

Cavalon Periodic Service Worksheet



Change: Republished and refreshed in line with service experience

Rev: 000

| Revision | Date | Reason | Page | Point |
|----------|------|--------|------|-------|
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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.

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|-----------------------------|--|-----|---------------|---------------------------|--|--------------------------------------|----------|
| 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 Logbook. Identify: -Life Limited Items (LLI) -Due dates for replacements, overhauls and special activities -Reported problems | X | X | | | | |
| 5 | Note / check all - Serial Numbers against logbooks/ records - Manufacturer Life Limits (MLL/SLL) - Inspection/Overhaul Time Limits (TBO) according to Life Limited Parts and Maintenance Log, and Inspection Protocol Cover Sheet | X | X | | Insp.- protocol coversheet | | |
| 6 | Remove and inspect all service covers/maintenance access covers/mast & engine cowlings and keel tube cover | X | X | | 52-00-00 4-1 SB-2020-05-B | | |
| 7 | Remove center console and heater lever (if fitted) retaining screws and slide out the center console | X | X | | 67-10-00 4-1 | | |
| Rotor System | | | | | | | |
| 8 | Check flight hours on the rotor system, change if limit is reached. | | X | Depending on rotor system | SIL-2018-02-C SB-2021-05-A | | |
| 9 | Check teeter angle | | X | 14° +/-1° | 62-11-00 6-4 | _____° | |
| 10 | Remove rotor | | X | | 62-11-00 4-1 | | |

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| 11 | Inspect rotor. | X | X | | 62-11-00 6-1 SIL-2019-03-B | | |
| 12 | Rotor system II (8.4m & 8.8m) or (8.4m & 8.6m TOPP). Disassemble rotor and inspect | | | 500 hrs/ 2 years After 1500 hrs in service, the inspection interval is reduced to 100 hrs or 2 years. Recommended 1 year in corrosive environments | 62-11-00 4-2 62-11-00 6-2 SB-2021-05-A | | |
| 13 | Re-assemble rotor (if disassembled in serial 11) | | | | 62-11-00 4-3 | | |
| 14 | Check-torque the blade to hub bar bolts/nuts | X | X | 20Nm +/-5Nm | 62-11-00 4-3 | | |
| 15 | Inspect the eight rotor hub bolts. | | X | 200hrs/ 2 years | 62-11-00 6-3 | | |
| Nose Gear | | | | | | | |
| 16 | Inspect nose wheel general condition, correct pressure, and 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 recommended, 0.5mm min tread | | | |
| 17 | Inspect nose wheel spat (if fitted) general condition, security, clearance to tire and no damage | X | X | | | | |
| 18 | Inspect nose wheel fork general condition, secure installation, freedom of movement, no excessive play, distortion or damage. | X | X | | SIL-2020-02 | | |
| 19 | Inspect nose wheel rubber damper general condition and correct operation. | X | X | | 32-20-00 8-1 | | |
| Cockpit | | | | | | | |
| 20 | Inspect wiring and pitot/static lines general condition, correct attachment, absence of chafing, tears cracks, hardening, kinks or sharp changes of direction | X | X | | | | |
| 21 | Replace or dry compressor humidity filter as appropriate for environmental conditions. | | X | | 36-21-00 8-1 SB-2022-02-C | | |
| 22 | Check the pneumatic box or plate and compressor for secure fitting, chafing or damage. | X | X | | | | |
| 23 | 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 | | | |
| 24 | Check security of instrument panels & instruments/switches etc. in their cockpit mountings. | X | X | | | | |
| 25 | Check heating control (if installed) for correct operation and freedom of movement. | X | X | | | | |
| 26 | Carry out a functional check of main and backup fuel pump(s) if fitted. | X | X | | | | |
| 27 | Carry out a functional check of strobes if fitted. | X | X | | | | |
| 28 | Carry out a functional check of nav lights if fitted. | X | X | | | | |
| 29 | Carry out a functional check of landing lights if fitted | X | X | | | | |

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| 30 | Carry out a functional check of Air Speed Indicator | | X | | | | |
| 31 | Ensure altimeter is calibrated to QNH/ambient pressure | | X | | | | |
| 32 | Ensure compass is correctly calibrated (Refer to manufacturer's instructions) | | X | | | | |
| 33 | 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 | | SB-2018-01-B SIL-2018-01-B | | |
| 34 | Ensure all glass cockpit instrument ranges compare with those in the TADS, if fitted | | X | | SIL-2020-01 SIL-2021-04 | | |
| Rudder control run | | | | | | | |
| 35 | Inspect the setup of rudder and pedals. NOTE: Dimensions stated are nominal dimensions, dependent on tail plane settings these may vary by up to 50mm as stated. | | X | Right 845mm +/- 10mm | 27-20-00 5-1 | R. = _____ ° | |
| 36 | Inspect pedals for freedom of movement. Lubricate pedal bearing and sliding block with Ballistol (PN 31847 or 31816) Ensure the pedal adjuster cable is secure in the knob. | X | X | | | | |
| 37 | Inspect all nose wheel/rudder forward control fittings general condition, security, freedom of movement, no damage, fraying or chafing along cable runs. | X | X | | | | |
| 38 | 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 | | | | |
| 39 | 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 | 20-25 lbs | | | |
| 40 | 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 | | | |
| 41 | Inspect security of all rudder control run securing bolts and locknuts. Lubricate moving parts with Ballistol (PN 31847 or 31816) | X | X | | | | |
| 42 | Inspect stabilizer mounting lugs on keel tube, no deformation or cracks at welds. | X | X | | | | |
| 43 | Inspect stabilizer security to airframe bolt torque. | X | X | 20Nm +/-5Nm | | | |
| 44 | Inspect stabilizer and rudder for signs of composite damage, particularly at joints and welds. Ensure drain holes are free. | X | X | | | | |
| 45 | Inspect presence & security of rudder trim tab | X | X | | | | |

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| Flight Control | | | | | | | |
| 46 | 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 | | |
| 47 | 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 | | | | |
| 48 | Check adjustment of roll control travel limit stops | X | X | 2mm | 27-10-00 5-1 | | |
| 49 | Inspect flight control yoke general condition, freedom of movement, secure installation, damage or deformation, no chafing. Lubricate bearings and ball joints Ballistol (PN 31847 or 31816) | X | X | | | | |
| Airframe/ Fuselage | | | | | | | |
| 50 | Inspect left and right seats and hinges general condition, secure installation, no damage | X | X | | | | |
| 51 | Inspect all left and right seatbelt mounting points for tightness and security | X | X | | | | |
| 52 | Inspect left and right seatbelts for damage or frays and security of buckles | | X | | | | |
| 53 | Inspect left and right backrest adjustment function, retaining mechanism and secure installation | X | X | | | | |
| 54 | Inspect intercom panel for security, damage | X | X | | | | |
| 55 | Inspect headset holders for security, damage | X | X | | | | |
| 56 | Inspect left and right doors general condition, function, condition of seal, no damage or cracks | X | X | | | | |
| 57 | Inspect left and right door hinges general condition, secure installation, freedom of movement, no cracks | X | X | | | | |
| 58 | Inspect left and right door latches for correct operation, secure installation, wear marks or spurs. | X | X | | SIL-2024-03 | | |
| 59 | Inspect front windscreen and left and right door windows general condition, correct operation, no cracks or missing parts. Lubricate sliding window channels with silicone spray (PN 30490) | X | X | | SB-2022-08-C | | |
| 60 | Ensure slip indicator is present and intact | X | X | | | | |
| 61 | Inspect fuselage general condition, no cracks, damage or deformation | X | X | | | | |
| 62 | Inspect mounting of landing light (if installed) | X | x | | | | |
| 63 | Inspect cabin ventilation sliding cover assembly for security, correct operation. Ensure port under body is free from obstruction | X | X | | | | |
| 64 | Inspect all antenna and antenna mountings for security, no damage | X | X | | | | |
| 65 | Inspect keel tube and keel tube to fuselage connection general condition, secure installation, no cracks or deformation/twisting | X | X | | | | |
| 66 | Inspect keel tube protection pads condition and attachment. | X | X | | 55-00-00 8-1 | | |

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| 67 | Inspect mast rubber bushes for failure or free play, wear or damage. Inspect rubber mounting bush movement. In addition to the inspection in fwd and aft direction perform this check in a sideways movement test with the same force and ensure no free movement. Sideways movement indicates loose bushings in the mast. | | X | Max 6mm fwd and aft, No free movement sideways. | 62-51-00 6-1 SIL-2024-01 | Ffd:____ Aft:____ | |
| 68 | Remove mast assembly, visually inspect mast mounting bushes, replace bushings if necessary, re-assemble mast assembly | | | If excessive movement is found | 62-51-00 4-1 SIL-2018-06-B | | |
| 69 | Inspect mast assembly for security, no deformation, no cracks (especially at welds). | | X | | | | |
| 70 | Check torque mast securing bolts. If movement is present, remove, re-apply Loctite 243 and re-torque | | X | 20Nm | | | |
| 71 | Inspect all placards/stickers readable and in line with operating limitations | | X | Pilots Handbook or TADS | | | |
| Pitot-Static System | | | | | | | |
| 72 | Inspect pitot/ram air tube general condition, secure installation, no obstructions | X | X | | | | |
| 73 | Inspect static ports general condition, secure installation, no obstructions, no leaks. Clean and dry static lines as required. | X | X | | 34-10-00 5-1 34-10-00 7-1 | | |
| 74 | Inspect all pneumatic lines and connectors in the fuselage and engine compartment, no chafing, sharp bends or kinks | X | X | | | | |
| Main Gear and Brakes | | | | | | | |
| 75 | Inspect suspension bow and attachments to airframe and axles for damage or fatigue (cracks & deformation). | X | X | | | | |
| 76 | Torque check of the four bolts holding the suspension bow to the frame | X | | Initially after 25h, than after every 200 hours M8 with 25Nm, M10 with 35Nm | | | |
| 77 | 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 | | | |
| 78 | Inspect wheel spats for clearance to tire, secure installation and general condition, no cracking. | X | X | | | | |
| 79 | Inspect brake lines for secure installation, no leaks, no chafing. | X | X | | | | |
| 80 | Inspect wheel calipers for secure installation and freedom of operation, no leaks. | X | X | | SB-2022-10-C | | |
| 81 | Inspect brake pads for wear (wear mark/groove must be visible) and condition. | | X | | 32-40-00 8-2 | | |

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| 82 | Check the condition and wear of the brake discs and if the four attachment screws are tightened correctly. | | X | | | | |
| 83 | Inspect the center console throttle/brake unit for correct operation, secure installation, condition of ratchet teeth, brake fluid level, no leaks. Replenish fluid (DOT4) as required. | | X | | | | |
| Pre-rotator | | | | | | | |
| 84 | Check the pneumatic clutch for correct operation, secure installation, pneumatic connections, no wear or chafing. Adjust if necessary. | | X | 0.5-1.0mm clearance between friction and drive plates for pn-coupling II and 1.0 -1.5mm for coupling III and IV | (63-11-10 5-1 Rotor head II clutch only) 63-11-10 6-1 SB-2018-05-B SIL-2021-02 SIL-2023-02 | | |
| 85 | Check front dog gear (clutch side) and rear dog gear (engine side) general condition, no cracks | | X | | 63-11-10 6-1 | | |
| 86 | Connect a manometer to the clutch pneumatic pressure regulator and check time to pressurize. In the event of discrepancies contact AutoGyro Technical Support. | X | X | RH II 0-5 bar In 5 - 10 sec RH III 0-full system pressure in 5- 10 sec | | | |
| 87 | 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 with Liquid Moly LM 47 (PN 45506). | X | X | | | | |
| 88 | Inspect angle gearbox general condition, secure installation, no cracks, smooth running, no leaks | X | X | | | | |
| 89 | Inspect pre-rotator upper engagement. Inspect backlash. Lubricate Bendix shaft helix with Ballistol (PN 31847 or 31816) or equivalent. | | X | | 63-11-30 6-1 | | |
| 90 | Protect steel parts with cavity spray (PN 34197) or equivalent | | X | | | | |
| Rotor Head | | | | | | | |
| 91 | Check flight hours on the main bearing and replace if life limit is reached. | | X | 1500 hrs for 560kg MTOW | 62-20-00 8-1 SIL-2018-02-C SB-2024-06-B | | |
| 92 | Inspect brake/trim cylinder for correct attachment, security, no damage. | | X | | | | |
| 93 | Inspect roll trim cylinder for correct attachment, security, no damage. | | X | | | | |
| 94 | Inspect all pneumatic hoses at the rotor head general condition, security, no chafing, brittleness, sharp bends or kinks | X | X | | | | |
| 95 | Rotor head III: Inspect rear trim spring (if installed) for correct attachment, security, no damage or cracks. Check for presence and security/condition of rubber retaining strap | | X | | | | |

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| 96 | Rotor head II: Inspect rotor head bridge for damage, deformation, and cracks, especially at welds. Rotor head III: Inspect side plates & roll attachment bracket for deformation, damage and cracks. Inspect aluminum bridge for damage, cracking or deformation. Both Rotor heads: Carry out a torque check of the main bolt. Refit split pin. | | X | 200hrs Minimum 120Nm Maximum 160Nm | 62-31-00 6-1 SB-2022-09-B SB-2024-03-B | | |
| 97 | Rotor head III: Individually remove the two rotor head bridge to gimbal side plate assembly bolts and inspect for corrosion. Replace if required. Apply grease Lagermeister WHS2002 (PN 30477) to the bolt shanks during re-assembly. | | | 28Nm Every 2 years or 200 hrs, whichever is first | | | |
| 98 | Rotor head III: Check the torque of the four screws which held the prerotor assembly and the bendix in place on the rotor head. | | X | 12Nm | | | |
| 99 | Inspect rotor head gimbal for correct operation and secure installation of all attached parts. Lube Lagermeister WHS2002 (PN 30477). | | X | Fwd: -4° +/-1° Rear: 20° +/-1° Right: 7° +/-1° Left: 9° +/-1° | 62-32-00 6-1 | Fwd ___ ° Aft ___ ° R ___ ° L ___ ° | |
| 100 | Only Gimbal II (rotor head II with conical washers) & Gimbal III (rotor head III): Measure breakout force at forward control stick grip. Adjust as required. | | | 200 hrs 15N max. No stick-slip permitted | 62-32-00 5-1 | | |
| 101 | Inspect three split pins present and secure | X | X | | | | |
| 102 | Inspect rotor brake pad(s) for function & wear (also forward pad for rotor head III). | | X | | | | |
| 103 | Protect steel parts with cavity spray (PN 34197) or equivalent. | | X | | | | |
| 104 | Lubricate rotor sprocket with Lagermeister WHS2002 (PN 30477). | X | X | | | | |
| Fuel System | | | | | | | |
| 105 | Inspect fuel tanks (from under drain cover) for security, no leaks or traces of leaks, swelling hoses or smell of fuel. Check the fuel level indicator (dipstick) and compare with the fuel gauge. | | X | | | | |
| 106 | Inspect tank interior for foreign debris. Remove if found | X | X | | | | |
| 107 | Inspect functionality of low-level warning light if fitted. | | X | | | | |
| 108 | Inspect fuel venting lines condition and routing. | X | X | | | | |
| 109 | Inspect fuel water contamination drains have no leaks. | | X | | | | |
| 110 | Inspect fuel tank cap for seal deterioration, function & security of fit. | | X | | SB-2016-06-B | | |
| 111 | Inspect all pipes & hoses of the fuel system for secure installation, presence of fire protective sleeve (if fitted), no cracks, chafing, kinks or sharp direction changes, deterioration or hardening | | X | | SIL-2021-03 | | |

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| 112 | 912/914: Replace nylon & KL145 fuel filter (where fitted) if contaminated. Replace as pair. 915iS/916iS: Replace Rotax fuel filter Inspect fuel filter gauze in Gascolater. Clean or replace gauze if contaminated. If the gauze or filter is contaminated can be judged by whether the system fuel pressure is still within limits | | X | Recommended 500 hrs/3 years or on condition – valid for Nylon filter and KL 145, For 915iS and 916iS: replace Rotax fuel filter after 100h since new and afterwards every 200h | 28-20-00 6-1 28-20-00 8-1 SIL-2018-02-C | | |
| 113 | 912/914: Inspect and clean electric fuel pump internal filter(s) if fitted | | X | | 28-20-00 6-1 | | |
| 114 | Inspect the fuel shut-off valve correct operation, secure installation, presence and condition of safe-guard | | X | | SB-2024-05-B | | |
| Oil System | | | | | | | |
| 115 | Inspect oil cooler general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins. | | X | | | | |
| 116 | Inspect all hoses and pipes of the oil system for secure installation, no leaks, chafing, tears/cracks, hardening, kinks or sharp direction changes. On later Cavalon the rubber hoses have been replaced by steel braided hoses. Inspect firm seating of hoses on the fittings. | | X | | SIL-2021-03 SB-2021-02-B | | |
| 117 | Inspect thermostat assembly for secure attachment, no cracks, leaks or porous hoses. On later Cavalon the rubber hoses have been replaced by steel braided hoses. | | X | | SB-2020-02-B SB-2021-03-C | | |
| Coolant System | | | | | | | |
| 118 | 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 | | |
| 119 | Inspect radiator general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins. | | X | | | | |
| 120 | Inspect the radiator fan for correct operation, no damage of fan cage and blades. | X | X | | | | |
| 121 | Inspect presence/condition of heat protection on coolant hose from cylinder 2. | | X | | | | |
| 122 | Inspect coolant overflow tank for correct coolant level (double rings on the Fuel and Engine Coolant Dipstick), secure installation, no chafing. | X | X | | | | |
| 123 | Inspect for secure attachment of thermostat, presence of earth cable, no leaks, damage or chafing. | | X | | | | |
| Propeller | | | | | | | |
| 124 | Remove and inspect spinner (if fitted), inspect spinner mounting plate general condition, secure installation, no cracks. | X | X | | 61-10-00 4-1 | | |

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| 125 | Inspect propeller blades for cracks, delamination or impact damage | X | X | | | | |
| 126 | Inspect propeller to frame clearance | X | X | 10cm minimum | | | |
| 127 | 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 | | | |
| 128 | HTC: Inspect leading edge protective tape (if fitted) for air bubbles, lifted edges or deterioration | X | X | | | | |
| 129 | HTC: Ensure all blades have the same pitch to within 0.5deg | | X | AG propeller pitch gauge (30492) | 61-10-00 5-1 | | |
| 130 | IVO: Inspect blades for loose pitch lever (tap test), condition of contact plate brushes and tension strips between blades if fitted. Check torque flange bolts (912/914 engines only) | X | X | 40Nm | RSUK0325 RotorSport IVO-prop manual. | | |
| 131 | IVO: Inspect leading edge protective tape (if fitted) for air bubbles, lifted edges or deterioration, repair as per manufacturers manual. | X | X | | | | |
| 132 | IVO: Inspect cable routing, ensure secure attachment. (912/914 engines only). | | X | | | | |
| 133 | IVO: Check the functionality of the prop blade movement to full coarse and full fine. | X | X | | SB-2017-05-B SB-2018-07-B SIL-2018-04-B SB-2021-08-B | | |
| 134 | Woodcomp: Check torque flange nuts | X | X | 22Nm for 915iS 43Nm for 916iS | TN-30 | | |
| 135 | Woodcomp: Carry out inspections according to Woodcomp manual | | | According to manufacturer | TN-30 TN-21 SIL-2020-03 | | |
| 136 | Refit spinner (if applicable) using Loctite 243 (PN 30483) on the attachment screws. | X | X | | | | |
| Engine and Accessories | | | | | | | |
| NOTE: All engine checks to be carried out in accordance with manufacturer's instructions. Include supplementary procedures below. | | | | | | | |
| 137 | Inspect starter battery for security, deformation, cracks, chafing leaks, oxidization, pole cover, Charge state/condition. | | X | | SB-2018-06-B | | |
| 138 | Inspect turbo intercooler general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins | | X | | | | |
| 139 | 915iS/916iS: Inspect clearance between intercooler tube and prerotator shaft. Ensure no contact/chafing | X | X | 5mm minimum | | | |
| 140 | Inspect the engine mounting frame general condition, no cracks or distortion | | X | | SB-2019-04-A | | |
| 141 | Inspect the engine mounting bushes for secure installation and condition of rubber | | X | | SIL-2018-02-C SIL-2021-05 | | |
| 142 | Inspect the engine mounting ring frame for secure installation, no chafing, distortion, cracks or missing paint. Check torque four ring mount to engine securing bolts. | X | X | 40Nm, Lower left nut in direction of flight: 56 Nm if Nord-Lock washer is installed and nut is welded on the bracket | SB-2021-01-B SB-2023-04-B | | |

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| 143 | Inspect engine support arm (if installed) for secure installation, damages and condition of rubber bushing. Change rubber if required. | | X | | | | |
| 144 | 915iS/916iS: If installed check condition of additional heat protection of lower ignition cables | | X | | SB-2024-02-B | | |
| 145 | Inspect rectifier-regulator general condition, secure installation, no chafing of wiring, ground (L-) connectors not corroded or molten, connector tightness. | | X | | | | |
| 146 | 912/914: Inspect exhaust system general condition, secure installation, no leaks, cracks (tap test) or loose rivets. Inspect presence and condition of retaining springs and safety cable. Ensure the sliding joint is free to move at exhaust manifold from cylinder 1. Lube with aluminum anti seize spray (PN 31590) 915iS: exhaust system manufactured by Rotax, only 90°welding has to be inspected 916iS: exhaust system manufactured by Rotax | | X | | SIL-2018-05-C SB-2023-02-B SIL-2025-01 | | |
| 147 | 912/914: Inspect the aftermuffler for secure installation of clamps, rivets and lock wire. Ensure lock wire passes through clamp screw housing and slot in screw head 915iS/916iS: n.a. | | X | | | | |
| 148 | Ensure wire locking is present on: - Oil tank drain plug - Oil sump drain plug - Oil pump - Magnetic plug (after the first 100hr service). | X | X | | | | |
| 149 | 912/914: Ensure choke and throttle lever moves freely from stop to stop, and that turbo detent can be positively felt. Ensure cables are mechanically synchronized. Lube lever joints with Ballistol (PN 31847 or 31816). 915iS/916iS: Ensure throttle lever moves freely from stop to stop. Lube lever joints with Ballistol (PN 31847 or 31816). | X | X | | | | |
| 150 | 914: Inspect clearance between airbox (if fitted) and engine mounting frame | X | X | | | | |
| 151 | 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 | | | | |
| 152 | Supplementary procedure: Inspection of magnetic plug: Attach a photo of the magnetic plug before cleaning to this protocol. | | X | | | | |
| 153 | Supplementary procedure: Inspection of oil filter: Attach a photo of the paper mesh from the cut open filter to this protocol. | | X | | | | |
| 154 | Supplementary procedure: Refilling of oil: Record type of oil used to refill in the Work Report. | | X | | | | |

Cavalon Periodic Service Worksheet



Change: Republished and refreshed in line with service experience

Rev: 000

| No | Task Description | 25h | 100h/ 1 Yr | Other | AMM Chapter/Job Card/SB/SIL Reference | Entry Number in Work Report | Initials |
|--------------------------|--|-----|---------------|-------|--|--------------------------------------|----------|
| Finalization Work | | | | | | | |
| 155 | Assemble the rotor system on the aircraft. Lube teeter assembly through grease nipple with Lagermeister WHS2002 (PN 30477) | X | X | | 62-11-00 4-4 SIL-2024-02 | | |
| 156 | Carry out a tool and loose article check. | X | X | | | | |
| 157 | Securely tie down the aircraft and carry out a ground run. | X | X | | Ground Run Protocol | | |
| 158 | Ensure all service covers, cowlings and keel tube cover are re-installed. | X | X | | 52-00-00 4-1 52-40-00 0-1 | | |
| 159 | Re-install center console. | X | X | | 67-10-00 4-1 | | |
| 160 | Carry out a test flight if required. | X | X | | Test Flight Report | | |
| 161 | Ensure all logbook entries are completed appropriately, and service record updated. | X | X | | | | |
| 162 | Carry out any other documentation requirements by the countries Airworthiness Administration. | X | X | | | | |

Cavalon Periodic Service Worksheet



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Tasks completed by (Name):

Engine hours logged:

Signature:

Initials:

Airframe hours logged:

Date:

The technical content of this document should be approved with the national Airworthiness Authority as required.

Maintenance Release: The work recorded above (all pages) has been completed to my satisfaction and in that respect the aircraft is considered fit for flight.

Comments:

Signature:

Initials:

Date:

Inspector or license number (if required):

Dated:

Cavalon Periodic Service Worksheet



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Rev: 000

List of SB and SIL mentioned in this protocol:

| | |
|------------------|---|
| AG-SB-2016-06-B | Cavalon Fuel Tank Inlay Ring |
| AG-SB-2017-05-B | IVO Prop Gearbox Overhaul |
| AG-SB-2018-01-B | Software Upgrade digital ASI and ALT |
| AG-SB-2018-05-B | Pneumatic Clutch III – Pressure Disc Inspection |
| AG-SB-2018-06-B | Super B Battery Replacement with SBS 8 Battery |
| AG-SB-2018-07-B | Ivoprop motor controller software update |
| AG-SB-2019-04-A | Engine Mounting Bolts – Out of Phase Check Torque |
| AG-SB-2020-02-B | Oil Thermostat Assembly Upgrade |
| AG-SB-2020-05-B | 915iS Heat Protection Lower Engine Cowling |
| AG-SB-2021-01-B | 915iS Lower Engine Mounting Nuts |
| AG-SB-2021-02-B | 915iS Oil Tank to Fuel Pump Clearance |
| AG-SB-2021-03-C | Oil Thermostat 92° Upgrade |
| AG-SB-2021-05-A | Rotor System Inspection & Life-Limit Amendment |
| AG-SB-2021-08-B | IVO Motor Replacement Part |
| AG-SB-2022-02-C | Dryer Replacement – Pneumatic System |
| AG-SB-2022-08-C | Window Strength Improvement |
| AG-SB-2022-09-B | Inspection of Rotor Head |
| AG-SB-2022-10-C | Replacement of O-Ring Brake Piston |
| AG-SB-2023-02-B | 915iS Replacement of Exhaust Manifold |
| AG-SB-2023-04-B | 915iS Torque Check LH Lower Engine Nut |
| AG-SB-2024-02-B | Retrofit Heat Protection Lower Ignition Cable |
| AG-SB-2024-03-B | Inspection and Replacement of Pitch and Roll Bolt |
| AG-SB-2024-05-B | Replacement Shut Off and Take Off |
| AG-SB-2024-06-B | Teeter Tower Main Bearing Replacement |
| AG-SIL-2018-01-B | Software Upgrade digital ASI and ALT |
| AG-SIL-2018-02-C | Life limited parts update |
| AG-SIL-2018-04-B | IVO Propeller – Lubrication of shaft |
| AG-SIL-2018-05-C | Alternative for Aluminium Anti Seize Spray |
| AG-SIL-2018-06-B | Substitution with Würth Metal Cleaner 7063 |
| AG-SIL-2019-03-B | Rotor Blade Inspection |
| AG-SIL-2020-01 | G3X Instrument Range Confirmation |
| AG-SIL-2020-02 | Nose Wheel Fork Inspection |
| AG-SIL-2020-03 | Woodcomp Propeller Balancing |
| AG-SIL-2021-02 | Pneumatic Clutch III & IV – wear limits |
| AG-SIL-2021-03 | Removal of AutoGyro 5 Year Rubber Hose Replacement Requirement |
| AG-SIL-2021-04 | Garmin G3X Firmware Update for Rotax 915iS |
| AG-SIL-2021-05 | Engine Mount Set Tables |
| AG-SIL-2023-02 | Overview of Pneumatic Couplings/ Rotor head combinations |
| AG-SIL-2024-01 | Latest Status of Mast bushing installation |
| AG-SIL-2024-02 | Rotor Head Teeter Joint Setup |
| AG-SIL-2024-03 | Door Adjustment Cavalon |
| AG-SIL-2025-01 | Pre-flight and maintenance inspection tasks for exhaust Rotax 916iS |

Always check the manufacturer's website (Rotax, AutoGyro, Woodcomp, Garmin etc.) for the latest updates!