

Hot Water Shroud

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1.1 Hot Water Shroud

The Hot Water Shroud should be used whenever diving in water colder than 40 °F (4 °C). The shroud completely encases the side block, bent tube and demand regulator to provide efficient gas heating. It is designed to be integrated with a hot water supply to help maintain breathing gas temperature at a level acceptable for use by the diver. In addition, the hot water reduces the possibility of ice forming in the regulator or gas train components. Even with water temperatures at 40 °F (4 °C) or slightly above, the diver can experience discomfort and severe heat loss through the respiration process. Heating the diver's gas is especially important in cold water and/or when breathing mixtures of helium and oxygen. For these reasons, Kirby Morgan recommends the use of the hot water shroud in waters colder than 40 °F (4 °C).

The P/N 525-100 Hot Water Shroud Kit shown in this manual fits most KM model helmets and BandMasks®, but **DOES NOT FIT** the Stainless Steel models (KM 77, 37SS, KM 97) or the KM 47. For information regarding hot water shroud kits for these models, please contact your Kirby Morgan dealer or e-mail sales@kirbymorgan.com



The hot water shroud is recommended for cold water and/or deep mixed gas diving.

1.1.1 Hot Water Shroud Installation

Tools required:

- ¼ inch Flat Blade Screwdriver
- ⅞ inch Open End Wrench
- Torque Wrench
- ⅞ inch Open End Attachment for Torque Wrench
- 1¼ inch Open End Attachment for Torque Wrench

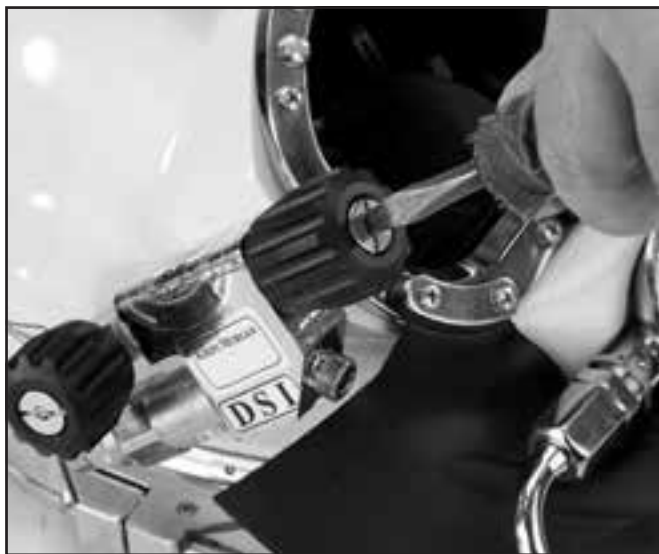
1) Disconnect the bent tube assembly at the side block end only. Loosen the jam nut at the regu-

lator. If the bent tube will not swivel freely, you must loosen the large nut at the regulator.



Loosen the bent tube.

2) Remove the steady flow knob, locknut, and spring.



Remove the steady flow knob.

3) Remove the emergency valve knob, nut, and spring.

4) Screw the regulator adjustment knob in all the way.

5) To install the rubber regulator cover, slide it over the bent tube assembly and stretch it over the regulator adjustment knob.



Pull the shroud over the regulator.

6) Install the rubber side block cover. Start by inserting the one way valve through the square hole on the back side of the cover. All the other holes will then line up correctly.



Position the shroud over the side block.

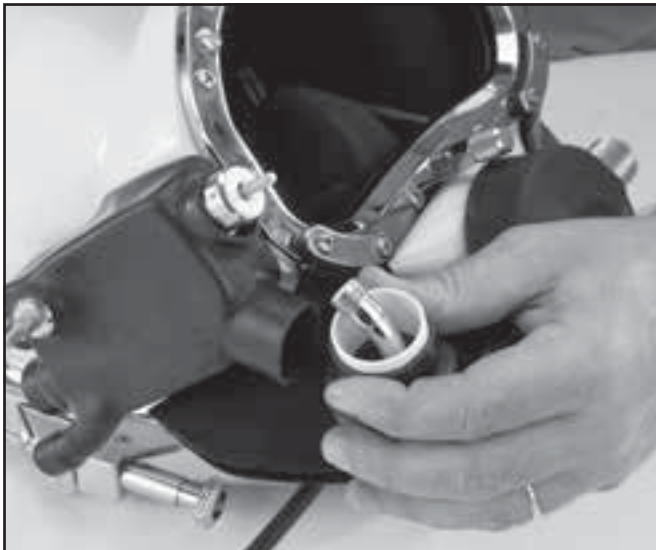
7) Slide one of the PVC Flanges (Part #520-046) over the bent tube and insert it into the regulator shroud.



Slide one of the PVC pieces over the bent tube and insert it into the regulator shroud.

8) Slide the corrugated tube over the bent tube. The PVC flange previously installed in the reg shroud mates with the corrugated tube, with the tube rubber going over the PVC Flange and the reg shroud rubber.

9) Install the second PVC flange in the other end of the corrugated tube. (¼ of the flange should still show).



Install the corrugated tube.

10) Attach the side block end of the bent tube to the side block assembly. Using the torque wrench and 1¼ attachment, torque the bent tube, see “Torque Specs” on page APNDX-19 for correct torque. If the regulator end of the bent tube was

loosened, torque the jam nut, see “Torque Specs” on page APNDX-19 for correct torque

11) Retighten jam nut. Slide the PVC flange up towards the side block and install it into the side block rubber tube. (¼ of the flange should still show).

12) Stretch the corrugated tube over the PVC flange and the side block rubber tube.

13) Wrap the tie wraps around the corrugated tube at the PVC stiffeners and tighten.

14) Trim the excess ends from the tie wraps.

15) Reinstall the steady flow knob, spring, and lock nut. Tighten with a flat blade screwdriver until the valve stem is flush with the lock nut face.

16) Reinstall the emergency valve knob, spring, and nut. Tighten the locknut with a flat blade screwdriver until the valve stem is flush with the lock nut face.



The completed installation.

17) The completed installation should appear as pictured above.