



Accident-incident investigation guidelines

Guidelines for preservation of evidence / data in case of accident / incident.

rEvo rebreathers (V1.1 05042016)

A: Contact information:

rEvo Head Quarter:
office Brugge, Belgium:
info@revo-rebreathers.com
+ 32 50 45 44 05 Paul Raymaekers
+ 32 50 45 44 07 Pieter Decoene

worldwide: see rEvo website for local representative:
www.rEvo-rebreathers.com under 'instructors' : rEvo service centers in US and Australia

B: Unit observation / preservation / inspection:

Part 1: observation:

General: manipulate the equipment as little as possible: don't do anything on the rebreather until **high quality pictures** were made of every part of the unit

Assure that pictures have been taken of minimum:

- electronic equipment: computer(s), PPO2 monitors, HUD's: pictures of ALL the displays
- pressure gauges: oxygen, diluent, dry suit gas, offboard gas, bail-out gas
- mouthpiece, and position of the mouthpiece handle
- all hose connections: on the unit, to the wing, dry suit, manual addition valves, ... (pay special attention to disconnected hoses)
- complete setup of the rebreather
- tanks and all markings on the tanks
- any visible damage outside the unit

if damage has occurred during the recovery of the unit: write down what happened

if not possible to take pictures: clearly write down ALL of the above information

alternative: make a high quality video of the general inspection

Part 2: unit preservation for later inspection:

(if possible, video-tape all of the following actions; if not write down all actions that were performed)

- if not yet closed: close the mouthpiece (lever pointing down)
- put/keep the unit flat/laying down, with the yellow cover upwards



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- for all valves: put a marker point on the 'wheel' of the valve, close the valve while clearly noting the number of turns needed to close the valve. (do NOT 'force' close!)
 - oxygen
 - diluent
 - dry suit gas
 - all bail-outs
- write down the number of turns for each valve
- tape all the valves
- electronics:
 - - if you are not familiar with the electronics, do not touch them: data can be lost due to wrong manipulation
 - - if you are: turn off the electronics: (the shearwater computer/controller: left button push (TURN OFF) right button push: CONFIRM
- keep the unit, controller, computer dry to make sure the electronics go/stay in standby mode, and battery power is preserved

Part 3 rebreather inspection: (only for authorised people!)

Important notice: if you tamper with the unit, while not being officially authorised to do post-incident inspection, you can be prosecuted for destroying evidence

- if you are not familiar with rebreathers: do not try to open the rebreather before asking advice!
- for full guidance on unit inspection: contact the manufacturer (see above)
- if not available: contact the rEvo service center in your area or instructor trainers on the rEvo rebreather: see list of instructors trainer on the rEvo website: www.rEvo-rebreathers.com

Do not rely on people that are not trained on the rEvo rebreather: evidence can / will get lost !!