

TECHNICAL SPECIFICATIONS - CHASSIS 85 SX 2005

Frame	Central chrome-moly-steel frame	
Fork	telescopic fork White Power 43 MXMA	
Wheel travel front/rear	275 mm / 300 mm	
Rear suspension	WP PDS 4618 (Progressive Damping System) shock absorber	
Front brake	Disc brake Ø 220 mm, 4 piston	
Rear brake	Disc brake Ø 200 mm, 4 piston	
Tires front	70/100-17" Pirelli MT 32A	70/100-19" Pirelli MT 32A
Tires rear	90/100-14" Pirelli MT 320	90/100-16" Pirelli MT 320
Air pressure	1.0 bar	
Fuel tank capacity	5.1 liter	
Final drive ratio	14 : 46 t	14 : 49 t
Chain	1/2 x 5/16" 122 rolls	
Steering angle	66 °	
Wheel base	1278 mm	
Seat height, unloaded	865 mm	900 mm
Ground clearance	385 mm	415 mm
Dead weight without fuel	66 kg	68 kg
Rider's body weight	max. 70 kg	
Recommended age of rider	10 to 15 years	
Engine	CR-85	

STANDARD ADJUSTMENT – FORK	
	WP 4357 MXMA 05187A05
Compression adjuster	20
Rebound adjuster	20
Spring	3 N/mm
Spring preload	6 mm
Air chamber length	100 mm
Fork oil	SAE 5

STANDARD ADJUSTMENT - SHOCK ABSORBER	
	WP 4618 PDS-DCC WP 15187A02
Compression adjuster	17 LS (LOW SPEED) 2 HS (HIGH SPEED)
Rebound adjuster	24
Spring	40-215
Spring preload	4 MM

TOLERANCES AND FITTING CLEARANCES	
Piston fitting clearance	0.045 – 0.07 mm
Piston fitting clearance - wear limit	0.10 mm
Piston ring end gap	max. 0.4 mm
Connecting rod bearing - radial clearance	max 0.03 mm
Clutch springs - length	new = 34 mm, minimum length = 33 mm
Crankshaft web	47 mm ± 0,05 mm between bearing thrust faces

GASKET THICKNESSES	
Crankcase	0.5 mm
Clutch cover	0.5 mm
Cylinder bottom gasket	as required
Available cylinder bottom gaskets	0.2/0.3/0.5 mm
Cylinder-head gasket	O-rings (for 105: form rings)
Outer clutch cover	O-ring
Water pump cover	O-ring

TIGHTENING TORQUES - ENGINE		
Flange bolts - cylinder-head	M6	10 Nm
Nuts-cylinder base	M8	30 Nm
Flywheel collar nut	M12x1	60 Nm
Primary pinion bolt	M10x1.5	Loctite 243 + 80 Nm
Nut for inner clutch hub	M14x1.5	Loctite 243 + 60 Nm
Crankcase and cover bolts	M6	8 Nm
Spark plug	M14x1.25	20 Nm
Reed valve housing	M6	6 Nm
Kickstarter	M6	Loctite 243 + 12 Nm
Shift lever	M6	Loctite 243 + 12 Nm
Swingarm pivot	M14x1.5	75 Nm
Other bolts	M5	6 Nm
	M6	10 Nm

TIGHTENING TORQUES - CHASSIS		
Hexagon bolt - brake caliper	M8	Loctite 243 + 25 Nm
AH bolt rear brake pads	M6	5 Nm
Flat head bolt - brake discs	M6	Loctite 243 + 10 Nm
Hexagon nut - front wheel spindle	M10x1,5	40 Nm
Hexagon nut - rear wheel spindle	M20x1.5	80 Nm
Hexagon nut - swingarm bolt	M14/M16x1.5	75 Nm
Clamping bolts - top triple clamp	M8	20 Nm
Clamping bolts - bottom triple clamp	M8	15 Nm
Bolt - handlebar clamp	M8	20 Nm
AH screw - handlebar mount	M10	Loctite 243 + 40 Nm
Hexagon nut - fork fist	M6	10 Nm
Steering head nut	M20	10 Nm
HH screw - upper/lower shock absorber	M12	60 Nm
Rear sprocket screws	M8	Loctite 243 + 35 Nm
Ball joint for push rod	M6	Loctite 243 + 10 Nm
Engine carrier screw	M10	45 Nm
Reifenhalter	M8	12 Nm
Rim lock	M4,5/M5	5 Nm
Outrigger screw connection	M8	Loctite 243 + 35 Nm
Other chassis bolts/nuts	M6	10/15 Nm
	M8	25/30 Nm
	M10	45/50 Nm