## TECHNICAL DATA — ENGINE >>>

ТҮРЕ	660 LC4			
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter			
Displacement	653,7 cm <sup>3</sup>			
Bore / Stroke	102/80 mm			
Ratio	11,6:1			
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			
Valve diameter	Intake: 36 mm Exhaust: 32 mm			
Valve clearence cold	Intake: 0.10 mm Exhaust: 0.10 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	2 Eaton-Oilpumps			
Quantity of engine oil	SAE 10W/50 (Motorex Power Synt 4T)			
Engine oil	2,2 liters including frame			
Primary ratio	straight geared spur wheels 31 : 79 teeth			
Clutch	multi disc clutch in oil bath			
Transmission	5-speed claw shifted			
Gear ratios	1. Gear 33:15 2. Gear 24:15			
	3. Gear 21:18			
	4. Gear 19:20			
	5. Gear 18:22			
Ignition system	contactless DC- CDI ignition with digital advanced system type KOKUSAN			
Ignition timing	adjustment to max. 33° BTDC at 8500 rpm			
Generator	12V 200W			
Spark plug	NGK DR 9 EA			
Spark plug gap	0,9 mm			
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanic driven water pump			
Cooling liquid	1,8 liter, 50% antifreeze, 50% water, at least –25° C (–13° F)			
Starting equipment	electric starter			

BASIC CARBURETOR SETTING				
	660 Rally (throttled)	660 Rally (open)		
Туре	Keihin CR 39	Keihin CR 39		
Main jet	190	190		
Jet needle	OBDVR	OBDVR		
Idling jet	48	52		
Main air jet	200	200		
Idling air jet	100	100		
Needle clip position from top	III	III		
Starting jet	85	85		
Mixture control screw open	2	2		
Throttle valve	15	15		
Performance restrictor	24,5	_		
Stop pump membrane	3,2 mm	3,2 mm		

## **TORQUES** M16x1,5 Collar nut front axle 40 Nm Brake caliper front M8 Loctite 243 + 25 Nm Collar nut rear axle M20x1,5 80 Nm 100 Nm Hex. nut swing arm bolt M14x1,5 M8 Clamping screw top triple clamp 20 Nm Clamping screw bottom triple clamp M8 15 Nm Clamping screws fork leg axle passage M8 10 Nm Collar screw handlebar clamp M8 Loctite 243 + 20 Nm Allan head screw handlebar support M10 Loctite 243 + 40 Nm Collar nut connecting rod pro lever system M12x1,75 60 Nm М6 Loctite 243 + 15 Nm Collar screw brake discs front/rear Ball joint for push rod rear brake cylinder M8 Loctite 243 + 35 Nm Self locking nut rear sprocket M6 Loctite 243 + 10 Nm M6 Other screws chassis 10 Nm M8 25 Nm M10 45 Nm Other collar nuts chassis M6 15 Nm M8 30 Nm M10 50 Nm

## TECHNICAL DATA - ENGINE >>>

TIGHTENING TORQUES - ENGINE				
Hexagon nut at primary gear	M20x1,5	Loctite 243 + 170 Nm		
Collar nut flywheel	M16x1,25 links	80° C + 150 Nm		
Hexagon nut for inner clutch hub	M18x1,5	Loctite 243 + 90 Nm		
Allan head screws freewheel hub	M6x12/M6x12,5	Loctite 648 + 12/16 Nm		
Hexagonscrew oil pump	M6	Loctite 243 + 10 Nm		
Hexagon screw camshaft gear	M10	35 Nm		
Allan head screw cylinder head top sect.	M6x25/M6x65/M6x70 (8.8)	10 Nm		
Allan head screw cylinder head top sect.	M7x55/M7x60 (12.9)	15 Nm		
Cylinder head screws	M10	10/53 Nm		
Collar nuts at cylinder base	M10	10/55 Nm		
Hexagon screw chain sprocket	M10	Loctite 243 + 40 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		
Engine mounting bolt	M8	40 Nm		
Engine mounting bolt	M10	70 Nm		