

# TECHNICAL SPECIFICATIONS - CHASSIS 640 DUKE II 2002

Frame	Central chrome-moly-steel frame
Fork	type . . . . . WP 4357 ROMA 0518716 wheel travel . . . . . 140 mm (5,5 in) standard adjustment compression. . . . . driver only = 14, with passenger = 14 standard adjustment rebound. . . . . driver only = 16, with passenger = 16 fork leg projection upper fork bridge . . . . . 3 mm (0,12 in) oil capacity per fork leg . . . . . appr. 400 ccm (24 cubic in) / SAE 5 air chamber length . . . . . 100 mm (4 in)
Rear suspension	WP central shock absorber with PRO-LEVER linkage to rear- swing-arm with needle bearing
Shock absorber	type . . . . . WP central shock absorber BAVP 4681 0118W71 rear wheel travel . . . . . 170 mm (6.7 in) standard adjustment compression. . . . . driver only = 3, with passenger = 5 standard adjustment rebound. . . . . driver only = 5, with passenger = 3 spring preload . . . . . driver only = 23 mm (0.9 in), with passenger = 28 mm (1.1 in) spring type . . . . . 70 - 260
Front brake	Disc brake with carbon-steel brake disc Ø 320 mm (12,6 in) and 4-piston brake caliper
Rear brake	Disc brake with carbon-steel brake disc Ø 220 mm (8,7 in) and single-piston brake caliper floated
Tyres	front: 120/70 R 17 58H rear: 160/60 R 17 69H
Air pressure rider only	2.0 bar (29 psi) 2.2 bar (32 psi)
Air pressure with passenger	2.2 bar (32 psi) 2.4 bar (35 psi)
Fuel tank capacity	11 liter (2,9 US gallons), out of this 2,5 liter (0,6 US gallons) reserve
Final drive ratio	17 : 38
Chain	X-ring 5/8 x 1/4"
Lamps	low beam . . . . . HB3 12V 65W (socket P20d) high beam . . . . . HB3 12V 65W (socket P20d) parking light . . . . . 12V 5W (socket W2,1x9,5d) speedometer, tachometer light. . . . . 12V 1,2W (socket W2x4,6d) indicator lamp . . . . . 12V 1,2W (socket W2x4,6d) stop and taillight . . . . . 12V 21/5W (socket BaY15d) flasher . . . . . 12V 10W (socket Ba15s)
Battery	maintenance-free battery 12V 8Ah
Steering angle	64,2°
Wheel base	1460 ± 15 mm (57.5 ± 0.6 in)
Seat high	880 mm (34,7 in)
Ground clearance	250 mm (9.9 in)
Dead weight without fuel	145 kg (3 lbs)
Max. permissible front axle load	150 kg (2 lbs)
Max. permissible rear axle load	200 kg (4 lbs)
Max. permissible laden weight	350 kg (773 lbs)

TIGHTENING TORQUES - CHASSIS			
Collar nut front axle	M17	40 Nm	(30ft.lb)
Collar nut rear axle	M20x1,5	80 Nm	(59ft.lb)
Shock absorber bolts top	M10	45 Nm	(33ft.lb)
Shock absorber bolts bottom	M10	45 Nm	(33ft.lb)
Collar screws brake disk front + rear	M6	Loctite 243 + 10Nm	(7ft.lb)
Bolts brake caliper front	M8	Loctite 243 + 25 Nm	(19ft.lb)
Allen head bolts brake caliper front	M10x1,25	Loctite 243 + 45 Nm	(33ft.lb)
Allen head bolts brake caliper support rear	M10	50 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 bolts with nuts	M8	Loctite 243 + 35 Nm	(25ft.lb)
Collar nut swingarm bolt	M14x1,5	100 Nm	(74ft.lb)
Clamp bolts for top triple clamp	M8	20 Nm	(15ft.lb)
Clamp bolts for bottom triple clamp	M8	15 Nm	(11ft.lb)
Clamp bolts for fork stubs	M8	10 Nm	(7ft.lb)
Collar nut for eccentric chain adjuster	M10	40 Nm	(30ft.lb)
Bolts, handlebar clamp	M8	Loctite 243 + 20 Nm	(15ft.lb)
Allen head bolts handlebar 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)