Ac Works nr:		T	MT Series Period	ic		Ac Registration:
	GY	20	Service Workshe	et		
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 MTO Sport 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 Chambar (Lab	Entry Nr	Initials
				Chapter/Job Card Reference	in Work Report	
Aircraft Preparation						
If necessary, carry out an acceptance check flight of	V	V				
the aircraft	Х	Х				
Clean aircraft. Remove dirt, dust, leaked fluids and	Х	V		12-10-00		
loose items	^	Х				
Identify all relevant				http://www.auto		
- Airworthiness Directives (AD)	х	х		-gyro.com		
- Service Bulletins (SB)	^	^				
for airframe (AutoGyro) and power plant (ROTAX)						
Examine historical / Maintenance Records and Log						
Book. Identify:						
-Time Change Items (TCI)	х	x				
-Due dates for replacements, overhauls and special	^	^				
activities						
-Reported problems						
Note / check all						
- Serial Numbers						
<ul> <li>Manufacturer Life Limits (MLL/SLL)</li> </ul>						
- Airworthiness Limitations (AWL)	х	x				
<ul> <li>Inspection/Overhaul Time Limits (TBO)</li> </ul>	^	^				
according to Event & Configuration Log (AG-F-ECL),						
respectively Inspection Protocol Cover Sheet						
(AG-F-PCS).						
Measure dimension D1. Record in Work Report and				08-20-00 2-1		
ECL (AG-F-ECL). Compare with previous readings if	Х	Х			1	
available						
Remove and inspect all service covers/maintenance	V	V		52-40-00 2-1		
access covers/cowlings	Х	Х				
Rotor System						
Check teeter angle	Х	Х	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		X		62-11-00 4-2		
and inspect		^		62-11-00 6-2		
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/	v	v				
cap, secure installation and no play in wheel bearing.	Х	Х				
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 springs for security & signs of						
fretting/potential breakage. MT03 only	Х	Х				
S.,						

Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
Cockpit				- Cara Hererenee	перен	
Inspect wiring and pitot/static lines general		T				
condition, correct attachment, absence of chafing,						
tears cracks, hardening, kinks or sharp changes of	Х	X				
direction						
Replace or dry compressor humidity filter as		, , , , , , , , , , , , , , , , , , ,		36-21-00 8-1		
appropriate for environmental conditions		X				
Carry out a full functional check of the pneumatic				36-00-00 5-1		
system.						
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	_ ^	^				
Carry out a functional check of backup fuel pump if	V	V				
fitted	Х	X				
Carry out a functional check of strobes if fitted	Х	Х				
Carry out a functional check of nav lights if fitted	Х	Х				
Carry out a functional check of landing lights if fitted	Х	Х				
Carry out a functional check of front (and rear if				34-10-00 5-2		
fitted) Air Speed Indicator		X				
Ensure altimeter is calibrated to QNH/ambient				31-20-00 5-1		
pressure		Х				
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		X				
Inspect security of landing light shield (if fitted )		X				
Nose gear/rudder control run						
Inspect the setup of rudder and pedals		Т	MTO Sport	27-20-00 5-1	1	
inspect the setup of rudder and pedals			860mm +/-	27-20-00 3-1		
		X	10mm			
		^	MT03 920mm			
			+/-10mm			
Inspect pedals for freedom of movement.	Х	Х	17 10111111			
Ensure turnbuckle wire locking or heat-shrink tubing	^					
is present and undamaged. Apply if not fitted	Х	Х				
Inspect rudder cables for fraying, corrosion, wear or						
chafing along complete length	Х	Х				
Inspect all cable pulleys for free rotation, security		1				
and wear	Х	Х				
Inspect rudder control cable tension		Х	35lbs +/-5lbs	27-20-00 5-2		
		^	33105 +/-3105	27-20-00 3-2		
Inspect security of all rudder control run securing bolts and locknuts	Х	Х				
Inspect upper rudder attachment point bush for	Х	X				
freedom of movement in the attachment plate	Х	X		-		
Inspect tail plane security to airframe bolt torque	_ ^	_ ^				
Inspect tail and rudder for signs of composite	Х	Х				
damage, particularly at joints and welds	,	<b>+</b> .,		-		
Inspect security of rudder trim tab	X	X				
Flight Control	1	1		L == 00 0 = = :		
Inspect play in the control system	Х	Х		67-00-00 6-1		
Inspect forward (and rear if installed) flight control						
stick(s) general condition, freedom and full range of	X	Х				
movement, secure installation, cable routing, no					1	

Ac Works nr:		<b>MT Series Periodic</b>		Ac Registration:
	GYRO	Service Worksheet		
Sarvica interval:	Worksheet no. (If	required/used):	Dato	•

Task Description	25h	100h	Other	MM Chapter/Job	Entry Nr in Work	Initials
damage or chafing				Card Reference	Report	
damage or chafing						
Inspect radial bearings in control stick base fork for wear or damage	Х	Х				
Inspect main control rod and ball joints general				67-00-00 6-1		
condition, freedom of movement, secure installation,	Х	X				
damage or deformation Inspect bolts of flight control base link. Replace if						
required			200hr			
Inspect for freedom of movement of base link	Х	Х		67-00-00 6-2		
Inspect radial bearings in base link for wear or				67-00-00 6-2		
damage		X				
Inspect condition of push rods and eye ends for						
damage distortion, corrosion, freedom of movement,		Х				
cracks, wear						
Airframe/Fuselage		1				
Inspect forward seat general condition, secure	Х	Х				
installation, damage						
Inspect all seatbelt mounting points for tightness and security	Х	Х				
Inspect forward seatbelt for damage or frays and			Manufacturers			
security of buckles		X	recommend'n 10yr			
Inspect rear seat and hinges general condition,	.,	.,	- /			
secure installation, damage	Х	X				
Inspect all seatbelt mounting points for tightness and	Х	х				
security	^	^				
Inspect rear seatbelt for damage or frays and security			Manufacturers			
of buckles		X	recommend'n			
Inchest Instructor man switches (if installed) for			10yr			
Inspect Instructor mag switches (if installed) for security & presence of safe-guards	Х	Х				
Inspect front windshield general condition,						
cleanliness, no cracks.	X	X				
Confirm presence of slip indicator						
Inspect rear windshield general condition,	· ·					
cleanliness, no cracks	Х	Х				
Inspect airframe for damage, malalignment,				53-00-00 6-1		
deformation or cracks (especially at welded joints at		Х				
the mast root						
Inspect security of fuselage to frame at all	Х	Х				
attachment points Inspect fuselage general condition, no cracks,						
damage	Х	Х				
Ensure nose luggage access cover fitted/camlocs						
secure & operate correctly	Х	Х				
Inspect keel tube general condition, secure		.,				
installation, weld seams, no cracks		X				
Inspect the engine mounting brackets general		Х				-
condition, no cracks or distortion		_ ^				
Inspect the engine mounting bushes for secure		X	5yr			
installation and condition of rubber			<u>'</u>			
Pitot-Static System	1	I		I		
Inspect pitot/ram air tube general condition, secure installation	Х	Х				
Inspect static ports (if fitted) general condition,	<del> </del>			34-10-00 7-1		
secure installation, no obstructions, no leaks.				34-10-00 5-1		
Clean and dry static lines as required	Х	X				

Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
Main Gear and Brakes				cara nererence	пероп	
Remove the main spar to fuselage attachment bolts individually and check for corrosion. Replace if required			Initially at 2yr, then annually (15Nm)			
Inspect landing gear spar and attachments to airframe for damage or fatigue (cracks & deformation)	х	х				
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	х	X				
Inspect wheel spats for secure installation and general condition, no cracking (if fitted)	Х	Х				
Inspect brake lines for secure installation, no leaks, no chafing	Х	Х				
Inspect wheel callipers for secure installation and freedom of operation, no leaks	х	х		32-40-00 2-1		
Inspect brake pads for wear (wear mark/groove must be visible) and condition		Х		32-40-00 8-2		
Inspect brake disc condition and security of 4 x attachment screws.  Check torque		х				
Inspect the throttle/brake unit for correct operation, secure installation, condition of ratchet teeth, brake fluid level, no leaks. Replenish fluid as required		Х		76-10-00 8-1		
Pre-rotator					•	T
Inspect clutch pulley alignment and condition		Х		63-11-10 6-1		
Inspect security of pneumatic cylinder and mountings		X				
Inspect play of small pulley/bearing With belt unloaded, cycle by hand through full range. Check drive shaft joints for free movement and	х	X		63-11-10 4-2		
bearings for play With belt unloaded, cycle by hand through full range. Inspect drive shafts for distortion or damage	Х	Х				
Inspect drive belt for damage or splits	Х	Х		63-11-10 8-1		
Inspect belt guides and pulley brake for wear		Х				
Inspect retraction spring and support for damage or cracks		х				
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 using very low friction splined shaft lubricant*	х	х	*Liquid Moly LM 47 MoS2 (45506)			
Inspect slider gaiter (if fitted) for splits/porosity, replace if required	Х	Х				
Inspect angle gearbox and mounting brackets general condition, secure installation, no cracks, smooth running, no leaks		Х				
Inspect clearance of trim cylinder to pre-rotator drive shaft through full range of rotor head movement	Х	Х				
Inspect pre-rotator upper engagement. Inspect backlash.		х		63-11-30 6-1		
Protect steel parts with chain wax, cavity spray or equivalent		х				

Task Description 25h 100h Other				MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
Rotor Head	l		I			
Inspect mast hang point bolt torques (x3)		Х		62-51-00 6-1		
Inspect hang point, no deformation, no cracks		, , ,				
(especially at welds)		X				
Inspect all hoses for leaks, correct attachment,		, , ,				
secure. Inspect trim cylinder(s) for security, damage		X				
Ensure correct operation of roll trim (if fitted)	Х	Х				
Renew teeter tower/bearing assembly			1500hr			
Inspect rotor head bridge. Carry out a torque check		V	Minimum	62-31-00 6-1		
of the main bolt. Refit split pin		X	120Nm			
Inspect rotor head gimbal for correct operation and			F d. 10	62-32-00 6-1		
secure installation of all attached parts.			Fwd: -1° Rear: As noted			
Record controlled angles on Work report.			under 'Task			
MTO3: 16°		Х	Description'			
MTO Sport Pre GKS: 18°			Right: 7°			
MTO Sport GKS: 20°			Left: 9°			
Lube AG-GRS-01 (WHS2002)			Leit. 9			
Only gimbal head II (spring washers). Measure				62-32-00 5-1		
breakout force at forward control stick grip. Adjust as		Х				
required. Lube						
Inspect teeter bolt & bushes for damage, wear,		X				
corrosion. Service/lube		^				
Inspect three split pins present and secure	Х	Х				
Inspect rotor brake pad for function & wear		Х				
Lubricate rotor brake pivot		Х				
Protect steel parts with chain wax, cavity spray or		x				
equivalent		_ ^				
Fuel System					ı	
Inspect fuel tanks for security and correct						
installation.		l x				
When empty they should have light movement using						
hand pressure						
Inspect fuel tanks general condition, fuel level		l				
indication (if fitted), no leaks, chafing, cracks or		X				
distortion						
Inspect tank interior for foreign debris. Remove if	Х	Х				
found						
Inspect functionality of low level warning light if		X		28-20-00 5-1		
fitted		· · ·				
Inspect fuel venting lines condition and routing	Х	Х				
Inspect fuel water contamination drains have no		х				
leaks Inspect fuel tank caps for seal deterioration &		-				
		Х				
security of fit Inspect breather pipe filter for blockages		X				
Replace breather pipe filter			Pacammandad			
Replace breather pipe filter			Recommended 3Yr or on			
			condition			
Inspect all pipes & hoses for secure installation,			CONDITION			
presence of fire protective sleeve (if fitted), no						
cracks, chafing, kinks or sharp direction changes,		l				
deterioration or hardening.		Х				
Ensure all rubber hoses comply with the 5 year		l				
renewal recommendation						
Replace nylon & KL45 fuel filter if contaminated.			Recommended	28-20-00 6-1		
Replace as pair			500hr/3Yr or on	28-20-00 8-1		
			condition	-5 -5 55 51		
Inspect and clean electric fuel pump internal filter(s)		Х	333161011	28-20-00 6-1		

Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
if fitted				cara nererence	Кероге	
Oil System						
Inspect oil cooler general condition, secure						
installation, cleanliness, no leaks, chafing, damage or		X				
deformed fins		_ ^				
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				
Ensure all rubber hoses comply with the 5 year						
renewal recommendation						
Inspect thermostat assembly for secure attachment,						
		Х				
no cracks, leaks or porous hoses						
Coolant System			I	1	I	
Inspect all hoses and pipes of the coolant system for						
secure installation, no leaks, chafing, tears/cracks,		Х				
hardening, kinks or sharp direction changes.						
Inspect firm seating of hoses on the fittings.						
Inspect radiator(s) general condition, secure		l .,				
installation, cleanliness, no leaks, chafing, damage or		X				
deformed fins						
Inspect presence/condition of heat protection on		X				
coolant hose from cylinder 2		^`				
Non water thermostat version: Ensure expansion						
tank is mounted 'floating' to prevent						
fretting/chafing. Ensure rubber protection is present						
on underside and check condition.		X				
Water thermostat version: Inspect for secure						
attachment, presence of earth cable, no leaks,						
damage or chafing						
Propeller						
Inspect propeller blades for cracks, delamination or	Х	х				
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						
Inspect propeller to frame clearance	Х	Х	5cm minimum			
HTC: Perform a visual inspection of the hub.						
Ensure safety paint on head of bolt to hub is not						
broken (if applied).	Х	Х	15Nm			
Check torque flange bolts and re-apply paint if						
required						
HTC: Inspect leading edge protective tape (if fitted)	1	1 .			1	
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 lever (tap test),			F. 2011 0 2 4 9 C		<u> </u>	
condition of contact plate brushes and tension strips	х	х	40Nm			
between blades if fitted. Check torque flange bolts		^	7011111			
<b>IVO:</b> Inspect leading edge protection for lifted edges	1	1			<del> </del>	
or deterioration	Х	Х				
		Х				
IVO: Inspect cable routing at arm, ensure secure		X				
Engine and Accessories	oo watele .					
NOTE: All engine checks to be carried out in accordance	ce with m	anutactur	er's instructions.			
Include supplementary procedures below.						
Inspect starter battery for security, deformation,		Х				

Task Description	25h	100h	Other	MM Chapter/Job Card Reference	Entry Nr in Work Report	Initials
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. Check torque 4 ring mount to engine securing bolts		х	40Nm			
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. Replace as required. Ensure the sliding joint is free to move at exhaust manifold from cylinder 1. Lube with anti-seize or copper paste		x				
Inspect the silencer for secure installation of clamps, rivets and lock wire. Ensure lock wire passes through clamp screw housing and slot in screw head		х				
Ensure wire locking is present on: Oil tank drain plug Oil sump drain plug Carb air filters Oil pump Magnetic plug	х	х				
Ensure choke and throttle levers move freely from stop to stop, and that turbo detent can be positively felt. Ensure cables are mechanically synchronised. Lube lever joints	Х	х				
Inspect clearance between airbox (if fitted) and engine mounting frame	Х	Х		71-20-00 6-1		
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		Х				
Supplementary procedure: Inspection of magnetic plug: Attach a photo of the magnetic plug before cleaning to this protocol		х				
Supplementary procedure: Inspection of oil filter: Attach a photo of the paper mesh from the cut open filter to this protocol		х				
Supplementary procedure: Refilling of oil: Record type of oil used to refill  Finalization Work		х				
Assemble the rotor system on the aircraft and lube teeter assembly through grease nipple	Х	х		62-11-00 4-4		
Carry out a tool and loose article check Ensure all service covers are re-installed	X	X				
Securely tie down the aircraft and carry out a ground run	Х	Х		MM 05-60-00 AG-F-PGR-CD		
Carry out a test flight if required	Х	Х				
Ensure all log book entries are completed appropriately, and service record updated	Х	Х				
Carry out any other documentation requirements by the countries Airworthiness Administration	Х	Х				

Ac Works nr:		MT Series Periodic		Ac Registration:
	GYRC	Service Worksheet		
Service interval:	Works	neet no. (If required/used):	Dat	e:

Tasks completed by (	Name):	Engine hours logged:
Signature:	Initials:	Airframe hours logged:
Date:		
The technical content	of this document should be approv	red with the national Airworthiness Authority as required.
Maintenance Release	e: The work recorded above (all	Comments:
pages) has been com	pleted to my satisfaction and in	
that respect the aircr	aft is considered fit for flight.	
Signature:	Initials:	
Date:		
Inspector or licence n	umber (if required):	
Dated:		