

Important Notice: Diving is a dangerous sport that can lead to injury or death. These instructions describe the procedure I have used to set up my rebreather to work with the X-Link™ rebreather interface and the X-1™ dive computer. These instructions have NOT been reviewed, tested, or approved by the rebreather manufacturer or Liquivision, and are not guaranteed to be safe or to constitute best practices. These instructions are provided as a courtesy to the diving community and as guidance only. Each diver is solely responsible for any and all loss or damage (including personal injury or death) resulting from following these instructions. In no event will the writer, Liquivision or any other person be liable for any loss or damage (including personal injury or death) arising from, connected with, or relating to these instructions.

Connecting the X-Link to the RB80 and similar PSCR units

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The following manual is provided as a guide to the installation of a Liquivision X1 partial pressure of oxygen sensor link (PP02 link) on to a PSCR AH1, rb200, rb80 and rb100.

After market “plug and play” connections are available that are specifically designed for the unit and I would strongly recommend their use with the X1. For those people who would prefer to construct their own connection I have provided some information in this manual on the basic steps to follow. If there you spot any errors or if you have comments on the manual please contact its author Nick Toussaint.

NOTE : To connect your Rebreather to the Liquivision X1 and the X-Link interface, you will need to connect the O2 sensor and the X-Link via a Fischer cable.

The Fischer cable, O2 sensor and the rebreather adaptor are not provided and must be purchased separately.

Contents of this manual :

- I. Parts you will need
- II. Oxygen sensor installation
- III. Rebreather Adapter installation
- IV. Parts Resources

I. PARTS YOU WILL NEED

1.Liquivision X1 and X-link interface



Note : The Fischer cable adapter and the X-Link Fischer port must be filled with mineral oil every time before use or while in storage and the dust cap plug must be plugged immediately after use.

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2. Fischer Cable and Rebreather Adaptor

You can buy a ready-to-use cable and rebreather adaptor, basically you just plug and play. You can get these parts online (details in Section IV, below).



If you prefer to make your own, you will need to get a Fischer connector and cable. Then you will need make your own rebreather adapter. In this case you need to work a piece of Delrin of the exact diameter and make a groove for an “O” ring to keep it watertight.

Another option is to get an extra plug from your rebreather manufacturer and drill a hole on it and insert the cable with a sealing gland. In this case you will also need to wire the O2 sensor socket.



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3. Oxygen sensor (O2 sensor)

Hydrophobic membrane O2 sensors increase reliability on readings and provide longer lifetime on sensor due to keeping moisture away. The standard Adapter use the R22, Molex 3 Pin, available from online shops (details in Section IV, below).



If you are making your own plug be aware of the different possibilities in cable-to-sensor connectors:



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II. OXYGEN SENSOR INSTALLATION ON REBREATHER ADAPTER

1. Unscrew Rebreather Adapter screw cap.
2. Connect sensor mole 3pin to adaptor socket and slide inside firmly.
3. Screw back Adapter Cap



III. REBREATHER ADAPTER INSTALLATION

As you will see is quite simple to connect you Liquivision X1 and X-Link to the rebreather.

1. Prepare the O2 sensor inside the Adapter first, as described in section II, above.
2. Start unscrewing the rebreather O2 sensor port plug screws and lock board
3. Remove cap and clean the port surface,



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4. Verify O2 sensor adapter “O” ring and place it firmly
5. Place back the lock board
6. Screw back the lock board



And you're done!



IV. PARTS RESOURCES

Complete kit

Europe: <http://www.nick-toussaint.com/Onlinestore/ol9html.html>

USA: <http://www.divegearexpress.com/computers/vrrebreather.shtml>

Just cable

UK: http://www.narkedat90.com/shop/department/cables_and_connectors/

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