

FATHOM SYSTEMS

FATHOM CCR BUILD CHECKLIST

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CONSUMABLES			
Fill and analyze oxygen	psi/bar	O ₂ %	
Fill and analyze diluent	psi/bar	O ₂ /He %	
Remaining scrubber duration		min	
Handset battery		volt	
HUD battery		volt	
OXYGEN SENSORS			
O ₂ cells < 1 year	mm/yy	mm/yy	mm/yy
Record Air mV (8.5 - 14 mV) on table and do initial math			initial
Cell	Air @ 1 ata	/0.21	O ₂ @ 1 ata
1	mV	mV	mV
2	mV	mV	mV
3	mV	mV	mV
ASSEMBLY			
Insert scrubber, spacer, and chammies			initial
Inspect head o-rings (4 total)			initial
Install head w/line-lock			initial
Mount onboard cylinders			initial
Attach wing, counterlungs, & backplate			initial
Flow test BOV/DSV mushroom valves			initial
Assemble breathing loop, MAVs, & regs			initial
PRESSURE TESTS			
Positive (3-5 min w/gas off)			initial
Negative (3-5 min w/gas off)			initial
Pneumatics (MAVs, wing, drysuit)			initial
CALIBRATION			
Flush with 100% oxygen			initial
Record oxygen mV @ 1 ata			initial
Evaluate for linearity and current limiting (<10% deviation)			initial
Calibrate handset and HUD (if required)			initial

Date

FATHOM DIVE SYSTEMS

FATHOM CCR PERIODIC CHECKLIST

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Oxygen first stage IP (205 - 290 psi/14 - 20 bar)					psi/bar
Oxygen MAV min flow (< 0.1 lpm)					initial
OXYGEN SENSORS					
Record Air mV (8.5 - 14 mV) on table and do initial math					initial
Flush with 100% oxygen					initial
Calibrate handset and HUD					initial
Record oxygen mV @ 1 ata					initial
Increase pressure to 2 ata (14.7 psi/1 bar) and record mV					initial
Evaluate for linearity and current limiting (<10% deviation)					initial
Cell	Air @ 1 ata	/0.21	wx 2	O ₂ @ 1 ata	O ₂ @ 2 ata
1	mV	mV	mV	mV	mV
2	mV	mV	mV	mV	mV
3	mV	mV	mV	mV	mV

Date

