

KLX450R 2012



Specifications:

KLX450ACF

Engine Type	4-Stroke, Liquid Cooled, DOHC, 4-Valve, Single
Displacement	449.0 cm ³
Bore & Stroke	96.0 x 62.1 mm
Compression Ratio	12.0:1
Fuel System	Keihin FCR40
Ignition	Multi-Map Digital CDI with Throttle Position Sensor (K-TRIC)
Transmission	5-Speed
Rake/Trail	27.7°/ 122 mm
Front Wheel Travel	305 mm
Rear Wheel Travel	315 mm
Front Tire Size	80/100-21
Rear Tire Size	110/100-18
Front Suspension	48mm Inverted Kayaba AOS with 22-Way Compression and 20-Way Rebound Damping Adjustment
Rear Suspension	Uni-Trak with Adjustable Preload, 22-Way (Low Speed), Stepless (High Speed) Compression Adjustment, 22-Way Rebound Damping Adjustment, Temperature Compensating Rebound Adjustment
Wheelbase	1,480 mm
Front Brake	Semi Floating 250 mm Petal Disc & Twin Piston Calliper
Rear Brake	240 mm Petal Disc & Single Piston Calliper
Fuel Tank Capacity	8.0 litres
Ground Clearance	315 mm
Seat Height	935 mm
Curb Mass	125.8 kg (Includes full fuel tank and all fluids at correct levels)
Colours	Lime Green

(Specifications subject to change without notice.) (All images show US model)

Key Features:



High-Torque, Liquid-Cooled Engine



Compact Digital Meter



Adjustable Uni-Trak Suspension System

Kawasaki
Let the good times roll.

2012 KLX450R

450 Class High Performing Off-Road Enduro Weapon

The KLX450R is Kawasaki's lightest, fastest and most powerful big-bore 4-stroke off-road race machine ever. It gets its key components straight out of the mighty KX450F motocrosser and adapts them for off-road racing. The KX450F's high-powered, lightweight 4-stroke engine has been tweaked for more low-end torque and is mated to a special wide-ratio 5-speed transmission. Plus it comes with an electric starter. The lightweight all-aluminium chassis is balanced to provide both quick turning and light handling over a variety of terrain. The high-spec AOS inverted fork and superb rear suspension from the KX450F have been tuned for off-road competition and to minimise rider fatigue over long distances. Out of the crate, off-road competitors can now enjoy the same incredible engine and the same outstanding frame and suspension technologies as the class-leading KX450F, but in a bike purpose-built to excel in off-road racing.

High-Torque, 4-Stroke Engine

- Flywheel mass is double that of the KX450F to provide ultra-smooth power characteristics.
- Upright cylinder design centralizes mass and inertia points, particularly important on big bore single-cylinder engine.
- Connecting rod and crankshaft are case hardened to improve durability and rigidity. The big-end bearing features caged needle bearings for high rpm reliability.
- Aluminium cylinder with chrome composite plating provides rapid heat transfer, superb wear resistance and optimum lubrication retention for increased performance and durability.
- Precision manufactured, lightweight, forged piston with a low friction coating on the skirt. Single compression and oil rings keep friction low for quick throttle response. Thin walled crankcases reduce weight.
- Semi-dry sump (lubrication system for quicker engine response. The majority of oil is stored in the transmission to keep excess oil away from the crankshaft and prevent power-robbing stirring loss. With only a shallow chamber to collect oil at the bottom of the crankcase, where a scavenge pump moves it to the transmission, the crank is located as low as possible to help lower the centre of gravity.
- Unique crankcase breather system breathes through the balancer shaft located in the crankcase. Locating the breather in the crankcase allows the engine to rev more freely and centrifugal force prevents oil from exiting through the breath.
- Twin oil pumps ensure proper lubrication and oil scavenging for optimum performance.
- To eliminate external oil lines, oil passages are built into engine cases to reduce weight and improve reliability.

4-Valve Cylinder Head

- Camshaft lift and timing boost low- and mid-range torque for off-road riding.
- Ultra-smooth Intake ports improve intake efficiency.
- Lightweight titanium intake valves reduce reciprocating weight and are coated with an oxidized membrane treatment to resist wear.
- Dual, progressive, valve springs help ensure reliable valve control and reduce cylinder head height.
- Dual overhead, lightweight, camshafts are treated with a soft-nitriding surface treatment to reduce friction and provide reliable operation at all engine rpms.

Electric Starter

- Makes starting quick and easy.
- Kick starter retained from KX450F for back-up.

Liquid Cooling System

- Coolant reservoir tank added to help maintain efficient cooling during tight off-road riding.
- High-capacity Denso radiators feature tightly spaced cores and a special fin design for enhanced heat dispersion.
- Radiator profile is greatly reduced.
- Separate oil filter/water pump cover allows for easy oil filter maintenance.

Lightweight Exhaust System

- Light weight, tapered, head pipe with heat shield improves exhaust efficiency over a greater rpm range than straight tubing.
- Long fibre muffler packing is their and has longer fibres to extend intervals between muffler packing. The silencer core bolt-on silencer provides easy access for changing the packing.

Keihin FCR Carburettor

- Motocross Race inspired 40 mm FCR carburettor with accelerator pump offers precise fuel metering.
- Equipped with a hot start lever for easy starting when the engine is hot. When the hot start lever, located on the clutch perch, is pulled, a small plunger at the front of the carburettor opens a passage that draws additional air into the intake tract. More air leans out the fuel mixture to make starting a hot engine easier.
- U-shaped packing seal on the hot start plunger cable helps prevent water from entering the carburettor.

Multi-Map Digital Capacitor Discharge Ignition with TPS

- Lost spark control smooths over-rev power by precisely cutting spark as the engine nears redline. Spark gradually starts tapering off approximately 1,000 rpm before the rev limiter is reached so that power does not abruptly cut-out when the rev limiter is activated, like conventional systems.
- Accelerator Compensator monitors changes in rpm and adjusts ignition map to prevent wheel spin and improve traction.
- Phase-sensitive coil added to stator helps prevent kick-back during starting.
- Gear position sensors aids starting and provides precise spark control.

K-TRIC System

- Uses a digital microcomputer to monitor throttle position and engine rpm and adjusts ignition timing to maintain maximum power and minimize engine braking effect.

Wide-Ratio 5-Speed Transmission

- Gear ratings selected to specifically suit off-road competition.
- Gear sets and centre cases are compact allowing frame to be narrower at rider's ankles.
- Engine tuned for wide engine powerband to optimise gear ratios.
- Teflon lined clutch cable provides smooth action and clutch feel.

Aluminium Perimeter Frame

- Composed of a combination of forged, extruded and cast parts, the aluminium frame is designed with a balance of torsional and longitudinal rigidity for quick handling and stability.
- Design emphasis on providing maximum traction under acceleration. Specific chassis dimensions (swingarm pivot, output shaft, linkage mounts, and rear axle) placed to prevent chassis squat and improve traction. Centralized key inertia points improve handling.
- Steep rake for quick handling.
- Footpegs are located high for optimum cornering clearance, and the frame is narrow at the peg mounts for improved riding position and cornering clearance.
- A works-style aluminium skid plate and plastic engine guards come as standard equipment.
- To further reduce weight, aluminium was used instead of steel for several components: the clutch cable elbow, the clutch cable fitting nuts, the fuel tank fitting nuts, the seat mounting brackets, the front brake hose clamp. An aluminium steering stem nut and thin stainless steel washer are utilized to shave weight.

Uni-Trak Rear Suspension

- Alloy swingarm uses a cast front section, tapered hydro-formed spars, and forged chain blocks. The tapered shape of the spars works in union with the aluminium frame to improve handling and rear suspension feel.
- Uni-Trak rear suspension linkage ratios suit the aluminium frame and swingarm. The linkage mounts underneath the swingarm allowing additional rear suspension travel yet maintaining a low seat height. The additional rear travel offers improved suspension action over a wider range of track conditions.
- Compact rear chain guide helps save weight.
- The linkage bushings are all collared sleeves for easy maintenance.
- The shock features dual compression adjustability, allowing high-speed and low-speed damping to be tuned separately. A single, large port into the adjuster improves rider feel and adjustability over previous twin adjusters.
- Threaded preload allows many tuning options.
- Thin shock spring coils reduce weight.

Kayaba AOS Cartridge Fork

- The Kayaba twin-chamber fork keeps oil and air in separate chambers for stable damping performance lap after lap.
- Damping settings, cylinder compression piston assembly, and Travel Control Valve (TCV) offer class leading fork action and rider feel.
- Triple clamp design and upper fork tubes taper match the torsional and longitudinal rigidity of the aluminium chassis.
- Fully-adjustable damping allows the suspension to be tuned for specific conditions.
- The bolt-on handlebar mounts have rubber dampers to reduce vibration and can be rotated to change handlebar position.

Petal Front and Rear Discs

- Petal brake discs front and rear reduce unsprung weight, and help clean the brake pads for more efficient braking performance.
- Two piston front brake calliper with semi-floating disc.
- Forged aluminium rear brake pedal has a large mounting bolt and the lever has a large "foot" with sharp teeth to provide a solid feel, and easier operation in difficult conditions.
- Integrated rear brake fluid reservoir/master cylinder for reliability.

Fully Equipped for Off-Road Competition

- Lightweight digital instrumentation with speedometer, odometer, twin trip meters and clock.
- 8.0 litre fuel tank with reserve petcock.
- Compact lighting with 35-watt headlight and energy-efficient LED stop/taillight.
- Two-piece left side cover allows quick access to the air filter.
- Self retracting side-stand meets regulations and comes as standard equipment.
- Australian model is fitted with all applicable road equipment to meet local registration requirements.
- Bark Busters are fitted standard.

Kawasaki Accessories

- See www.kawasaki.com.au for all of the latest Authentic Kawasaki Accessories available for this model.

New for 2012

- New graphics.



Keep the good times rolling.

Kawasaki
Let the good times roll.