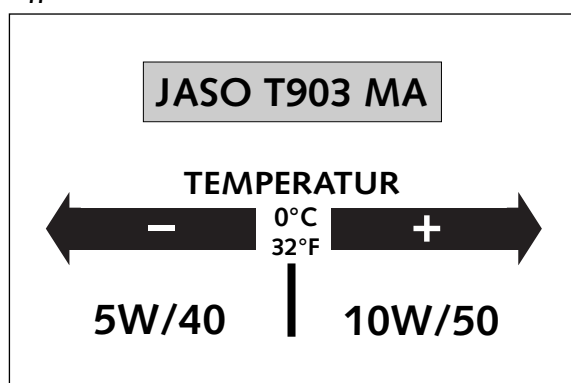


TECHNICAL SPECIFICATIONS – ENGINE 660 SMC 2004

Engine	660 SMC
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft
Displacement	654 ccm
Bore / Stroke	102 / 80 mm
Ratio	11,7 : 1
Fuel	unleaded premium gasoline with a least RON 95
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	584-V039
Valve diameter	Intake: 36 mm Exhaust: 32 mm
Valve clearance cold	Intake: 0,15 mm Exhaust: 0,15 mm
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston	forged aluminium alloy
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring
Engine lubrication	two Eaton-oilpumps
Engine oil	see table #
Engine oil quantity	2,1 liters including frame (0,55 US gallons)
Primary ratio	straight geared spur wheels 31 : 79 teeth
Clutch	multi disc clutch in oil bath
Transmission	5-speed claw shifted
Gear ratio	1st 14:35 2nd 15:24 3rd 18:21 4th 20:19 5th 22:18
Ignition system	contactless DC-CDI ignition with digital advanced system type KOKUSAN
Ignition timing	adjustment to max. 38 ° BTDC at 6000 rpm
Generator	12V 200W
Spark plug	NGK DCPR8 E
Spark plug gap	0,9 mm
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanic driven water pump
Cooling liquid	at least -25°C (-13°F)
Starting equipment	kickstarter

#



BASIC CARBURATOR SETTING	
	660 SMC
Type	Keihin FCR-MX 41
Carburator-setting number	4138A
Main jet	165
Jet needle	OBDVT (OBEKR)
Idling jet	42 (45)
Main air jet	200
Idling air jet	100
Needle position	5. rd from top (4. rd f. t.)
Starting jet	85
Mixture control screw open	2
Slide	15
Performance restrictor	Slide stop (-)
Stop pump membrane	858 / 2,15 mm
Hot start device	3,8 mm

Engine oil

Only use fully synthetic engine oils that meet the JASO MA quality requirements (see information on the can).

KTM recommends Motorex Power Synt 4T in the 10W/50 viscosity (for temperatures over 0°C, 32°F) or 5W/40 (for temperatures under 0°C, 32°F).