Ac Works nr: Calidus Periodic
Service Worksheet

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 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.

Task Description	25h	100h	Other	MM Chapter/Job	Entry Nr in Work	Initials
				Card Reference	Report	
Aircraft Preparation					·	
If necessary, carry out an acceptance check flight of						
the aircraft						
Clean aircraft. Remove dirt, dust, leaked fluids and	х	х		12-10-00		
loose items	^	^				
Identify all relevant				http://www.auto		
- Airworthiness Directives (AD)	х	x		<u>-gyro.com</u>		
- Service Bulletins (SB)	^	^				
for airframe (AutoGyro) and power plant (ROTAX)						
Examine historical / Maintenance Records and Log						
Book. Identify:						
-Time Change Items (TCI)	x	x				
-Due dates for replacements, overhauls and special	^	^				
activities						
-Reported problems						
Note / check all						
- Serial Numbers						
 Manufacturer Life Limits (MLL/SLL) 						
- Airworthiness Limitations (AWL)	.,	, , , , , , , , , , , , , , , , , , ,				
- Inspection/Overhaul Time Limits (TBO)	Х	Х				
according to Event & Configuration Log (AG-F-ECL),						
respectively Inspection Protocol Cover Sheet						
(AG-F-PCS).						
Remove and inspect all service covers/maintenance				52-00-00 4-1		
access covers/cowlings	Х	Х				
Rotor System						
Inspect teeter angle	Х	X	14° +/-1°	62-11-00 6-4		
Remove rotor	Х	Х		62-11-00 4-1		
Inspect rotor	Х	Х		62-11-00 6-1		
Rotor system I (8.4m) or (8.0m). Disassemble rotor		.,		62-11-00 4-2		
and inspect		X		62-11-00 6-2		
Rotor system II (8.4m & 8.8m) or (8.4m & 8.6m			500hrs/ 3yr.	62-11-00 4-2		
TOPP). Disassemble rotor and inspect			Recommended	62-11-00 6-2		
			1yr in corrosive			
			environments			
Re-assemble rotor	Х	Х		62-11-00 4-3		
Check-torque the blade to hub bar bolts/nuts	Х	Х	20Nm +/-5Nm	62-11-00 4-3		
Inspect the rotor hub bolts			200hrs/ 2yr	62-11-00 6-3		
Nose Gear						
Inspect nose wheel general condition, correct			1.5 – 1.8 Bar			
pressure, condition of tread, correct seating of valve/	x		Recommended			
cap, secure installation and no play in wheel bearing.	^	Х	0.5mm min			
Inspect wheel bearing for smooth operation			tread			
Inspect nose wheel fork general condition, secure						
installation, freedom of movement, no excessive	Х	Х				
play, distortion or damage						
Inspect nose wheel rubber damper general condition	Х	Х		32-20-00 8-1		
and correct operation						
Cockpit						
Inspect wiring and pitot/static lines general						
condition, correct attachment, absence of chafing,	Х	Х				

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toors cracks hardening kinks or charp changes of				I		
tears cracks, hardening, kinks or sharp changes of direction						
Replace or dry compressor humidity filter as				36-21-00 8-1		
appropriate for environmental conditions		Х		30-21-00 8-1		
Carry out a full functional check of the pneumatic				36-00-00 5-1		
system.				30 00 00 3 1		
Ensure pneumatic system holds pressure in			0.5 bar/hr			
accordance with the limits laid down in the		X	maximal loss			
maintenance manual with the selector in both brake						
and flight positions						
Check security of instruments/switches etc. in their	х	х				
cockpit mountings	^	^				
Check heating control (if installed) for correct	х	х				
operation and freedom of movement	^	^				
Carry out a functional check of main and backup fuel	Х	Х				
pump(s) if fitted						
Carry out a functional check of strobes if fitted	Х	Х				
Carry out a functional check of nav lights if fitted	Х	X				
Carry out a functional check of landing lights if fitted	Х	X		0.1000-0		
Carry out a functional check of Air Speed Indicator		Х		34-10-00 5-2		
Ensure altimeter is calibrated to QNH/ambient		Х		31-20-00 5-1		
pressure Ensure compass is correctly calibrated (Pofor to						
Ensure compass is correctly calibrated (Refer to manufacturer's instructions)		Х				
Ensure correct function of digital altimeter and air				31-20-00 5-2		
speed indicators if fitted	Х	Х		31-20-00 3-2		
Ensure all glass cockpit instrument ranges compare						
with those in the TADS, if fitted		Х				
Rudder Control Run						
Inspect the setup of rudder and pedals			Left 900mm +/-	27-20-00 5-1		
			10mm			
		Х	Right 840mm			
			+/- 10mm			
Inspect pedals for freedom of movement.	Х	Х				
Inspect all nose wheel/rudder forward control						
fittings general condition, security, freedom of						
movement, no damage, fraying or chafing (cable	Х	Х				
sheath mounting blocks)						
Lubricate with AG-LUB-01						
Inspect all nose wheel/rudder rear control fittings						
general condition, security, freedom of movement,	Х	Х				
no damage or chafing.						
Inspect turnbuckle wiring present and correct Check rear pedal (if installed) foam dust protection	<u> </u>	 				
present and undamaged.	Х	Х				
Inspect security of all rudder control run securing		1				
bolts and locknuts.	х	Х				
Lubricate moving parts with AG-LUB-01		^				
Inspect tension of rudder cables with nose raised and						
rudder central (pedals parallel). Measure Force to	Х	Х	5-6Kg			
operate pedals from mid position.						
Inspect upper rudder attachment point bush for	v	v				
freedom of movement in the attachment plate	Х	Х				
Inspect tail plane security to airframe bolt torque	х	х	20Nm +/-5Nm			
	^	^	ZUMIII T/-DINIII			
Inspect tail plane and rudder for signs of composite						
damage, particularly at joints and welds.	Х	Х				
Ensure drain holes are free		1				
Inquired approximately of modulous todays to be		1				
Inspect security of rudder trim tab	Х	Х				
1	1	İ		1	1	ı

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Flight Control						
Inspect push pull cables for correct and secure	Х	Х		67-00-00 6-1		
installation, no play, no chafing, no cracks or splits	^	^	Max play 5mm	07-00-00 0-1		
visible at the end-fittings. Inspect security of PPC			Iviax play Sillill			
clamp						
Inspect forward (and rear if installed) flight control						
stick(s) general condition, freedom and full range of	Х	Х				
movement, secure installation, cable routing, no	^					
damage or chafing						
Inspect radial bearings in control stick base forks of				67-00-00 6-1		
main control rod for wear or damage.	Х	Х				
Inspect play at stick						
Inspect main control rod general condition, freedom						
of movement, secure installation, damage or						
_	Х	Х				
deformation.						
Inspect condition of forward bearing						
Airframe/Fuselage	ı	T		1	1	
Inspect forward seat and hinges general condition,	х	Х				
secure installation, no damage	^	^				
Inspect all seatbelt mounting points for tightness and	v	v				
security	Х	Х				
Inspect forward seatbelt for damage or frays and			Manufacturers			
security of buckles		l x	recommend'n			
		"	10yr			
Inspect rear seat general condition, secure			10 y i			
	Х	Х				
installation, no damage						
Inspect all rear seatbelt mounting points for	Х	Х				
tightness and security	,,	,				
Inspect rear seatbelt for damage or frays and security			Manufacturers			
of buckles		Х	recommend'n			
			10yr			
Inspect front seat backrest adjustment limit stops are						
fitted if rear stick is fitted (if applicable for country of	Х	Х				
registration)						
Inspect rear Instructor panel (if installed)						
Version 90° attachment plate:						
Inspect cable connections, routing, secure	Х	Х				
installation and condition of attachment plate.						
Instructor Mag switches (if installed):						
Inspect for security & presence of safe-guards						
Inspect forward and rear storage compartment flaps						
for correct operation, secure installation no loose	Х	Х				
articles						
Inspect canopy general condition, freedom of		1				
movement, condition of seal, no damage or cracks,						
no delamination from frame.	Х	Х				
Apply talcum to the seal						
		1				
Inspect canopy hinges general condition, secure	Х	Х				
installation, freedom of movement, no cracks		L				
Inspect canopy frame gap		Х		52-10-00 6-1		
Inspect canopy latch for correct operation, secure				52-10-00 5-1		
installation, wear marks or spurs.	х	х				
Inspect canopy guide pins for correct function,	_ ^	^				
security and general condition.						
Measure and record (on the Work Report) break-out-				52-10-00 5-1		
force required to open the canopy latch. Ensure		x				
within tolerances.		"				
Inspect canopy open warning circuit (if fitted) for						
	Х	Х				
correct operation						
Inspect windows general condition, correct	Х	Х				
operation, no cracks or missing parts.		<u> </u>				

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Lubricate sliding window channels with silicone spray					
Ensure slip indicator is present and intact	Х	Х			
Inspect fuselage general condition, no cracks,				53-00-00 6-1	
damage	Х	Х		33 00 00 0 1	
Inspect cabin ventilation, ensure port under body is					
free from obstruction	Х	Х			
Inspect all antenna and antenna mountings for					
security, no damage	Х	Х			
Inspect keel tube general condition, secure					
installation, weld seams, no cracks	Х	Х			
Inspect keel tube protection pad condition and				55-00-00 8-1	
attachment.	Х	Х		00 00 00 0	
Inspect frame/arms to fuselage connection general				53-00-00 6-1	
condition, secure installation, weld seams, no cracks	Х	Х			
or distortion					
Inspect main control rod rear attachment to frame				67-00-00 6-2	
assembly for corrosion.	.,				
Check drain holes are present and free in the eye-	Х	Х			
end mounting plate					
Inspect the engine mounting brackets general					
condition, no cracks or distortion		Х			
Inspect the engine mounting bushes for secure			_		
installation and condition of rubber		X	5yr		
Inspect upper to lower mast angled securing lugs				AG-SIL-2019-	
general condition, secure installation, weld seams,		Х		01-B-EN	
no cracks					
Check torque upper to lower mast securing bolts		Х	70Nm		
Inspect rubber mounting bush movement.		.,	Max 6mm in	62-51-00 6-1	
Record movement on Work Report		Х	each direction		
Inspect all placards/stickers readable and in line with			Pilots Handbook		
operating limitations		Х	or TADS		
		X			
operating limitations	Х	X			
operating limitations Pitot-Static/Pneumatic System	X			34-10-00 7-1	
operating limitations Pitot-Static/Pneumatic System Inspect pitot general condition, secure installation	X			34-10-00 7-1 34-10-00 5-1	
operating limitations Pitot-Static/Pneumatic System Inspect pitot general condition, secure installation Inspect static ports general condition, secure installation, no obstructions, no leaks. Clean and dry static lines as required		X			
operating limitations Pitot-Static/Pneumatic System Inspect pitot general condition, secure installation Inspect static ports general condition, secure installation, no obstructions, no leaks. Clean and dry static lines as required Inspect all pneumatic lines and connectors in the	х	X			
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pitot-Static/Pneumatic System Inspect pitot general condition, secure installation Inspect static ports general condition, secure installation Inspect static ports general condition, secure installation, no obstructions, no leaks. Clean and dry static lines as required Inspect all pneumatic lines and connectors in the fuselage, no chafing, sharp bends or kinks Inspect pneumatic box and compressor for security, no chafing or damage Main Gear and Brakes Remove the main spar to fuselage attachment bolts individually and check for corrosion. Replace if required Inspect landing gear spar and attachments to airframe for damage or fatigue (cracks &	x x	X X	Initially at 2yr, then annually	34-10-00 5-1	
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Pitot-Static/Pneumatic System Inspect pitot general condition, secure installation Inspect static ports general condition, secure installation, no obstructions, no leaks. Clean and dry static lines as required Inspect all pneumatic lines and connectors in the fuselage, no chafing, sharp bends or kinks Inspect pneumatic box and compressor for security, no chafing or damage Main Gear and Brakes Remove the main spar to fuselage attachment bolts individually and check for corrosion. Replace if required Inspect landing gear spar and attachments to airframe for damage or fatigue (cracks & deformation) 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 Inspect wheel spats (if fitted) for secure installation and general condition, no cracking Inspect brake lines for secure installation, no leaks, no chafing Inspect wheel callipers for secure installation and freedom of operation, no leaks	x x x x x x	x x x x	Initially at 2yr, then annually	34-10-00 5-1 AG-SIL-2019- 01-B-EN	
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[T	T	1
Inspect brake disc condition.		х				
Check-torque 4 x attachment screws				76 10 00 0 1		
Inspect the throttle/brake unit for correct operation,		l x		76-10-00 8-1		
secure installation, condition of ratchet teeth, brake fluid level, no leaks.		^				
Pre-rotator						
Check the pneumatic clutch for correct operation,			63-11-10 6-1	(63-11-10 5-1	1	T T
secure installation, pneumatic connections, no wear			'Procedures'	RHII clutch		
or chafing. Adjust if necessary		l x	item 2: 0.5-	only)		
or channel ragust ir necessary		^	1.0mm for RHIII	63-11-10 6-1		
			clutch	03 11 10 0 1		
Check front dog gear (clutch side) and rear dog gear			o.u.c.	63-11-10 6-1		
(engine side) general condition, no cracks		X				
Connect a manometer to the clutch pneumatic			RHII 0-5 bar in	63-11-10 4-2		
pressure regulator and check time to pressurise. In	.,	.,	10 sec			
the event of discrepancies contact AutoGyro	Х	X	RHIII 0-8 bar in			
Technical Support			10 sec			
Inspect pre-rotator drive shafts with sliding shaft						
coupling for general condition, secure installation, no						
cracks (especially at the welded flanges) and free to			*Liquid Moly LM			
slide.	Х	Х	47 MoS2			
Lubricate sliding shaft coupling*.			(45506)			
Inspect upper bearing adhesive. If necessary re-apply						
Loctite 638						
Inspect angle gearbox general condition, secure	Х	х				
installation, no cracks, smooth running, no leaks						
Inspect pre-rotator upper engagement.				63-11-30 6-1		
Inspect backlash.		X				
Grease with AG-GRS-01 (WHS 2002)						
Protect steel parts with chain wax, cavity spray or equivalent		Х				
Rotor Head						
Inspect upper mast assembly for security, no		I				
deformation, no cracks (especially at welds).		X				
Inspect brake/trim cylinder for correct attachment,						
security, no damage		Х				
Inspect roll trim cylinder for correct attachment,						
security, no damage		Х				
Inspect all pneumatic hoses at the head general						
condition, security, no chafing, brittleness, sharp	Х	Х				
bends or kinks						
Inspect rotor head damper (when fitted) secure		.,				
installation, no wear or jamming	Х	Х				
Renew teeter tower/bearing assembly			1500hr			
Inspect rotor head bridge. Carry out a torque check		х	Minimum	62-31-00 6-1		
of the main bolt. Refit split pin		^	120Nm			
Inspect rotor head gimbal for correct operation and			Fwd: -4°	62-32-00 6-1		
secure installation of all attached parts.		x	Rear: 20°			
Record controlled angles on Work Report.		_ ^	Right: 7°			
Lube AG-GRS-01 (WHS2002)			Left: 9°			
Only Gimbal II (with conical washers) & Gimbal III			200hr	62-32-00 5-1		
(rotor head III): Measure breakout force at forward			Absolute			
control stick grip. Adjust as required. Lube			maximum			
I have not the an amiliarity and a second of	V	V	15Nm			
Inspect three split pins present and secure	Х	Х				
Inspect rotor brake pad(s) for function & wear		Х				
(including fwd brake, rotor head III)						
Protect steel parts with chain wax, cavity spray or equivalent		Х				
Fuel System						
Inspect fuel tanks security and correct installation.		Х				
,, cot inc. tailing security and confect installations				I	1	1

Ac Works nr:

Calidus Periodic
Service Worksheet

Service interval: Worksheet no. (If required/used): Date:

					1	
Inspect fuel tanks general condition, no leaks, chafing, cracks or distortion. Inspect fuel level indication (if fitted) and compare		х				
with fuel gauge Inspect tank interior for foreign debris. Remove if	.,	.,				
found	Х	Х				
Inspect functionality of low level warning light if fitted		Х		28-20-00 5-1		
Inspect fuel venting lines condition and routing	Х	Х				
Inspect fuel water contamination drains have no	^	~				
leaks		X				
Inspect fuel tank cap for seal deterioration & security of fit		Х				
Inspect all pipes & hoses for secure installation,						
presence of fire protective sleeve (if fitted), no cracks, chafing, kinks or sharp direction changes, deterioration or hardening. Ensure all rubber hoses comply with the 5 year		x				
renewal recommendation						
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		
Inspect and clean electric fuel pump internal filter(s) if fitted		х	condition	28-20-00 6-1		
Inspect the fuel shut-off valve correct operation,						
secure installation, presence and condition of safe- guard		х				
Oil System						
Inspect oil cooler general condition, secure				Ι		
installation, cleanliness, no leaks, chafing, damage or deformed fins, condition of rubber mountings		х				
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.		х				
Inspect thermostat assembly for secure attachment, no cracks, leaks or porous hoses		Х				
Coolant System						
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.		х				
Inspect radiator general condition, secure installation, cleanliness, no leaks, chafing, damage or deformed fins		х				
Inspect the radiator fan for correct operation, no damage of fan cage and blades	Х	Х				
Inspect presence/condition of heat protection on coolant hose from cylinder 2		х				
Inspect coolant overflow tank for correct coolant level, secure installation, no chafing	х	Х				
Inspect for secure attachment of thermostat, presence of earth cable, no leaks, damage or chafing		х				
Propeller						
Inspect propeller blades for cracks, delamination or	.,	.,				
impact damage	Х	Х				
Remove and inspect spinner (if fitted), inspect				61-10-00 4-1		
spinner mounting plate general condition, secure installation, no cracks.	Х	Х				
Inspect propeller to frame clearance	х	х	5cm minimum			
		_			_	

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Service Worksheet

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Date:

Service interval:	Worksheet no. (If require	no. (If required/used):					
HTC: Perform a visual inspectio	n of the hub.						
Ensure safety paint on head of							
broken (if applied).		Х	Х	15Nm			
Check torque flange bolts and r	e-apply paint if			25			
required	c app., pac						
HTC: Inspect leading edge prote	ective tane (if fitted)					1	
for air bubbles, lifted edges or o		Х	Χ				
HTC: Ensure all blades have the				AG propeller	61-10-00 5-1		
HIC. Elisure all blades flave the	same pitch		Χ	pitch gauge	01-10-00 3-1		
IVO: Inspect blades for loose pi	tch lover (tan test)			pitcirgauge			
condition of contact plate brush		x	Х	40Nm			
		^	^	4011111			
between blades if fitted. Check							
IVO: Inspect leading edge prote	ection for lifted edges	Х	Χ				
or deterioration			.,			1	
IVO: Inspect cable routing, ensu			Х			1	
Refit spinner (if applicable) usir	ng AG-BAS-02 Loctite	Х	Х				
243							
Engine and Accessories							
NOTE: All engine checks to be		ce with ma	anutactur	er's instructions.			
Include supplementary proced					_	1	
Inspect starter battery for secu					1		
cracks, chafing leaks, oxidizatio	n, pole cover, Charge		Х				
state/condition.							
Inspect the engine mounting ri	~						
installation, no chafing, distorti	on, cracks or missing		Х	40Nm			
paint.			,	1011111			
Check torque 4 ring mount to e							
Inspect exhaust system general							
installation, no leaks, cracks (ta	p test) or loose rivets.						
Inspect presence and condition	of retaining springs						
and safety cable.			Χ				
Ensure the sliding joint is free t	o move at exhaust						
manifold from cylinder 1.							
Lube with anti-seize or copper	paste						
Inspect the silencer for secure i	nstallation of clamps,						
rivets and lock wire. Ensure loc	k wire passes through		Χ				
clamp screw housing and slot in							
Ensure wire locking is present of							
Oil tank drain plug							
Oil sump drain plug			.,				
Carb air filters		Х	Х		1		
Oil pump					1		
Magnetic plug (after the first 10	OOhr service)				1		
Ensure choke and throttle lever							
stop to stop, and that turbo de			.,				
felt. Ensure cables are mechani		Х	Х		1		
Lube lever joints	, ,				1		
Inspect clearance between airb	ox (if fitted) and				71-20-00 6-1		
engine mounting frame	,,	Х	Х				
Supplementary procedure: Oil	change:						
On draining all oil, ensure it is r	_						
micron filter paper, attach pho			Х				
protocol					1		
Supplementary procedure: Ins	pection of magnetic					1	
plug:	position of magnetic				1		
Attach a photo of the magnetic	nlug hefore cleaning		Χ		1		
to this protocol	Pide before ciculing						
Supplementary procedure: Ins	nection of oil filter:				 		
Attach a photo of the paper me					1		
filter to this protocol	Ir om the eat open		Χ		1		
inter to this protocol							
						1	1

Ac Works nr:		Calidus Periodic Service Worksheet		Ac Registration:
Service interval:	Worksheet no. (I	f required/used):	Date:	

Supplementary procedure: Refilling of oil: Record type of oil used to refill in the Work Report		х	
Finalization Work			
Assemble the rotor system on the aircraft and lube	Х	Х	62-11-00 4-4
teeter assembly through grease nipple		,	
Carry out a tool and loose article check	Χ	Х	
Ensure all service covers and cowlings are re-installed	Х	Х	52-40-00 0-1
			52-00-00 4-1
Securely tie down the aircraft and carry out a ground	V	х х	MM 05-60-00
run	^		AG-F-PGR-CD
Carry out a test flight if required	Х	Х	
Ensure all log book entries are completed	Х	Х	
appropriately, and service record updated	^	^	
Carry out any other documentation requirements by	Х	Х	
the countries Airworthiness Administration	^	^	

Tasks completed by (Name):		Engine hours logged:
Signature:	Initials:	Airframe hours logged:
Date:		
The technical content of	of this document should be approv	ved with the national Airworthiness Authority as required.
pages) has been comp	The work recorded above (all leted to my satisfaction and in ft is considered fit for flight.	Comments:
Signature:	Initials:	
Date:		
Inspector or licence nu Dated:	ımber (if required):	