



Kirby Morgan Dive Systems, Inc.®

1430 Jason Way Santa Maria, California 93455

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Part #525-385 Conversion Kit, 350 Regulator for KM 77

Part Number	Description	Qty
100-063	Manual, KMDH 37SS	1
505-758	350 Regulator Pod Assembly	1
510-403	Pod Gasket	1
510-747	Oral Nasal Mask	1
520-042	Tie Wrap	3
525-620	Tool Kit w/Pouch	1
530-145	Lock Nut	8
555-155	Bent Tube Assembly w/ O-rings	1

Tools Required

- Torque screwdriver with ¼" Flat Blade Attachment
- Torque Wrench
1½", 1¾"
- Open End Wrench
⅜", 7/16", 13/16" and two 7/8"
- Small Phillips Screwdriver
- 5/32" Hex Key
- Medium Strength Loctite®

*See back page for **O-ring Identification**

O-rings should be lightly lubricated with food grade silicone Molykote® 111 or equivalent in accordance with the operations and maintenance manual. Christo-Lube® may also be used. At a minimum, all helmet or BandMask® O-rings should be replaced at least once a year in accordance with the A2.1 checklist for the helmet or mask being inspected. When using the A2.1 as an "inspection" only, in-between annual overhauls, O-rings may be reused if inspection reveals the O-rings are serviceable. O-rings and valves may require replacement more often than yearly if the helmet or mask use is extreme, or if the helmet or mask is used in waters containing oil or chemical contamination. Daily cleaning and inspections as well as performing the monthly inspection (A2.2 checklist) will identify the need more accurately than simply placing a number of hours between overhaul. Store spare O-rings, valves and soft goods in a cool, dark, dry place. Avoid prolonged exposure to temperatures above 90 degrees Fahrenheit and/or exposure to ultra violet rays. Do not lubricate exhaust valves. Lubricating valves can cause dirt to stick, allowing leakage.

⚠ CAUTION

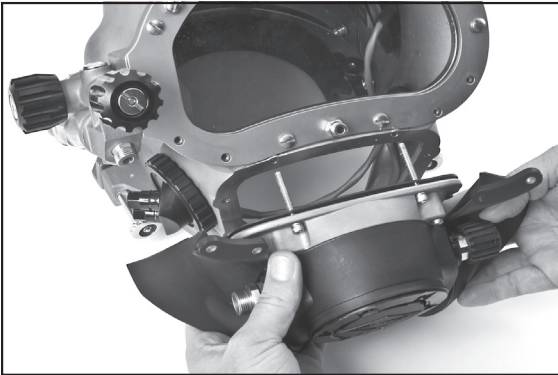
Use only KMDSI original replacement parts. The use of other manufacturers' parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan Genuine Parts.

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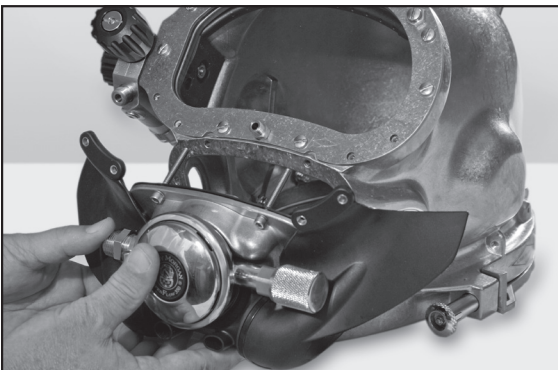
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1. See the *Stainless Steel Helmets with REX Pod* module in your manual for pod removal, remove the pod/regulator assembly from the helmet shell. Remove the nose block device and oral nasal mask, then remove and reserve the oral nasal valve body and valve to be used with the new oral nasal mask.



2. Install the gasket. Note the ridge on the gasket. This ridge is designed to help maintain the proper position of the gasket in the groove in the pod.



3. Install the new pod/regulator assembly onto the helmet shell.

NOTE: when inserting the screws, it is best to thread them into and through the gasket to avoid possible damage to the seal that forms around the threads.

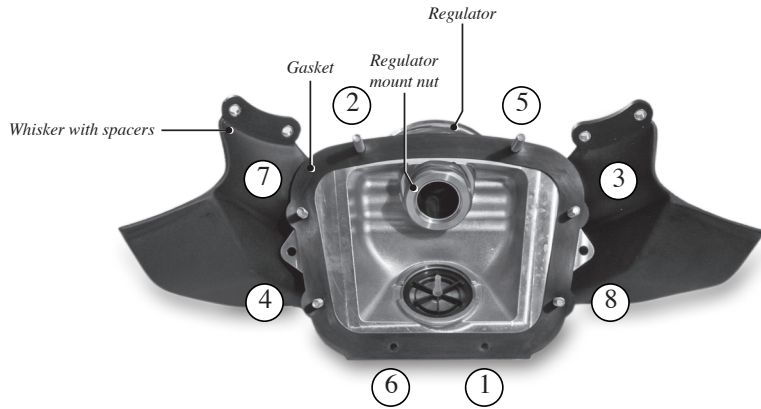


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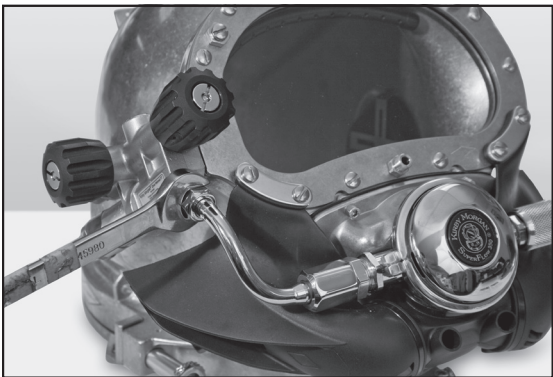
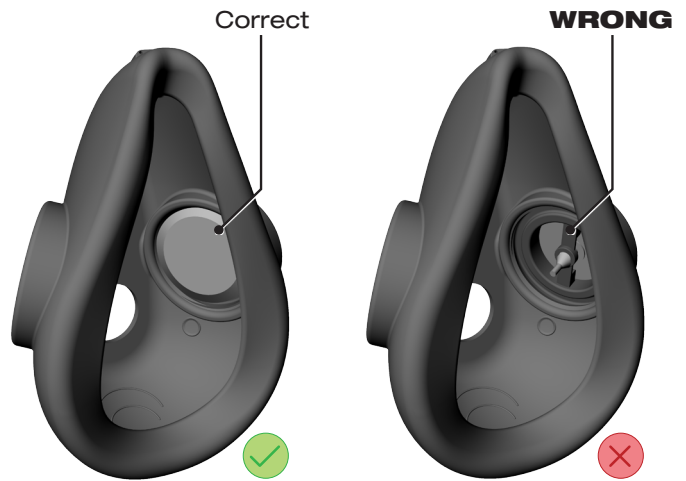


- Using the $\frac{5}{32}$ " hex key and $\frac{3}{8}$ " wrench, tighten the screws onto the helmet. The numbers indicate the order in which the screws and nuts that retain the pod are tightened to connect the pod to the helmet. Tighten the screws gradually, moving from one to another. **Do not over-tighten.** Carefully watch the gasket as you tighten the screws—tightening until the gasket barely begins to extrude from between the pod and helmet shell.

Apply medium strength Loctite® to whisker screws before installing. Torque whisker screws to 15 inch pounds (1.7 newton meters).

- Install the oral nasal valve body and valve into the new oral nasal mask. Make certain the valve direction is correct.

- Install the nose block device.



- Install the new bent tube with O-rings (555-155) as mentioned in the *Bent Tube* module in your manual.

- Remove the regulator mount nut and lubricate the O-ring. Reinstall the regulator mount nut and O-ring. Torque the regulator mount nut to 100 inch pounds (11.3 newton meters).

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**O-ring Identification*



510-012



510-019



510-490