

Chapter 9

Accessories for the Kirby Morgan 47

9.1 Introduction

This section provides the manufacturer's advice on how to install KMDSI accessories including a low pressure inflator hose and the weld lens assembly. The installation procedures shown here are typical for most Kirby Morgan masks and helmets.

9.2 Low Pressure Inflator Hose

The low pressure inflator system may be used with either a buoyancy compensator or dry suit systems. For certain pieces of equipment it may be necessary to use a longer inflator hose than is originally supplied by the manufacturer of the low pressure system.

9.2.1 Installation of the Low Pressure Inflator Hose

Tools Required:

5/32 inch allen wrench attachment on torque wrench

- 1) Remove the plug from the side block. Save this plug.
- 2) Check the O-ring on the low pressure whip to be sure it is present and in good condition. Carefully screw the low pressure whip into the side block.



Remove the plug from the side block and install the inflator hose here.

⚠ WARNING

When using the low-pressure port on the side block for attachment of a low-pressure hose, a hose with built in flow restriction or the KMDSI Flow Restrictor Adapter, P/N 555-210 must be used. Without a restrictor, a hose failure could deplete the Emergency Gas Supply very rapidly leading to suffocation. This could result in serious personal injury or death.



Thread the hose into the side block opening.

- 3) Tighten fitting to the specifications provided by the dry suit manufacturer. Do not overtighten.
- 4) Pressurize helmet and test connection for leaks.

9.3 Weld Lens Assembly

9.3.1 Weld Lens Assembly Installation

Tools Required:

3/8 inch Open End Wrench

1/4 inch Flat Blade Attachment on Torque Screwdriver

1) Remove the two plug screws from the port retainer. Refer to the drawing included with the weld lens assembly kit for the remainder of the location numbers.

2) Insert the screws through the weld lens mount



Remove the two plug screws from the port retainer.



Install the screws through the mount ears.

3) With the shield facing out from the helmet or mask, install and tighten the two mount screws into the port retainer ears.

4) Tighten the two lock nuts on the ends of the hinge studs so that the welding lens assembly can be flipped up, but will not fall down from its own weight.



Tighten the weld lens assembly.

⚠ WARNING

Use only the screws provided with the Weld Lens Kit for installation of this assembly. Longer screws will damage the helmet shell and/or the threaded inserts. This could cause flooding through the port.

9.4 Weld Shield Assembly

9.4.1 Weld Shield Assembly Installation

Tools Required:

3/8 inch Open End Wrench

1/4 inch Flat Blade Attachment on Torque Screw-driver

- 1) Remove the two plug screws from the port retainer. Refer to the drawing included with the weld shield assembly kit for the remainder of the location numbers.
- 2) Insert the mount screws through the spacer washers and then through the weld shield mount ears.
- 3) With the shield facing out from the helmet or mask, install and tighten the two mount screws into the port retainer.



The KMDSI Weld Shield Assembly (KMDSI Part #525-400)

9.5 Use of Quick Disconnect

A Quick Disconnect can be used with all bail-out systems. It provides greater convenience on deck while dressing the diver. It also makes it possible to separate the attachment of the bail-out from the helmet should the diver become entangled underwater. All quick disconnects used must be of good quality and be capable of supplying gas without any additional flow restriction. All quick disconnects used in countries that adhere to CE standards must be CE approved.

A quick disconnect hose may be installed in any low pressure port of the diver's bailout regulator. The connector splits the hose into two halves, with a male connector on one end and a female connector on the other. The female connector should be equipped with a sleeve lock that must be properly aligned before the hose can be disengaged.

One end of the hose with the connector attaches to the emergency valve assembly, while the other end of the hose with its mating connector attaches to any of the standard low pressure ports on the KMDSI SuperFlow® first stage regulator (or any high performance regulator) used for the bail-out supply.



