



Operations & Maintenance Manual for the EXO Original and EXO Balanced Regulator Full Face Mask

Part #: 100-030

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CAUTION

KMDSI must have your current address to ensure that you receive all safety notices and other important information concerning the mask. Please notify KMDSI of any change of address.

Record Of Changes

It is the responsibility of the owner of this product to register their ownership with Kirby Morgan Dive Systems, Inc., by sending the warranty card provided. This card is to establish registration for any necessary warranty work and as a means of communication that allows KMDSI to contact the user regarding this product. The user must notify KMDSI of any change of address by the user or sale of the product.

All changes or revisions to this manual must be recorded in this document to ensure that the manual is up to date.

Change Number	Date	Description of Change
1	4/07	Changed warning format. Added chapter on general maintenance and sanitation. Renamed photos. Layout in Adobe InDesign. Added additional warning on use in petroleum environments, and avoidance of use of chemical thread lockers.
2	1/08	Added new information on compressor supply pressures for low-pressure systems.
3	7/08	New photographs of EXO-BR. Updated drawings
4	11/08	Changed regulator adjustment procedure. New pressure range for EXO regulators specified 135-150 p.s.i.g. Added recommendation for locking sleeve quick disconnect fitting. Regulator mount nut should be tightened to 100 inch pounds.
5	03/20/2009	Table of contents redesign.
6	03/24/2010	Updated chapter 1 and copyright.
7	01/21/2011	Updated warranty information and table of equivalents
8	04/06/2011	Updated earphones throughout manual

Table Of Contents

Record Of Changes	III
About this Manual	VII
Definitions of Signal Words Used in this Manual	VII
Warranty Information	X
Chapter 1 General Information KMDSI Products	1
1.1 Introduction	1
1.2 Full-Face Masks and Manifolds	2
1.3 Kirby Morgan Diving Helmets	4
Chapter 2 Operating Instructions	9
2.1 Introduction	9
2.2 First Use and Pre-Dive Set-Up	9
2.3 Pre Dress-in Procedure	9
2.4 Visual Inspection	9
2.5 Clean Face Port	9
2.6 Adjusting the Equalizer EXO Standard or BR	10
2.7 Checking Regulator Functions & Preparing the EXO for Use In SCUBA Mode	11
2.8 Test the Regulator	12
2.9 Wireless Communications	12
2.10 Using the EXO in the Surface-Supplied Mode	13
2.11 Testing the Manifold Block	14
2.11.1 Testing the One-Way Valve	14
2.11.2 Testing the Emergency Valve	14
2.12 Diver's Harness	15
2.13 Installing the Manifold Block on the Diver's Harness	15
2.14 Bail-Out Bottle (Emergency Air Supply)	16
2.15 First Stage Regulator	16
2.16 Over-Pressure Relief Valve	17
2.17 Configuring Your Emergency Gas System	18
2.18 Connecting the Hoses to the Manifold Block	20
2.19 Use of Quick-Disconnect	20
2.20 Connecting the Umbilical to the Mask	21
2.21 Opening the Breathing Gas Supply to the Mask	22
2.22 Fogging Prevention	22
2.23 Proper Hood Fit	23
2.24 Recommendations for Donning and Removing	24
2.25 Donning the EXO Mask	25
2.26 Removal of the EXO Mask	26
Chapter 3 Diving With The EXO Full-Face Mask	27
3.1 Introduction	27
3.2 Water Entry	27
3.3 Regulator Adjustment	27
3.4 Spider Adjustment	28
3.5 Purging the Mask	28

3.6 Procedures to Follow for Loss of Breathing Gas	29
Chapter 4 Post Dive Procedures And General Maintenance	31
4.1 Introduction	31
4.2 Required tools, Sealing, Cleaning Agents, Lubrication	31
4.3 Component and Parts Cleaning	31
4.3.1 Component and Parts Lubrication	31
4.4 Disconnecting the Mask from the Diving System	32
4.5 Daily Maintenance	33
4.6 Inspection Procedures	34
4.7 General Cleaning Guidelines	36
4.7.1 Mild Soap Solution for General Cleaning and Leak Detector Use	36
4.7.2 Acidic Cleaning Solution and Procedures	36
4.7.3 Germicidal Cleaning Solutions and Procedure	36
4.8 Communications Inspection	38
4.9 Reassembling the Mask After Cleaning	38
Chapter 5 EXO Regulator Maintenance	39
5.1 General Information	39
5.1.1 Special Regulator Tools	39
5.2 Original and Standard EXO Regulator Disassembly	40
5.3 Original and Standard EXO Rebuild	43
5.4 EXO Balanced Regulator Disassembly	44
5.5 EXO-BR Regulator Reassembly	47
5.6 Regulator Assembly Removal and Installation	50
5.6.1 Regulator Assembly Removal	50
5.6.2 Regulator Assembly Installation	52
5.7 EXO Regulator Adjustment	54
5.8 Manifold Block Maintenance	56
5.8.1 Daily Maintenance	56
5.8.2 Post Dive Procedures	56
5.8.3 Annual Overhaul of the Manifold Block Assembly	56
5.8.3.1 Disassembly Of Manifold Block	56
5.8.3.2 Disassembly and Cleaning of the One Way Valve	57
5.8.3.3 Reassembly of the One Way Valve	57
5.8.3.4 Disassembly of the Emergency Gas Supply Valve	59
5.8.3.5 Cleaning and Lubricating the Emergency Gas Supply Valve	59
5.8.3.6 Reassembly of Emergency Gas Supply Valve	59
5.9 Overpressure Relief / Bleed Valve Overhaul Procedures	61
5.9.1 Overpressure Relief Valve General	61
5.9.2 Overpressure Relief Valve Disassembly and Cleaning	61
5.9.3 Overpressure Relief Valve Reassembly	62
5.9.4 Overpressure Relief Valve Lift Check/Setting	62
Chapter 6 Frame And Lens Repairs	65
6.1 General Information	65
6.2 Lens Replacement	65
6.2.1 Lens Removal	65
6.2.2 Lens Installation	66
6.3 Buckle Replacement	70

6.3.1 Buckle Removal	70
6.3.2 Buckle Installation	70
6.4 Replacing the Face Seal or Frame	72
6.4.1 Face Seal Removal	72
6.4.2 Face Seal Installation	72
Chapter 7 Communications	73
7.1 Bare Wire Binding Posts	73
7.2 Waterproof Connector (WPC)	73
7.3 Wireless Communications	75
7.4 Removing the Communications Module	76
7.5 Installing the Communications Module	77
7.6 Earphone and/or Microphone Removal	78
7.7 Earphone and/or Microphone Installation	78
7.8 Removing the Waterproof Connector (WPC)	79
7.9 Installing the Waterproof Connector (WPC)	79
7.10 Removing the Binding Posts	79
7.11 Installing the Binding Posts	79
7.12 Waterproof Connector (WPC) Assembly Rebuild	81
7.13 Waterproof Connector (WPC) Pin Diagrams	82
7.14 Post Dive Maintenance	82
Appendix Breathing Gas Requirements EXO Balance Regulator Full-Face Mask	85
8.2 Regulator Performance	85
8.2.1 EXO-BR® Regulator	85
8.2.2 Minimum Operating Temperature	85
8.3 Cage Code	85
8.4 CR Standards	85
8.5 CE Approved	85
8.6 Operational Specifications & Limitations for Surface-Supplied Diving	86
8.6.1 Using the EXO-BR Regulator with a Low Pressure Compressor Supply	86
8.6.2 Using the EXO-BR Regulator Low-Pressure Compressor Supply Pressure Requirements Table	87
8.6.3 Using a High-Pressure Breathing Gas Supply	91

About this Manual

The information in this manual is intended to aid the user in optimizing the performance of this mask. This manual gives reference to using EXO- 26 masks in open circuit scuba mode as well as in surface supplied diving mode. The use of some of this information will often depend on the use of associated support equipment and operational scenarios. It is not the intention of this manual to teach diving techniques, but rather to give the user the required technical information to allow Kirby Morgan helmets and masks to be integrated with the complete diving system.

Definitions of Signal Words Used in this Manual

For your protection, pay particular attention to items identified by signal words in this manual. These terms are identified as, CAUTION, WARNING AND DANGER. It is especially important for you to read and understand these sections.

CAUTION

This word indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

WARNING

This word indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

DANGER

This word indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury.

If English is not your native language and you have any difficulty understanding the language of any warnings as they appear in the manual, please have them translated.

WARNING

Este é um aviso importante. Queira mandá-lo traduzir.

WARNING

Este es un aviso importante. Sirvase mandarlo traducir.

WARNING

Quest è un avviso importante. Tradurlo.

WARNING

Ceci est important. Veuillez traduire.

WARNING

Diese Mitteilung ist wichtig. Bitte übersetzen lassen.

If you have any questions regarding the information in this manual, or the operation of your mask, call KMDSI at (805) 928-7772

IMPORTANT SAFETY INFORMATION

This EXO Full Face Mask is intended for use by trained divers who have successfully completed a recognized training course in the use of a full face mask, and if used in the surface supplied mode, an approved surface supplied diving course. Read this manual before using or maintaining the mask, even if you have experience with other full-face masks. If you have purchased the mask new from a dealer, be sure to send in the warranty registration card so we may keep you in-

WARNING

Follow all the instructions in this manual carefully and heed all safety precautions. Improper use of this diving mask could result in serious injury or death.

WARNING

Kirby Morgan Dive Systems, Inc. (KMDSI) warns all divers who use the EXO Full Face Mask to use only KMDSI original spare parts from a KMDSI authorized dealer. Although other parts, O-rings and fittings may not to be manufactured to the same standards maintained by KMDSI. The use of any spares other than KMDSI original parts may lead to equipment failure and accidents.

WARNING

Diving in an environment that is chemically, biologically, or radiologically contaminated is extremely hazardous. Although the EXO Full Face Mask may be adapted for use in some contaminated environments, special training, equipment, and procedures are necessary. Do not dive in a contaminated environment unless you have been thoroughly trained and equipped for this type of diving.

WARNING

Diving is a life threatening occupation. Even if you do everything right you can still be killed or injured. None of the models of full-face masks can prevent accidents, injuries or death due to improper training, lack of health, improper supervision, improper job requirements, improper maintenance or acts of God.

WARNING

DO NOT dive this mask in water containing high concentrations of petroleum based chemicals. DO NOT use any chemical locking liquids anywhere on the mask. DO NOT use any type of aerosol sprays on the mask. These chemicals can attack, damage, and compromise the structural integrity of the plastic parts on the mask. Clean the mask using only mild soap and water.

formed regarding any safety notices that affect this product. If you resell or loan this mask to another diver, be sure this manual accompanies the mask and that the person reads and understands the manual.

This manual is supplied to the original purchaser of this mask. If you have any questions about the use of the mask or you need another copy of this manual, Part Number 100-030, contact KMDSI. If you have any questions regarding the use, maintenance, or operation of this mask, contact KMDSI at (805) 928-7772

All Kirby Morgan helmets, masks, and low pressure demand regulators must not be used with oxygen mixtures in excess

! WARNING

This mask was completely checked and should be ready to dive as it was shipped from the factory. However, it is always the diver's responsibility to check all the components of the mask prior to diving.

! WARNING

The EXO comes from the factory lubricated for oxygen service. If the exo is to be used for enriched air or oxygen use it must be carefully maintained and cleaned in accordance with this manual. components requiring Lubrication must be only be lubricated with an oxygen compatible lubricant such as Christo Lube or Krytox. Any breathing mixture containing an oxygen content greater than 23% oxygen is considered enriched gas.

of 50% oxygen by volume without first ensuring all low pressure (less than 225 psig, 15.5 bar) gas transporting components have been cleaned for oxygen service. Only oxygen compatible lubricants such as Krytox™ and ChristoLube™ should be used on components requiring lubrication and lubricants should be used sparingly. **Never** mix different types of oxygen compatible lubricants. Helmets or masks used primarily for air diving and occasionally for enriched gas use should be cleaned at more frequent intervals than helmets used for mixed gas diving only.

The Kirby Morgan SuperFlow 1st stage scuba regulator, as well as all Kirby Morgan dive control consoles and high-pressure gas components (greater than 225 p.s.i.g., 15.5 bar) should not be used with pure oxygen, Nitrox, or any breathing gas containing more than 23.5 % oxygen by volume. The first stage is not intended for use with enriched gas mixtures.

! WARNING

KMDSI regards the use of any breathing gas mixture greater than 50% oxygen to be treated as oxygen. This belief is in keeping with the recommendations set forth by the National Fire Protection Association (NFPA), Compressed Gas Association (CGA), and the American Society for Testing and Materials (ASTM).

! WARNING

Kirby Morgan "High Pressure Components" (greater than 225 p.s.i.g., 15.5 bar) must not to be used with pure oxygen, Nitrox, or any breathing gas mixtures with oxygen content greater than 23.5 % by volume. Using oxygen mixtures in excess of 23.5 % by volume may lead to a fire or explosion, which could result in serious injury or death.

! WARNING

Any diving helmet, full face mask, regulator, control console or breathing life support item manufactured or sold by KMDSI must not be used with breathing gas mixtures in excess of 50% oxygen without first ensuring that all gas transporting components have been cleaned for oxygen service, have oxygen compatible soft goods lubricated with an approved oxygen compatible lubricant such as Krytox or Christo Lube grease.

Operational specifications and limitations for surface supplied air diving and scuba diving for United States use, and a separate chart for European Union use are presented on Page 4. The information has been separated because of the differences imposed or required by certain regulating bodies. Whenever Kirby Morgan diving equipment is used in countries that have adopted CE Certification, only CE certified components can be used and all components must be part of the tested certified configuration.

It is important for the user to understand the rules, regulations, and philosophy imposed by the governing or regulating bodies whenever diving operations are being planned or conducted. Diving operations must only be conducted within the limits of the operational specifications, and in accordance with the rules and regulations established by the governing authority in the specific country or geographical location where the diving operations are being conducted. Technical questions regarding this equipment should be directed to Dive Lab Inc., of 1415 Moylan Road, Panama City Beach Florida. Telephone 850 235-2715, Fax 850-235-0858 e-mail - divelab@aol.com

Warranty Information

Kirby Morgan Dive Systems, Inc. warrants every new mask, helmet, or KMAC Air Control System to be free from defects in workmanship for a period of three hundred sixty five (365) days from date of purchase. This warranty covers all metal, fiberglass, and plastic parts. This warranty does NOT cover rubber parts, communications components, or headliners. In addition, due to the electrolytic nature of underwater cutting and welding, chrome plating cannot be warranted when the diver engages in these activities.

Should any part become defective, contact the nearest authorized KMDSI dealer. If there is no dealer in your area, contact KMDSI directly at (805) 928-7772. You must have a return authorization from KMDSI prior to the return of any item, Upon approval from KMDSI, return the defective part, freight prepaid, to the KMDSI plant. The part will be repaired or replaced at no charge as deemed necessary by KMDSI.

This warranty becomes null and void if:

- 1) The product is not registered with KMDSI within ten (10) days of purchase.**
- 2) The product has not been properly serviced and/or maintained according to the appropriate KMDSI manual. In addition, the user is responsible to ensure that all product updates as recommended by KMDSI have been performed.**
- 3) Unauthorized modifications have been made to the product.**
- 4) The product has been abused or subjected to conditions which are unusual or exceed the product's intended service.**

NOTE: Be sure to complete the enclosed warranty card and return it to KMDSI immediately. No warranty claims will be honored without a satisfactorily completed warranty card on file at KMDSI.

EXO Balanced Regulator Full-Face Mask



