

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: <input type="text"/>	c2: <input type="text"/>	c3: <input type="text"/>	c4: <input type="text"/>	c5: <input type="text"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------
- 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: