

TECHNICAL SPECIFICATIONS – CHASSIS 2005 AC

CHASSIS	50 SENIOR ADVENTURE	50 MINI ADVENTURE
Frame	single downtube, split-cradle	
Fork	Marzocchi Ø = 32 mm (1,26 in)	
Wheel travel front/rear	175/190 mm (6.9/7.5 in)	115/185 mm (4,5/7,3 in)
Rear suspension	Central shock absorber Paioli	
Front brake	Disk brake Ø 160 mm (6.4 in)	Drum brake Ø 90 mm (3,5 in)
Rear brake	Drumbrake Ø 90 mm (3,5 in)	
Tires front/rear	2.50x12" Pirelli MT32A / 2.75x10" MT320	2.50x10" Pirelli MT32A / 2.75x10" MT320
Tire pressure	front/rear: 1.0 bar / 1.0 bar	front/rear: 1.0 bar / 1.0 bar
Fuel tank capacity	2 liter (0.5 gallons)	
Final drive ratio	11 : 48	
Chain	1/2x3/16" 104 rolls	1/2x3/16" 96 rolls
Steering angle	66°	66°
Wheel base	1030 mm (40 in)	910 mm (35.8 in)
Seat height, unloaded	650 or 675 mm (25.6 or 26.6 in) adjustable	530 or 550 mm (21 or 21.7 in) adjustable
Ground clearance	255 mm (10 in)	182mm (7.2 in)
Rider's body height	max. 130 cm (51 in)	
Rider's body weight	max. 35 kg (78 lbs)	
Recommended age of rider	4 - 6 years	
Engine	50 AC	

STANDARD-ADJUSTMENT – FORK

	50 SENIOR / MINI ADVENTURE
Spring	2,0 N/mm
Preload	10 mm (0.4 in)
Fork oil	SAE 7.5
Air chamber length	110 mm (4.3 in)

STANDARD ADJUSTMENT – SHOCK ABSORBER

	50 SENIOR ADVENTURE	50 MINI ADVENTURE
Spring preload	12 mm (0.5 in)	8 mm (0.3. in)

TOLERANCES AND FITTING CLEARANCES		
Crankshaft	run out of crank stud	max. 0.050 mm / 0.00196 in
Crankshaft webs	outer dimension	38 mm \pm 0,05 mm
Conrod bearing	radial play	max. 0.030 mm / 0.00118 in
Piston	fitting clearance	0.055-0.065 mm/0.0021-0.0025 in (AC)/0.045-0.055 mm/0.0017-0.0021 in (LC)
Piston ring	end gap	max. 0.20 mm / 0.00780 in
Clutch shoes	outer diameter	new 82.5 mm / 3.25 in
Clutch drum	diameter	0.10 - 0.20 mm / 0.00394 - 0.00787 in
Clutch springs (AC)	length	min. 19.6 mm

TIGHTENING TORQUES - ENGINE		
Hexagon nut primary gear	M14x1,25	40 Nm (30 ft.lb)
Hexagon nut ignition rotor	M10x1,25	20 Nm (15 ft.lb)
Hexagon nut of clutch hub	M10x1,25	Loctite 243 + 35 Nm (26 ft.lb)
HH bolts clutch shoes	M6	Loctite 243 + 12 Nm (9 ft.lb)
Cylinder head bolts	M7	15 Nm (11 ft.lb)
Cylinder base nuts	M8	18 Nm (13 ft.lb)
Allen head bolt-Stator	M5	Loctite 243 + 8 Nm (6 ft.lb)
Oil plug	M16	5 Nm (4 ft.lb)
Oil drain plug	M10	15 Nm (11 ft.lb)
Other bolts engine	M5	7 Nm (5 ft.lb)
	M6	10 Nm (7 ft.lb)
	M8	30 Nm (22 ft.lb)

TIGHTENING TORQUES - CHASSIS		
Hexagon nuts front/rear axle	M12x1	40 Nm (30 ft.lb)
Hexagon nut swing arm bolt	M12	40 Nm (30 ft.lb)
HH bolts of top triple clamp	M8	20 Nm (15 ft.lb)
HH bolts of bottom triple clamp	M8	15 Nm (11 ft.lb)
HH bolts handlebar clamp	M8	20 Nm (15 ft.lb)
Shock absorber top/bottom	M10	45 Nm (34 ft.lb)
Allen head bolt - Handlebar support	M10	Loctite 243 + 40 Nm (30 ft.lb)
Front brake caliper	M8	Loctite 243 + 20 Nm (15 ft.lb)
Front brake disk	M6	Loctite 243 + 10 Nm (7 ft.lb)
Spoke nipple	M4	3 Nm (4 ft.lb)
Other bolts chassis	M5	6 Nm (8 ft.lb)
	M6	10 Nm (7 ft.lb)
	M8	25 Nm (33 ft.lb)
	M10	45 Nm (34 ft.lb)