
General Specifications

Engine

Engine Type	4-stroke, 1-cylinder, SOHC, air cooled
Displacement	249 cc
Bore x Stroke	74.0 x 58.0 mm
Compression Ratio	11.0:1
Maximum HP	25 at 8,000 rpm
Maximum Torque	2.3 kg-m at 7,500 rpm
Carburetor	Keihin CVK34, constant velocity, diaphragm-type
Ignition System	Magneto CDI (Rotor)
Ignition Advance	Electronic
Crankshaft Rotation	Counterclockwise from ignition (RH) side
Cylinder Material	Aluminum alloy with ferrous sleeve
Fuel	Min 91 Research/87 Avg. Oct. Unleaded OK
Coolant	50% distilled water/50% ethylene glycol base antifreeze
— Capacity	1.45 liter
— Level	Between marks on reserve tank cover

Transmission

Clutch Type	Wet, multi-disc, manual
Transmission	5-speed, constant mesh, return shift, plus reverse
Gear Ratios	R-1-N-2-3-4-5
— 1st	3.00 (30/10)
— 2nd	2.00 (30/15)
— 3rd	1.50 (24/16)
— 4th	1.25 (25/20)
— 5th	1.05 (21/20)
— Reverse	2.93 (24/18 x 22/10)
Primary Ratio	3.05 (61/20)
Final Ratio	3.58 (43/12)
Overall Ratio	11.48

Chassis

Wheelbase	1,125 mm
Tread	855 mm
— Front	830 mm
— Rear	755 mm
Seat Height	215 mm
Ground Clearance	172 kg
Dry Weight	182 kg
Curb Weight	123 kg
Max Recom Load	8.3 liter
Fuel Tank Capacity	21 x 7.00-10
Tire Size	— Front
— Rear	22 x 10.00-10
Brake Type	— Front
— Rear	Dual Hydraulic Disc
Wheel Travel	— Front
— Rear	Single Hydraulic Disc
	175 mm
	215 mm

Model Identification

Year & Model	'04 KSF250-A18:KFX250 MOJAVE
Color	Lime Green (7F)
VIN Range	JKASFMA1 ✓4B538001 -
Engine No. Range	SF250AE012501 —
Engine No. Location	RH top crankcase, below carburetor

Tuning Specifications

Engine

Cylinder Head Torque	① 4.6 kg-m ② Warm up ③ Retorque cold
0= Step — Bolts	Intake: 0.20-0.24 mm
Valve Clearance (Cold)	Exhaust: 0.20-0.24 mm
— Adjustment method	Rocker arm screw
Spark Plug	NGK DPR8EA-9 or ND X234EPR-U9
— Gap	0.8 - 0.9 mm
Ignition Timing	10° BTDC ("F" mark) at 1,300 rpm
Pilot Screw	35° BTDC (in double marks) at 3,000 rpm
Idle Speed	Sealed — not adjustable
Engine Oil	1,300 ± 100 rpm
— w/filter change	SE class SAE 10W40, 10W50, 20W40, 20W50
— No filter change	2.0 liter
— Level	1.8 liter
— Pressure (hot)	On level ground, wait 5 min., middle of window
	2.0 - 2.5 kg/cm ² at 4,000 rpm, 90°

Chassis

Tire Pressure (Cold)	
— Front	0.25 kg/cm ² (3.6 psi)
— Rear	0.21 kg/cm ² (3 psi)
Drive Chain Slack	1.75 kg/cm ²
	40-50 mm