

TECHNICAL SPECIFICATIONS - CHASSIS 640 LC4 ADVENTURE 2001

640 LC4 Adventure	
Frame	Central chrome-moly-steel frame
Fork	WP USD
Wheel travel front/rear	275/300 mm (10,5/12 in)
Rear suspension	Central shock absorber (WP) with PRO-LEVER linkage to rear-swingarm with needle bearing
Front brake	Disc brake with carbon-steel brake disc Ø 320 mm (11,8 in), brake caliper floated
Rear brake	Disc brake with carbon-steel brake disc Ø 220 mm (8,7 in), brake caliper floated
Tyres front	90/90-21 Enduro3
Air pressure offroad	1,8 bar (21 psi)
Air press. road, driver only	2,0 bar (29 psi)
Tyres rear	140/80-18 Enduro3
Air press. road, driver only	2,0 bar (29 psi)
Air press. road, with passenger	2,2 bar (32 psi)
Fuel tank capacity	28 liter (7,4 US gallons) of that 3,5 liter (1 US gallons) reserve
Final drive ratio	16 : 42
Chain	5/8 x 1/4 " O-Ring
Battery	maintenance-free battery 12V 8Ah
Steering angle	62,5°
Wheel base	1510 ± 10 mm (59,4 ± 0,4 in)
Seat high	955 mm (37,7 in)
Ground clearance	355 mm (14,2 in)
Dead weight without fuel	154 kg (340 lbs)
Max. permissible front axle load	150 kg (331 lbs)
Max. permissible rear axle load	230 kg (507 lbs)
Max. permissible laden weight	380 kg (839 lbs)

STANDARD ADJUSTMENT - FORK	
14.18.V704	
Compression adjuster	14
Rebound adjuster	14
Spring	4,4 N/mm
Spring preload	4 mm
Air chamber length	120 mm
Capacity per fork leg	ca 420 ccm
Fork oil	SAE 5

STANDARD-ADJUSTMENT - SHOCK ABSORBER	
01.18.V709	
Compression adjuster	3
Rebound adjuster	5
Spring	66/260
Spring preload	27 mm (0,9 in)

TIGHTENING TORQUES - ENGINE			
Hexagon nut at primary gear	M20x1,5	Loctite 243 + 170 Nm	(125 ft.lb)
Collar nut flywheel (LC4, ADVENT, DUKE)	M16x1,25 left	80° C + 150 Nm	(110 ft.lb)
Collar nut flywheel (SC, SXC)	M12x1 left	60 Nm	(44 ft.lb)
Hexagon nut for inner clutch hub	M18x1,5	Loctite 648 + 80 Nm	(59ft.lb)
Kickstarter stop screw	M12x1,5	50 Nm	(37ft.lb)
Allan head screw freewheel hub (E-STARTER)	M6x12/M6x12,5	Loctite 648 + 18 Nm	(13ft.lb)
Allan head screw oil pumps	M6	Loctite 243 + 8 Nm	(6ft.lb)
Hexagon screw camshaft gear	M10	Loctite 243 + 35 Nm	(25ft.lb)
Allan head screw cylinder head top sect.(SC, SXC)	M6x25	8 Nm	(6ft.lb)
Allan head screw cylinder head top sect.(LC4,ADVENT,DUKE)	M6x25/M6x65/M6x70 (8.8)	8 Nm	(6ft.lb)
Allan head screw cylinder head top sect.	M6x50/M6x55 (12.9)	20 Nm	(15ft.lb)
Allan head screw cylinder head top sect.(SC, SXC)	M6x65/M6x70 (8.8)	8 Nm	(6ft.lb)
Cylinder head screws	M10	50 Nm	(37ft.lb)
Collar nuts at cylinder base	M10	40 Nm	(30ft.lb)
Hexagon screw chain sprocket	M10	Loctite 243 + 40 Nm	(30ft.lb)
Oil drain plug	M22x1,5	30 Nm	(22ft.lb)
Magnetic plug	M12x1,5	20 Nm	(15ft.lb)
Plug bypass valve	M12x1,5	20 Nm	(15ft.lb)
Hollow screws oil lines	M8x1	10 Nm	(7ft.lb)
Hollow screws oil lines	M10x1	15 Nm	(11ft.lb)
Jet screw clutch cover	M8	10 Nm	(7ft.lb)
Screw plug timing-chain tensioner	M12x1,5	20 Nm	(15ft.lb)
Counternuts valve adjusting screws	M7x0,75	20 Nm	(15ft.lb)
Crankshaft locking bolt	M8	25 Nm	(19ft.lb)
Spark plug	M12x1,25	20 Nm	(15ft.lb)
Engine mounting bolt	M8	40 Nm	(30ft.lb)
Engine mounting bolt	M10	70 Nm	(52ft.lb)

TIGHTENING TORQUES - CHASSIS			
Collar nut front axle	M16x1,5, M17	40 Nm	(30ft.lb)
Collar nut front axle (400 SXC)	M10	40 Nm	(30ft.lb)
Collar nut rear axle	M20x1,5	80 Nm	(59ft.lb)
Shock absorber top	M10	45 Nm	(33ft.lb)
Shock absorber bottom	M10	45 Nm	(33ft.lb)
Collar screws brake disk front	M6	Loctite 243 + 10Nm	(7ft.lb)
Collar screws brake disk rear	M6	Loctite 243 + 10Nm	(7ft.lb)
Screw brake caliper front	M8	Loctite 243 + 25 Nm	(19ft.lb)
Allan head screw brake caliper front (DUKE)	M10x1,25	Loctite 243 + 45 Nm	(33ft.lb)
Allan head screw brake caliper support rear (DUKE)	M10	40 Nm	(37ft.lb)
Bearing bolt linkage arm/frame	M12	60 Nm	(44ft.lb)
Collar nuts rocker arm bolts	M14x1,5	100 Nm	(74ft.lb)
Engine mounting screw	M10	45 Nm	(33ft.lb)
Ball joint for push rod	M8	Loctite 243 + 25 Nm	(19ft.lb)
Sprocket screws on nuts	M8	Loctite 243 + 35 Nm	(25ft.lb)
Collar nut swingarm bolt	M14x1,5	100 Nm	(74ft.lb)
Clamping screws top triple clamp (USD 43)	M8	20 Nm	(15ft.lb)
Clamping screws top triple clamp (EXTREME)	M8	15 Nm	(11ft.lb)
Clamping screws top triple clamp (USD 48)			
Clamping screws bottom triple clamp (USD 43)	M8	15 Nm	(11ft.lb)
Clamping screws bottom triple clamp (EXTREME)	M8	20 Nm	(15ft.lb)
Clamping screws bottom triple clamp (USD 48)			
Clamping screws fork stubs	M8	10 Nm	(7ft.lb)
Collar nut for eccentric chain adjuster (DUKE)	M10	40 Nm	(30ft.lb)
Screws handlebar clamp	M8	Loctite 243 + 20 Nm	(15ft.lb)
Allan head screw handle bar support	M10	Loctite 243 + 40 Nm	(30ft.lb)
Other screws on chassis	M6	10 Nm	(7ft.lb)
	M8	25 Nm	(19ft.lb)
	M10	45 Nm	(33ft.lb)
Other collar nuts on chassis	M6	15 Nm	(11ft.lb)
	M8	30 Nm	(22ft.lb)
	M10	50 Nm	(37ft.lb)