

Belemnite Divers SF2 CCR

SF2 Assembly Checklist

Diver Name	Unit SN
Date	Hours on scrubber

Pre Dive Assembly

1. Analyze, label and pressure test bailout cylinders.		14. If needed, confirm the oxygen interstage pressure is 7-7.5 bar.	
2. Analyze and pressure test Oxygen and Diluent cylinders. Label cylinders. 		15. If needed, confirm diluent interstage pressure is 9 bar.	
3. Install brackets onto Oxygen and Dil cylinders. Attach to CCR and connect the first stages.		16. Connect the ADV and MAV hoses to the middle section fittings.	
4. Verify the counterlung is clean and inspect for damage.		17. Calibrate head unit and heads up display. Diluent:  Oxygen: 	
5. Verify the over-pressure valve (OPV) is functional and fully closed.		18. Set the setpoint to 0.19ppO2.	
6. Verify the middle section is clean and the o-ring is defect free. Check the ADV can move freely when the bellows reaches it.		19. Connect the solenoid hose to the head fitting.	
7. Fit the middle section with the ADV and MAV valves facing the diver.		20. Slowly open the diluent and oxygen cylinder completely.	
8. Fit the upper section with the serial tag upright		21. Verify each MAV functions correctly.	
9. Fill the scrubber cartridge with Sofnolime 797, or verify it has enough time remaining for the planned dive and any contingency. Place the canister in the middle section.		22. Connect the wing inflator hose, confirm the inflator and dumps are functional.	
10. Verify the sensors in the head unit are dry and connected and the cover plate is screwed down. Fit bottom head cover and tighten the head nut.		23. Verify correct operation of the mushroom valves in the hose for both inhale and exhale. Check the o-rings and connect the hose to the head unit.	
11. Power the head unit on. Set the set point to >0.21 and listen for solenoid firing 3 times. Check internal and external battery levels.		24. Test the DSV is functional.	
12. Check the head unit is dry, and that the o-ring is intact and lightly greased.		25. Close both cylinders and confirm pressure is held for >1min. Re-open the cylinders.	
13. Fit the head unit to the middle section over the scrubber.		26. Close the ADV isolator on gas in line. Complete a full positive and negative pressure test on the counterlung.	