

rEvo III

service plan



Version 2021



1. Maintenance Schedule

		rEvo III ser	vice p	lan			
		condition based	6M	1Y	2Y	5Y	Remarks
general							
Desir	fecting		Х				USER
Cannisters							LICER
Filter	set			X	X	X	USER
loop							
	Barrel O-ring kit		Х	x	X	Х	USER
	Barrel O-ring kit		X	X	X	X	USER
	second stage service		1	1.	X	X	
	room valves			+	X	X	USER
	hoses	Х					-
	piece + strap	Х					
	•						
Gass adition				_		_	
First :	stage service	Х			Х	Х	
hose	kit + Schradders	Χ					
hoses	s HP + Swivel	X					
ADV :	service					Х	
Solen	oid	Х					
Orific	e (flow)	Х					
MAV	block, gas buttons	Х				Х	
Clipp	ard	X					Elemination Kit
Wing							
Blado		Х					
Inflat		Х					
Dum	o valve	X					
-1 .							
Eletronics				1,,			Luces
	o-ring kit		-	Х	X	X	USER
	pdate	X			-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	x Connectors	X				X	
rEvoc	lream P5 Battery					Х	



	rEvodream P/NG Battery	X					USER
	Oxygen sensors (exchange)		Х	Х	Х	Х	USER
Housing							
	Condition, rust, pressnuts	Х				Х	
	Bolts					Х	
	Internal service					Х	
	OPV Valve Part					Х	
	O-ring kit R212				Х	Х	
	Counter lungs	Х					



2. Loop service

Reference documents: How to service BOV barrel part

	DSV / BOV / breathing loop		
Mushroom valves	Replace both inhale/exhale	R519	
Spiders	Replace if old drager spiders	R536/537	
DSV Barrel	change o-rings (part of R212), lubricate Tribolube	R212	
BOV Barrel	change o-rings, lubricate Tribolube	R634	
BOV second stage	service second stage part		
Breathing hoses	check for wear, tears,	R518	
Hose connection	replace o-rings, tyraps on hose connectors to housing, check condition of treath (part of R212)		
DSV Bite-piece	check for tears, gag-strap present?	R521 / R527	
Remarks:		'	

3. Wing Harness

Wing + Harness				
check operation, infl. button smooth operation?, wing inflation time < 15 sec (50lbs) or < 10 sec (35lbs). Air leak?	r241			
funtional? Leak? Clean				
Positive Pressure test, leak?	R569			
check attachments, check buckles				
check crotch strap	R580			
check condition of backplate protectors, replace if torn	R546A / R546B			
	'			
i (check operation, infl. button smooth operation?, wing inflation time < 15 sec (50lbs) or < 10 sec (35lbs). Air leak? funtional? Leak? Clean Positive Pressure test, leak? check attachments, check buckles check crotch strap	check operation, infl. button smooth operation?, wing inflation time < 15 sec (50lbs) or < 10 sec (35lbs). Air leak? r241 funtional? Leak? Clean Positive Pressure test, leak? R569 check attachments, check buckles check crotch strap R580 R546A /		



4. Housing

	rEvo Housing		
Carrying handle	condition? Screws present?	R555	
feet	Condition stands, cracked, rubber parts present?	R1032A/B	
Stand	Install, modify housings <2019		
weight shelf	condition, replace if necessary		
housing	replace bolts after unit being opened		
housing	check for damaged, loose Press nuts, replace if needed		
housing	Remove rust, dents, polish, clean		
Remarks:			

5. Gas addition

Reference documents: How to eliminate clipart buttons; Service Manuel 25CCR; How to install the triple MAV

	regulators + Hose connections and gauges		
Regulators	Service both regulators, service kit APO241 (APEKS)	R1033	
Regulators	Service both regulators, service kit MARES 46201809		
Regulators	APR plate installed?, replace if needed (orifice plugged)		
regulators	adjust intermediate pressure: 10 bar (orifice 0,035) / 12 bar (orifice 0,030)		
Hoses HP and MP	check condition of the hoses, replace if damaged or leaking		
Hoses HP and MP	check condition of Shradder valves, replace if leaking	R1037	
Pressure gauges	Check functionality, Leak? Replace swivel if needed	R1038	
Remarks:		1	



	MAV frontmount / Clippard buttons				
MAV block	check funtion of Dil / O_2 / offboard button, moves smoothly, leak?, replace if necessarry rubber protector on offboard, replace if necessary	R567A / R567B R575			
Clippard	replace if locked	R522A / R522B			
Remarks:					

6. Cannisters

Cannisters				
Cannisters	Clean canister, replace filter pads	R203		
Cannisters	Check condition of canister, Stainless grids not dislocated?			
Cannisters	Top Marker Present?	R558		
Remarks:				

7. Internal service

	OPV					
OPV	Replace OPV valve part	R716				
OPV	check and adjust overpressure 30mbar < X < 40 mbar					
Remark	S:					



	Internal Service	
counterlungs	check condition, vacuumtest, replace if necessary	R900 / R901 / R902
Anticolaps	check fixture, check tyraps	
internal Gas supply	replace internal gas cables (4 mm green / blue)	
ADV	check condition, if leaks, the service. Adjust trigger point	R1067
ADV	Service valve part	
CMF	check orifice, condition? Replace shrinkwrap if needed. Flow between 0,5 and 0,6 l/min?	
Solenoid	check fixture, check wireing, clean and grease sollenoid connection (non-waterproof version)	
O ₂ cells	check for compliancy to cell exhange policy	
Cell tray	check for damage, if brittle, upgrade to black injection molded trays. (Part of R718 upgrade kit 2012)	
Cover + seals	check cover for damage, replace sticker if needed, replace Orings (Part of R212)	
Connection/ports	check condition of PG7 plugs, leaks, damage, replace if necessary	
Remarks:		

8. Electronics

rEvo Dreams				
			-	
rEvo Dreams	check functionality, calibration cycle, LED's in HUD,			
		R432 /		
rEvo Dreams	Battery change	R437		
rEvo Dreams	O-ring replacement of Dream body			



rEvo Dreams	Check condition of Molex conn. Repair, replace if needed	R572	
rEvo Dreams	Rubber protector, check condition, replace if necessary	R500	
rEvo Dreams	Fixture to Pressure gauge, check condition,		
Remarks:			

Reference documents: How to check power consumption on the rMS system

Electronics (only hCCR and eCCR)				
Battery box	ry box Replace O-rings			
Battery box	Check condition of wires, battery clip present?	R714		
Battery box	Replace 9V battery			
Shearwater controller	Replace Battery	R438		
Shearwater controller	check functionality, upgrade to latest software			
Molex conn	check condition repair, replace if needed			
rMS	check functionality			
General	current measurement, see tabel			
Remarks:				



9. End checks after service

Date Endcheck	Customers name	Ship to	Fr_16 doc datum 01/06/2018
???????	?????????		
Work Done:			Service by:
			date:
			signature:
			checked by:
			date:
			signature:
	++		
Checks Internal	Checks Breathing hose		Serial nrs:
wing inflator function?	Bytepiece + strap?		
wing leak free?	Stereo check?		Unit Serial nr:
	Barrel drain groove?		Shearw. Predator
OPV mbar @ max flow	? Groove=Exhale?		Shearw.PETREL:
POS, 1mbar/min?	leaktest?		Shearw.NERD:
and the second second second			Battery Box:
NEG 40mbar, 1mbar/m	in?		Sol B (rMS):
	The same property of the same		O2 B (rMS):
IP dil 8-9 bar?	Electronics		Probe 1 (rMS):
IP Oxy?	rEvodream battery?		Probe 2 (rMS):
CMF I/min?	molex conn?		rEvodream 1:
A CHERTICAL TOTAL	calibrated both inputs?		rEvodream 2:
Leak test	HUD, LED's?		rEvodream 1:
CMF plug removed?			rEvodream 2:
	Shearwater	 	++
	current measurement?		<u> </u>
	molex conn?		
	calibrated?		rEvo REBREATHERS
	firmware?		0500507//506
			REBREATHERS

10. Unit Serial nr:



