

TECHNICAL SPECIFICATIONS – CHASSIS 250 SX, EXC, 300 MXC, EXC 2005

| | 250 SX | 300 MXC | 250/300 EXC |
|-------------------------------|---|------------------------------|--|
| Frame | Central chrome-moly-steel frame | | |
| Fork | White Power – Upside down 48 MA | | |
| Wheel travel front/rear | 300/335 mm (11.8/13.2 in) | | |
| Rear suspension | WP PDS 5018 (Progressive Damping System) shock absorber, aluminium swingarm | | |
| Front brake | Disc brake with carbon-steel brake disc Ø 260 mm (10.2 in), brake caliper floated | | |
| Rear brake | Disc brake with carbon-steel brake disc Ø 220 mm (8.7 in), brake caliper floated | | |
| Brake discs | Wear limit max. 0.4 mm (0.016 in) | | |
| Front tires | 80/100 - 21" 51M, M59 | – | 90/90 - 21" MT 83 |
| Front tires USA | – | 80/100 - 21" 51M, M59 | 80/100 - 21" 51M, M59 |
| 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" 62M, M70 | – | 140/80 - 18" MT 83 |
| Rear tires USA | – | 110/100 - 64M, M402 | 110/100 - 18" 64M, M402 |
| 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 (21 psi) | 2,0 bar (21 psi) |
| Fuel tank capacity | 7.5 liters (2 US gallons) | 10,5 liters (2.8 US gallons) | 8.5 / 10.5 liters (2.2 / 2.8 US gallons) |
| Final drive ratio | 13:48 t | – | 13:40 t |
| Final drive ratio USA | 13:48 t | 13:50 t | 13:50 t |
| Chain | 5/8 x 1/4 " | | |
| Available final sprockets | 38t, 40t, 42t, 45t, 48t, 49t, 50t, 51t, 52t | | |
| Bulbs | headlight 12V 35/35W Bilux (base Ba20d) parking light 12V 5W (base W2, 1x9,5d) instrument light 12V 1,2W (base W2, 1x4,6d) brake-rear light 12V 21/5W (base BaY15d) flasher light 12V 10W (base Ba15s) license plate illumination 12V 1,2W (base 1x4,6d) | | |
| Steering head angle | 63° | | |
| Wheel base | 1475 ± 10 mm (58.1 in ± 0.4 in) | | |
| Seat height, unloaded | 925 mm (36,5 in) | | |
| Ground clearance, unloaded | 385 mm (15.2 in) | | |

STANDARD ADJUSTMENT – FORK

| | 250 SX | 250/300 MXC, EXC |
|----------------------|---------------------------|------------------------|
| | WP 4860 MA-PA 14187A03 | WP 4860 MA 14187A04 |
| Compression adjuster | 22 | 20 |
| Rebound adjuster | 20 | 20 |
| Spring | 4.4 N/mm | 4.0 N/mm |
| Spring preload | 5 mm | 5 mm |
| Air chamber length | 100 mm | 110 mm |
| Fork oil | SAE 5 | SAE 5 |

STANDARD ADJUSTMENT – SHOCK ABSORBER

| | 250 SX | 250/300 MXC, EXC |
|----------------------|--|-----------------------------|
| | WP PDS 5018 DCC 12187A03 | WP PDS 5018 MCC 12187A04 |
| Compression adjuster | 15 LS (low speed) 2 HS (high speed) | 15 – |
| Rebound adjuster | 22 | 22 |
| Spring | 76 N/mm linear | 76 N/mm linear |
| Spring preload | 7 mm | 7 mm |

TIGHTENING TORQUES - CHASSIS

| | | |
|---|-----------|------------------|
| Collar screw, front wheel spindle | M 24x1,5 | 40 Nm |
| Brake caliper, front | M 8 | Loctite243 25 Nm |
| Brake disks | M 6 | Loctite243 10 Nm |
| Clamping screws, upper fork bridge (EXC) | M 8 | 20 Nm |
| Clamping screws, lower fork bridge (EXC) | M 8 | 15 Nm |
| Clamping screws, upper fork bridge (SX) | M 8 | 15 Nm |
| Clamping screws, lower fork bridge (SX) | M 8 | 10 Nm |
| Clamping screws, fork stubs | M 8 | 10 Nm |
| Collar nut, rear wheel spindle | M 20x1,5 | 80 Nm |
| Hexagon nut, swing arm bolt | M 16x1,5 | 100 Nm |
| Hexagon collar screw, handlebar clamp | M 8 | Loctite243 20 Nm |
| Allan head screw, handlebar support | M 10 | Loctite243 40 Nm |
| Shock absorber, top | M 12 | 80 Nm |
| Shock absorber, bottom | M 12 | 80 Nm |
| Sprocket screws | M 8 | Loctite243 35 Nm |
| Ball joint for push rod | M 6 | Loctite243 10 Nm |
| Engine mounting bolt | M 10 | 60 Nm |
| Engine brace | M 8 | 33 Nm |
| Screw adjusting ring spring preload shock abs | M 6 | 8 Nm |
| Spoke nipple | M 4,5 /M5 | 5 Nm |
| Other screws on chassis | M 6 | 10 Nm |
| | M 8 | 25 Nm |
| | M 10 | 45 Nm |
| Other collar nuts on chassis | M 6 | 15 Nm |
| | M 8 | 30 Nm |
| | M 10 | 50 Nm |

TIGHTENING TORQUES - ENGINE

| | | |
|---|-----------|-------------------|
| Flange bolts - cylinder-head | M 8 | 27 Nm |
| Nuts-cylinder base | M 10 | 35 Nm |
| Flywheel collar nut | M 12X1 | 60 Nm |
| Exhaust control - retaining bracket | M 5 | Loctite243 7 Nm |
| Exhaust control - control flap | M 6 | Loctite243 10 Nm |
| Exhaust control - lever for control segment | M 5 | Loctite243 6 Nm |
| Shift roller - bearing retaining bracket | M 6 | Loctite243 10 Nm |
| Shift lock | M 6 | Loctite243 10 Nm |
| Idler bolt | M 6 | Loctite243 10 Nm |
| Kickstarter release plate | M 6 | Loctite243 10 Nm |
| Spring hanger for kickstarter | M 6 | Loctite243 10 Nm |
| Oil drain plug with magnet | M 12X1,5 | 20 Nm |
| Water pump wheel | M 5 | Loctite243 6 Nm |
| Nut for primary sprocket (LH thread) | M 18X1,5 | Loctite243 150 Nm |
| Nut for inner clutch hub | M 18X1,5 | Loctite243 100 Nm |
| Crankcase | M 6 | 10 Nm |
| Spark plug | M 14X1,25 | 25 Nm |
| Kickstarter lever | M 8 | Loctite243 25 Nm |
| Shift lever | M 6 | Loctite243 10 Nm |
| Cover screws | M 5 | 6 Nm |
| Other bolts | M 6 | 10 Nm |
| | M 8 | 25 Nm |
| | M 10 | 45 Nm |