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| Frame | Central tube frame made of chrome molybdenum steel tubing |
| Fork | WP 4860 MXMA CC |
| Suspension travel | |
| Front | 300 mm (11.81 in) |
| Rear | 335 mm (13.19 in) |
| Fork offset | |
| Front marking | 18 mm (0.71 in) |
| Rear marking | 20 mm (0.79 in) |
| Shock absorber | WP PDS 5018 DCC |
| Brake system | Disc brakes, brake calipers on floating bearings |
| Diameter of brake discs | |
| front | 260 mm (10.24 in) |
| rear | 220 mm (8.66 in) |
| Wear limit of brake discs | |
| front | 2.5 mm (0.1 in) |
| rear | 3.5 mm (0.14 in) |
| Tire air pressure off road | |
| front | 1 bar (14.5 psi) |
| rear | 1 bar (14.5 psi) |
| Rear wheel gearing | 14:52 |
| Chain | 5/8 x 1/4" |
| Rear sprockets available | 38, 40, 42, 45, 48, 49, 50, 51, 52 |
| Steering head angle | 63.5° |
| Wheelbase | 1465...1485 mm (57.68...58.46 in) |
| Seat height unloaded | 925 mm (36.42 in) |
| Ground clearance unloaded | 380 mm (14.96 in) |
| Weight without fuel (450 SX-F, 505 SX-F) | 104.6 kg (230.6 lb.) |
| Weight without fuel (450 XC-F, 505 XC-F) | 108.3 kg (238.76 lb.) |
| Maximum permissible front axle load | 145 kg (319.67 lb.) |
| Maximum permissible rear axle load | 190 kg (418.87 lb.) |
| Maximum permissible overall weight | 335 kg (738.54 lb.) |

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| 3Ah battery (450 SX-F, 505 SX-F) | YTX4L-BS | Battery voltage: 12 V Nominal capacity: 3 Ah maintenance-free |
| 4Ah battery | YTX5L-BS | Battery voltage: 12 V Nominal capacity: 4 Ah maintenance-free |

| Validity | Front tire | Rear tire |
|----------------------|-------------------------------------|---------------------------------------|
| (450 SX-F, 505 SX-F) | 80/100 - 21 51 M TT Bridgestone M59 | 110/90 - 19 62 M TT Bridgestone M70 |
| (450 XC-F, 505 XC-F) | 80/100 - 21 51 M TT Bridgestone M59 | 110/100 - 18 64 M TT Bridgestone M402 |

Capacity - fuel

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| Tank capacity | 8.2 l (2.17 US gal) (450 SX-F, 505 SX-F) | Super unleaded (☛ 82) |
| | 9.2 l (2.43 US gal) (450 XC-F, 505 XC-F) | Super unleaded (☛ 82) |

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| Fork part number (450 SX-F, 505 SX-F) | 14.18.7D.05 |
| Fork part number (450 XC-F, 505 XC-F) | 14.18.7D.29 |
| Fork | WP 4860 MXMA CC |
| Compression damping (450 SX-F, 505 SX-F) | |
| Comfort | 16 clicks |
| Standard | 14 clicks |
| Sport | 12 clicks |
| Compression damping (450 XC-F, 505 XC-F) | |
| Standard | 20 clicks |
| Rebound damping (450 SX-F, 505 SX-F) | |
| Comfort | 22 clicks |
| Standard | 21 clicks |
| Sport | 21 clicks |
| Rebound damping (450 XC-F, 505 XC-F) | |
| Standard | 21 clicks |
| Spring length with preload spacer(s) (450 SX-F, 505 SX-F) | 492 mm (19.37 in) |
| Spring length with preload spacer(s) (450 XC-F, 505 XC-F) | 497 mm (19.57 in) |
| Spring rate (450 SX-F, 505 SX-F) | |
| Weight of rider: 65...75 kg (143.3...165.34 lb.) | 4.6 N/mm (26.27 lb/in) |
| Weight of rider: 75...85 kg (165.34...187.39 lb.) | 4.8 N/mm (27.41 lb/in) |
| Weight of rider: 85...95 kg (187.39...209.44 lb.) | 5 N/mm (28.55 lb/in) |
| Spring rate (450 XC-F, 505 XC-F) | |
| Weight of rider: 65...75 kg (143.3...165.34 lb.) | 4.4 N/mm (25.12 lb/in) |
| Weight of rider: 75...85 kg (165.34...187.39 lb.) | 4.6 N/mm (26.27 lb/in) |
| Weight of rider: 85...95 kg (187.39...209.44 lb.) | 4.8 N/mm (27.41 lb/in) |
| Gas pressure | 1.2 bar (17.4 psi) |
| Fork length | 940 mm (37.01 in) |

CAPACITY - FORK OIL

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| Oil capacity / cartridge | 195 ml (6.59 fl. oz.) | FORK OIL (☛ 83) |
| Oil capacity / fork tube without cartridge (450 SX-F, 505 SX-F) | 385 ml (13.02 fl. oz.) | FORK OIL (☛ 83) |
| Oil capacity / fork tube without cartridge (450 XC-F, 505 XC-F) | 375 ml (12.68 fl. oz.) | FORK OIL (☛ 83) |

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| Shock absorber part number (450 SX-F, 505 SX-F) | 12.18.7D.05 |
| Shock absorber part number (450 XC-F, 505 XC-F) | 12.18.7D.29 |
| Shock absorber | WP PDS 5018 DCC |
| Compression damping, low-speed (450 SX-F, 505 SX-F) | |
| Comfort | 16 clicks |
| Standard | 14 clicks |
| Sport | 12 clicks |
| Compression damping, low-speed (450 XC-F, 505 XC-F) | |
| Standard | 15 clicks |
| Compression damping, high-speed (450 SX-F, 505 SX-F) | |
| Comfort | 1 turn |
| Standard | 1 turn |
| Sport | 3/4 turn |
| Compression damping, high-speed (450 XC-F, 505 XC-F) | |
| Standard | 1 turn |
| Rebound damping (450 SX-F, 505 SX-F) | |
| Comfort | 25 clicks |
| Standard | 23 clicks |
| Sport | 22 clicks |
| Rebound damping (450 XC-F, 505 XC-F) | |
| Standard | 23 clicks |
| Spring preload | 7 mm (0.28 in) |
| Spring rate | |
| Weight of rider: 65...75 kg (143.3...165.34 lb.) | 66 N/mm (376.87 lb/in) |
| Weight of rider: 75...85 kg (165.34...187.39 lb.) | 69 N/mm (394 lb/in) |
| Weight of rider: 85...95 kg (187.39...209.44 lb.) | 72 N/mm (411.13 lb/in) |
| Spring length | 250 mm (9.84 in) |
| Gas pressure | 10 bar (145.04 psi) |
| Static sag | 33 mm (1.3 in) |
| Riding sag (450 SX-F, 505 SX-F) | 107 mm (4.21 in) |
| Riding sag (450 XC-F, 505 XC-F) | 110 mm (4.33 in) |
| Fitted length | 411 mm (16.18 in) |

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| Spoke nipple, front wheel | M4,5 | 5 Nm (3.69 lbf ft) | – |
| Spoke nipple, rear wheel | M5 | 5 Nm (3.69 lbf ft) | – |
| Remaining nuts, chassis | M6 | 15 Nm (11.06 lbf ft) | – |
| Remaining screws, chassis | M6 | 10 Nm (7.38 lbf ft) | – |
| Screw, rear brake disc | M6 | 14 Nm (10.33 lbf ft) | – |
| Screw, front brake disc | M6 | 14 Nm (10.33 lbf ft) | – |
| Screw, shock absorber adjusting ring | M6 | 5 Nm (3.69 lbf ft) | – |
| Screw, ball joint of push rod on footbrake cylinder | M6 | 10 Nm (7.38 lbf ft) | – |
| Nut, rear sprocket screw | M8 | 35 Nm (25.82 lbf ft) | Loctite® 243™ (☛ 84) |
| Nut, rim lock | M8 | 10 Nm (7.38 lbf ft) | – |
| Remaining nuts, chassis | M8 | 30 Nm (22.13 lbf ft) | – |
| Remaining screws, chassis | M8 | 25 Nm (18.44 lbf ft) | – |
| Screw, front brake caliper | M8 | 25 Nm (18.44 lbf ft) | Loctite® 243™ (☛ 84) |
| Screw, top triple clamp | M8 | 17 Nm (12.54 lbf ft) | – |
| Screw, bottom triple clamp | M8 | 12 Nm (8.85 lbf ft) | – |
| Screw, fork stub | M8 | 15 Nm (11.06 lbf ft) | – |
| Screw, top steering stem | M8 | 17 Nm (12.54 lbf ft) | Loctite® 243™ (☛ 84) |
| Screw, handlebar clamp | M8 | 20 Nm (14.75 lbf ft) | – |
| Screw, engine brace | M8 | 33 Nm (24.34 lbf ft) | – |
| Screw, subframe | M8 | 35 Nm (25.82 lbf ft) | Loctite® 243™ (☛ 84) |
| Screw, side stand fixing | M8 | 40 Nm (29.5 lbf ft) | Loctite® 243™ (☛ 84) |
| Engine carrying screw | M10 | 60 Nm (44.26 lbf ft) | – |
| Remaining nuts, chassis | M10 | 50 Nm (36.88 lbf ft) | – |
| Remaining screws, chassis | M10 | 45 Nm (33.19 lbf ft) | – |
| Screw, handlebar support | M10 | 40 Nm (29.5 lbf ft) | Loctite® 243™ (☛ 84) |
| Nut, seat fixing | M12x1 | 20 Nm (14.75 lbf ft) | – |
| Screw, top shock absorber | M12 | 80 Nm (59.01 lbf ft) | Loctite® 243™ (☛ 84) |
| Screw, bottom shock absorber | M12 | 80 Nm (59.01 lbf ft) | Loctite® 243™ (☛ 84) |
| Nut, swingarm pivot | M16x1,5 | 100 Nm (73.76 lbf ft) | – |
| Screw-in nozzles, cooling system | M20x1,5 | 12 Nm (8.85 lbf ft) | Loctite® 243™ (☛ 84) |
| Nut, rear wheel spindle | M20x1,5 | 80 Nm (59.01 lbf ft) | – |
| Screw, top steering head | M20x1,5 | 10 Nm (7.38 lbf ft) | – |
| Screw, bottom steering head | M20x1,5 | 60 Nm (44.26 lbf ft) | Loctite® 243™ (☛ 84) |
| Screw, front wheel spindle | M24x1,5 | 40 Nm (29.5 lbf ft) | – |