



Kirby Morgan Dive Systems, Inc.®

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Part #525-777 'A' Regulator Assembly Kit

Part #	Description	Qty
100-100	Warranty Card,	1
505-026	'A' Regulator Assembly	1
520-042	Tie Wrap	2

1.1 'A' Demand Regulator Removal from Helmet

Tools Required:

Torque Wrench and 1 ¼ inch Socket

And/or the 525-625 Regulator Mount Nut Socket Wrench (in P/N 525-620 Tool Kit)

¼ inch Flat Blade Attachment on Torque Screwdriver

Torque Wrench and 1¼/16 inch Open-end Attachment–Hose (Regulator Side)

Torque Wrench and 1¾/16 inch Open-end Attachment–Inlet Nipple

½ inch Open-end Wrench–Hose (Side Block Side)

¾/16 inch Open-end Wrench–Nose Block

1) Loosen the hose assembly at the regulator end first, while holding the regulator inlet nipple with a second wrench. Disconnect the hose from the regulator inlet nipple. Loosen the hose at the side block connection. Disconnect the hose from the side block.

2) Remove the whiskers from the port retainer by removing the screws. Take care not to lose the spacers, kidney plates or zinc anodes.



Remove the whiskers from the helmet.

3) Remove the nose block device.

4) Remove the oral nasal mask.

5) The regulator mount nut is removed along with the sealing O-ring.

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The regulator mount nut must be loosened with a wrench.



Remove the mount nut from the regulator.

6) If the unit is a SuperLite® 17A model helmet with the Quad Valve Exhaust system, cut the tie wrap that holds the regulator body to the water dump adapter cover. Tri Valve units do not have this adapter cover.

7) Now the regulator assembly can be pulled out of the helmet.

8) The center section of the Quad or Tri-Valve exhaust assembly, called the Quad or Tri-Valve exhaust main body, has a tie wrap holding it in place. Remove the tie wrap then stretch the body off the regulator exhaust flange.

9) Older model double or single exhaust whiskers are removed similarly.

1.2 'A' Demand Regulator Reinstallation onto Helmet

1) Stretch the Quad or Tri-Valve main exhaust body onto the exhaust flange of the regulator. Rotate as needed so the port and starboard whiskers can be installed.

2) For the old double exhaust or original single exhaust, stretch the exhaust whisker onto the exhaust flange of the regulator.

3) Mount the regulator to the mask or helmet. Lightly lubricate and install the sealing O-ring and thread on the regulator mount nut, hand tight.

NOTE: KMDSI recommends replacement of the hose assembly on the 17A, at least every 2 years even if the condition appears excellent.

4) Using the appropriate lubricant (Molykote® 111), lightly lubricate the O-rings on the hose assembly. First, the side block end of the hose will be installed, then the 'A' regulator side last.

5) Ensure both O-rings are in place on the hose. Turning clockwise, engage the plain threaded end of the hose into the side block, hand tight for now. Connect the other hose end to the 'A' regulator inlet nipple, also hand tight for the moment.

6) Check that the regulator mount O-ring is in place. Using a torque wrench, a 1 ¼" socket and an extension, torque the regulator mount nut to 100 inch pounds. Next, using a torque wrench with an ¼" adapter, torque the hose fitting to the side block at 40 inch pounds.

7) Attach the whisker wings to each side of the face port



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retainer using the screws, kidney plates or zinc anodes and spacers. Using a torque wrench with a flat blade screwdriver adapter, carefully torque these screws to 12 inch pounds.



Make sure to replace the whisker spacers when you reinstall the whiskers.



Be sure to tighten the whiskers to their proper torque values.

8) Once the 'A' regulator is connected to the hose at the inlet nipple, tighten the nut on the hose with a torque wrench while holding the inlet nipple with a second wrench to prevent it from turning. Torque to 40 inch pounds.

9) Check the regulator for proper operation and fine-tune the adjustment if necessary.

⚠ 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.