KTM
450 SX-F 2027

Motocross · 450cc 4T · US version

Safety recalls: see motoxsports.com/bikes/recalls/

Engine and chassis figures, as the manual prints them, are on the live page.

Verified
29 of 31 figures read off a manual page

GEARING

Stock front sprocket	13T ✓ p. 153
Stock rear sprocket	51T ✓ p. 153
Chain pitch	520 ⊜ calc.
Stock chain links	– Not yet verified
Stock final drive ratio	3.92 : 1 ⊜ calc.

WHEELS AND TIRES

Front rim	– Not yet verified
Rear rim	– Not yet verified
Front tire	80/100-21 51M TT ✓ p. 154
Rear tire	120/80-19 62M TT ✓ p. 154

SUSPENSION

Fork	WP XACT AER (air fork) ✓ p. 155
Fork travel	310 mm (12.20 in) ✓ p. 152
Shock travel	300 mm (11.81 in) ✓ p. 152
Stock fork spring rate	– Not yet verified
Stock shock spring rate	45 N/mm ✓ p. 158
Static sag, bike only	35 mm (1.38 in) ✓ p. 158
Race sag, rider on	105 mm (4.13 in) ✓ p. 158

FLUIDS AND CAPACITIES

Engine oil spec	SAE 10W/50 fully synthetic ✓ p. 152
Engine oil capacity	1.20 l (≈ 40.6 fl oz) ✓ p. 152
Coolant capacity	0.95 l (≈ 32.1 fl oz) ✓ p. 152
Fuel capacity	7.2 l (≈ 1.90 gal) ✓ p. 154

SERVICE SPECS

Fork oil ✓ p. 156
Fork oil (48601166S1) (SAE 4): right outer assembly 240 ml (8.12 fl. ozUS); left outer assembly 240 ml (8.12 fl. ozUS); right cartridge 380 ml (12.85 fl. ozUS)

Brake fluid	DOT 5.1 ✓ p. 101

Coolant type ✓ p. 152
Coolant; antifreeze protection to at least: −25 °C (−13.0 °F)

Fuel octane	Super unleaded (ROZ 95) ✓ p. 154

Idle speed ✓ p. 151
2,200 rpm … 2,300 rpm (36.67 Hz … 38.33 Hz)

Valve clearance ✓ p. 151
Intake at: 20 °C (68.0 °F) 0.10 mm … 0.15 mm (0.0039 in … 0.0059 in); Exhaust at: 20 °C (68.0 °F) 0.12 mm … 0.17 mm (0.0047 in … 0.0067 in)

MAINTENANCE

Tire pressure (off-road) ✓ p. 153
1.0 bar (14.5 psi) front and rear

Chain slack	58-61 mm (2.28-2.40 in) ✓ p. 89
Spark plug and gap	NGK LMAR9AI-10, gap 1.0 mm ✓ p. 152

Chain wear limit ✓ p. 91
Weight, chain wear measurement 10 kg … 15 kg (22.0 lb … 33.1 lb); Maximum distance of chain rollers at the longest chain section 272 mm (10.71 in)

Brake pad wear limit	≥ 1 mm (≥ 0.04 in) ✓ p. 101

Break-in, as printed ✓ p. 28
Do not exceed the specified engine speed and load during the running-in time. Maximum engine speed During the first operating hour 7,000 rpm (116.67 Hz) Maximum engine power during the first 3 operating hours ≤ 75 % Avoid fully opening the throttle.

DIMENSIONS

Seat height	958 mm (≈ 37.7 in) ✓ p. 153
Wheelbase	1493 mm (≈ 58.8 in) ✓ p. 153
Weight (weight without fuel approx.)	103.2 kg (≈ 228 lb) ✓ p. 153

SHOP NOTES

Date / hours

Sprockets run

✓ printed on the manual page shown
ⓘ maker web page or spec sheet ⊜ calculated, not printed
≈ converted by MotoXSports – not yet verified

Check your own manual before ordering parts or setting up the bike.