



Kirby Morgan Dive Systems, Inc.®

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Part #805-015 SCUBA Pod Assembly with Tilt-to-Purge Installation Guide

Part Number	Description	Qty
305-017	Air Inlet Swivel, Hi-Flow	1
520-038	Tie Wrap	1
520-039	Tie Wrap	2
805-018	Pod Assembly, SCUBA, No Tilt-to-Purge	1
805-047	Tilt-to-Purge Valve	1

Tools and Components required:

- Pliers or Tie Wrap Gun rated at 50 pounds./22.6 kg
- Side Cutter Pliers
- Thin Nylon Rope (e.g., Paracord) or equivalent (*for Pull Test*)
- 25 pound (11 kg) weight or a filled 50 cu. ft. aluminum scuba tank (*for Pull Test*)

NOTE: Failure to use the correct type of demand regulator/BOV/DSV will result in flooding of the POD, which can lead to drowning. If in doubt do not install the regulator until first consulting with Kirby Morgan Dive Systems, Inc. or Dive Lab Inc.

Prior to Installation

Confirm your regulator/BOV/DSV will work properly with the SCUBA POD, P/N 805-015 by referencing and conforming to the following parameters:

1. The regulator mounting tube must have a single lip at the end that will be closest to the diver's mouth.
2. Demand regulator mouthpiece mount tubes should be a length of at least one half inch (1.3 cm) at the shortest measurement.
3. The KMDSI mouthpiece P/N 810-022L must fit snug completely around the mounting tube regardless of its shape.

The final test prior to installation should be that the KMDSI mouthpiece should remain on the mounting tube after a simple test of a slight pull when secured without a tie wrap. Do not stretch the POD mouthpiece opening greater than 50 percent.



Installation



1. Ensure the mouthpiece, P/N 810-022L, is aligned evenly with the end of the mouthpiece tube on the POD.

⚠ WARNING

Only the KMDSI mouthpiece, P/N 810-022L, will function correctly in your SCUBA POD. Do not attempt to use any other manufacturer's mouthpiece. Doing so could result in death by drowning

⚠ WARNING

Never dive the mask without a mouthpiece installed in the POD. A mouthpiece allows use of the POD even if the POD is not sealed to the mask. Buddy breathing cannot be done without a mouthpiece installed. Use of the mask without the mouthpiece could result in death by drowning.



2. Ensure the tilt to purge valve, P/N 805-047, is secured into the POD water dump tube.



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3. Make certain that the regulator/BOV/DSV mount tube is clean and free of ANY lubricants. Insert the regulator into the mouthpiece opening and fit it so that the mouthpiece and POD opening are fully seated on the demand regulator. Be certain everything is lined up straight.

NOTE: When the regulator/BOV/DSV is inserted into the POD, the mount tube of the regulator/BOV/DSV must be inserted as far as it will go into the POD.



4. Fit the longer tie wrap P/N 520-039 into position. Ensure the joint of the tie wrap will sit in the “center of the side” of the mouth opening as shown. Pull as tight as possible by hand or use a tie wrap installation tool.

⚠ WARNING

Use only a tie wrap rated for a minimum pull of 50 pounds. A weaker tie wrap, or one that is “LOW PROFILE” could become loose and allow the regulator to pull out of the POD. This could lead to flooding of the POD and death by drowning.

5. Cut off excess tie wrap material flush with the joint lock of the tie wrap. There should be no sharp edges.
6. Pull the mouthpiece and the demand regulator in opposite directions with enough force to ensure that they are both securely mounted to the POD.

NOTE: If the mouthpiece or demand regulator pulls off the POD, even partially, it **MUST** be remounted.

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Pull Test After Initial Assembly

⚠ WARNING

A properly secured mouthpiece and regulator should be able to withstand a pull force of 25 pounds minimum (111 Newtons). If in doubt, a pull test should be conducted by securing a 25 pound (11 Kg.) weight to the regulator and allowing the full force of the weight to be applied for a minimum of three seconds.

NOTE: It is recommended that anytime a user is in doubt about the “component to POD” fit, a simple pull test be performed by the end user or installer. Before testing, make careful note of the mouthpiece and POD positions in order to check for movement later.

1. Attach a 25 pound (11 kg) weight or a filled 50 cu. ft aluminum scuba tank to the demand regulator using string or tie wraps in the manner shown on this page.
2. Suspend the weight for three–five seconds from the POD with the POD mounted on a stable device if available, allowing the full weight to pull on the demand regulator.
3. Check the position relationship of the mouthpiece and POD to be certain they have not moved.

