

O2ptima Training/Build checklist

O2 sensors have been installed prior to beginning the checklist. Note sensor expiration date
Use Smartphone reminder!!!!

Name: _____ Date: _____

Initials _____ (Note: initial **only** when task has been performed/completed)

- _____ 1. Inspect all parts for dirt, deterioration, damage and lubricate during assembly.
- _____ 2. Charge O2 and diluent cylinders. Analyze O2: _____% (98.0% min) Diluent (O2/He) _____
- _____ 3. Analyze diluent and bailout/deco cylinders.
Bailout/deco 1) _____ Record pressures in B/O _____
- _____ 4. Mount O2 and diluent cylinders
- _____ 5. Install O2 and diluent 1st stage assemblies, route and all supply hoses.
- _____ 6. Install backplate/harness and wing, check fit.
- _____ 7. Check primary handset O2 sensor display in ambient air: Cells MV 10-14
- _____ 8. Check 2ndary handset O2 sensor display in ambient air: Cells MV 10-14
- _____ 9. Inspect and lubricate CO2 canister o-rings and install canister.
- _____ 10. Install new/replace ExtendAir cartridge.
- _____ 11. Install Plug on O2 Injection hose and press into EAC
- _____ 12. Check stack time on primary handset, reset if necessary.
- _____ 13. Install O2 supply hose to O2 supply intake on head (hand-tight).
- _____ 14. Install Scubber on Frame secure with strap
- _____ 16. Mount counterlungs .
- _____ 17. Install ADV, and exhalation Tee section on Counter lungs.
- _____ 18. Install breathing hoses from Tee and ADV sections to scrubber canister. (red fittings are reverse threaded)
- _____ 19. Install hoses on DSV assembly
- _____ 20. Conduct flow direction breathing test on DSV/house assembly.
- _____ 21. Install DSV/Hose assembly to ADV/Tee section
- _____ 22. Connect LP hoses to O2, Diluent and ADV, verify operation
- _____ 23. Close ADV upstream shut off.
- _____ 24. Verify exhale CL overpressure relief valve (OPV) purge operation and close.
- _____ 25. Perform Negative pressure test hold at least 30 seconds (Hand sets should be off)
- _____ 26. Inflate loop with pure O2 and orally deflate 3 times.
- _____ 27. Inflate with O2 and match atmospheric pressure. Open DSV briefly to match pressure.
- _____ 28. Turn on hand sets, set Auto shut off to 30 minutes set to OC mode
- _____ 29. Verify sensor MV displays on both handsets (45mv min.; end disp. ASAP)
- _____ 30. Wait 5 minutes with CLs full – positive pressure test.
- _____ 31. Calibrate Primary AND secondary O2 sensors (OPT; calibrate O2)
- _____ 32. Fill Loop with Diluent and check PO2 of Diluent
- _____ 33. Close O2 and diluent valves, wait 2 minutes - O2: ____psi Diluent ____psi (pressure leak check)
- _____ 34. Open ADV upstream shut-off valve and, open CL OPV/purge valve.
- _____ 35. Ensure Primary is set to CCR mode and 0.7 set point
- _____ 36. Verify solenoid and HUD operation
- _____ 37. Ensure a PO2 of .7 is maintained by manually “pumping” Couterlungs Listen for solenoid operation

Overinflating CL's may be caused by leaking Solenoid or manual add valves.

DONOT DIVE WITH A KNOWN FAILURE!

