

# **2005 CR85R/CR85R2 PRESS INFORMATION**

Honda's CR85R and bigger-wheeled CR85R2 have won over generations of riders by delivered big thrills in small and lightweight packages. Offering dynamic racer looks backed up by class-leading performance, both of these mini-motocrossers feature hot-revving 85cc liquid-cooled engines and high-tuned, easy handling chassis and suspensions to help younger riders get quickly up to speed in the exciting world of off-road competition. With two wheel sizes to chose from, kids and novices of all sizes can easily enjoy all the fun and thrills of motocross riding, gaining greater confidence with every lap as they hone their dirt track riding skills on a true mini-champion and a first-class choice for young racers.

## **Colours**

- Extreme Red (with White number plate and sidecovers)

## **Features and Benefits**

### **New Features**

- New cylinder and cylinder head boost engine torque for improved acceleration.
- New piston complements new cylinder and engine power characteristics.
- New exhaust system matches cylinder changes to deliver maximum bottom-end torque and peak power output.
- New 28mm flat-slide PWK-type carburettor delivers improved throttle response throughout the powerband.
- New improved carbon fibre reed valve maximises fuel flow to the cylinder for improved low-end torque and increased durability.
- New crankshaft and connecting rod bearing for increase durability.
- All-new maintenance-free digital transistorised capacitor discharge ignition (CDI) for improved power output at all engine speeds.
- Six-speed transmission features new gears and modified shift forks and drum for more positive shifts and improved durability.
- Heavy-duty clutch features new friction discs for increased durability.
- New clutch cable provides smoother operation and easier control.
- New 49-tooth rear sprocket matches new engine power characteristics.
- New front and rear suspension settings for improved bump absorption.
- New handlebar bend optimises rider position and comfort.
- Non-slip seat cover for increased rider control.

### **Engine/Drivetrain**

- Lightweight, liquid-cooled 84.7cm<sup>3</sup> engine develops impressive power. Features NiCaSil-plated cylinder for excellent cooling and wear characteristics.
- Reed-valve induction and 28mm carburettor for crisp throttle response throughout the engine's rev range.
- Lightweight aluminium radiator for consistent engine temperatures and maximum performance.
- Heavy-duty clutch.
- Maintenance-free CDI with electronic advance.

- Low-mounted exhaust system enhances mass centralisation and contributes to high peak power.
- Slick-shifting close-ratio 6-speed transmission.

### **Chassis/Suspension**

- Lightweight, high-tensile steel frame with large-diameter frame tubing and cross-member provides excellent turning performance and straight-line tracking.
- Box-section aluminium swingarm is lightweight and rigid.
- Removable sub-frame is strong and durable.
- 37mm leading-axle inverted Showa cartridge front fork features friction-reducing design to improve compression and rebound control.
- Front fork offers adjustable compression and rebound settings.
- Wide-section aluminium top and bottom triple-clamps position fork tubes far apart for good turning and control.
- Tapered-roller steering head bearings.
- Pro-Link rear suspension system features a fully adjustable Showa damper for superb compliance and wheel control.
- Strong, lightweight wheels are durable while minimising unsprung weight.
- Lightweight front and rear disc brakes with high performance pads offer powerful, precise braking.
- Front and rear axles utilise an advanced surface treatment for added strength and durability.

### **Additional Features**

- Slim, well-padded seat allows maximum rider movement and comfort.
- Non-slip seat cover enhances rider control.
- Large-capacity airbox and reusable two-stage foam air filter.
- Cleated, folding, self-cleaning footpegs offer excellent grip.
- Fully adjustable, high-quality controls include comfortable grips, dogleg levers, side-pull throttle and a folding shift lever.
- High-quality, high-grip tires.
- Adjustable front brake lever and master cylinder assembly identical to CR125R/CR250R components.

- Stainless steel clutch cable for long life and improved feel and action.
- Racing inspired body work design.

<b>Specifications</b>		<b>CR85R /*CR85R2 (ED-type)</b>	
<b>Engine</b>			
Type		Liquid-cooled 2-stroke single	
Displacement		84.7cm <sup>3</sup>	
Bore x Stroke		47.5 x 47.8mm	
Compression Ratio		8.4 : 1	
Max. Power Output		19.2kW/12,000min <sup>-1</sup> (95/1/EC)	
Max. Torque		15.3Nm/10,500min <sup>-1</sup> (95/1/EC)	
Carburation		28mm Keihin PWK flat-slide carburettor (PWK10A)	
Ignition System		Capacitor discharge (CDI) with electronic advance	
Starter		Primary kick	
<b>Drivetrain</b>			
Transmission		6-speed	
Primary Reduction		4.117 (70/17)	
Gear Ratios	1	2.267 (34/15)	
	2	1.722 (31/18)	
	3	1.400 (28/20)	
	4	1.174 (27/23)	
	5	1.042 (25/24)	
	6	0.920 (23/25)	
Final Reduction		3.267 (49/15)(*3.667 (55/15))	
Final Drive		#420 roller chain	
<b>Chassis</b>			
Frame		Semi-double cradle; steel tube	
Dimensions	(LxWxH)	1,803 x 769 x 1,126mm	(*1,881 x 769 x 1,170mm)
Wheelbase		1,247mm	(*1,288mm)
Caster Angle		26° 51'	(*27° 25')
Trail		76.7mm	(*92.3mm)
Seat Height		824mm	(*864mm)
Ground Clearance		311mm	(*353mm)
Fuel Tank Capacity		5.3 litres	
Dry Weight		66kg	(*68kg)
Kerb Weight		70.7kg	(*72.7kg)

## **Suspension**

Type	Front	37mm inverted Showa leading-axle telescopic fork with adjustable compression and rebound damping; 274.3mm (*274.3mm) axle travel
	Rear	Pro-Link with single Showa damper, adjustable compression and rebound damping; 275mm (*292mm) axle travel

## **Wheels**

Type	Front	17 x 1.40 (*19 x 1.40) aluminium rim/wire spoke
	Rear	14 x 1.60 (*16 x 1.85) aluminium rim/wire spoke
Tyres	Front	70/100-17 40M (*70/100-19 42M)
	Rear	90/100-14 49M (*90/100-16 52M)

## **Brakes**

Type	Front	220mm hydraulic disc with single-piston calliper and sintered metal pads
	Rear	190mm hydraulic disc with single-piston calliper and sintered metal pads *CR85R2

All specifications are provisional and subject to change without notice.