

Ac Works nr:		Cavalon 915is Series Periodic Service Worksheet	Ac Registration:
Service interval:	Worksheet no. (if required/used):		Date:

This worksheet lists the tasks to be completed/applied after the first 25/100 and subsequently every 100 hrs, or annually, whichever is appropriate.

All work is to be carried out in line with the latest Maintenance Manual Cavalon available on the AutoGyro website.

Most of the checks and serviceability are 'on condition', meaning that the Engineer has the responsibility to decide if it is acceptable for service.

All torque figures are standard torques for the screw/bolt size if not stated in the instruction.

Task Description	25h	100h /1 Yr	Other	AMM Chapter/Job Card/SB/SIL Reference	Entry Nr in Work Report	Initials
Aircraft Preparation						
1	If necessary, carry out an acceptance check flight of the aircraft					
2	Clean aircraft. Remove dirt, dust, leaked fluids and loose items	X	X			
3	Identify all relevant - Airworthiness Directives (AD) - Service Bulletins (SB) for airframe (AutoGyro) and power plant (ROTAX) and approved items such as radio and transponder	X	X			
4	Examine historical / Maintenance Records and Log Book. Identify: -Life Limited Items (LLI) -Due dates for replacements, overhauls and special activities -Reported problems	X	X			
5	Note / check all - Serial Numbers - Manufacturer Life Limits (MLL/SLL) - Inspection/Overhaul Time Limits (TBO) according to Life Limited Parts and Maintenance Log (AG-F-ECL-CV), respectively Inspection Protocol Cover Sheet (AG-F-PCS).	X	X			
6	Remove and inspect all service covers/maintenance access covers/mast & engine cowlings and keel tube cover	X	X		52-00-00 4-1	
7	Remove centre console and heater lever (if fitted) retaining screws and slide out the centre console	X	X		67-10-00 4-1	
Rotor System						
8	Inspect teeter angle	X	X	14° +/-1°		
9	Remove rotor	X	X		62-11-00 4-1	
10	Inspect rotor	X	X		62-11-00 6-1 SIL-2019-03-B	
11	Rotor system II (8.4m & 8.8m) or (8.4m & 8.6m TOPP). Disassemble rotor and inspect			500hrs/ 2yr. After 1500hrs in service, the inspection interval is reduced to 100hrs or 2 years. Recommended 1yr in corrosive environments	62-11-00 4-2 62-11-00 6-2 SB-2021-05-A	
12	Re-assemble rotor	X	X		62-11-00 4-3	
13	Check-torque the blade to hub bar bolts/nuts	X	X	20Nm +/-5Nm	62-11-00 4-3	
14	Inspect the rotor hub bolts			200hrs/ 2yr	62-11-00 6-3	
Nose Gear						
15	Inspect nose wheel general condition, correct pressure, condition of tread, correct seating of valve/cap, secure installation and no play in wheel bearing. Inspect wheel bearing for smooth operation	X	X	1.5 – 1.8 Bar Recommend 0.5mm min tread		

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16	Inspect nose wheel spat general condition, security, clearance to tyre and no damage (if fitted)	X	X				
17	Inspect nose wheel fork general condition, secure installation, freedom of movement, no excessive play, distortion or damage	X	X		SIL-2020-02		
18	Inspect nose wheel rubber damper general condition and correct operation	X	X		32-20-00 8-1		
Cockpit							
19	Inspect wiring and pitot/static lines general condition, correct attachment, absence of chafing, tears cracks, hardening, kinks or sharp changes of direction	X	X				
20	Replace or dry compressor humidity filter as appropriate for environmental conditions		X		36-21-00 8-1		
21	Carry out a full functional check of the pneumatic system. Ensure pneumatic system holds pressure in accordance with the limits laid down in the maintenance manual with the selector in both brake and flight positions		X	0.5 bar/hr maximal loss			
22	Check security of instrument panels & instruments/switches etc. in their cockpit mountings. Check presence/security of battery backup switch safety cover	X	X				
23	Check heating control (if installed) for correct operation and freedom of movement	X	X				
24	Carry out a functional check of main and backup fuel pump(s) if fitted	X	X				
25	Carry out a functional check of strobes if fitted	X	X				
26	Carry out a functional check of nav lights if fitted	X	X				
27	Carry out a functional check of landing lights if fitted	X	X				
28	Carry out a functional check of Air Speed Indicator		X				
29	Ensure altimeter is calibrated to QNH/ambient pressure		X				
30	Ensure compass is correctly calibrated (Refer to manufacturer's instructions)		X				
31	Ensure correct function of digital altimeter and air speed indicators if fitted, iaw Operating Manual. Ensure the instrument backup battery operates for a minimum of 30 mins Recharge the internal battery	X	X				
32	Ensure all glass cockpit instrument ranges compare with those in the TADS, if fitted		X		SIL-2021-04		
Rudder Control Run							
33	Inspect the setup of rudder and pedals. NOTE: Dimensions stated are nominal dimensions, dependant on tail plane settings these may vary by up to 50mm as stated.		X	Left 900mm +/- 25mm Right 840mm +/- 25mm	27-20-00 5-1		
34	Inspect pedals for freedom of movement. Lubricate pedal bearing and sliding block with AG-LUB-01 (Ballistol) Ensure the pedal adjuster cable is secure in the knob.	X	X				
35	Inspect all nose wheel/rudder forward control fittings general condition, security, freedom of movement, no damage, fraying or chafing along cable runs.	X	X				

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36	Check tension of nose wheel control cable (between central control link and nose wheel yoke). Inspect security of turnbuckles. Inspect condition of cable plastic fairleads	X	X				
37	Inspect all cable fork attachments (clevis) at central control link for security, freedom of movement, no chafing. Inspect central control link for freedom of movement, security of pivot bolt nut (visible from under rubber grommet, lower fuselage)	X	X				
38	Inspect upper rudder attachment point bush for freedom of movement in the attachment plate. Inspect all rudder attachments for security freedom of movement, no excessive play	X	X	0.2mm			
39	Inspect rudder control cable connections general condition, correct operation, secure installation. Lubricate with AG-LUB-01 (Ballistol)	X	X				
40	Inspect stabilizer mounting lugs on keel tube, no deformation or cracks at welds	X	X				
41	Inspect stabilizer security to airframe bolt torque	X	X	20Nm +/-5Nm			
42	Inspect stabilizer and rudder for signs of composite damage, particularly at joints and welds. Ensure drain holes are free	X	X				
43	Inspect presence & security of rudder trim tab	X	X				
Flight Control							
44	Inspect push pull cables for correct and secure installation, no play, no chafing, no cracks or splits visible at the end-fittings. Inspect security of PPC clamps	X	X	Max play 5mm	67-00-00 6-1 67-00-00 8-1		
45	Inspect left and right flight control stick general condition, freedom and full range of movement, secure installation, cable routing, no damage or chafing.	X	X				
46	Check adjustment of roll control travel limiters	X	X	2mm	27-10-00 5-1		
47	Inspect flight control yoke general condition, freedom of movement, secure installation, damage or deformation, no chafing. Lubricate bearings and ball joints with AG-LUB-01 (Ballistol)	X	X				
Airframe/Fuselage							
48	Inspect left and right seats and hinges general condition, secure installation, no damage	X	X				
49	Inspect all left and right seatbelt mounting points for tightness and security	X	X				
50	Inspect left and right seatbelts for damage or frays and security of buckles		X				
51	Inspect left and right backrest adjustment function, retaining mechanism and secure installation	X	X				
52	Inspect intercom panel for security, damage	X	X				
53	Inspect headset holder for security, damage	X	X				
54	Inspect left and right doors general condition, function, condition of seal, no damage or cracks	X	X				
55	Inspect left and right door hinges general condition, secure installation, freedom of movement, no cracks	X	X				
56	Inspect left and right door latches for correct operation, secure installation, wear marks or spurs.	X	X				

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57	Inspect left and right door windows general condition, correct operation, no cracks or missing parts. Lubricate sliding window channels with AG-LUB-04 silicone spray	X	X				
58	Ensure slip indicator is present and intact	X	X				
59	Inspect fuselage general condition, no cracks, damage or deformation	X	X				
60	Inspect cabin ventilation sliding cover assembly for security, correct operation. Ensure port under body is free from obstruction	X	X				
61	Inspect all antenna and antenna mountings for security, no damage	X	X				
62	Inspect keel tube and keel tube to fuselage connection general condition, secure installation, no cracks or deformation/twisting	X	X				
63	Inspect keel tube protection pads condition and attachment.	X	X		55-00-00 8-1		
64	Inspect mast upper rubber bush for failure or free play, wear or damage by rocking laterally and longitudinally. There should be no lateral play and a maximal longitudinal play as stated in the job card. Record longitudinal movement on Work Report		X		62-51-00 6-1		
65	Remove mast assembly, visually inspect mast mounting bushes, re-assemble mast assembly			200hr	62-51-00 4-1		
66	Inspect mast assembly for security, no deformation, no cracks (especially at welds).		X				
67	Check torque mast securing bolts. If movement is present, remove, re-apply Loctite and re-torque		X	20Nm			
68	Inspect all placards/stickers readable and in line with operating limitations		X	Pilots Handbook or TADS			
Pitot-Static/Pneumatic System							
69	Inspect pitot/ram air tube general condition, secure installation, no obstructions	X	X				
70	Inspect static ports general condition, secure installation, no obstructions, no leaks. Clean and dry static lines as required	X	X		34-10-00 7-1 34-10-00 5-1		
71	Inspect all pneumatic lines and connectors in the fuselage and engine compartment, no chafing, sharp bends or kinks	X	X				
72	Inspect pneumatic box and compressor for security, no chafing or damage	X	X				
Main Gear and Brakes							
73	Inspect suspension bow and attachments to airframe and axles for damage or fatigue (cracks & deformation).	X	X				
74	Inspect main wheels general condition, correct pressure, condition of tread, correct seating of valve and cap, secure installation and no play in wheel bearing. Inspect wheel bearing for smooth operation. Ensure slip mark is present and aligned	X	X	2.0 – 2.2 Bar Recommended 0.5mm min tread			
75	Inspect wheel spats for clearance to tyre, secure installation and general condition, no cracking	X	X				
76	Inspect brake lines for secure installation, no leaks, no chafing	X	X				

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77	Inspect wheel callipers for secure installation and freedom of operation, no leaks	X	X				
78	Inspect brake pads for wear (wear mark/groove must be visible) and condition		X		32-40-00 8-2		
79	Inspect brake disc condition. Check-torque 4 x attachment screws		X				
80	Inspect the centre console throttle/brake unit for correct operation, secure installation, condition of ratchet teeth, brake fluid level, no leaks. Replenish fluid (DOT4) as required		X		76-10-00 8-1		
Pre-rotator							
81	Check the pneumatic clutch for correct operation, secure installation, pneumatic connections, no wear or chafing.		X	63-11-10 6-1 'Procedures' item 2: 0.5-1.0mm	63-11-10 6-1 SIL-2021-02		
82	Check front dog gear (clutch side) and rear dog gear (engine side) general condition, no cracks		X		63-11-10 6-1		
83	Connect a manometer to the clutch pneumatic line using a T-connector and check time to pressurise. In the event of discrepancies contact AutoGyro Technical Support	X	X	0-8 bar in 5-10 sec			
84	Inspect pre-rotator drive shafts with sliding shaft coupling for general condition, secure installation, no cracks (especially at the welded flanges) and free to slide. Lubricate sliding shaft coupling*	X	X	*Liquid Moly LM 47 MoS2 (45506)			
85	Inspect angle gearbox general condition, secure installation, no cracks, smooth running, no leaks	X	X				
86	Inspect pre-rotator upper engagement. Inspect backlash. Lubricate Bendix shaft helix with AG-LUB-01 (Ballistol) or equivalent. Grease crown gear teeth lightly with AG-GRS-01 (WHS 2002)		X		63-11-30 6-1		
87	Protect steel parts with AG-CPS-01 chain wax, cavity spray or equivalent		X				
Rotor Head							
88	Inspect brake/trim cylinder for correct attachment, security, no damage		X				
89	Inspect roll trim cylinder for correct attachment, security, no damage		X				
90	Inspect all pneumatic hoses at the rotor head general condition, security, no chafing, brittleness, sharp bends or kinks	X	X				
91	Renew teeter tower/bearing assembly			1500hr	62-20-00 8-1 SIL-2018-02-C		
92	Inspect rear trim spring for correct attachment, security, no damage or cracks. Check for presence and security/condition of rubber retaining strap		X				
93	Inspect rotor head bridge for deformation, damage and cracks. Inspect side plates & roll attachment bracket for deformation, damage and cracks. Carry out a torque check of the main bolt. Refit split pin		X	Minimum 120Nm Maximum 160Nm	62-31-00 6-1		

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94	On rotorhead III – if fitted - individually remove the two rotor head bridge to gimbal side plate assembly bolts and inspect for corrosion. Replace if required. Apply grease AG-GRS-01 (WHS2002) to the bolt shanks during re-assembly		X	28Nm Every 2 years or 200 hrs, whichever is first			
95	Inspect rotor head gimbal for correct operation and secure installation of all attached parts. Record controlled angles on Work Report. Lube AG-GRS-01 (WHS2002)		X	Fwd: -4° Rear: 20.5° Right: 7.5° Left: 8.75°	62-32-00 6-1		
96	Measure breakout force at forward control stick grip. Adjust as required.			200hr 15N max. No stick-slip permitted	62-32-00 5-1		
97	Inspect three split pins present and secure	X	X				
98	Inspect forward & rear rotor brake pads for function & wear		X				
99	Protect steel parts with AG-CPS-01 chain wax, cavity spray or equivalent		X				
Fuel System							
100	Inspect fuel tanks (from under drain cover) for security, no leaks or traces of leaks, swelling (hoses) or smell of fuel.		X				
101	Inspect fuel level indication and compare with fuel gauge		X				
102	Inspect tank interior for foreign debris. Remove if found	X	X				
103	Inspect functionality of low-level warning light if fitted		X				
104	Inspect fuel venting lines condition and routing	X	X				
105	Inspect fuel water contamination drain, no leaks		X				
106	Inspect fuel tank cap for seal deterioration, function & security of fit		X				
107	Inspect all pipes & hoses of the fuel system for secure installation, no cracks, chafing, kinks or sharp direction changes, deterioration or hardening.		X		SIL-2021-03 SB-2021-02-B		
108	Replace Rotax fuel filter.			Recommend 100hr/1 yr	SIL-2018-02-C		
109	Remove, inspect and clean gascolater (fuel water filter) internal filter. Replace if necessary	X	X				
110	Inspect the fuel shut-off valve correct operation, secure installation, presence and condition of safe-guard		X				
Oil System							
111	Inspect left & right-side oil coolers general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins		X				
112	Inspect all hoses and pipes of the oil system for secure installation, no leaks, chafing, tears/cracks, hardening, kinks or sharp direction changes. Inspect firm seating of hoses on the fittings.		X		SIL-2021-03		
113	Inspect thermostat assembly for secure attachment, no cracks, leaks or porous hoses		X				

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Coolant System							
114	Inspect all hoses and pipes of the coolant system for secure installation, no leaks, chafing, tears/cracks, hardening, kinks or sharp direction changes. Inspect firm seating of hoses on the fittings.		X		SIL-2021-03		
115	Inspect radiator general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins		X				
116	Inspect the radiator fan for correct operation, no damage of fan cage and blades	X	X				
117	Inspect presence/condition of heat protection on all coolant return hoses		X				
118	Inspect coolant overflow tank for correct coolant level (double rings on the Fuel and Engine Coolant Dipstick), secure installation, no chafing	X	X				
119	Inspect for secure attachment of water expansion tank, no leaks, damage or chafing Inspect coolant level.		X				
Propeller							
120	HTC: Inspect propeller blades for cracks, delamination or impact damage	X	X				
121	HTC: Remove and inspect spinner (if fitted), inspect spinner mounting plate general condition, secure installation, no cracks.	X	X		61-10-00 4-1		
122	HTC: Perform a visual inspection of the hub. Ensure safety paint on head of bolt to hub is not broken (if applied). Check torque flange bolts and re-apply paint if required	X	X	15Nm			
123	HTC: Inspect leading edge protective tape (if fitted) for air bubbles, lifted edges or deterioration	X	X				
124	HTC: Ensure all blades have the same pitch		X	AG propeller pitch gauge (30492)	61-10-00 5-1		
125	Woodcomp: Check torque flange nuts	X	X	22Nm	TN-31_0 EN		
126	Woodcomp: Carry out a 100hr inspection in accordance with manufactures maintenance manual		X	At 100 propeller hrs	TN-31_0 EN		
127	Inspect propeller to frame clearance	X	X	10cm minimum			
128	Refit spinner (if applicable) using AG-BAS-02 Loctite 243	X	X				
Engine and Accessories							
NOTE: All engine checks to be carried out in accordance with manufacturer's instructions. Include supplementary procedures below.							
129	Inspect starter battery for security, deformation, cracks, chafing leaks, oxidization, pole cover, Charge state/condition.		X				
130	Inspect turbo intercooler general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins		X				
131	Inspect clearance between intercooler tube and pre-rotator shaft. Ensure no contact/chafing		X	5mm minimum			
132	Inspect the engine mounting frame general condition, no cracks or distortion. Check torque attachment bolts, frame to bulkhead	X	X		SB-2019-04-A		
133	Inspect the engine mounting bushes for secure installation and condition of rubber		X		SIL-2018-02-C		

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134	Inspect the engine mounting ring frame for secure installation, no chafing, distortion, cracks or missing paint. Check torque 4 ring mount to engine securing bolts		X	40Nm			
135	Inspect rectifier-regulators general condition, secure installation, no chafing		X				
136	Inspect exhaust system general condition, secure installation, no leaks, cracks.		X				
137	Inspect the silencer for secure installation of clamps, rivets and lock wire. Ensure lock wire passes through clamp screw housing and slot in screw head		X				
138	Ensure wire locking is present on: Oil tank drain plug Oil pump Magnetic plug (after the first 100hr service)	X	X				
139	Ensure throttle lever moves freely from stop to stop. Lube lever joint AG-LUB-01 (Ballistol)	X	X				
140	Supplementary procedure: Oil change: On draining all oil, ensure it is run through a 190 micron filter paper, attach photo of findings to this protocol		X				
141	Supplementary procedure: Inspection of magnetic plug: Attach a photo of the magnetic plug before cleaning, to this protocol		X				
142	Supplementary procedure: Inspection of oil filter: Attach a photo of the paper mesh from the cut open filter to this protocol		X				
143	Supplementary procedure: Refilling of oil: Record type of oil used to refill in the Work Report		X				
Finalization Work							
144	Assemble the rotor system on the aircraft. Lube teeter assembly through grease nipple with AG-GRS-01 (WHS 2002)	X	X		62-11-00 4-4		
145	Carry out a tool and loose article check	X	X				
146	Ensure all service covers, cowlings and keel tube cover are re-installed	X	X		52-00-00 4-1 52-40-00 0-1		
147	Securely tie down the aircraft and carry out a ground run	X	X		MM 05-60-00 AG-F-PGR- Generic		
148	Re-install centre console	X	X		67-10-00 4-1		
149	Carry out a test flight if required	X	X				
150	Ensure all logbook entries are completed appropriately, and service record updated	X	X				
151	Carry out any other documentation requirements by the countries Airworthiness Administration	X	X				

