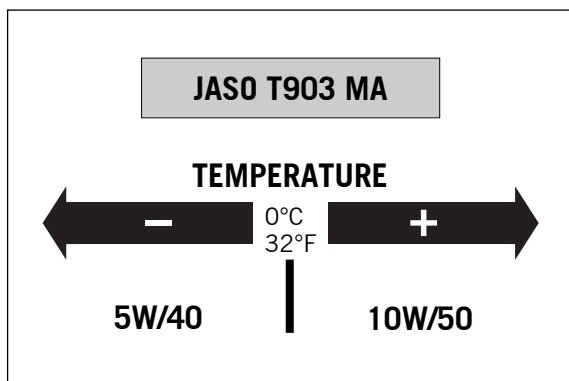


# TECHNICAL DATA – ENGINE »

ENGINE	640 LC4
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter
Displacement	625 cc
Bore / Stroke	101 / 78 mm
Ratio	11.7 : 1
Fuel	unleaded premium gasoline with at least RON 95 (USA = Premium RON 91) (RON 80-94 for other ignition curve)
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	249/1
Valve diameter	Intake: 36 mm Exhaust: 32 mm
Valve clearance cold	Intake: 0.12 - 0.15 mm Exhaust: 0.12 - 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 bellow #
Engine oil quantity	appr. 2.1 liters including frame
Primary ratio	straight geared spur wheels 31 : 79 teeth
Clutch	multi disc clutch in oil bath, hydraulically operated
Transmission	5-speed claw shifted
Gear ratio	1 <sup>st</sup> 14:35 2 <sup>nd</sup> 15:24 3 <sup>rd</sup> 18:21 4 <sup>th</sup> 20:19 5 <sup>th</sup> 22:18
Ignition system	contactless DC-CDI ignition with digital advanced system type KOKUSAN 4K5
Ignition timing	TPS
Generator	12V 200W
Spark plug	NGK DCPR 8 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, 50% antifreeze, 50% distilled water, at least -25 ° C (-13 ° F)
Starting equipment	electric starter and kickstarter

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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).

BASIC CARBURETOR SETTING		
	640 LC4 Enduro	640 LC4 Supermoto
Type	BST40-266	BST40-273
Main jet	152,5	165
Needle jet	X-6 689	X-6 689
Idling jet	45	45
Jet needle	6G5	6G5
Needle clip pos. f. top	3rd from top	3rd from top
Mixt. adj. screw open	2.25	2.25