

CRF150R2

2009 Press Information



Introduction

With their powerful and responsive Unicam four-stroke engines, race-ready suspension and track-designed chassis components, the CRF150R and big-wheel CRF150R2 have revolutionised the small-displacement class and become familiar faces on winners' podiums around the world. Seasoned riders will appreciate the thrilling performance of a true Honda CRF ride. Aspiring young riders will revel in its big-bike performance and handling attributes. The CRF150R/CRF150R2 is the ideal tool for inspiring fun-filled exhilaration, confidence and a lifelong taste for winning!

Colours

- Extreme Red (with White number plate and sidecovers)

Features and Benefits

Engine/Drivetrain

- Powerful 149cm³ liquid-cooled 4-stroke 4-valve Unicam engine produces impressive power across a wide rev range for easy-to-control operation.
- Compact, lightweight engine assembly weighs only 19.8 kilograms.
- Unicam valve train features a single camshaft directly actuating two 26mm steel intake valves combined with twin, low-friction rocker arms actuating two 22.5mm steel exhaust valves. This compact design provides the light weight of a single-cam drive and an optimum combustion chamber shape for maximum power at all engine speeds.
- Crankshaft made of high-strength, low-carbon steel with carburized main journals for maximum durability at sustained high-rev operation.
- Forged slipper piston and rings are lighter than conventional designs, feature high 11.7:1 compression, and rev quickly while maintaining excellent cylinder sealing and high-rpm power.
- Double-carburized connecting rod utilises big-end needle bearing for maximum high-rpm performance and durability.
- Lightweight NiCaSil cylinder lining ensures cooler operation for extended engine life.
- Press-fitted aluminium spark plug pipe fits between the two exhaust rocker arms, further contributing to compact cylinder-head design.
- Gear-driven balancer reduces vibration and drives the water pump.
- Lightweight, compact, internal auto decompression and handlebar-mounted hot-start system ensure easy starting, hot or cold.
- 32mm Keihin FCR flat-slide carburettor features four rollers on the slide for light throttle effort, smooth operation, crisp throttle response and excellent rideability.

- Carburettor features throttle position sensor (TPS) that helps maintain linear response throughout the rev range.
- Vertically split crankcase features a built-in oil pump, reducing weight compared to conventional designs.
- Twin-sump lubrication system separates the oil supply for the crankshaft, piston and valve train from the clutch and transmission. This ensures a cool supply of oil to the clutch, eliminates potential clutch and transmission material contamination of the engine oil, reduces the amount of circulating oil and permits the use of a smaller oil pump.
- Rugged six-plate clutch has ample surface area to handle the engine's impressive torque, while carefully matched clutch springs provide a light feel at the lever.
- Durable close-ratio five-speed transmission.
- Exhaust system uses lightweight stainless exhaust header and repackable aluminium muffler.
- Dual radiators feature a refined core area for improved heat dissipation compared to conventional dual-radiator designs.

Chassis/Suspension

- Lightweight, high-tensile steel frame with large-diameter frame tubing and cross-member provides excellent turning performance and straight-line tracking.
- Removable sub-frame is strong and durable.
- Wide-section aluminium top and bottom triple-clamps position fork tubes far apart for excellent turning and control.
- Tapered-roller steering-head bearings enhance durability.
- 37mm inverted leading-axle Showa cartridge-type front fork features friction-reducing design to improve compression and rebound control.
- Front fork offers adjustable compression and rebound settings.



- Lightweight and rigid box-section aluminium swingarm.
- Pro-Link rear suspension system features fully adjustable Showa damper for superb compliance and wheel control.
- Unique CRF150R front and rear suspension settings deliver ideal bump absorption characteristics.
- Strong, lightweight wheels are durable and minimise unsprung weight.
- Lightweight front and rear disc brakes with high-performance pads offer powerful, precise braking control.
- Stout 15mm front and 17mm rear axles incorporate a surface treatment for added strength and durability.
- Stainless steel clutch cable for long life and improved feel and action.

Additional Features

- Lightweight plastic body components (radiator shrouds, sidecovers, rear fender, seat base, fuel tank, front fender and front number plate) feature a slim, aggressive style.
- Seat cushion foam follows the shape of the fuel tank, providing a smooth transition to increase rider mobility and comfort.
- Non-slip seat cover for increased rider control.
- Large-capacity airbox and reusable two-stage foam air filter.
- High-quality Dunlop tyres.
- Handlebar bend optimises rider position and comfort.
- Adjustable front brake lever and compact master-cylinder assembly.
- HRC works-type rear brake system integrates the rear master cylinder and fluid reservoir, eliminating the separate rear master-cylinder reservoir and hose.
- Works-type handlebar grips add to rider comfort.



Specifications

General		
Model		CRF150R2
Mold Type		ED-type
Engine		
Type		Liquid-cooled 4-stroke 4-valve SOHC single
Displacement		149cm ³
Bore x Stroke		66 x 43.7mm
Compression Ratio		11.7 : 1
Max. Power Output		16.6kW / 12,500min ⁻¹
Max. Torque		13.6Nm / 10,000min ⁻¹
Fuel System		
Carburation		32mm Keihin FCR flat slide carburettor with throttle position sensor (TPS)
Fuel Tank Capacity		4.3 litres
Electrical System		
Ignition System		Solid-state Capacitor Discharge (CDI) with electronic advance
Starter		Primary kick
Drivetrain		
Transmission		5-speed
Primary Reduction		4.117 (70/17)
Gear Ratios		2.214 (31/14)
	2	1.647 (28/17)
	3	1.318 (29/22)
	4	1.105 (21/19)
	5	0.956 (22/23)
Final Reduction		3.733 (56/15)
Final Drive		#420 roller chain
Frame		
Type		Semi-double cradle; steel tube
Chassis		
Dimensions		1,900 x 770 x 1,171mm
Wheelbase		1,285mm
Caster Angle		27° 48'
Trail		96mm
Seat Height		866mm
Ground Clearance		336mm
Kerb Weight		82.3kg
Suspension		
Type	Front	37mm inverted Showa leading-axle telescopic fork with adjustable compression and rebound damping; 241.3mm axle travel
	Rear	Pro-Link with single Showa damper, adjustable compression and rebound damping; 290.5mm axle travel

Wheels		
Type	Front	Aluminium rim/wire spoke
	Rear	Aluminium rim/wire spoke
Rim Size	Front	19 x 1.40
	Rear	16 x 1.85
Tyre Size	Front	70/100 19 (42M)
	Rear	90/100 16 (52M)
Brakes		
Type	Front	220 x 3mm hydraulic disc with single-piston calliper and sintered metal pads
	Rear	190 x 3.5mm hydraulic disc with single-piston calliper and sintered metal pads