

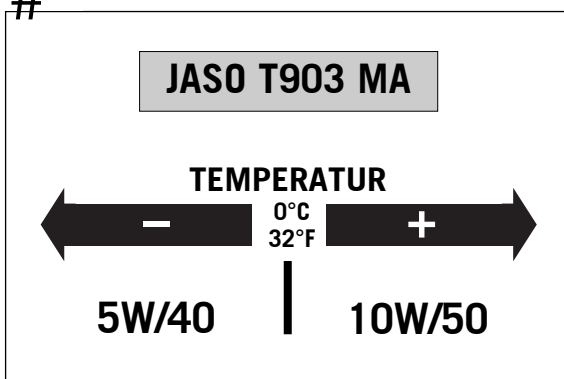
TECHNICAL SPECIFICATIONS – ENGINE »

ENGINE	640 LC4 ADVENTURE
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter
Displacement	625 ccm
Bore / Stroke	101 / 78 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	249/1
Valve diameter	Intake: 36 mm Exhaust: 32 mm
Valve clearance cold	0.12 mm - 0.15 mm
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston	forged/cast aluminium alloy
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring
Engine lubrication	2 Eaton-Oilpumps
Engine oil	see table #
Quantity of engine oil	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
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 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, kick starter

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

GEAR RATIOS				
Primary ratio	Transmission	Original final drive ratio	Available chain drive sprockets for chain 5/8x1/4"	Available final drive sprockets for chain 5/8x1/4"
31:79	1st gear 14:35	16:42	14 t 15 t 16 t 17 t	38 t
	2nd gear 15:24			40 t
	3rd gear 18:21			42 t
	4th gear 20:19			45 t
	5th gear 22:18			48 t 50 t 52 t

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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).

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TIGHTENING TORQUES – ENGINE 640 LC4 ADVENTURE		
Hexagon nut at primary gear	M20x1.5	Loctite 243 + 170 Nm
Collar nut flywheel	M16x1.25 left	80° C + 150 Nm
Hexagon nut for inner clutch hub	M18x1.5	Loctite 243 + 90 Nm
Kickstarter stop screw	M12x1.5	50 Nm
Allan head screw freewheel hub	M6x12/M6x12.5	Loctite 648 + 12 Nm
Allan head screw oil pumps	M6	Loctite 243 + 8 Nm
Hexagon screw camshaft gear	M10	Loctite 243 + 35 Nm
Allan head screw cylinder head top sect.	M6x25/M6x35/M6x65/M6x70 (8.8)	10 Nm
Allan head screw cylinder head top sect.	M6x50/M6x55 (12.9)	15 Nm
Cylinder head screws	M10	53 Nm
Collar nuts at cylinder base	M10	50 Nm
Hexagon nut chain sprocket	M20x1.5	Loctite 243 + 60 Nm
Oil drain plug	M22x1.5	30 Nm
Magnetic plug	M12x1.5	20 Nm
Plug bypass valve	M12x1.5	20 Nm
Hollow screws oil lines	M8x1	10 Nm
Hollow screws oil lines	M10x1	15 Nm
Jet screw clutch cover	M8	10 Nm
Screw plug timing-chain tensioner	M12x1.5	20 Nm
Counternuts valve adjusting screws	M7x0.75	16 Nm
Crankshaft locking bolt	M8	20 Nm
Spark plug	M12x1.25	20 Nm
Engine mounting bolt	M8	40 Nm
Engine mounting bolt	M10	70 Nm