



Cave Diving Group (founded 1946)

Generic Rebreather Dive Preparation Checklist

1	Plan dive and verify diver is fit and well.	
2	Analyse both diluent and oxygen cylinders and check pressure.	
3	Analyse and check bailout system. Note accident statistics often reveal the diver did not have adequate bailout; plan wisely.	
4	Pack scrubber canister or canisters; label with date and time remaining.	
5	Check interstage / medium pressure of oxygen and diluent (outlet pressure from) first stages.	
6	Check loop and mouthpiece for damage or tears.	
7	Check mushroom valves in mouthpiece are in good order and undamaged.	
8	Install scrubber canister into rebreather. Clean and check O-rings.	
9	Install counterlung or counterlungs into rebreather and check O-rings.	
10	Install loop (or "breathing hoses") onto Rebreather and check O-rings.	
11	Install oxygen cylinder onto rebreather with correctly routed hoses.	
12	Install diluent cylinder (if fitted) with correctly routed hoses.	
13	Turn on handset and check battery voltage and cell readings, check HUD (If fitted).	

14	Record millivolts on linearity table and do initial maths.	
-----------	---	--

mv	/ 0.21	x 1.6	Actual	%

15	Do negative pressure test of loop. A successful test will result in crushed loop and breathing bags and once mouthpiece open again an audible sound of air being drawn in.	
16	Do positive pressure test of loop, fill loop with air until over pressure valve passes air. Loop should maintain pressure until mouthpiece is opened to release.	
17	Open oxygen cylinder.	
18	Open diluent cylinder (if fitted).	
19	Check oxygen solenoid (if fitted).	
20	Check ADV is working (if fitted).	
21	Check oxygen manual add valve.	
22	Check diluent manual add valve (if fitted).	
23	Flush unit with oxygen and calibrate unit and HUD (if fitted).	
24	Take millivolt reading in 100% oxygen and complete cell linearity table. Note If cells are past recommended life or unable to read high P02 (current limited). Replace them in either case, to avoid becoming a (likely) fatality.	
25	If not diving immediately, turn off cylinders, drain IP lines, flush out oxygen and turn electronics off.	

M Thomas CDG Somerset Training Officer with thanks to J N Cordingley and A M Ward CDG National Training Officer (2020).