

2-STROKE ROTAX® MAINTENANCE SCHEDULE

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

	447 UL SCDI		503 UL DCDI		582 UL DCDI/MOD. 99	
dimension	°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

	447 UL SCDI		503 UL DCDI		582 UL DCDI/MOD. 99	
dimension	°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)