



Kirby Morgan Dive Systems, Inc.®

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Part #805-026 SCUBA Pod Assembly with Balance Purge Tube Installation Guide

Part Number	Description	Qty
220-057	Balance Purge Sleeve	1
220-087	Balance Purge Tube	1
520-038	Tie Wrap	1
520-039	Tie Wrap	2
805-018	Pod Assembly, SCUBA, No Tilt-to-Purge	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*)



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

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TRIM NOTCH



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NOTE: Some divers may find the mouthpiece as supplied, to be too long. It is acceptable to trim the mouthpiece to a shorter length. Using scissors, carefully shorten the mouthpiece at the trim notch edge shown.

⚠ 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 Purge Tube, P/N 220-087, is pushed into the POD water dump tube all the way and is pointed up.



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3. Make certain that the regulator 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 is inserted into the POD, the mount tube of the regulator **must be inserted as far as it will go into the POD.**

⚠ 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.



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.

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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7. Align the “saddle” on the exhaust cover, over the area of the Purge Tube, P/N 220-087. You will see that the grooves on the tube will align to the saddle.
8. Ensure the purge tube is still pointing up and install the shorter tie wrap, P/N 520-038. The open end of the purge tube should line up evenly with the face of the regulator tube.



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.

