



Kirby Morgan Dive Systems, Inc.®

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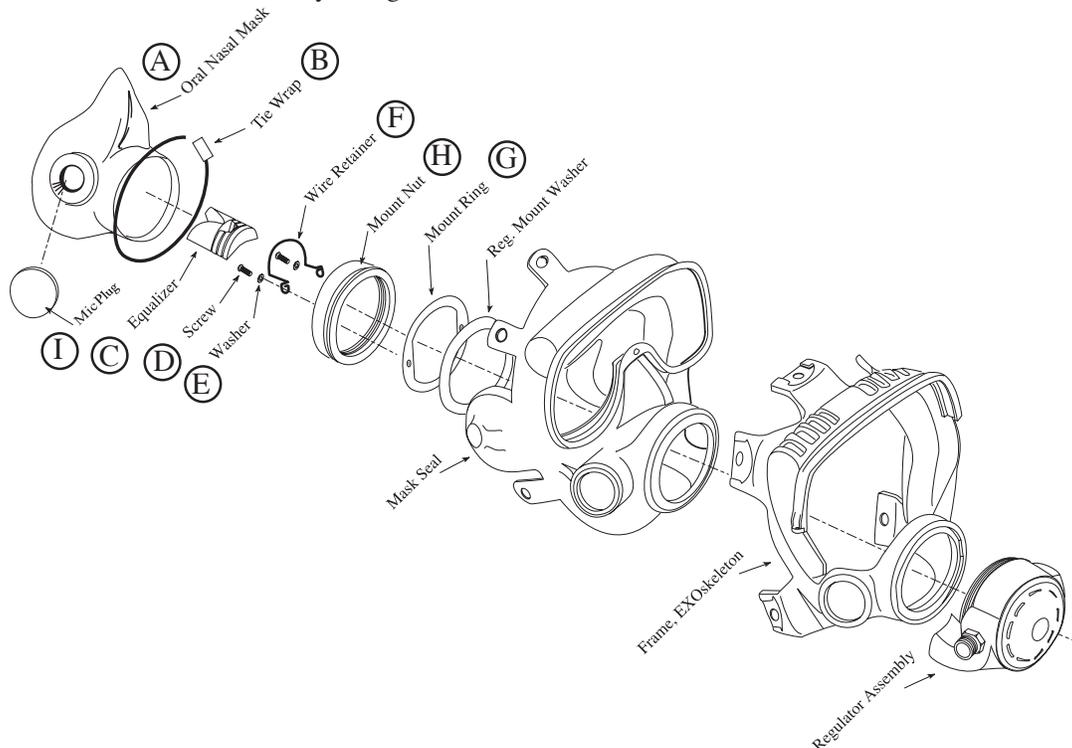
Part #325-090 Oral Nasal Kit, EXO-26

Loc. #	Part #	Description	Qty
A	310-055	Oral Nasal Mask	1
B	320-048	Tie Wrap, EXO Oral Nasal	5
C	310-357	Equalizer	1
D	330-040	Screw, Socket Head	2
E	330-515	Washer	2
F	330-900	Wire Retainer	1
G	340-015	Mount Ring	1
H	350-047	Mount Nut, Regulator	1
I	320-001	Mic Plug.	1
	325-640	Regulator Mount Nut Tool	1
	325-645	Mount Ring Adjustment Tool	1

The installation of the oral nasal mask kit can be a somewhat difficult procedure and is much easier if you are already familiar with the process. It is recommended that these procedures be done by a factory trained KMDSI dealer. If you are going to attempt these procedures, read and understand this entire instruction sheet before you start.

The procedures on how to install the regulator assembly are included. But, KMDSI highly recommends that you do not unmount the regulator from the mask unless you have other maintenance to perform.

Read and understand all the directions before you begin.



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Installation Procedure

We recommend that you follow these procedures in the following order:

Remove the old mount nut.

Perform **steps 5 through 10** of the Regulator Assembly Installation section of these instructions (these instructions are also found in the EXO manual, Part # 100-030).

Removing The Old Mount Nut

1. Remove spider and communications module.
2. Remove the inlet tube. This part will not be used anymore.
3. Install the regulator mount nut P/N 325-640 tool on a 3/8" ratchet with an extension.

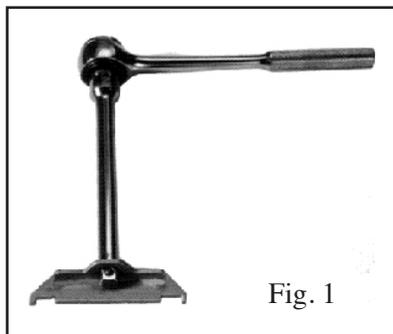
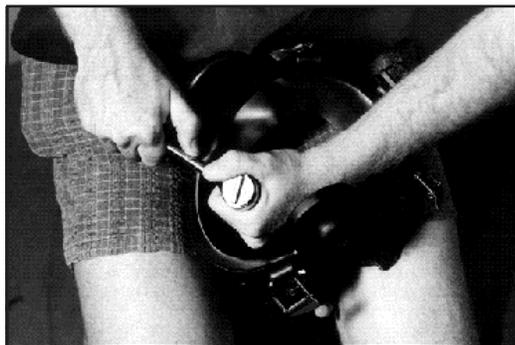


Fig. 1

Put the regulator mount nut tool on the ratchet as shown.

4. Place the mask in your lap and put the regulator mount nut tool in the holes of the regulator mount nut P/N 340-015. Remove the old regulator mount nut.



It's easiest if you place the mask in your lap.

5. **Try not to move the regulator assembly making sure that the regulator stays properly seated**. Install the new regulator / oral nasal mount nut as per numbers **5 through 11** of the Regulator Assembly Installation instruction.

Regulator Assembly Installation

1) Inspect the mask seal in the regulator area for tears or holes. replace bad mask seals. Ensure that the mask seal is properly mounted into the frame. This is what seals the regulator to the mask. It is very important that the seal in this area remains correctly seated in the frame and does not get pushed through during all phases of installation.

2) Once the seal is correctly in place, lightly lubricate the inside of the regulator mounting hole in the mask seal with silicone grease. Do not get grease between the mask seal and the frame. If the grease gets between the frame and the mask seal, the mask seal will become unmounted and push through, more easily when installing the regulator. Lightly grease the threads on the regulator body.

3) Holding the mask in one hand and the regulator assembly in the other, insert the regulator assembly into the mask. Hold the regulator at a slight angle when you first



Lightly grease the regulator opening on the mask seal



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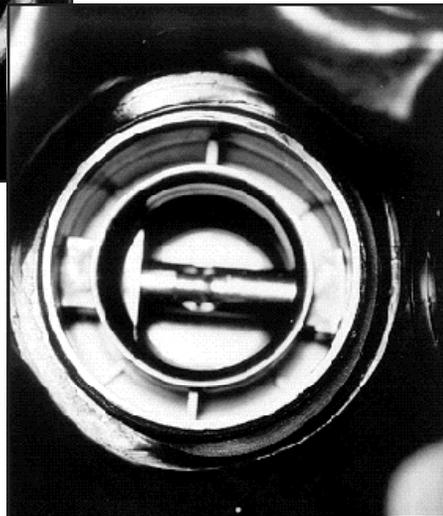
start to push it through the opening, then straighten it out as you go. Start the threads of the regulator partially in and on one side of the opening, then work it into the hole. Use your finger tips on the inside of the mask to support the mask seal from being pushed to the inside of the frame. Once the regulator is in, visually inspect inside the mask seal on the inside of the mask and **make sure that the mask seal did not get pushed through and is still correctly seated on the frame.** If the seal has been pushed through, take the regulator out and try again.

Once the regulator is properly seated, also inspect where the exhaust whisker meets the frame and make sure that the whisker is properly seated into the groove on the front of the regulator mount area of the frame.

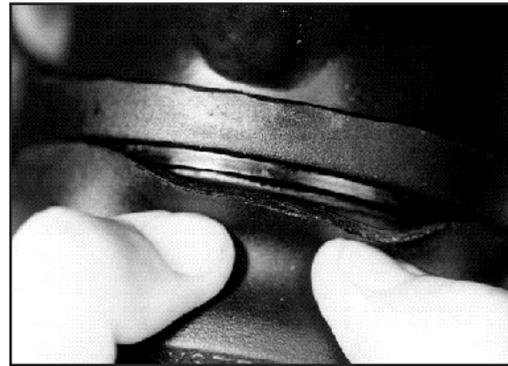
4) Lightly lubricate the regulator mount washer and install it onto the regulator.



Correct, the mask seal has not been pushed through.



Incorrect, The lip of the mask seal on the lower right side has pushed through the frame.



Correct, the whisker is properly seated in the frame.



Incorrect, the whisker is not properly seated. The lip of the whisker seal has come out of the frame.

5) Place the mount ring inside of the mount nut. The pressed in insert on the mount ring should have the bumps facing the regulator.

6) Thread the mount nut onto the regulator assembly. **The mount nut must go on straight. Do Not Cross Thread.**



The mount ring should be in the mount nut as shown.

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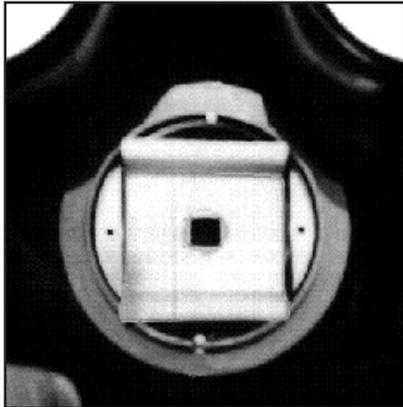
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Sometimes it is easiest to start the mount nut by hand. Put the nut on the regulator, turn slowly counterclockwise until you feel the nut drop onto the threads, and then thread on by hand as far as possible to insure that it does not cross thread. If you get cross threading you can damage the regulator body and if damaged in any way it must be replaced. Once the mount nut is on correctly, start tightening. Once again, check to make sure that the exhaust whisker is properly seated in the frame before doing final tightening. Tighten the regulator mount nut to 100 inch pounds.

7) Put the Mount Ring adjustment tool, P/N 325-625, on the ratchet and install the tool into the mount ring. Turn the mount ring until it is horizontally aligned



The Mount Ring Adjustment Tool in the mount ring.

8) Put the wire retainer, P/N 330-900, on with the small screws, P/N 330-040 and washers, P/N 330-515.

9) Install the oral nasal mask, P/N 310-055, and properly align the nose cavity. Make certain the round mount lip is properly/completely inserted into the mating groove found on the regulator oral nasal mount nut.

10) Install the new tie wrap, P/N 325-060. Insert the tail of the tie wrap into the head and pull it through about 1.5 inches. This will allow enough circle to fit over everything during installation. Begin installation by carefully folding the oral nasal mask in on itself only enough to allow the tie wrap to pass over the outside of it. Be careful not to displace the oral nasal mask from the groove of the regulator mounting ring. Double check, making sure the oral nasal mask is seated in the groove. Carefully begin tightening the tie wrap, while pushing it down against

the regulator mount nut. Direct the head of the tie wrap towards the channel inside the main mask cavity, found at about the nine o'clock position. Before the tie wrap is closed tight, check again to be sure the oral nasal mask is still in the groove. Hold the tie wrap down against the mount nut and tighten with needle nose pliers. Snip off any excess tie wrap material as close to the head as possible.

11) Check the installation by lightly tugging at the oral nasal mask. It should remain seated. If it pulls free, repeat steps 4 thru 9 with a new tie wrap.

If the installation tests good, reinstall the microphone into the pocket in the oral nasal mask. Re-install the nose equalizing device onto its mount, along with the equalizer, P/N 310-357 by "snapping" them in place. The oral nasal mask comm plug, P/N 320-001, is installed in the comm hole if no comms are to be used.

10) Reinstall the communications as per your manual.

Note: The oral nasal mask kit comes with the comm plug, (I) #(320-001). Install this plug in place of the microphone when no communications are used. If you have the pre-mid '96 style DSI communications module, remove the old microphone cup (which will not be used anymore), unmount the microphone from the module, and install the microphone into the microphone cup in the oral nasal.

Adjusting The Equalizer

There are three different height positions that the equalizer can be adjusted to. Simply peel the equalizer out of the wire retainer and reposition it in another one of the molded grooves in the equalizer. The wire retainer can also be slightly bent in one direction or another, up or down, to get the angle of the equalizer just right. Insure that the corners of the equalizer grooves are "snapped" into position on the wire retainer so that it doesn't come loose.

If you have any questions regarding these procedures, contact your nearest KMDDSI dealer or call us direct at the number above.