

2-STROKE ROTAX® MAINTENANCE SCHEDULE

Checks & Work	2h	10h	12,5h	25h	50h	75h	100h	125h	150h	175h	200h	225h	250h	275h	300h
<input type="checkbox"/> Ground run				X											
<input type="checkbox"/> Level check of liquids	X														
<input type="checkbox"/> Retorque cylinder head nuts ¹	X														
<input type="checkbox"/> Retorque exhaust manifold screws ¹	X	X													
<input type="checkbox"/> Check rewind starter rope ¹⁰															
<input type="checkbox"/> Check electric starter gear					X		X		X		X		X		
<input type="checkbox"/> Inspect spark plugs ¹⁰			X												
<input type="checkbox"/> Replace spark plugs				X	X	X	X	X	X	X	X	X	X	X	
<input type="checkbox"/> Check ignition system				X											
<input type="checkbox"/> Check and clean inside spark plug caps ¹⁰			X												
<input type="checkbox"/> Checking of V - belt tension		X		X	X	X	X	X	X	X	X	X	X	X	X
<input type="checkbox"/> Lubricate ball joints				X	X	X	X	X	X	X	X	X	X	X	
<input type="checkbox"/> Replace exhaust muffler springs						X			X			X			
<input type="checkbox"/> Lubricate control cables ³				X	X	X	X	X	X	X	X	X	X	X	
<input type="checkbox"/> Check propeller balance and tracking ^{2,3}				X	X	X	X	X	X	X	X	X	X	X	
<input type="checkbox"/> Inspect propeller mounting bolts ³															
<input type="checkbox"/> Clean and oil air filter				X	X	X	X	X	X	X	X	X	X	X	
<input type="checkbox"/> Check fuel filter				X	X	X	X	X	X	X		X	X	X	
<input type="checkbox"/> Replace fuel filter							X								
<input type="checkbox"/> Check carburetor(s) and readjust (idle speed, cable tension)		X			X		X		X		X		X		X
<input type="checkbox"/> Clean carburetor(s) and check for wear					X		X		X		X		X		
<input type="checkbox"/> Replace jet needle and needle jet									X						
<input type="checkbox"/> Check fuel pump (measure fuel pressure)						X			X			X			
<input type="checkbox"/> Check gearbox oil level				X	X	X		X	X	X		X	X	X	
<input type="checkbox"/> Replace gearbox oil		X					X				X				
<input type="checkbox"/> Check and adjust gearbox, preload of springs (type B gearbox)							X				X				
<input type="checkbox"/> Replace rotary valve lubrication oil							X								
<input type="checkbox"/> Inspect cylinder head and piston crown ⁴					X		X		X		X		X		
<input type="checkbox"/> Inspect piston rings for free movement ⁵					X		X		X		X		X		
<input type="checkbox"/> Check piston diameter ⁷					X ⁶		X ⁶		X		X ⁶		X		
<input type="checkbox"/> Piston ring: check gap ^{7,11}					X ⁶		X ⁶		X		X ⁶		X		
<input type="checkbox"/> Piston ring: check axial clearance (rectang. ring) ^{8,12}					X ⁶		X ⁶		X		X ⁶		X		
<input type="checkbox"/> Check cylinder diameter ^{7,11}					X ⁶		X ⁶		X		X ⁶		X		
<input type="checkbox"/> Cylinder: check for roundness ^{7,11}					X ⁶		X ⁶		X		X ⁶		X		
<input type="checkbox"/> Replace cylinder head-, cylinder base- and exhaust-gasket ⁸					X ⁶		X ⁶		X		X ⁶		X		
<input type="checkbox"/> Inspect piston pin and bearing									X						
<input type="checkbox"/> Inspect crankshaft and replace outer seals if necessary									X						
<input type="checkbox"/> General overhaul of engine ⁹															X

- 1) And after every replacement of gasket(s).
- 2) Also after any damage
- 3) According to instructions of manufacturer.
- 4) If carbon layer is more than 0.5 mm thick, decarbonize.
- 5) If piston rings stick, clean and replace if necessary.
- 6) If used in very dusty atmosphere.
- 7) Wear limit see Service Information 5 UL 91.
- 8) If cylinders get dismantled.
- 9) To be carried out every five years or every 300 hours whichever comes first. Contact authorized distributor or service center.
- 10) To be examined after every 12,5 hours of operation.
- 11) Necessary only if piston rings are not freely moving.

OPERATING PARAMETERS FOR ROTAX® 447/503/582

Take-off speed 6800 RPM max. 5 min
 Cruising speed 6500 RPM
 Idle speed min. 2000 RPM

CYLINDER HEAD TEMPERATURE (READING AT SPARK PLUG SEAT): CHT

dimension	447 UL SCDI		503 UL DCDI		582 UL DCDI/MOD. 99	
	°C	°F	°C	°F	°C	°F
max.	260	500	250	480	150	300
normal	190-230	374-446	180-220	350-430	110-130	230-270

EXHAUST GAS TEMPERATURES: EGT

dimension	447 UL SCDI		503 UL DCDI		582 UL DCDI/MOD. 99	
	°C	°F	°C	°F	°C	°F
max.	650	1200	650	1200	650	1200
normal			460-580	860-1000	500-620	930-1150

ENGINE START, OPERATING TEMPERATURE:

	°C	°F
maximum	50°	120°
minimum	-25°	-13°

COOLANT TEMPERATURE ROTAX 582

maximum	80°	175°
minimum	65°	150°

FUEL PRESSURE

	bar	psi
maximum	0,4 bar	(6psi)
minimum	0,2 bar	(3psi)