wrench to remove the "T" nuts and a 1/8" Allen wrench to remove the screws that hold the buckles and buckle caps on. Guidance Modular O & M manual.	
4. Reinstall Buckles, provided the face seal is not being removed or replaced. Guidance Modular O & M manual.	

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<b>PROCEDURES</b>	<b>INITIALS</b>
<b>MASK ASSEMBLY</b>	
1. Visually inspect the Mask exterior and interior for loose and/or missing fasteners and obvious signs of damage; including cracks, gouges, and/or damage due to chemical exposure (fuel oils).	
<b>NOTE:</b> Any cracks in the EXO mask frame cannot be repaired. The cracked or broken components must be replaced	
2. Remove communication components if installed. Guidance Modular O & M manual	
<b>NOTE:</b> Remove covers from the Earphones. Remove Microphone from the Oral Nasal Mask. Inspect and repair/replace as necessary. Perform a communications check. Guidance Modular O & M manual	
3. Remove the Oral Nasal Mask. Remove Oral Nasal Mask Plug, if installed. Clean and inspect assembly for damage. Guidance Modular O & M manual	
4. Remove the Nose Clearing Block. Clean and inspect the Nose Clearing block. Guidance Modular O & M Manual	
5. Remove the Comfort Insert if installed. Clean and inspect the Comfort Insert for damage and/or deterioration.	
<b>MANIFOLD BLOCK (OPTIONAL)</b>	
<b>PROCEDURES</b>	<b>INITIALS</b>
<b>NOTE:</b> The Manifold Block is only required when using the EXO with surface supported systems (umbilical diving)	
<b>NOTE:</b> Maintenance procedures for the manifold block are in the EXO Full-Face Mask, Modular O & M manual.	
1. Remove, discard, and replace Umbilical Adapter with a new one.	

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2. Remove, disassemble and overhaul the One-Way Valve. Guidance 5.5.3.	
3. Remove, disassemble, and overhaul the Auxiliary Valve (EGS) components. Guidance Modular O & M manual.	
<b>NOTE:</b> It is not required to remove the EGS Valve on the Manifold Block for the annual overhaul. However, if the EGS Valve exhibits <b>excessive corrosion/verdigris</b> , the EGS Valve will require removal, cleaning, and re-sealing with Teflon™ tape.	
<b>DEMAND REGULATOR</b>	
<b>PROCEDURES</b>	<b>INITIALS</b>
1. Remove the Demand Regulator from the Mask. Guidance Modular O & M manual.	
<b>NOTE:</b> KMSDI recommends all soft goods on the Demand Regulator be replaced on an annual basis regardless of amount of use.	
2. Disassemble the Demand Regulator. Visually inspect the interior of the Regulator Body for cracks, corrosion and/or contamination. Clean as necessary. Guidance Modular O & M manual.	
3. After the Regulator has been disassembled and cleaned, re-inspect all parts. Guidance Modular O & M manual.	
<b>NOTE:</b> Regulator internal parts are installed after the regulator body and whisker are mounted to the mask frame, <b>except exhaust valve, it must be installed before whisker</b> . This makes for easier regulator mounting.	
4. Install the Exhaust valve and Whisker onto the Regulator body. Guidance Modular O & M manual.	
5. Mount the Regulator body to the Mask. Guidance Modular O & M manual.	
6. Reassemble and Install the Demand Regulator internal parts. Modular O & M manual.	

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7. Ensure the Adjustment knob (dial-a-breath) rotates smoothly and there is no binding.	
8. Adjust Regulator for proper operation I.A.W. Modular O & M manual.	
<b>CAUTION: Once adjustments have been achieved, tighten the lock nut against the main tube using the two flat wrenches in the tool kit; failure to do so may result in the regulator coming out of adjustment.</b>	
9. Install the Nose Clearing Block and Oral Nasal Mask. Install Oral Nasal Mask plug, if no communications are installed. Guidance Modular O & M manual.	
<b>NOTE:</b> KMDSI recommends replacement of the Scuba Hose Assembly every 2-years, regardless of condition.	
<b>NOTE:</b> If this maintenance is during an annual overhaul, replace the O-Ring at the Manifold Block end of the hose and the O-Ring at the Demand Regulator Inlet.	
<b>EMERGENCY GAS SUPPLY (EGS)</b>	
<b>PROCEDURES</b>	<b>INITIALS</b>
<b>NOTE:</b> The Emergency Gas System consists of a good quality First Stage Regulator equipped with a submersible pressure gauge, an Over Pressure Bleed/Relief Valve, and an Emergency Gas Supply Hose that connects to the Emergency Valve on the Mask Side Block.	
1. Check the hydrostatic date and last visual inspection record (“VIP”) of the cylinder. Ensure date(s) are within the specified range. The VIP is done at least annually and the hydrostatic test is done at least every five years.	
2. Check the maintenance record of the EGS components to ensure the First Stage Regulator’s maintenance has been performed in accordance with the manufacturer’s recommendations.	
3. Check all Hoses for signs of blisters, cover slippage, cuts, and/or abrasions. Replace any Hose(s) that show signs of leakage/damage. If a Quick Connect EGS hose is being used, inspect quick connect and fittings for signs of wear/damage.	

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4. If a submersible pressure gauge is used, ensure it has been compared to a gauge of known accuracy.	
5. Overhaul and test the First Stage Bleed/Relief Valve. Guidance as per “Appendix 4: Bleed/Relief Valve Cleaning, Inspection, and Overhaul Procedures”.	
6. Log the lifting pressure _____ psig.	
<b>NOTE:</b> An adjustable First Stage Regulator and a Gas Cylinder with a minimum of 500 psig (34.5 bar) available are required for this step.	
<b>NOTE:</b> The Bleed/Relief Valve should be adjusted to start relieving between 180 - 200 psig (12.4 – 13.8 bar) when tested.	
7. Check the over bottom setting of the First Stage to ensure it is within the manufacturer’s specified pressure range. For KMDSI Helmets and Masks, the minimum over bottom for the emergency supply is 135 psig and the maximum 165 psig (9.3-10.3bar). Log the intermediate pressure.	
8. Perform a leak check of all EGS components and fittings using soapy water in a pressurized condition. Repair/replace items as necessary.	
9. Inspect the Harness Assembly for signs of wear and/or damage. Repair/replace as necessary. Document any inspection/maintenance on the Maintenance Log .	

**Recorded service in helmet maintenance log book:**      YES \_\_\_\_\_      NO \_\_\_\_\_

NOTE: KMDSI strongly recommends that only trained certified KMDSI technicians perform overhauls. The below statement is intended to discourage non trained and non-certified persons from posing as certified KMDSI technicians.

I \_\_\_\_\_ hereby certify that I have performed the work required in the A2.1 and that I am a certified KMDSI / Dive Lab technician.

Print name \_\_\_\_\_ Signature \_\_\_\_\_

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Date \_\_\_\_\_ ID# \_\_\_\_\_ Date of Certification \_\_\_\_\_

I \_\_\_\_\_ hereby certify that I have performed the work required in the A2.1 and **I am not** a certified KMDSI / Dive Lab technician

Technician / Owner: Print name \_\_\_\_\_

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 KMDSI Modular 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 [kmsdi@kirbymorgan.com](mailto:kmsdi@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:** Use your Maintenance and repair log book P/N 125-001, to record all the maintenance performed.

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