

Service interval:

Worksheet no. (If required/used):

Date:

whichever is appropriate. All work is to be carried out in line with the latest Mai	ntenance	Manual	MTO 2017 available	e on the AutoGyro	website.	
Most of the checks and serviceability are 'on condition						
acceptable for service.	holt sins i	f not stat	ad in the instruction			
All torque figures are standard torques for the screw/	25h	1		MM	Future No.	Initials
Task Description	250	100h	Other	Chapter/Job	Entry Nr in Work	mitials
				Card Reference	Report	
Aircraft Preparation				cara hererence	Report	
If necessary, carry out an acceptance check flight of						
the aircraft	х	Х				
Clean aircraft. Remove dirt, dust, leaked fluids and	х	х		12-30-00		
loose items	^	^				
Identify all relevant				http://www.auto		
<ul> <li>Airworthiness Directives (AD)</li> </ul>	х	х		-gyro.com		
- Service Bulletins (SB)	X	~				
for airframe (AutoGyro) and power plant (ROTAX)						
Examine historical / Maintenance Records and Log						
Book. Identify:						
-Time Change Items (TCI)	х	х				
-Due dates for replacements, overhauls and special						
activities						
-Reported problems						
Note / check all						
- Serial Numbers						
- Manufacturer Life Limits (MLL/SLL)						
- Airworthiness Limitations (AWL)	х	х				
- Inspection/Overhaul Time Limits (TBO)						
according to Event & Configuration Log (AG-F-ECL),						
respectively Inspection Protocol Cover Sheet (AG-F-PCS).						
				52-40-00 2-1		
Remove and inspect all service covers/maintenance access covers	х	Х		52-40-00 2-1		
Remove and inspect body cowlings and rear seat	х	х		52-40-00 4-1		
Rotor System	X	~		52 40 00 4 1		
Check teeter angle	х	Х	14° +/-1°	62-11-00 3-1		
Remove rotor	X	X		62-11-00 4-1		
Inspect rotor	X	X		62-11-00 6-1		
Rotor system II (8.4m & 8.8m) or (8.4m & 8.8m			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 8 rotor hub bolts			200hrs/ 2yr	62-11-00 6-3		
Nose Gear						
Inspect nose wheel general condition, correct						
pressure, condition of tread, correct seating of valve/	х	х				
cap, secure installation and no play in wheel bearing.						
Inspect wheel bearing for smooth operation						
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				
and correct operation						
Cockpit		1				
Inspect wiring and pitot/static lines general						
condition, correct attachment, absence of chafing,	х	х				
tears cracks, hardening, kinks or sharp changes of						
direction	1	1			1	



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Task Description	25h	100h	Other	MM	Entry Nr	Initials
				Chapter/Job Card Reference	in Work Report	
Replace or dry compressor humidity filter as				36-21-00 8-1	кероп	
appropriate for environmental conditions		Х		50 21 00 0 1		
Carry out a full functional check of the pneumatic				36-00-00 5-1		
system.						
Ensure pneumatic system holds pressure in		V	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	x				
cockpit mountings	~	~				
Carry out a functional check of backup fuel pump if	х	х				
fitted						
Carry out a functional check of strobes if fitted	X	X				
Carry out a functional check of nav lights if fitted	X	X				
Carry out a functional check of landing lights if fitted	Х	X		24.40.00 5.2		
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 (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		51-20-00 5-2		
Ensure all glass cockpit instrument ranges compare						
with those in the TADS, if fitted		Х				
Nose gear/rudder control run						
Inspect the setup of rudder and pedals			835mm +/-	27-20-00 5-1		
		V	10mm			
		X	MT03 940mm			
			+/-10mm ?			
Inspect pedals for freedom of movement.	Х	Х				
Inspect push-pull cables (PPCs) for secure	х	х				
installation, no play, no chafing.	^	^				
Inspect all cable pulleys for free rotation, security	х	х				
and wear	~	~				
Inspect security of all rudder control run securing	х	х				
bolts and locknuts						
Inspect upper rudder attachment point bush for	х	х	0.2mm			
freedom of movement in the attachment plate						
Inspect tail plane security to airframe bolt torque	Х	Х				
Inspect tail and rudder for signs of composite	х	х				
damage, particularly at joints and welds	v	v				
Inspect security of rudder trim tab Flight Control	Х	X		· · · · · · · · · · · · · · · · · · ·	l	
Inspect play in the rotor head control system	Х	x	5mm	67-00-00 6-1		
Inspect forward (and rear if installed) flight control	^	^	511111	07-00-00 0-1		
stick(s) general condition, freedom and full range of				I		
movement, secure installation, cable routing, no	Х	Х				
damage or chafing						
Inspect radial bearings in control stick base fork for		L				
wear or damage	Х	Х		I		
Inspect main control rod and ball joints general	l			67-00-00 6-1		
condition, freedom of movement, secure installation,	х	х				
damage or deformation						
Inspect bolts of flight control base link. Replace if			200hr			
required			20011			
Inspect for freedom of movement of base link	Х	Х		67-00-00 6-2		
Inspect radial bearings in base link for wear or		x		67-00-00 6-2		
damage						

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AG-F-PCA-MTO217-EN-V1



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Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
Inspect condition of push rods and eye ends for damage distortion, corrosion, freedom of movement, cracks, wear		x				
Airframe/Fuselage						1
Inspect forward seat general condition, secure installation, no damage and freedom of movement of the hinges	х	x				
Inspect forward seat adjustment mechanism general condition, secure, damage and correct locking in every position	х	x				
Inspect all forward seatbelt mounting points for tightness and security	х	х				
Inspect forward seatbelt for damage or frays and security of buckles		x	Manufacturers recommend'n 10yr			
Inspect rear seat general condition, secure installation, damage and freedom of movement of the hinges	х	x				
Inspect rear seat adjustment mechanism general condition, secure, no damage and correct locking in every position	х	x				
Inspect all rear seatbelt mounting points for tightness and security	х	х				
Inspect rear seatbelt for damage or frays and security of buckles		x	Manufacturers recommend'n 10yr			
Inspect Instructor mag switches (if installed) for security & presence of safe-guards	х	х				
Inspect front windshield general condition, cleanliness, no cracks. Confirm presence of slip indicator	х	x				
Inspect rear windshield general condition, cleanliness, no cracks	х	х				
Inspect airframe for damage, malalignment, deformation or cracks (especially at welded joints at the mast root		x		53-00-00 6-1		
Inspect upper mast assembly for security, no cracks, distortion		x				
Inspect correct torque of frame to upper mast attachment bolts		х	70Nm			
Inspect mast rubber mounting bushes. Enter movement values on the Additional Work Report sheet		x	Initially at 2yrs or 200hr, then every 100hr	62-51-00 6-1		
Inspect all frame to fuselage assembly points for security	х	х				
Inspect all fuselage panels general condition, no cracks, deformation of missing components	х	х		52-00-00 4-1		
Inspect nose storage access cover fitted/camlocs secure & operate correctly, no cracks, damage or deformation	х	x				
Inspect keel tube general condition, secure installation, weld seams, no cracks		x				
Inspect the engine mounting brackets general condition, no cracks or distortion		x				
Inspect the engine mounting bushes for secure installation and condition of rubber		x	5yr			
Pitot-Static System			I			
Inspect pitot/ram air tube general condition, secure	х	Х				
-	Х	X				



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Date:

Task Description	25h	100h	Other	ММ	Entry Nr	Initials
				Chapter/Job Card Reference	in Work Report	
installation						
Inspect static lines general condition, secure				34-10-00 7-1		
installation, no obstructions, no leaks.	Х	Х		34-10-00 5-1		
Clean and dry static lines as required						
Main Gear and Brakes			-			
Remove the main undercarriage spar to fuselage						
forward attachment bolts individually and check for			Initially at 2yr,			
corrosion. Replace if required. Re-assemble and			then annually			
tighten						
Inspect main undercarriage spar and attachments to						
airframe for damage or fatigue, no cracks or	Х	Х				
deformation						
Inspect main wheels general condition, correct						
pressure, condition of tread, correct seating of valve						
and cap, secure installation and no play in wheel	х	х				
bearing.						
Inspect wheel bearing for smooth operation.						
Ensure slip mark is present and aligned						
Inspect wheel spats for secure installation and	х	х				
general condition, no cracking (if fitted)						
Inspect brake lines for secure installation, no leaks,	х	х				
no chafing						
Inspect wheel callipers for secure installation and	х	х		32-40-00 2-1		
freedom of operation, no leaks						
Inspect brake pads for wear (wear mark/groove must		x		32-40-00 8-2		
be visible) and condition						
Inspect brake disc condition and security of 4 x						
attachment screws.		X				
Check torque						
Inspect the throttle/brake unit for correct operation,		I		76-10-00 8-1		
secure installation, condition of ratchet teeth, brake		X				
fluid level, no leaks. Replenish fluid as required						
Pre-rotator		1				-
Inspect the pneumatic clutch correct operation,				63-11-10 5-1		
secure installation, pneumatic connections, no wear		X		63-11-10 6-1		
or chafing				C2 44 40 C 4		
Inspect front dog gear (clutch side) and rear dog gear		х		63-11-10 6-1		
(engine side) general condition, no cracks				62.44.40.4.2		
Connect a manometer to the clutch pressure line				63-11-10 4-2		
using a T-connector and note time to pressurize (0 to		X				
5 bar within 10 sec.). Inspect the pre-rotator drive shaft with sliding shaft						
coupling general condition, secure installation,			*Liquid Moby IM			
smooth operation, no cracks (especially at the flanges), distortion or play in bearing.	x	x	*Liquid Moly LM 47 MoS2			
Lubricate the sliding shaft joint*.	^	~	(45506)			
Protect steel parts (shafts and cardan joints) with			(45500)			
chain wax, cavity spray or equivalent						
Inspect angle gearbox and mounting brackets general						
condition, secure installation, no cracks, smooth		x				
running, no leaks						
Inspect pre-rotator upper engagement.				63-11-30 6-1		
Inspect backlash.		x		0.5 11-20 0-1		
Lubricate with grease AG-GRS-01 (WHS2002)						
Rotor Head		L				
Inspect brake/trim cylinder secure installation, no		1				
damage		Х				
Inspect roll trim cylinder secure installation, correct		x				
					L	

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Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
function, no damage					-	
Inspect all hoses at the rotor head for absence of						
leaks, correct attachment, security, no chafing,		х				
hardening, kinks or sharp bends						
Renew teeter tower/bearing assembly			1500hr			
Inspect rotor head bridge. Carry out a torque check			Minimum	62-31-00 6-1		
of the main bolt. Refit split pin		X	120Nm			
Inspect rotor head gimbal for correct operation and				62-32-00 6-1		
secure installation of all attached parts.			<b>Fwd</b> : -5.5°			
Record controlled angles on Additional Work		x	<b>Rear</b> : 17.5°			
Report.			Right: 7°			
Lube AG-GRS-01 (WHS2002)			Left: 9°			
Inspect teeter bolt & bushes for damage, wear,						
corrosion. Service/lube	Х	Х				
Inspect three split pins present and secure	х	х				
Inspect forward and rear rotor brake pads for	~	~				
function & wear		X				
Protect steel parts with chain wax, cavity spray or						
equivalent		х				
Fuel System		L			L	
Inspect fuel tanks for security and correct	1	L				
installation.		Х				
Inspect fuel tanks general condition, no leaks,						
chafing, cracks or distortion.						
Inspect presence/condition of tank level markings.		x				
Inspect correct operation and display of fuel gauge to						
tank contents (if fitted)						
Inspect tank interior for foreign debris. Remove if found	Х	Х				
				28 20 00 5 1		
Inspect functionality of low level warning light if fitted		Х		28-20-00 5-1		
	V					
Inspect fuel venting lines condition and routing	Х	Х				
Inspect fuel water contamination drains absence of		х				
leaks						
Inspect fuel tank cap for seal deterioration & security		x				
of fit						
Inspect breather pipe filter for blockages		Х				
Inspect all pipes & hoses of the fuel system for						
secure installation, presence of fire protective sleeve		x				
(if fitted), no cracks, chafing, kinks or sharp direction						
changes, deterioration or hardening.						
Replace nylon & F5273 fuel filter if contaminated.			Recommended	28-20-00 6-1		
Replace as pair			500hr/3Yr or on	28-20-00 8-1		
			condition			
Inspect and clean electric fuel pump internal filter(s)		x		28-20-00 6-1		
if fitted				28-20-00 8-1		
Oil System						
Inspect oil cooler general condition, secure						
installation, cleanliness, no leaks, chafing, damage or		X				
deformed fins		ļ				
Inspect all hoses and pipes of the oil system for						
secure installation, no leaks, chafing, tears/cracks,						
hardening, kinks or sharp direction changes.		x				
Inspect firm seating of hoses on the fittings.						
Ensure all rubber hoses comply with the 5 year						
renewal recommendation						
Inspect thermostat assembly for secure attachment,		x				
no cracks, leaks or porous hoses						



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Task Description	25h	100h	Other	MM	Entry Nr	Initials
	2511	10011	Other	Chapter/Job Card Reference	in Work Report	mitials
Coolant System				card Reference	Report	
Inspect all hoses and pipes of the coolant system for		1				
secure installation, no leaks, chafing, tears/cracks,						
hardening, kinks or sharp direction changes.		X				
Inspect firm seating of hoses on the fittings.						
Inspect radiator general condition, secure						
installation, cleanliness, no leaks, chafing, damage or		Х				
deformed fins						
Inspect presence/condition of heat protection on		x				
coolant hose from cylinder 2		^				
Inspect water thermostat for secure attachment,		x				
presence of earth cable, no leaks, damage or chafing						
Propeller	ł	ł		1	1	
Inspect propeller blades for cracks, delamination or	х	x				
impact damage	~	~				
Inspect spinner (if fitted) with spinner mounting				61-10-00 4-1		
plate general condition, secure installation, no						
cracks. Remove one spinner attachment screw and		x				
confirm secured with Loctite 243. Refit using Loctite						
243. If necessary, re-apply Loctite 243 to all screws						
and re-tighten. Inspect propeller to frame clearance	X	x	5cm minimum	-		
HTC: Perform a visual inspection of the hub.	^	^	Schrinnlinnun			
Ensure safety paint on head of bolt to hub is not						
broken (if applied).	x	x	15Nm			
Check torque flange bolts and re-apply safety paint if	~	~	151411			
required						
HTC: Inspect leading edge protective tape (if fitted)						
for air bubbles, lifted edges or deterioration	Х	Х				
HTC: Ensure all blades have the same pitch			AG propeller	61-10-00 5-1		
		X	pitch gauge			
IVO: Inspect blades for loose pitch torsion rod (tap						
test), condition of contact plate brushes and tension	x	x	40Nm			
strips between blades if fitted. Check torque flange	^	^	4010111			
bolts						
IVO: Inspect leading edge protection for lifted edges	х	x				
or deterioration						
<b>IVO:</b> Inspect cable routing at arm, ensure secure		Х				
Engine and Accessories			• • •			
NOTE: All engine checks to be carried out in accordan	ce with m	anufactur	er's instructions.			
Include supplementary procedures below.						[
Inspect starter battery for security, deformation,		x				
cracks, chafing leaks, oxidization, pole cover, Charge state/condition.		^				
Inspect the engine mounting ring frame for secure						
installation, no chafing, distortion, cracks or missing						
paint.		Х	40Nm			
Check torque 4 ring mount to engine securing bolts						
Inspect exhaust system general condition, secure						
installation, no leaks, cracks (tap test) or loose rivets.				1		
Inspect presence and condition of retaining springs						
and safety cable. Replace as required.		x				
Ensure the sliding joint is free to move at exhaust				1		
manifold from cylinder 1.				1		
Lube with anti-seize or copper paste						
Inspect the silencer for secure installation of clamps,						
rivets and lock wire. Ensure lock wire passes through		x				
clamp screw housing and slot in screw head		1				



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Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
Ensure wire locking is present on:						
Oil tank drain plug						
Oil sump drain plug	x	x				
Carb air filters	^	^				
Oil pump						
Magnetic plug						
Ensure choke and throttle levers move freely from						
stop to stop, and that turbo detent can be positively	v	v				
felt. Ensure cables are mechanically synchronised.	Х	Х				
Lube lever joints						
Inspect clearance between airbox (if fitted) and				71-20-00 6-1		
engine mounting frame	Х	Х				
Supplementary procedure: Oil change:						
On draining all oil, ensure it is run through a 190						
micron filter paper, attach photo of findings to this		Х				
protocol						
Supplementary procedure: Inspection of magnetic						
plug:						
Attach a photo of the magnetic plug before cleaning		Х				
to this protocol						
Supplementary procedure: Inspection of oil filter:						
Attach a photo of the paper mesh from the cut open		х				
filter to this protocol		~				
Supplementary procedure: Refilling of oil:						
Record type of oil used to refill on the Supplementry		х				
Work Report		~				
Finalization Work						
Assemble the rotor system on the aircraft and lube				62-11-00 4-4		
teeter assembly through grease nipple	Х	Х		02 11 00 1 1		
Carry out a tool and loose article check	х	Х				
Ensure all service covers are re-installed	X	X				
Securely tie down the aircraft and carry out a ground	^	^		MM 05-60-00		
run	Х	Х		AG-F-PGR-CD		
	x	x				
Carry out a test flight if required	^	^				
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						

Ac	Works	nr:



# MTO 2017 Periodic **Service Worksheet**

Worksheet no. (If required/used):

Tasks completed by (Name):		Engine hours logged:
Signature:	Initials:	Airframe hours logged:
Date:		
The technical content of this do	cument should be approv	ed with the national Airworthiness Authority as required.
Maintenance Release: The wor		Comments:
pages) has been completed to	-	
that respect the aircraft is cons	sidered fit for flight.	
Signature:	Initials:	
Date:		
Inspector or licence number (if Dated:	required):	