

TECHNICAL DATA - ENGINE »

TYPE	450 SMR	560 SMR
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft	
Displacement	449,4 cm ³	565,5 cm ³
Bore/Stroke	95 / 63.4 mm	100 / 72 mm
Ratio	12 : 1	11 : 1
Fuel	unleaded fuel with at least RON 95 (USA = Premium RON 91)	
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain	
Camshaft	590/5521	
Valve diameter Intake	35 mm (Titan)	
Valve diameter Exhaust	30 mm (Titan)	
Valve clearance cold Intake	0.1 – 0.15 mm	
Valve clearance cold Exhaust	0.1 – 0.15 mm	
Crank shaft bearing	2 cylinder roller bearing	
Connecting rod bearing	needle bearing	
Top end bearing	bronze bushing	
Piston aluminium alloy	forged	
Piston rings	1 compression ring, 1 oil scraper ring	
Engine lubrication	pressure circulation lubrication with two rotor pumps	
Engine oil	full synthetic oil (Motorex Power Synt 4T 10W/50)	
Quantity of engine oil	1,25 liters	
Primary ratio	straight geared spur wheels 33:76 Z	
Clutch	multi disc clutch in oil bath	
Transmission claw shifted	6-speed	
Gear ratio		
1 st Gear	16:32	
2 nd Gear	18:30	
3 rd Gear	20:28	
4 th Gear	22:26	
5 th Gear	24:24	
6 th Gear	21:18	
Ignition system	contactless DC-CDI ignition with digital advanced system by KOKUSAN	
Generator	12V 40W	
Spark plug	NGK DCPR 8 E	
Spark plug gap	0,6 mm	
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanically driven water pump	
Cooling liquid	1 liter, 50% antifreeze, 50% distilled water, at least -25° (-13° F)	
Starting equipment	kickstarter	

BASIC CARBURATOR SETTING		
	450 SMR	560 SMR
Type	Keihin FCR-MX 4122B	Keihin FCR-MX 4125E
Main jet	185	190
Jet needle	OBFTP	OBFTP
Idling jet	40	42
Main air jet	200	200
Idling air jet	100	100
Needle position	4 th from top	5 th from top
Starting jet	85	85
Mixture control screw open	1,5	1,5
Slide	15	15
Performance restrictor	–	–
Stop pump membrane	858 / 2,15 mm	858 / 2,15 mm
Hot start device	2,2 mm	2,5 mm