

Build checkdate: Number#:

- ☐ Analyse O2 tank: %O2: bar:
- ☐ Analyse Dil tank: %O2: %He: bar:
- ☐ Install both tanks on the unit; check fixings correctly installed
- ☐ Connect regulators to tank valves

- ☐ Turn on Petrel and Nerd. Batteries OK? Petrel V: Nerd V:
- ☐ Cell milliVolts in air: c1: c2: c3: c4: c5:
- ☐ Petrel SP = 0.7
- ☐ Fire solenoid 3x; external battery voltage > 6.5V v:
- ☐ Petrel SP 0.19
- ☐ Check oxygen sensor life: youngest sensor is < 7 months old? If not add/replace sensor and mark date

- ☐ Check remaining scrubber time: If needed refill with fresh sorb
- ☐ Install moisture absorber in inhale lung, UNDER non-collapse tube
- ☐ Correctly install sensor grid and solenoid grid (ADV at 9 o'clock); check cable routing
- ☐ Install scrubbers, RMS arrows pointing up; "TOP" marker on exhale scrubber
- ☐ Check scrubber O-rings; clean sealing surfaces; grease if needed
- ☐ Close cover, screw hand tight
- ☐ Check breathing loop hoses; perform stereo check (non-return valves); check bite-piece, O-rings breathing loop, clean sealing surfaces, grease if needed
- ☐ Install breathing loop on rebreather
- ☐ Wrap Nerd cable 3-4 times clockwise around loop (under)
- ☐ Attach hose protectors if used

Closed checkdate:

- ☐ Open O2; add O2 manually; pressure bar:
- ☐ Turn on Petrel and Nerd. Batteries OK (>1.25V/3.30V)?
 Petrel V: Nerd V:
- ☐ Change Shearwater controller to set-point high; check solenoid fires 3x?
- ☐ External battery voltage > 6.5V v:
- ☐ Change Shearwater controller set-point to 0.19
- ☐ Full O2 flush: 3 X / DSV in mouth / close DSV / re-open gap
- ☐ Shearwater Petrel calibrate OK ?
- ☐ Shearwater Nerd calibrate OK ?
- ☐ Close O2 / pressure drops OK (orifice)? Depressurise O2 line

- ☐ Open Dil; suck ADV; close loop
- ☐ Add Dil manually; pressure bar:
- ☐ Overpressure test; OPV releases pressure?
- ☐ Inflate wing to max; check dumps
- ☐ Flush dil : PPO2 0.21 – 0.22 ?
- ☐ Close dil: pressure stays?
- ☐ Negative test (start)

- ☐ Analyse content of bailout tank(s):
 Tank1: %O2: %He: bar:
 Tank2: %O2: %He: bar:
- ☐ Check Petrel & Nerd: gasses correctly programmed in CC/OC
- ☐ Check bailout(s) regulators, hoses correctly assembled?
- ☐ Open bail-out(s): pressure? breathe, pressure remains?
- ☐ Close bail-out(s); check mushroom valve regulator by inhaling
- ☐ Check sufficient scrubber time for the next dive? time/new:
- ☐ Negative test ok? Turn off Shearwaters

- ☐ Check suit inflate cylinder assembled & attached? Pressure bar:
- ☐ Check umbilical lights connected to battery; suit heater cable connected; batteries charged?
- ☐ Check harness, crotch strap, gag strap, lights.... weight: