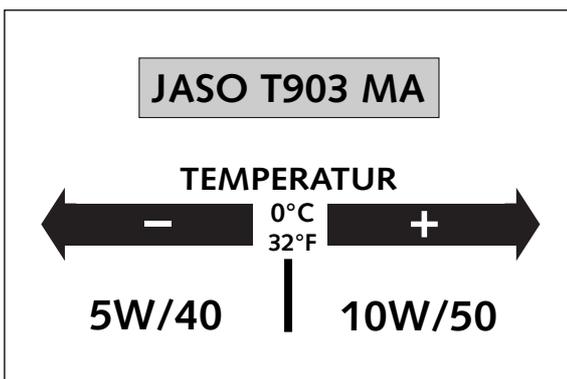


TECHNICAL SPECIFICATIONS – ENGINE 625 SXC 2004

Engine	625 SXC
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft
Displacement	625 ccm
Bore / Stroke	101 / 78 mm
Ratio	11,7 : 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	584-V03/1
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	1,6 liters (0,42 US gallons) / appr. 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	1 liter, 40% antifreeze, 60% water, at least -25°C (-13°F)
Starting equipment	kick - electric starter

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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).

! CAUTION !
POOR OIL QUALITY OR MINOR QUANTITY CAUSE EARLY ENGINE-WEAR.

BASIC CARBURETOR SETTING		
	625 SXC EU	625 SXC USA
Type	Keihin FCR-MX 41	Keihin FCR-MX 41
Carburetor-setting number	4138A	4138A
Main jet	165	165
Jet needle	OBDVT (OBEKR)	OBDVT
Idling jet	42 (45)	42
Main air jet	200	200
Idling air jet	100	100
Needle position	5. rd from top (4. rd from top)	5. rd from top
Starting jet	85	85
Mixture control screw open	2	2
Slide	15	15
Performance restrictor	Slide stop	without Slide stop
Stop pump membrane	858 / 2,15 mm	858 / 2,15 mm
Hot start device	3,8 mm	3,8 mm