

TECHNICAL DATA – CHASSIS 400/520 SX, EXC RACING 2000

	400 SX RACING	520 SX RACING	400/520 EXC RACING	400/520 EXC RACING USA
Frame	Central chrom-moly-steel frame			
Fork	White Power – Up Side Down 43 MA			
Wheel travel front/rear	295/320 mm			
Rear suspension	WP Progressive Damping System shock absorber, aluminium swingarm			
Front brake	Disk brake with carbon-steel brake disc Ø 260 mm (10.2 in), brake caliper floated			
Rear brake	Disk brake with carbon-steel brake disc Ø 220 mm (8.7 in), brake caliper floated			
Brake disc	Wear limit max. 0,4 mm (0,016 in)			
Front tires	80/100 - 21"		90/90 - 21"	80/100 - 21"
Air pressure offroad	1,0 bar (14 psi)		1,0 bar (14 psi)	1,0 bar (14 psi)
Air pressure road driver only	-		1,5 bar (21 psi)	1,5 bar (21 psi)
Rear tires	110/90 - 19"		140/80 - 18"	110/100 - 18"
Air pressure offroad	1,0 bar (14 psi)		1,0 bar (14 psi)	1,0 bar (14 psi)
Air pressure road driver only	-		2,0 bar (28 psi)	2,0 bar (28 psi)
Fuel tank capacity	7,5 Liter (2 US Gallons)		9 Liter (2,3 US Gallons)	
Final drive ratio	14:50t	14:48t	400-15:45t / 520-15:40t	400-14:50t / 520-14:48t
Chain	O-ring 5/8 x 1/4 "			
Available final sprockets	38t, 40t, 42t, 45t, 48t, 50t, 52t			
Steering head angle	63,5°			
Wheel base	1481 ± 10 mm (58,3 ± 0,4 in)			
Seat hight, unloaded	925 mm (36,5 in)			
Ground clearance, unloaded	380 mm (15,1 in)			
Dead-weight *	107 kg (236 lbs)		112 kg (247 lbs)	

* Dead-weight without fuel

STANDARD ADJUSTMENT-FORK		
	WP 0518U782	WP 0518U791
Compression adjuster	14	14
Rebound adjuster	14	14
Spring	4,2 N/mm	4,2 N/mm
Spring preload	7 mm (0.27in)	6,5 mm (0.26in)
Air chamber length	120 mm (5.2in)	140 mm (5.5in)
Capacity per fork leg	approx. 450 ccm	approx. 450 ccm
Fork oil	SAE 5	SAE 5

STANDARD ADJUSTMENT - SHOCK ABSORBER		
	WP 1218U721	WP 1218U716
Compression adjuster	5	5
Rebound adjuster	20	18
Spring	PDS2-250	PDS3-250
Spring preload	6 mm (0.24 in)	6 mm (0.24 in)

TIGHTENING TORQUES - CHASSIS		
Collar nut front wheel spindle	M16x1,5	40 Nm (30ft.lb)
Brake caliper front	M8	Loctite 243 + 25 Nm (19ft.lb)
Brake disk front	M6	Loctite 243 + 15 Nm (11ft.lb)
Brake disk rear	M6	Loctite 243 + 15 Nm (11ft.lb)
Clamping screws upper fork bridge	M8	20 Nm (15ft.lb)
Clamping screws lower fork bridge	M8	15 Nm (11ft.lb)
Clamping screws fork stubs	M8	10 Nm (7ft.lb)
Collar nut rear wheel spindle	M20x1,5	80 Nm (59ft.lb)
Hexagon nut swing arm bolt	M14x1,5	100 Nm (74ft.lb)
Hexagon collar screw handlebar clamp	M8	20 Nm (15ft.lb)
Allan head screw handlebar support	M10	Loctite 243 + 40 Nm (30ft.lb)
Shock absorber top	M12	60 Nm (44ft.lb)
Shock absorber bottom	M12	60 Nm (44ft.lb)
Sprocket screws	M8	Loctite 243 + 35 Nm (25ft.lb)
Ball joint for push rod	M6	Loctite 243 + 10 Nm (7ft.lb)
Engine mounting bolt	M10	45 Nm (33ft.lb)
Engine brace	M8	33 Nm (24ft.lb)
Screw adjusting ring spring preload	M6	8 Nm (6 ft.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)