## O2ptima Classic Assembly Guide Checklist

Date	Dive Location Dive Buddy
1.	Fill oxygen, diluent, and bailout cylinders if needed.
	^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^
<i>2</i>	Bailout 1% O2 /% He , Bailout 2% O2 /% He
3.	
	Turn on handset and check O2 sensor display in ambient air. Record mV readings: 1) 2) 3)
	Readings should be between 8 and 14 mV.
5	Change to low setpoint to fire O2 solenoid. Check voltage: Ext V Int V Change setpoint to .19.
6	Check HUD O2 sensor display in ambient air and ensure that the reading agrees with the handset.
7	Mount oxygen and diluent cylinders, attach regulators, and route hoses.
8	Steramine and rinse canister, lid, loop, and counterlungs unless completed before storage.
9	Inspect canister, head, and lid. Is scrubber: EAC Sorb (type:)
	New Used ( min)
10	If using sorb, pack scrubber canister.
11	Install canister.
12	Lube head o-rings and flat seal as necessary. Confirm o-ring is in place on premix tube and install head.
13	If using EAC, inspect cartridge for damage, mark/note cartridge direction and install cartridge.
14	Inspect bore plug and confirm that it is installed in correct orientation.
15	Confirm water trap is installed in lid. Lube lid o-rings and flat seal as necessary. Install lid.
16	Confirm solenoid oxygen supply hose is securely attached and electronics canisters are plugged in.
17	Pressure test canister. If good, ensure hoses are routed correctly and install back cover and trim weights if needed.
18	Install calibration caps, connect O2 hose, turn on controller, and flush with oxygen until PP02 readings stabilize.
19	Check and record mV readings while filled with O2. Minimum 40 mV. Check for stability.
	1) 2) 3)
20	Turn on HUD to check operation at 1.0 PPO2. Calibrate controller and/or HUD if required.
21	Inspect loop, fittings, o-rings, and counterlungs. Lube as needed. Install counterlungs. Assemble loop hoses to T-pc and
22	ADV and attach to counterlungs.
	Attach ADV, BC, and manual add feeds.
23	Inspect and test DSV directional valves and mouthpiece. Attach DSV to loop, close DSV, turn off in-line shutoffs, close counterlung exhaust valve and confirm correct flow direction through loop.
24	Connect loop to scrubber canister. Double check all loop fittings for tightness. Cover canister fittings with neoprene
	covers and route controller and HUD cables.
	Perform negative pressure test for a minimum of 30 seconds.
	Perform positive pressure test for a minimum of 2 minutes.
27	Turn on oxygen and diluent cylinders, open counterlung exhaust valve, and turn on inline shutoffs. Check ADV, manual
	add valves, trim pillow inflator, BC inflator and exhaust valves/OPVs for proper operation.
28	Record oxygen and diluent cylinder pressures: Oxygenbar, Diluentbar Turn off cylinders and perform a leak down check.
29.	Turn oxygen and diluent cylinders back on, change setpoint to 0.5, and perform a 5 minute pre-breath confirming
_	correct solenoid operation.
30	Confirm correct onboard & bailout gases are configured and selected in computers and that they are set to CCmode.

31. \_\_\_\_Check bailout regulator hoses, mouthpieces, and hose fitting tightness. Install bailout regulators. Confirm IP as needed.