

DIVESOFT LIBERTY ASSEMBLY CHECKLIST

BMCL + BOV

Result

Scrubber tilled – residual time is sufficient for planned dive (note dived hours) Scrubber is installed inside the canister Safety plugs (jumpers) connected to batteries Head 0-rings clean, well tubed and not damaged Head fits easily to canister. No visible gap between canister and head. Canister with head placed in frame lock is secured in backplate Cyzgen supply hose connected to head Diluent tank analyzed, connected to 1 st stage, secured with strep on LEFT side. Cyzgen sansors calibrated (note and calculate values on the backside) Cyzgen sensors calibrated (note and calculate values on the backside) Covygen sensors calibrated (note and calculate values on the backside) Countertungs fitted to backplate and secured Directional flow test ok Corrugated hoses connected to ead Corrugated hoses connected to bead Corrugated hoses connected to counterlungs Cyzgen I P hose connected to diluent MAV (green hose to right green MAV) Diluent LP hose connected to BOV 2 rd stage HUB display connected to BOV 2 rd stage HUB display connected to BOV L P and HP system check for leaks Pre-dive check on handsets done with no failure Cyzgen tank OPENED Press.: Diluent tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2 rd stage working Wing Intlator hose connected to shoulder harness works and doesn't leak Weight fastened Central Cenister strap fastened Railout tank analyzed and assembled Gas: Billout tank analyzed and assembled Gas: Billout tank analyzed and assembled Central Cenister strap fastened Jiving light canister and dry suit supply fitted (if needed)	1	Water trap present/fitted	
4 Safety plugs (jumpers) connected to batteries 5 Head 0-rings clean, well lubed and not damaged 6 Head fits easily to conister. No visible gap between canister and head. 7 Canister with head placed in frame look is secured in backplate 8 Oxygen supply hose connected to head 9 Diluent tank analyzed, connected to 1st stage, secured with strap on LEFT side Gas: 10 Oxygen tank analyzed, connected to 1st stage, secured with strap on RIGHT side Gas: 11 Oxygen sensors calibrated (note and calculate values on the backside) 12 Counterlungs fitted to backplate and secured 13 Dump valve connected; opening cord available 14 Directional flow test ok 15 Corrugated hoses connected to counterlungs 16 Corrugated hoses connected to oxygen MAV (green hose to right green MAV) 17 Oxygen LP hose connected to oxygen MAV (green hose to left black MAV) 18 Diluent LP hose connected to BDV 2st stage 19 HIJD display connected to BDV 2st stage 20 HIJD display connected to BOV 21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED 24 Diluent tank OPENED 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2st stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Railout tank analyzed and assembled 32 Ballout tank gas and pressure 33 Ballout tank gas and pressure	2	Scrubber filled — residual time is sufficient for planned dive (note dived hours)	
head 0-rings clean, well lubed and not damaged head fits easily to canister. No visible gap between canister and head. Canister with head placed in frame lock is secured in backplate Dituent tank analyzed, connected to head pilluent tank analyzed, connected to 1 ^{rt} stage, secured with strap on LEFT side Coxygen tank analyzed, connected to 1 ^{rt} stage, secured with strap on RIGHT side Coxygen sensors catibrated (note and calculate values on the backside) Counterlungs fitted to backplate and secured Dump valve connected; opening cord available Directional flow test ok Corrugated hoses connected to head Corrugated hoses connected to oxygen MAV (green hose to right green MAV) Diluent LP hose connected to diluent MAV (black hose to left black MAV) Regulator LP hose connected to BOV 2 rd stage HUD display connected to BOV LP and HP system check for leaks Pre-dive check on handsets done with no failure Coxygen tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released Ming Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Cenister strap fastened Ballout tank analyzed and assembled Ballout tank analyzed and assembled Ballout tank gas and pressure Press.:	3	Scrubber is installed inside the canister	
6 Head fits easily to canister. No visible gap between canister and head. 7 Canister with head placed in frame lock is secured in backplate 8 Oxygen supply hose connected to head 9 Diluent tank analyzed, connected to 1 st stage, secured with strap on LEFT side Gas: 10 Oxygen tank analyzed, connected to 1 st stage, secured with strap on RIGHT side Gas: 11 Oxygen sensors calibrated (note and calculate values on the backside) 12 Counterlungs fitted to backplate and secured 13 Dump valve connected; opening cord available 14 Directional flow test ok 15 Corrugated hoses connected to head 16 Corrugated hoses connected to counterlungs 17 Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) 18 Diluent LP hose connected to BOV 2 st stage 19 HUD display connected to BOV 2 st stage 20 HUD display connected to BOV 2 st stage 21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED Press.: 24 Diluent tank OPENED Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2 st stage working 28 Wing inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Ballout tank analyzed and assembled Gas: 32 Ballout tank gas and pressure Press.:	4	Safety plugs (jumpers) connected to batteries	
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8 Oxygen supply hose connected to head 9 Diluent tank analyzed, connected to 1st stage, secured with strap on LEFT side 6as: 10 Oxygen tank analyzed, connected to 1st stage, secured with strap on RIGHT side 6as: 11 Oxygen sensors calibrated (note and calculate values on the backside) 12 Counterlungs fitted to backplate and secured 13 Dump valve connected; opening cord available 14 Directional flow test ok 15 Corrugated hoses connected to head 16 Corrugated hoses connected to counterlungs 17 Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) 18 Diluent LP hose connected to diluent MAV (black hose to left black MAV) 19 Regulator IP hose connected to BDV 2stage 20 HUD display connected to BDV 21 LP and HP system check for leaks 22 Pre dive check on handsets done with no failure 23 Oxygen tank OPENED 24 Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled 32 Bailout tank gas and pressure 33 Press.:	6	Head fits easily to canister. No visible gap between canister and head.	
9 Diluent tank analyzed, connected to 1stage, secured with strap on LEFT side Gas: 10 Oxygen tank analyzed, connected to 1stage, secured with strap on RIGHT side Gas: 11 Oxygen sensors calibrated (note and calculate values on the backside) 12 Counterlungs fitted to backplate and secured 13 Dump valve connected; opening cord available 14 Directional flow test ok 15 Corrugated hoses connected to head 16 Corrugated hoses connected to counterlungs 17 Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) 18 Diluent LP hose connected to diluent MAV (black hose to left black MAV) 19 Regulator LP hose connected to BOV 2stage 20 HUD display connected to BOV 21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED Press.: 24 Diluent tank OPENED Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Ballout tank analyzed and assembled 32 Ballout tank gas and pressure Press.:	7	Canister with head placed in frame lock is secured in backplate	
Oxygen tank analyzed, connected to 1" stage, secured with strap on RIGHT side Oxygen sensors calibrated (note and calculate values on the backside) Counterlungs fitted to backplate and secured Dump valve connected; opening cord available Corrugated hoses connected to head Corrugated hoses connected to counterlungs Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) Billuent LP hose connected to BOV 2" stage HUD display connected to BOV 2" stage HUD display connected to BOV LP and HP system check for leaks Pre dive check on handsets done with no failure Oxygen tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2" stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Central Canister strap fastened Ballout tank analyzed and assembled Ballout tank gas and pressure Press.:	8	Oxygen supply hose connected to head	
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12 Counterlungs fitted to backplate and secured 13 Dump valve connected; opening cord available 14 Directional flow test ok 15 Corrugated hoses connected to head 16 Corrugated hoses connected to counterlungs 17 Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) 18 Diluent LP hose connected to diluent MAV (black hose to left black MAV) 19 Regulator LP hose connected to BOV 2nd stage 20 HUD display connected to BOV 21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED Press.: 24 Diluent tank OPENED Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2nd stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled Gas: 32 Bailout tank gas and pressure Press.:	10	Oxygen tank analyzed, connected to 1^{st} stage, secured with strap on RIGHT side	Gas:
Dump valve connected; opening cord available Directional flow test ok Corrugated hoses connected to head Corrugated hoses connected to counterlungs Vaygen LP hose connected to oxygen MAV (green hose to right green MAV) Biluent LP hose connected to BOV 2nd stage HUD display connected to BOV 2nd stage LP and HP system check for leaks Pre-dive check on handsets done with no failure Diluent tank OPENED Press.: Diluent tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2nd stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Gas: Bailout tank gas and pressure Press.:	11	Oxygen sensors calibrated (note and calculate values on the backside)	
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Corrugated hoses connected to head Corrugated hoses connected to counterlungs Tour Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) Diluent LP hose connected to diluent MAV (black hose to left black MAV) Regulator LP hose connected to BOV 2nd stage HUD display connected to BOV LP and HP system check for leaks Pre-dive check on handsets done with no failure Oxygen tank OPENED Press.: Diluent tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2nd stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Gas: Bailout tank gas and pressure Press.:	13	Dump valve connected; opening cord available	
16 Corrugated hoses connected to counterlungs 17 Oxygen LP hose connected to oxygen MAV (green hose to right green MAV) 18 Diluent LP hose connected to diluent MAV (black hose to left black MAV) 19 Regulator LP hose connected to BOV 2nd stage 20 HUD display connected to BOV 21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED Press.: 24 Diluent tank OPENED Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2nd stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled 32 Bailout tank gas and pressure Press.:	14	Directional flow test ok	
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19 Regulator LP hose connected to BOV 2 nd stage 20 HUD display connected to BOV 21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED Press.: 24 Diluent tank OPENED Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2 nd stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled Gas: 32 Bailout tank gas and pressure Press.:	17	Oxygen LP hose connected to oxygen MAV (green hose to right green MAV)	
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21 LP and HP system check for leaks 22 Pre-dive check on handsets done with no failure 23 Oxygen tank OPENED Press.: 24 Diluent tank OPENED Press.: 25 Both MAVs work and doesn't leak 26 ADV injects gas if pressed and closes when released 27 BOV 2nd stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled Gas: 32 Bailout tank gas and pressure Press.:	19	Regulator LP hose connected to BOV 2 nd stage	
Pre-dive check on handsets done with no failure Oxygen tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2nd stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Bailout tank gas and pressure Press.:	20	HUD display connected to BOV	
Oxygen tank OPENED Press.: Diluent tank OPENED Press.: Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2nd stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Bailout tank gas and pressure Press.:	21	LP and HP system check for leaks	
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Both MAVs work and doesn't leak ADV injects gas if pressed and closes when released BOV 2 nd stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Gas: Bailout tank gas and pressure Press.:	23	Oxygen tank OPENED	Press.:
ADV injects gas if pressed and closes when released BOV 2 nd stage working Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Bailout tank gas and pressure Press.:	24	Diluent tank OPENED	Press.:
27 BOV 2 nd stage working 28 Wing Inflator hose connected to shoulder harness works and doesn't leak 29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled 32 Bailout tank gas and pressure 33 Press.:	25	Both MAVs work and doesn't leak	
Wing Inflator hose connected to shoulder harness works and doesn't leak Weight fastened Central Canister strap fastened Bailout tank analyzed and assembled Bailout tank gas and pressure Press.:	26	ADV injects gas if pressed and closes when released	
29 Weight fastened 30 Central Canister strap fastened 31 Bailout tank analyzed and assembled Gas: 32 Bailout tank gas and pressure Press.:	27	BOV 2 nd stage working	
30 Central Canister strap fastened 31 Bailout tank analyzed and assembled Gas: 32 Bailout tank gas and pressure Press.:	28	Wing Inflator hose connected to shoulder harness works and doesn't leak	
Bailout tank analyzed and assembled Gas: Bailout tank gas and pressure Press.:	29	Weight fastened	
32 Bailout tank gas and pressure Press.:	30	Central Canister strap fastened	
	31	Bailout tank analyzed and assembled	Gas:
33 Diving light canister and dry suit supply fitted (if needed)	32	Bailout tank gas and pressure	Press.:
	33	Diving light canister and dry suit supply fitted (if needed)	

Checked by: Date: Signature:



$\mathbf{O}_{\!_{2}}$ SENSOR CALIBRATION CHART

	Cell voltage AIR	Cell voltage calculated to 0_2 (mV on air x 4.76)	Cell voltage on 0_2 (by calibration)
Sensor 1	mV	mV	mV
Sensor 2	mV	mV	mV
Sensor 3	mV	mV	mV
Sensor 4	mV	mV	mV