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Poseidon Discovery

Quick Reference : Test Codes Firmware V44

Test Code (Two first digits)

1. Display data logger is accessible
2. Display ROM / RAM
3. Display EEPROM
4. HUD ROM / RAM
5. HUD EEPROM
6. Backpack ROM / RAM
7. Backpack EEPROM
8. Battery ROM / RAM
9. Battery EEPROM
10. Unused #1 ROM / RAM
11. Unused #1 EEPROM
12. Unused #2 ROM/ RAM
13. Unused #2 EEPROM
14. Battery data logger is accessible
15. Firmware version compatibility test
16. Battery State of Charge Test.
17. Display backlight current test
18. HUD LED current test
19. Unused current test
20. Buddy LED current test
21. Unused current test
22. Vibrator current test
23. Unused current test
24. Metabolic O2 solenoid #1 current test
25. Metabolic O2 solenoid #2 current test
26. Calibration O2 solenoid current test
27. Diluent solenoid current test
28. Unused current test
29. Speaker current test
30. O2 Cylinder pressure sensor validation.
31. DIL Cylinder pressure sensor validation.
32. Spare HP sensor validation (HW test)
33. Spare HP sensor validation (HW test)
34. PO2 sensor #1 validation (HW test)
35. PO2 sensor #2 validation (HW test)
36. Spare PO2 sensor validation (HW test).
37. Spare sensor validation
38. Depth/Temperature sensor validation
39. Spare resource test
40. Decompression status verification
41. Spare resource test
42. Spare resource test
43. Mouthpiece OC test
44. Sufficient oxygen to go diving test
45. Sufficient diluent to go diving test
46. Spare resource test
47. Spare resource test
48. Sufficient battery power to go diving test.
49. Positive pressure loop test
50. Mouthpiece CC test
51. Spare Calibration test
52. Spare Calibration test
53. O2 Calibration test
54. Open Circuit regulator test
55. Service Interval test

Error Code (Two last digits)

0. The test timed out (failed to complete)
1. The test passed
2. The datalogger IC on the Display is bad
3. The ROM on the PCB test failed, CRC check
4. The RAM on the PCB test failed, CRC check
5. The fuses on the PCB test are set wrong
6. The EEPROM on the CPU test is corrupted
7. The SW version battery vs. system no match
8. A CPU version doesn't match system.
9. The quiescent current draw is too low
10. The quiescent current draw is too high
11. The DUT's current draw was too low
12. The DUT's current draw was too high
13. The datalogger IC on the battery is bad
14. The HPO2 power supply can't be turned off
15. The HPO2 power supply can't be turned on
16. The HPO2 sensor is defective
17. The HP Diluent power supply can not be OFF
18. The HP Diluent power supply can not be ON
19. The HP Diluent sensor is defective

20-25. Reserved

26. The O2 sensor output is too low
27. The O2 sensor output is so low, missing?

28-30. Reserved

31. The depth sensor is suspect

32-34. Reserved

35. Battery's CRC was invalid
36. Backpack's CRC was invalid
37. Battery serial number has changed
38. Battery & back pack disagreed on the TOD
39. Both the battery & backpack CRC are invalid

40-45. Reserved

46. Failed to fill loop
47. Solenoid #1 failure
48. Solenoid #2 failure
49. Loop is leaking
50. Valve leaking
51. The bag pressure increased, leaking valve

52-56. Reserved

57. Not enough battery power to go diving
58. Battery learn cycle is required.

59-65. Reserved

66. Diluent FO2 is bad
67. Primary DIL is low
68. Priimary DIL is high
69. Secondary DIL is low
70. Secondary DIL is high
71. Oxygen FO2 is bad
72. Primary O2 is low
73. Primary O2 is high
74. Secondary O2 is low
75. Secondary O2 is high
76. Bad time constant
77. Not in CC mode

78-80. Reserved

81. The service interval has expired