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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 Calidus 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.

Ser	Task Description	25h	100 h/ 1Yr	Other	AMM Chapter/Job Card/SB/SIL Reference	Entry Nr in Work Report	Initials
Aircra	oft Preparation						
1	If necessary, carry out an acceptance check flight of the aircraft						
2	Clean aircraft. Remove dirt, dust, leaked fluids and loose items	Х	Х				
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	х	х				
4	Examine historical / Maintenance Records and Log Book. Identify: -Life Limited Items (LLI) -Due dates for replacements, overhauls and special activities -Reported problems	Х	х				
5	Note / check all - Serial Numbers against logbooks and records - Manufacturer Life Limits (MLL/SLL) - Inspection/Overhaul Time Limits (TBO) according to Life Limited Parts and Maintenance Log (AG-F-ECL-CD), respectively Inspection Protocol Cover Sheet (AG-F-PCS).	х	х				
6	Remove and inspect all service covers/maintenance access covers/cowlings	Х	Х		52-00-00 4-1		
Rotor	System						
7	Check teeter angle	Х	Х	14° +/-1°			
9	Remove rotor Inspect rotor	X	X		62-11-00 4-1 62-11-00 6-1		
10	Rotor system I (8.4m) or (8.0m). Disassemble rotor and inspect	x	х	100 hrs/12 months. After 700hrs in service, the inspection interval is reduced to 25 hrs or 12 months where permitted	62-11-00 4-2 62-11-00 6-2 SB-2021-05-A		
11	Rotor system II (8.4m & 8.8m) or (8.4m & 8.6m TOPP). Disassemble rotor and inspect		х	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 (if disassembled in serials 10 or 11)	х	х		62-11-00 4-3		
13	Check-torque the blade to hub bar bolts/nuts	Х	Х	20Nm +/-5Nm	62-11-00 4-3		
14	Inspect the rotor hub bolts			200hrs/ 2yr	62-11-00 6-3		

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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	х	х	1.5 – 1.8 Bar Recommended 0.5mm min tread		
16	Inspect nose wheel fork general condition, secure installation, freedom of movement, no excessive play, distortion or damage	х	х		SIL-2020-02 SB-2018-04-A	
17	Inspect nose wheel rubber damper general condition and correct operation	Х	х		32-20-00 8-1	
Cockp			<u> </u>			
18	Inspect wiring and pitot/static lines general condition, correct attachment, absence of chafing, tears cracks, hardening, kinks or sharp changes of direction	х	х			
19	Replace or dry compressor humidity filter as appropriate for environmental conditions		х		36-21-00 8-1	
20	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		Х	0.5 bar/hr maximal loss		
21	Check security of instruments/switches etc. in their cockpit mountings	Х	Х			
22	Check heating control (if installed) for correct operation and freedom of movement	Х	Х			
23	Carry out a functional check of main and backup fuel pump(s) if fitted	Х	Х			
24	Carry out a functional check of strobes if fitted	Х	Х			
25	Carry out a functional check of nav lights if fitted	Χ	Χ			
26	Carry out a functional check of landing lights if fitted	Х	Х			
27	Carry out a functional check of Air Speed Indicator		Х			
28	Ensure altimeter is calibrated to QNH/ambient pressure		х			
29	Ensure compass is correctly calibrated (Refer to manufacturer's instructions)		х			
30	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	х	х			
31	Ensure all glass cockpit instrument ranges compare with those in the TADS, if fitted		Х			
Rudd	er Control Run					
32	Inspect the setup of rudder and pedals		х	Left 900mm +/- 10mm Right 840mm +/- 10mm	27-20-00 5-1	
33	Inspect pedals for freedom of movement.	Χ	Χ			
34	Inspect all nose wheel/rudder forward control fittings general condition, security, freedom of movement, no damage, fraying or chafing (cable sheath mounting blocks) Lubricate with AG-LUB-01	х	х			
35	Inspect all nose wheel/rudder rear control fittings general condition, security, freedom of movement, no damage or chafing. Inspect turnbuckle wiring present and correct	х	х			

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			,			
36	Check rear pedal (if installed) foam dust protection present and undamaged.	Х	х			
37	Inspect security of all rudder control run securing bolts and locknuts. Lubricate moving parts with AG-LUB-01	х	х			
38	Inspect tension of rudder cables with nose raised and rudder central (pedals parallel). Measure Force to operate pedals from mid position.	х	Х	5-6Kg		
39	Inspect upper rudder attachment point bush for freedom of movement in the attachment plate	х	Х	0.2mm		
40	Inspect tail plane security to airframe bolt torque	Х	Х	20Nm +/-5Nm		
41	Inspect tail plane and rudder for signs of composite damage, particularly at joints and welds. Ensure drain holes are free	х	х			
42	Inspect security of rudder trim tab	х	Х			
Flight	Control					
43	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 clamp	Х	Х	Max play 5mm	67-00-00 6-1	
44	Inspect forward (and rear if installed) flight control stick(s) general condition, freedom and full range of movement, secure installation, cable routing, no damage or chafing	х	х			
45	Inspect radial bearings in control stick base forks of main control rod for wear or damage. Inspect play at stick	х	Х			
46	Inspect main control rod general condition, freedom of movement, secure installation, damage or deformation. Inspect condition of forward bearing	х	Х		67-00-00 6-2	
Airfra	me/Fuselage	•				
47	Inspect forward seat and hinges general condition, secure installation, no damage	Х	Х			
48	Inspect all forward seatbelt mounting points for tightness and security	Х	Х			
49	Inspect forward seatbelt for damage or frays and security of buckles		Х			
50	Inspect rear seat general condition, secure installation, no damage	Х	Х			
51	Inspect all rear seatbelt mounting points for tightness and security	Х	Х			
52	Inspect rear seatbelt for damage or frays and security of buckles		Х			
53	Inspect front seat backrest adjustment limit stops are fitted if rear stick is fitted (if applicable for country of registration)	х	х			
54	Inspect rear Instructor panel (if installed) Version 90° attachment plate: Inspect cable connections, routing, secure installation and condition of attachment plate. Instructor Mag switches (if installed): Inspect for security & presence of safe-guards	Х	х			
55	Inspect forward and rear storage compartment flaps for correct operation, secure installation no loose articles	х	х			

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56	Inspect canopy general condition, freedom of					
	movement, condition of seal, no damage or cracks,					
	no delamination from frame.	Х	Х			
	Apply talcum to the seal					
57	Inspect canopy hinges general condition, secure					
	installation, freedom of movement, no cracks	Х	Х			
58	Inspect canopy frame gap					
	mopest carriery marine gap		X		52-10-00 6-1	
59	Inspect canopy latch for correct operation, secure					
	installation, wear marks or spurs.					
	Inspect canopy guide pins for correct function,	X	Х		52-10-00 5-1	
	security and general condition.					
60	Measure and record (on the Work Report) break-					
	out-force required to open the canopy latch.		Х		52-10-00 5-1	
	Ensure within tolerances.					
61	Inspect canopy open warning circuit (if fitted) for	.,	.,			
	correct operation	Х	Х			
62	Inspect windows general condition, correct					
	operation, no cracks or missing parts.	V	V			
	Lubricate sliding window channels with silicone	Х	Х			
	spray					
63	Ensure slip indicator is present and intact	Х	Х			
64	Inspect fuselage general condition, no cracks,	Х	V			
	damage	_ X	Х			
65	Inspect cabin ventilation, ensure port under body	V	V			
	is free from obstruction	Х	Х			
66	Inspect all antenna and antenna mountings for	V	V			
	security, no damage	Х	Х			
67	Inspect keel tube general condition, secure	.,	.,		CII 2040 04 D	
	installation, weld seams, no cracks	Х	Х		SIL-2019-01-B	
68	Inspect keel tube protection pad condition and	V	V		FF 00 00 0 1	
	attachment.	Х	Х		55-00-00 8-1	
69	Inspect frame/arms to fuselage connection general				53-00-00 6-1	
	condition, secure installation, weld seams, no	Х	Х		SIL-2019-01-B	
	cracks or distortion				31L-2019-01-B	
70	Inspect main control rod rear attachment to frame					
	assembly for corrosion.	Х	Х		67-00-00 6-2	
	Check drain holes are present and free in the eye-		_ ^		07 00 00 0 2	
	end mounting plate					
71	Inspect the engine mounting brackets general		X		SIL-2019-01-B	
	condition, no cracks or distortion		_ ^		31E 2013 01 B	
72	Inspect the engine mounting bushes for secure		X		71-20-00 8-1	
	installation and condition of rubber				SIL-2018-02-C	
73	Inspect upper to lower mast angled securing lugs					
	general condition, secure installation, weld seams,		Х		SIL-2019-01-B	
	no cracks					
74	Check torque upper to lower mast securing bolts		Х	70Nm		
75	Inspect rubber mounting bush movement.		X	Max 6mm in each	62-51-00 6-1	
	Record movement on Work Report		<u> </u>	direction		
76	Inspect all placards/stickers readable and in line		X	Pilots Handbook		
	with operating limitations			or TADS		
	Static/Pneumatic System		1			
77	Inspect pitot general condition, secure installation	Х	Х			
70	Language states as and					
78	Inspect static ports general condition, secure	l	l		34-10-00 7-1	
	installation, no obstructions, no leaks.	Х	Х		34-10-00 5-1	
70	Clean and dry static lines as required					
79	Inspect all pneumatic lines and connectors in the	Х	Х			
00	fuselage, no chafing, sharp bends or kinks					
80	Inspect pneumatic box and compressor for	Х	Х			
	security, no chafing or damage	<u> </u>	<u> </u>			L

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Main	Gear and Brakes						
81	Remove the main spar to fuselage attachment			Initially at 2yr,			
	bolts individually and check for corrosion. Replace			then annually			
	if required			(15Nm)			
82	Inspect landing gear spar and attachments to						
	airframe for damage or fatigue (cracks &	Х	Х		SIL-2019-01		
	deformation)						
83	Inspect main wheels general condition, correct						
	pressure, condition of tread, correct seating of						
	valve and cap, secure installation and no play in		.,				
	wheel bearing.	Х	Х				
	Inspect wheel bearing for smooth operation.						
	Ensure slip mark is present and aligned						
84	Inspect wheel spats (if fitted) for secure						
	installation and general condition, no cracking	Х	Х				
85	Inspect brake lines for secure installation, no leaks,						
	no chafing	Х	Х				
86	Inspect wheel callipers for secure installation and						
	freedom of operation, no leaks	Х	Х				
87	Inspect brake pads for wear (wear mark/groove						
٠,	must be visible) and condition		X		32-40-00 8-2		
88	Inspect brake disc condition.						
	Check-torque 4 x attachment screws		X				
89	Inspect the throttle/brake unit for correct						
69	operation, secure installation, condition of ratchet						
	1 ' '		Х				
	teeth, brake fluid level, no leaks.						
Dun u	Replenish fluid (DOT4) as required						
	otator	l	T	T	/62 11 10 5 1	I	l I
90	Check the pneumatic clutch for correct operation,			63-11-10 6-1	(63-11-10 5-1		
	secure installation, pneumatic connections, no			'Procedures' item	= rotor head II		
	wear or chafing. Adjust if necessary		Х	2: 0.5-1.0mm for	clutch only)		
				RHIII clutch	63-11-10 6-1		
91					SIL-2021-02		
91	Check front dog gear (clutch side) and rear dog		Х		63-11-10 6-1		
02	gear (engine side) general condition, no cracks			DUILO E bassis E			
92	Connect a manometer to the clutch pneumatic			RHII 0-5 bar in 5-			
	pressure regulator and check time to pressurise.	Х	Х	10 sec			
	In the event of discrepancies contact AutoGyro			RHIII 0-8 bar in 5-			
00	Technical Support			10 sec			
93	Inspect pre-rotator drive shafts with sliding shaft						
	coupling for general condition, secure installation,						
	no cracks (especially at the welded flanges) and			*Liquid Moly LM			
	free to slide.	Х	Х	47 MoS2			
	Lubricate sliding shaft coupling*.			(45506)			
	Inspect upper bearing adhesive. If necessary re-						
	apply Loctite 638						
94	Inspect angle gearbox general condition, secure	Х	Х				
	installation, no cracks, smooth running, no leaks		_ ^_				
95	Inspect pre-rotator upper engagement.		l				
	Inspect backlash.		l				
	Lubricate Bendix shaft helix with AG-LUB-01		X		63-11-30 6-1		
	(Ballistol) or equivalent.		^		02-11-20 0-1		
	Grease crown gear teeth lightly with AG-GRS-01		l				
	(WHS 2002)						
96	Protect steel parts with AG-CPS-01 chain wax,		Х				
	cavity spray or equivalent					<u></u>	
Rotor	Head						
97	Inspect upper mast assembly for security, no		V		CII 2017 04 4		
	deformation, no cracks (especially at welds).		X		SIL-2017-01-A		
98	Inspect brake/trim cylinder for correct attachment,		.,				
	security, no damage		X				
						1	

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99	Inspect roll trim cylinder for correct attachment, security, no damage		Х			
100	Inspect all pneumatic hoses at the head general condition, security, no chafing, brittleness, sharp bends or kinks	х	х			
101	Inspect rotor head damper (when fitted) secure installation, no wear or jamming	Х	Х			
102	Renew teeter tower/bearing assembly			1500hr	62-20-00 8-1 SIL-2018-02-C	
103	Inspect rotor head bridge II for damage, deformation, and cracks, especially at welds. Inspect side plates & roll attachment bracket of rotor head III for deformation, damage and cracks. Inspect aluminium bridge (RH III) for damage, cracking or deformation. Carry out a torque check of the main bolt. Refit split pin		х	Minimum 120Nm Maximum 160Nm	62-31-00 6-1	
104	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 AG-GRS-01 (WHS2002) to the bolt shanks during re-assembly			28Nm Every 2 years or 200 hrs, whichever is first		
105	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)		х	Fwd: -4° Rear: 20° Right: 7° Left: 9°	62-32-00 6-1	
106	Only Gimbal II (with conical washers) & Gimbal III (rotor head III): Measure breakout force at forward control stick grip. Adjust as required. Lube			200hr 15N max. No stick-slip permitted	62-32-00 5-1	
107	Inspect three split pins present and secure Inspect rotor brake pad(s) for function & wear (including fwd brake, rotor head III)	X	X			
109	Protect steel parts with AG-CPS-01 chain wax, cavity spray or equivalent		Х			
Fuel S						
110	Inspect fuel tanks security and correct installation.		Х			
111	Inspect fuel tanks general condition, no leaks, chafing, cracks or distortion. Inspect fuel level indication (if fitted) and compare with fuel gauge		х			
112	Inspect tank interior for foreign debris. Remove if found	Х	Х			
113	Inspect functionality of low level warning light if fitted		Х			
114	Inspect fuel venting lines condition and routing	Х	Х			
115	Inspect fuel water contamination drains have no leaks		Х			
116	Inspect fuel tank cap for seal deterioration & security of fit		Х			
117	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.		х		SIL-2021-03	
118	Replace nylon & KL45 fuel filter if contaminated. Replace as pair			Recommended 500hr/3Yr or on condition	28-20-00 6-1 28-20-00 8-1 SIL-2018-02-C	
119	Inspect and clean electric fuel pump internal filter(s) if fitted		х		28-20-00 6-1	

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				1			
120	Inspect the fuel shut-off valve correct operation,						
	secure installation, presence and condition of safe-		Х				
	guard						
Oil Sy	stem						
121	Inspect oil cooler general condition, secure						
	installation, cleanliness, no leaks, chafing, damage		l x				
	or deformed fins, condition of rubber mountings		^				
122	_						
122	Inspect all hoses and pipes of the oil system for						
	secure installation, no leaks, chafing, tears/cracks,		l x		SIL-2021-03		
	hardening, kinks or sharp direction changes.		''		0.1 2022 00		
	Inspect firm seating of hoses on the fittings.						
123	Inspect thermostat assembly for secure		١.,				
	attachment, no cracks, leaks or porous hoses		X				
Coola	nt System						l
124	Inspect all hoses and pipes of the coolant system					I	
124							
	for secure installation, no leaks, chafing,		٠.,				
	tears/cracks, hardening, kinks or sharp direction		X		SIL-2021-03		
	changes.						
	Inspect firm seating of hoses on the fittings.						
125	Inspect radiator general condition, secure		I				
	installation, cleanliness, no leaks, chafing, damage		Х				
	or deformed fins						
126	Inspect the radiator fan for correct operation, no						
120		Х	Х				
427	damage of fan cage and blades						
127	Inspect presence/condition of heat protection on		l x				
	coolant hose from cylinder 2						
128	Inspect coolant overflow tank for correct coolant	x	Х				
	level, secure installation, no chafing	^	^				
129	Inspect for secure attachment of thermostat,						
	presence of earth cable, no leaks, damage or		X				
	chafing		^`				
Prope							
130						l	
130	Inspect propeller blades for cracks, delamination	Х	Х				
	or impact damage						
131	Remove and inspect spinner (if fitted), inspect						
	spinner mounting plate general condition, secure	Х	Х		61-10-00 4-1		
	installation, no cracks.						
132	Inspect propeller to frame clearance	.,	.,				
		X	X	5cm minimum			
133	HTC: Perform a visual inspection of the hub.						
100	Ensure safety paint on head of bolt to hub is not						
		Х	Х	1 F N ma			
	broken (if applied).	^	^	15Nm			
	Check torque flange bolts and re-apply paint if						
	required						
134	HTC: Inspect leading edge protective tape (if fitted)	Х	Х				
L	for air bubbles, lifted edges or deterioration	∟^	∟^			<u> </u>	
135	HTC: Ensure all blades have the same pitch		.,	AG propeller pitch	64 46 66 5 4		
1	<u>'</u>		X	gauge (30492)	61-10-00 5-1		
136	IVO: Inspect blades for loose pitch lever (tap test),			3 3- (/	RSUK0325		
-55	condition of contact plate brushes and tension		1		RotorSport		
	strips between blades if fitted. Check torque flange		_	40Nm	•		
	'	Х	Х	4UNIII	IVO-prop		
1	bolts		1		manual		
		ļ	1		SIL-2018-04-B		
137	IVO: Inspect leading edge protection for lifted	Х	Х				
	edges or deterioration	^	^				
138	IVO: Inspect cable routing, ensure secure		Х				
139	Refit spinner (if applicable) using AG-BAS-02						
	Loctite 243	Х	Х				
L			1			ĺ	<u> </u>

Engine and Accessories

NOTE: All engine checks to be carried out in accordance with manufacturer's instructions.

Include supplementary procedures below.

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140	Inspect starter battery for security, deformation,		,			
	cracks, chafing leaks, oxidization, pole cover, Charge state/condition.		Х			
141	Inspect the engine mounting ring frame for secure					
	installation, no chafing, distortion, cracks or		X	40Nm		
	missing paint.		^	4011111		
	Check torque 4 ring mount to engine securing bolts					
142	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.		x		SIL-2018-05-C	
	Ensure the sliding joint is free to move at exhaust		^		31L-2016-05-C	
	manifold from cylinder 1.					
	Lube with AG-LUB-02 anti-seize					
143	Inspect the silencer for secure installation of					
	clamps, rivets and lock wire. Ensure lock wire		X			
	passes through clamp screw housing and slot in		_ ^			
444	screw head					
144	Ensure wire locking is present on:					
	Oil tank drain plug Oil sump drain plug					
	Carb air filters	Х	Х			
	Oil pump					
	Magnetic plug (after the first 100hr service)					
145	Ensure choke and throttle levers move freely from					
	stop to stop, and that turbo detent can be	Х	Х			
	positively felt (914 engines only). Ensure cables are	^	^			
	mechanically synchronised. Lube lever joints					
146	Inspect clearance between airbox (if fitted) and	Х	Х			
147	engine mounting frame Supplementary procedure: Oil change:					
147	On draining all oil, ensure it is run through a 190					
	micron filter paper, attach photo of findings to this		Х			
	protocol					
148	Supplementary procedure: Inspection of magnetic					
	plug:		Х			
	Attach a photo of the magnetic plug before					
149	cleaning to this protocol					
149	Supplementary procedure: Inspection of oil filter: Attach a photo of the paper mesh from the cut					
	open filter to this protocol		Х			
	open meet to this protocor					
150	Supplementary procedure: Refilling of oil:		,,			
	Record type of oil used to refill in the Work Report		Х			
Finali	zation Work					
151	Assemble the rotor system on the aircraft and lube	Х	Х		62-11-00 4-4	
153	teeter assembly through grease nipple					
152 153	Carry out a tool and loose article check	Х	Х		52-40-00 0-1	
133	Ensure all service covers and cowlings are reinstalled	Х	Х		52-40-00 0-1	
154	Securely tie down the aircraft and carry out a				MM 05-60-00	
]	ground run	Х	Х		AG-F-PGR-	
					Generic	
155	Carry out a test flight if required	Х	Х			
156	Ensure all log book entries are completed	Х	Х			
	appropriately, and service record updated	^	^			
157	Carry out any other documentation requirements	Х	Х			
L	by the countries Airworthiness Administration	<u> </u>	<u> </u>			<u> </u>

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Tasks completed by (Name):		Engine hours logged:
Signature:	Initials:	Airframe hours logged:
Date:		
The technical content of this do	cument should be approved	with the national Airworthiness Authority as required.
Maintenance Release: The wor pages) has been completed to respect the aircraft is consider	my satisfaction and in that	Comments:
Signature:	Initials:	
Date:		
Inspector or licence number (if Dated:	required):	