

TECHNICAL DATA – CHASSIS 400/520 SX, MXC, EXC RACING 2001

	400 SX RACING	520 SX RACING	400/520 EXC RACING	400/520 EXC USA, MXC
Frame	Central tube 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)		EXC 8,5 Liter (2,1 US Gallons)	MXC14 Liter (3,5 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 0518V705	WP 0518V706
Compression adjuster	14	14
Rebound adjuster	12	12
Spring	4,2 N/mm	4,2 N/mm
Spring preload	6 mm (0.23in)	6 mm (0.23in)
Air chamber length	130 mm (5.1in)	150 mm (5.9in)
Fork oil	SAE 5	SAE 5

STANDARD ADJUSTMENT - SHOCK ABSORBER

	WP 1218V732	WP 1218V733
Compression adjuster	5	5
Rebound adjuster	25	25
Spring	PDS6-250	PDS2-250
Spring preload	6 mm (0.24 in)	6 mm (0.24 in)

TIGHTENING TORQUES - CHASSIS

Collar nut front wheel spindle	M 16x1,5	40 Nm (30ft.lb)
Brake caliper front	M 8	Loctite 243 + 25 Nm (19ft.lb)
Brake disk front	M 6	Loctite 243 + 15 Nm (11ft.lb)
Brake disk rear	M 6	Loctite 243 + 15 Nm (11ft.lb)
Clamping screws upper fork bridge	M 8	20 Nm (15ft.lb)
Clamping screws lower fork bridge	M 8	15 Nm (11ft.lb)
Clamping screws fork stubs	M 8	10 Nm (7ft.lb)
Collar nut rear wheel spindle	M 20x1,5	80 Nm (59ft.lb)
Hexagon nut swing arm bolt	M 14x1,5	100 Nm (74ft.lb)
Hexagon collar screw handlebar clamp	M 8	20 Nm (15ft.lb)
Allan head screw handlebar support	M 10	Loctite 243 + 40 Nm (30ft.lb)
Shock absorber top	M 12	60 Nm (44ft.lb)
Shock absorber bottom	M 12	60 Nm (44ft.lb)
Sprocket screws	M 8	Loctite 243 + 35 Nm (25ft.lb)
Ball joint for push rod	M 6	Loctite 243 + 10 Nm (7ft.lb)
Engine mounting bolt	M 10	45 Nm (33ft.lb)
Engine brace	M 8	33 Nm (24ft.lb)
Screw adjusting ring spring preload shock abs.	M6	8 Nm (6ft.lb)
Other screws on chassis	M 6 M 8 M 10	10 Nm (7ft.lb) 25 Nm (19ft.lb) 45 Nm (33ft.lb)
Other collar nuts on chassis	M 6 M 8 M 10	15 Nm (11ft.lb) 30 Nm (22ft.lb) 50 Nm (37ft.lb)