CHECK LIST/MAINTENANCE SCHEDULE

	Identification
AIRCRAFT	
Registration number	
Aircraft make	
Aircraft model and S/N	
Time since new	
Propeller	
Propeller brand	
Propeller model and S/N	
Governor brand	
Governor model and S/N	
ENGINE	
Engine type	
Engine S/N	
TSN (time since new)	
TSO (time since overhaul)	
Used operating fluids:	
Coolant	
mixture ratio	
Fuel	
Oil	
• type	
• viscosity	

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		ı	dentific	ation			
AIRCRAFT OPERATO	R						
Name							
Contact							
Address							
Telephone/Fax							
E-mail							
MAINTENANCE FACIL	ITY						
Maintenance workshop							
Address							
Telephone/Fax							
E-mail							
Certificate							
	1				·	T	T
This check is applicable (circle one)	25 hr.	50 hr. ⁽¹	100 hr.	200 hr.	400 hr.	600 hr.	1000 hr.
(1 leaded fuel more than	30% c	of opera	ition.				
Next check due at:							hr.
				(TS	SN		_) (engine hr.)

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MAINTENANCE SCHEDULE

Perform the following maintenance tasks at the intervals shown in the maintenance check list. See Chapter 05-20-00 section 25 hr. check.

Legend: X = do the task

blank = no task required

NOTE

If the tasks 1-3 are correct continue with the maintenance schedule.

If one of the tasks 1-3 is not fulfilled, the engine must be checked and repaired in accordance with the BRP Rotax instructions for continued airworthiness.

P	oints	of Insp	ection	ı		ln	terval	Operat	ting h	ours		Chapter Reference	Signa- ture
* no peri quireme of opera	nt afte			•	25*	50	100	200	400	600	1000		
						1) (Genera	l note					-
All (Alert) plied with these an	n. If ne	cessar	y, perfo	rm	Х	Х	Х	Х	Х	Х	Х		
All SI-PA and Acce GENUIN cessories craft are perform t execution	essorie E-RO s used compl these	es) for a TAX® - I on the ied with	addition - parts a relevai n. If nec	al and ac- nt air- essary,	X	X	X	X	X	X	X		
					2) Dif	feren	tial pro	essure	chec	k			
Check th ential pre Test pres	essure ssure_	metho	d. _hPa (psi)	X(1		X (1	Х				12–20–00 Checking the com- pression	
			or fract										
Cyl. #	1	2	3	4									
bar/ psi (1 use of of operat		d fuel m	ore tha	n 30%									

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* no periodic maintenance (requirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000				
3) Spark plug											
Check that resistance spark plug connectors fit tightly on the spark plugs. Minimum pull-off force is 30 N (7 lb).				X				12–20–00 Inspection of spark plugs			
Remove all spark plugs and check for spark plug defects (deposits, excessive wear melting) Replace if defective. Check if GENUINE ROTAX® spark plugs are used.	X		X					12–20–00 Remove the spark plugs			
Replacing spark plugs. (3 use of leaded fuel more than 30% of operation				X (3	Х			12–20–00 Installation of spark plug			
	4) Insp	ectin	g the	magne	tic plu	ıg					
Check the magnetic plug.	Х		Х					12–20–00 Inspecting the magnetic plug			
	5)	nspe	cting t	he oil	filter						
Remove old oil filter from engine. Cut old filter without producing any metal chips and inspect following components for wear and /or missing material. Perform filter mat inspection: Findings.	x	X(4	X					12–20–00 Inspection of the oil filter components			
(4 use of leaded fuel more than 30% of	opera	ation	-								
6) Visu	al ins	pectio	n of th	e eng	ine					
General visual inspection of the engine for damage or abnormalities. Check cooling air duct and cooling fins of the cylinders for obstruction, cracks, wear and good condition. Take note of changes caused by temperature influence.	X		X					12–20–00 Visual inspection			

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Points of Inspection		ln	terval	Operat	ting h	ours		Chapter Reference	Signa- ture
* no periodic maintenance (requirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000		
Inspect temperature sensors and oil pressure sensor for secure fit and signs of wear.	X		X						
Inspect all coolant hoses of the engine for damage, including leakage, hardening from heat, porosity, loose connections and secure attachment. Verify routing is free of kinks and restrictions.	X		X					12–20–00 Leakage check	
Carry out visual inspection of leakage bore at the base of the water pump for signs of leakage.	Х		Х					12–20–00 Leakage check	
Inspect the overflow bottle for damage and abnormalities. Verify coolant level, replenish as necessary. Inspect line from expansion tank to overflow bottle for damage, leakage and clear passage. Inspect venting bore in cap of overflow bottle for clear passage.	X		X					12–20–00 Overflow bottle	
Inspect all oil lines for damage, leakage, hardening from heat, porosity, security of connections and attachments. Verify routing is free of kinks and restrictions.	Х		Х					12–20–00 Leakage check	
Inspect all fuel lines for damage, leakage, hardening from heat, porosity, security connections and attachments. Verify routing is free of kinks and restrictions. Check steel fuel lines for any cracks and/or scuffing marks.	X		Х					12–20–00 Checking the fuel lines	
Inspect the wiring and its connections for secure fit, damage and signs of wear.	Х		Х					12–20–00 Check of wiring	
Inspect engine suspension and fasteners (GENUINE-ROTAX®-) for secure fit, including damage from heat, deformation, cracks.	X		X					12–20–00 Checking the engine suspension	

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Points of Inspection		ln	terval	Opera	ting h	ours		Chapter Reference	Signa- ture
* no periodic maintenance (requirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000		
Check the airbox (GENUINE-RO-TAX®-) incl. air flap actuation. Inspect sensors for tight fit, damage from heat, damage and signs of wear.	X		X						
Inspection of the GENUINE RO- TAX® exhaust system included in the standard delivery. Inspect the exhaust system for crack formation and uncharacteristic exhaust stains (leaks).	X		X						
NOTE									
If there is no GENUINE ROTAX® exhaust system in use, the specifications of the manufacturer must be observed.									
		7)	Oil ch	ange	•				
Drain oil from oil tank.	Х	X ⁽⁵	Х					12–20–00 Oil change	
Check the oil tank and clean the oil tank if contaminated.	Х	X (5	Х					12–20–00 Clean oil tank	
Refill oil tank with approx. 3 liters of oil. For oil quality, see Operators Manual latest edition.	Х	X(5	Х					12–20–00 Oil change	
Install new oil filter	Х	X (5	Х					12–20–00 Oil filter change	
(5 In case of operation with leaded fuel	e.g.: /	AVGA	S 100	LL					
	_								

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Points of Inspection		ln	terval	Opera	ting h	ours		Chapter Reference	Signa- ture
* no periodic maintenance (requirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000		
	8) Aux	iliary a	alterna	tor				
On configurations with auxiliary alternator, check the attachment and the V-belt tension.	X		X					12–20–00 Checking the V-belt tension	
	9) C	hecki	ng the	carbu	retors	i			
Checking the idle speed	Х		Х						
Checking the ventilation of the float chambers. Any trouble with the float chamber ventilation impairs engine and carburetor function and must therefore be avoided. Check that the passage of the ventilation lines is free and that no kinks can arise.				X					
Check for free movement of the carburetor actuation (throttle lever and starting carburetor). Check that the Bowden cable allows the full travel of the throttle lever from stop to stop.	Х		Х					12–20–00 Checking the carburet- or actuation	
Removal/assembly of the two carburetors for carburetor inspection.				Х				See Heavy MM Chap. 73–00–00	
Check carburetor synchronization. Mechanical and pneumatic synchronization.	Х		Х					12–20–00 Carburetor synchroniza- tion	
Check weight of floats.				Х				12–20–00 Check the weight of floats	

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Points of Inspection		ln	terval	Operat	ting ho	ours		Chapter Reference	Signa- ture	
* no periodic maintenance (requirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000			
10) Insp	ecting	carb	uretor	socke	ts and	drip	tray			
Inspect the carburetor sockets for damage and abnormalities, checking for cracks, wear and good condition. Take note of changes caused by temperature influence. See SB-912–030 — latest edition.				Х				See Heavy MM Chap. 73–00–00		
11) Ched	cking	the pr	opelle	r gear	box				
Checking the friction torque in free rotation on gearboxes with overload clutch. Actual friction torque Nm (in. lbs)	X		X					12–20–00 Checking the friction torque in free rotation		
Check gear set (pittings).							X	See Heavy MM Chap. 72–00–00		
Check wear on tooth of overload clutches.							Х	See Heavy MM Chap. 72–00–00		
Gearboxes with overload clutch Inspect overload clutch.						X ⁽⁵	X	05–50–00 Checking the overload clutch; 12-20-00 Checking the propeller gearbox		
(5 if overload clutch part no. 996886, without lead drain holes, is installed and use of leaded fuel more than 30% of operation. Engine type - S/N equipped with overload clutch without drain holes: 912 A up to S/N 4410612 incl. / 912 F up to S/N 4412860 incl. / 912 S up to S/N 4922983 incl. / 912 UL up to S/N 4405961 incl. / 912 ULS up to S/N 9574657 incl Please check your Maintenance Logs to verify if the overload clutch ever got changed during Maintenance/ Service or Overhaul.										
Checking the propeller gearbox without overload clutch.						X (7		05–50–00		

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Points of Inspection		Int	terval	Operat	ting h	ours		Chapter Reference	Signa- ture
* no periodic maintenance (requirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000		
⁽⁷ only for engine type 912 UL/ULS /ULSFR								Checking the overload clutch; 12-20-00 Checking the propeller gearbox	
1	2) Ch	eckin	g the d	ooling	g syste	em			
Inspect the expansion tank for damage and abnormalities. Check coolant level, replenish as necessary. Inspect radiator cap. Inspect protection rubber on expansion tank base for correct fit.	X		X					12–20–00 Expansion tank, radia- tor cap	
Flush the cooling system if large deposits on the expansion tank or radiator cap and/or if the coolant manufacturer required a change interval.		wh	ien rep	lacing [·]	the co	olant		12–20–00 Flushing the cooling system	
	,	13) Er	ngine d	leanir	ng				
Engine cleaning.	Х		Х					12–20–20 Engine cleaning	
14) Che	cking	the ai	r intak	e syst	tem			
Checking the air filter	X		Х					12–20–20 Checking air intake system	
	1	5) Liq	uid le	el che	ck				
Verify liquid level, replenish as necessary.	Х		Х					12–10–00 Fluid capacities	
	16) (Check	ing th	e idle s	speed				
Checking the idle speed.	Х		Х						

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Points of Inspection		Int	terval	Operat	ting h	ours		Chapter Reference	Signa- ture
* no periodic maintenance (re- quirement after the first 25 hours of operation)	25*	50	100	200	400	600	1000		
		17) E	ngine	test ru	n				
Observe the safety instructions!									
Start the engine and run to operating temperature. Limits see Operators Manual 912 Series. Ignition check at rpm engine speed. Speed drop without ignition circuit: A (Off) rpm B (Off) rpm A/B (difference) rpm Inspect carb heat system. Activate the preheating and make a note of speed drop. Speed drop rpm. Preheating "OFF", engine idle running and make a note of idle speed running rpm. After engine test run, re-tighten the oil filter by hand (only at cold engine). Checks for leaks.	X		X					12–20–00 Test run of engine	
Returning engine to service On the engine identified as per Check (please strike out not applicable interv Check athr. (TSN, TSO facturer and was recorded in the Engin Location, DatelnspectorAircraft mechanicCertificate No	rals) m _) was ne Log 	ainter carrie book	nance i ed out a	nterval	was p	erforn	ned.		ne manu-

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