

TECHNICAL DATA – CHASSIS 250/450/525 SX, MXC, EXC RACING 2004

	450/525 SX RACING	250/450/525 EXC RACING	450/525 MXC, EXC USA
Frame	Central tube chrome-moly-steel frame		
Fork	WP Up Side Down 4860 MXMA		
Wheel travel front/rear	300/335 mm		
Rear suspension	WP Progressive Damping System shock absorber, aluminium swing arm		
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	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 liters (2 US gallons)	EXC 8,5 liters (2.1 US gallons)	MXC 13 Liter (3.5 gallons)
Final drive ratio	450-14:52t / 525-14:48t	250-15:45t / 450-15:45t / 525-15:45t	450-14:50t / 525-14:48t
Chain	5/8 x 1/4 "		
Available final sprockets	38t, 40t, 42t, 45t, 48t, 50t, 52t		
Bulbs	headlight	HS1 12V 35/35W	
	parking light	12V 5W (Socket W2, 1x9,5d)	
	brake - rear light	12V 21/5W (Socket BaY15d)	
	flasher light	12V 10W (Socket Ba15s)	
	license plate illumination	12V 1,2W (Socket 1x4,6d)	
Battery	maintenance-free battery 12V 8Ah		
Steering head angle	63.5°		
Wheel base	1481 ± 10 mm (58.3 ± 0.4 in)		
Seat height, unloaded	925 mm (36.5 in)		
Ground clearance, unloaded	380 mm (15.1 in)		

STANDARD ADJUSTMENT - FORK

	WP4860MXMA 1418Y747	WP4860MXMA 1418Y748
Compression adjuster	18	20
Rebound adjuster	19	20
Spring	4.6N/mm	4.2 N/mm
Spring preload	5 mm (0.20 in)	5 mm (0.20 in)
Air chamber length	100 mm (3.9 in)	120 mm (4.7 in)
Fork oil	SAE 5	SAE 5

TIGHTENING TORQUES - CHASSIS

Collar screw, front wheel spindle	M24x1,5	40 Nm
Brake caliper, front	M8	Loctite 243 + 25 Nm
Brake disk, front	M6 10.9	Loctite 243 + 15 Nm
Brake disk, rear	M6	Loctite 243 + 15 Nm
Clamping screws, upper fork bridge	M8	20 Nm
Clamping screws, lower fork bridge	M8	15 Nm
Clamping screws, fork stubs	M8	10 Nm
Collar nut, rear wheel spindle	M20x1,5	80 Nm
Hexagon nut, swing arm bolt	M16x1,5	100 Nm
Hexagon collar screw, handlebar clamp	M8	20 Nm
Allan head screw, handlebar support	M10	Loctite 243 + 40 Nm
Shock absorber, top	M12	60 Nm
Shock absorber, bottom	M12	60 Nm
Sprocket screws	M8	Loctite 243 + 35 Nm
Ball joint for push rod	M6	Loctite 243 + 10 Nm
Engine mounting bolt	M10	45 Nm
Engine brace	M8	33 Nm
Screw adjusting ring spring preload shock abs.	M6	8 Nm
Spoke nipple	M4,5 / M5	6 Nm
Other screws on chassis	M6 M8 M10	10 Nm 25 Nm 45 Nm
Other collar nuts on chassis	M6 M8 M10	15 Nm 30 Nm 50 Nm

STANDARD ADJUSTMENT-SHOCK ABSORBER

	WP 5018 PDS DCC 1218Y771	WP 5018 PDS MCC 1218Y772
Compression adjuster	12 LS (low speed) 2 HS (high speed)	19
Rebound adjuster	22	24
Spring	88/250	88/250
Spring preload	5 mm (0.2 in)	6 mm (0.24 in)



450/540 SXS RACING 2004

SUPPLEMENT ART. NO. 3.211.32 to Owner's Manual Art. No. 3.210.77

STANDARD ADJUSTMENT	
FORK 450/540 SXS	WP4860MXMA 1418Y762
Compression adjuster	18
Rebound adjuster	20
Spring	4.6 N/mm
Spring preload	513mm (20.2in)*
Air chamber length	90 mm (3.6 in)
Fork oil	SAE 5

*Total length with spacers

STANDARD ADJUSTMENT	
SHOCK ABSORBER 450/540 SXS	WP 5018 PDS BAVP 1218Y780
Compression adjuster	15 LS (low speed) 2 HS (high speed)
Rebound adjuster	24
Spring	87.5/240
Spring preload	7 mm (0.28 in)