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CANNONDALE MOTORSPORTS

cannondale
HANDMADE IN USA



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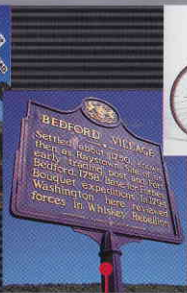
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30 Years of Innovation Made in America



June
1971

Joe Montgomery starts Cannondale at the Cannondale train station in Wilton, Connecticut.

April
1977

Cannondale's Bedford, Pennsylvania factory opens in a refurbished truck terminal.

June
1983

Cannondale ships its first bicycle, the ST500, with the world's first affordable high-performance aluminum frame.

November
1991

Cannondale introduces its first mountain bike with rear suspension, the E.S.T.

April
1992

The Cannondale HeadShok front suspension fork for mountain bikes is introduced.

October
1993

Cannondale is granted patent #5,249,818 for its innovative frame production process.

November
1997

Cannondale begins researching the feasibility of manufacturing a high-performance off-road motorcycle.

February
1998

Cannondale formally announces plans to produce an American-made motocross motorcycle, the MX400.

February
1999

An MX400 prototype is unveiled at the annual motorsports industry trade show in Indianapolis, Indiana.

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**May
1999**

The Cannondale MX400 is named Dirt Rider magazine's "Bike Of The Year."

**June
1999**

Construction of Cannondale's 100,000 square-foot motorsports factory in Bedford, Pennsylvania is completed.

**February
2000**

Cannondale unveils the FX400 ATV at the Indianapolis trade show, to considerable media and dealer excitement.

**May
2000**

Cannondale begins shipping the MX400, the first American-made motocrosser in more than 20 years.

**February
2001**

Cannondale begins shipping the FX400, the world's first ATV with electronic fuel-injection and a lightweight aluminum frame.

**May
2001**

In a review of the FX400, 4-Wheel ATV Action says, "in a contest of all-out performance with the Cannondale, it looks like Honda, Yamaha and Bombardier brought knives to a gun fight."

**May
2001**

Cannondale announces partnership with OPTIMUM Power Technology, makers of the high-performance GP Control electronic fuel-injection system.

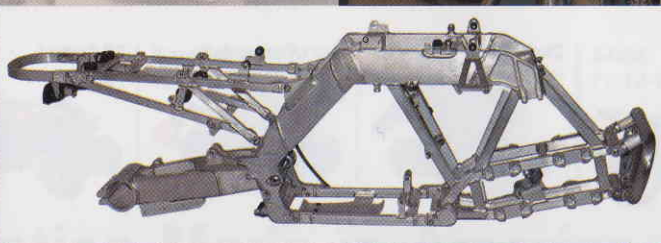
**August
2001**

Cannondale introduces its 2002 model-year product line, consisting of four high-performance off-road motorcycles and four high-performance ATVs.

**September
2001**

The world's only factory-level ATV racing squad – the Nac's/Cannondale team – is announced.

Engine	Four-stroke single
Displacement	432cc
Bore & Stroke	95 x 61 mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 10,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric
Compression Release	Automatic
Clutch Type	Manual, hydraulic
Transmission	5-speed cassette, no reverse
Final Drive	2WD/Chain
Frame Type	Aluminum, twin-spar, perimeter
Length	73.5"
Width	46.4"
Turning Radius	8.0'
Front Suspension	9" travel
Rear Suspension	10" travel
Front Brake	Hydraulic, dual disc w/parking
Rear Brake	Hydraulic, single disc
Front Tire	21 x 7-10
Rear Tire	20 x 11-9
Wheelbase	49.5"
Ground Clearance	4.5"
Seat Height	32.5"
Fuel Capacity	3.2 gallons
Dry Weight	375 lbs.
Color	Viper Red



The Cannibal's lightweight CAAD frame is hand-welded from 6061-T6 aluminum at our Bedford, Pennsylvania factory using techniques that we've been perfecting for two decades. The innovative frame has a linkless rear suspension and in-frame oil reservoir, plus a replaceable brush guard, engine rails, grab rail, sub-frame and steering stop.





CANNIBAL

Cannondale's base-model ATV, a hard-core combo of high-tech, high-performance, and high-value.

Engine	Four-stroke single
Displacement	432cc
Bore & Stroke	95 x 61 mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric
Compression Release	Automatic
Clutch Type	Manual, hydraulic
Transmission	5-speed cassette, no reverse
Final Drive	2WD/Chain
Frame Type	Aluminum, twin-spar, perimeter
Length	73.5"
Width	46.4"
Turning Radius	8.0'
Front Suspension	9" travel
Rear Suspension	10" travel
Front Brake	Hydraulic, dual disc w/parking
Rear Brake	Hydraulic, single disc
Front Tire	21 x 7-10
Rear Tire	20 x 11-9
Wheelbase	49.5"
Ground Clearance	4.5"
Seat Height	32.5"
Fuel Capacity	3.2 gallons
Dry Weight	370 lbs.
Color	Metallic Silver with Yellow



The rev limiter on the Speed is set at 11,600 RPM for true racing performance. The higher setting lets you take full advantage of the horsepower in the high end of the engine's rev range, giving you that last blast of power to make the pass without having to jump to the next highest gear.





SPEED

The successor to our ground-breaking FX400, up-spec'd for 2002 with GP Control fuel-injection technology and many other improvements.

Engine	Four-stroke single
Displacement	432cc
Bore & Stroke	95 x 61 mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric
Compression Release	Automatic
Clutch Type	Manual, hydraulic
Transmission	5-speed cassette, no reverse
Final Drive	2WD/Chain
Frame Type	Aluminum, twin-spar, perimeter
Length	73.5"
Width	46.4"
Turning Radius	8.0'
Front Suspension	9" travel
Rear Suspension	10" travel
Front Brake	Hydraulic, dual "wave" disc w/parking
Rear Brake	Hydraulic, single "wave" disc
Front Tire	22 x 7-10
Rear Tire	20 x 11-9
Wheelbase	49.5"
Ground Clearance	4.5"
Seat Height	32.75"
Fuel Capacity	3.2 gallons
Dry Weight	375 lbs. (competition weight)
Color	Metallic Silver with Red



The Blaze is tricked-out for GNCC domination, with six-ply ITP Holeshoot XC and XCR racing tires and a fully-hydraulic Magura clutch. The Magura clutch delivers reliable and consistent feel at the lever, and a light action that you'll appreciate even more after hours of battling it out in the saddle.





BLAZE

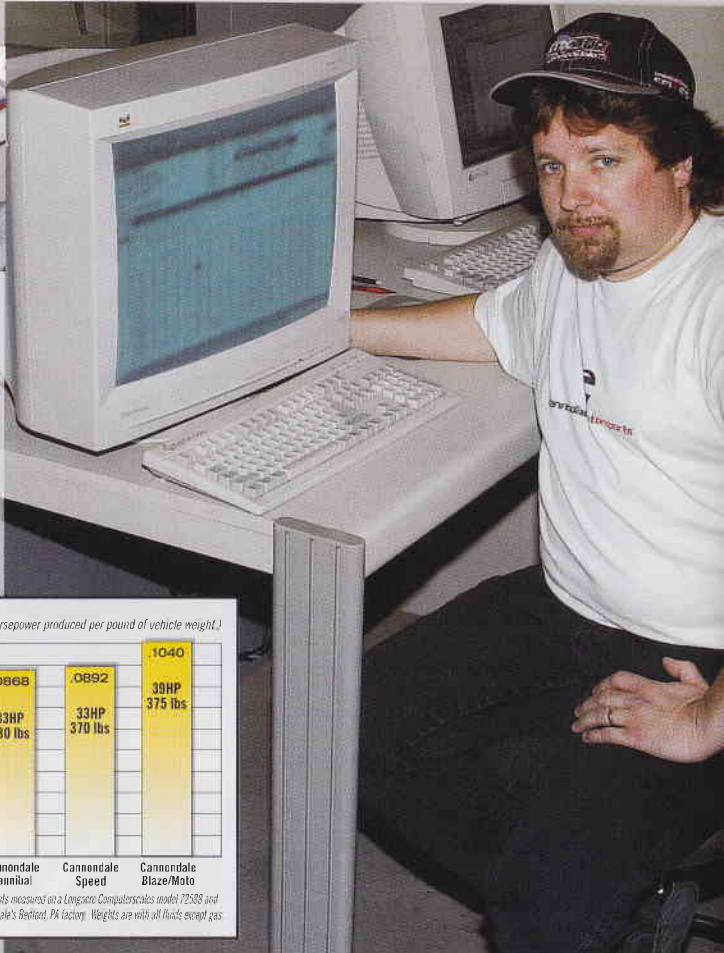
Our new "no upgrades necessary" GNCC woods racer. Dialed-in to dominate, it comes spec'd with everything you'll need to roost the competition.



Engine	Four-stroke single
Displacement	432cc
Bore & Stroke	95 x 61 mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric
Compression Release	Automatic
Clutch Type	Manual, hydraulic
Transmission	5-speed cassette, no reverse
Final Drive	2WD/Chain
Frame Type	Aluminum, twin-spar, perimeter
Length	73.5"
Width	50.0"
Turning Radius	8.7'
Front Suspension	11" travel
Rear Suspension	10" travel
Front Brake	Hydraulic, dual "wave" disc w/parking
Rear Brake	Hydraulic, single "wave" disc
Front Tire	22 x 6-10
Rear Tire	18 x 11-8
Wheelbase	50.0"
Ground Clearance	4.25"
Seat Height	29.0"
Fuel Capacity	3.2 gallons
Dry Weight	375 lbs. (competition weight)
Color	Metallic Silver with Red

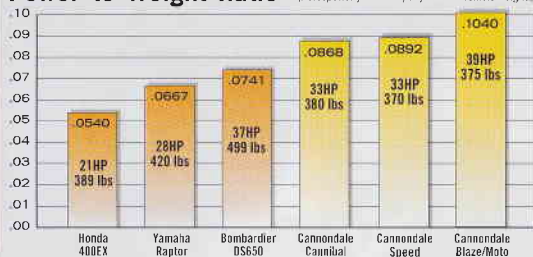


The Moto 440 is the Nac's/Cannondale team's choice for GNC motocross competitions. Totally race-ready, the Moto 440 has adjustable A-arms and rear axle, Ohlins multispring racing shocks, ITP Holeshot MX tires with bead-lock wheels, nerf bars, TAG handlebars, and integrated front and rear number plates.



Power-to-Weight-Ratio

(Horsepower produced per pound of vehicle weight.)



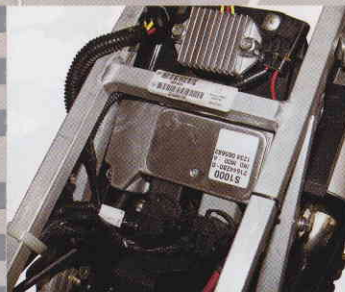
Horsepower measured at the rear wheels on a SuperFirn Cyclops dynamometer. Weights measured on a Longacre Computerscales model 7250S and Race Lake Weighing Systems RoughBlock HP tow scale. All data measured at Cannondale's Bedford, PA factory. Weights are with all fluids except gas.



moto 440

The world's finest production motocross ATV, totally race ready "out-of-the-box."

Engine	Four-stroke single
Displacement	432cc
Bore x Stroke	95mm x 61mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric start
Compression Release	Automatic
Lubrication System	Dry sump
Clutch Type	Manual
Transmission	Five-speed cassette
Final Drive	520 chain
Frame Type	Aluminum, twin-spar, perimeter
Front Suspension	Ohlins 46mm USD, external compression and rebound damping adjustment, 12.0-inch travel
Rear Suspension	Ohlins linkless position-sensitive damping single-shock, external compression and rebound damping adjustment, 12.6-inch travel
Front Brake	240mm disc, Nissin dual-piston caliper
Rear Brake	220mm disc, Nissin single-piston caliper
Front Tire	80/100-21
Rear Tire	110/100-19
Steering Head Angle	27.5 degrees
Wheelbase	58.5 inches
Ground Clearance	14.2 inches
Seat Height	38.0 inches
Fuel Capacity	2.1 gallons
Dry Weight	244 pounds
Color	Silver Metallic



Every Cannondale motorcycle and ATV features a fully tunable GP Control electronic fuel-injection system. Electronic fuel-injection is superior to standard carburetion because it automatically monitors and compensates for changes in temperature and air pressure, providing improved horsepower, better throttle response, improved cold and hot starts, reduced stalling, and better idling.



X440s



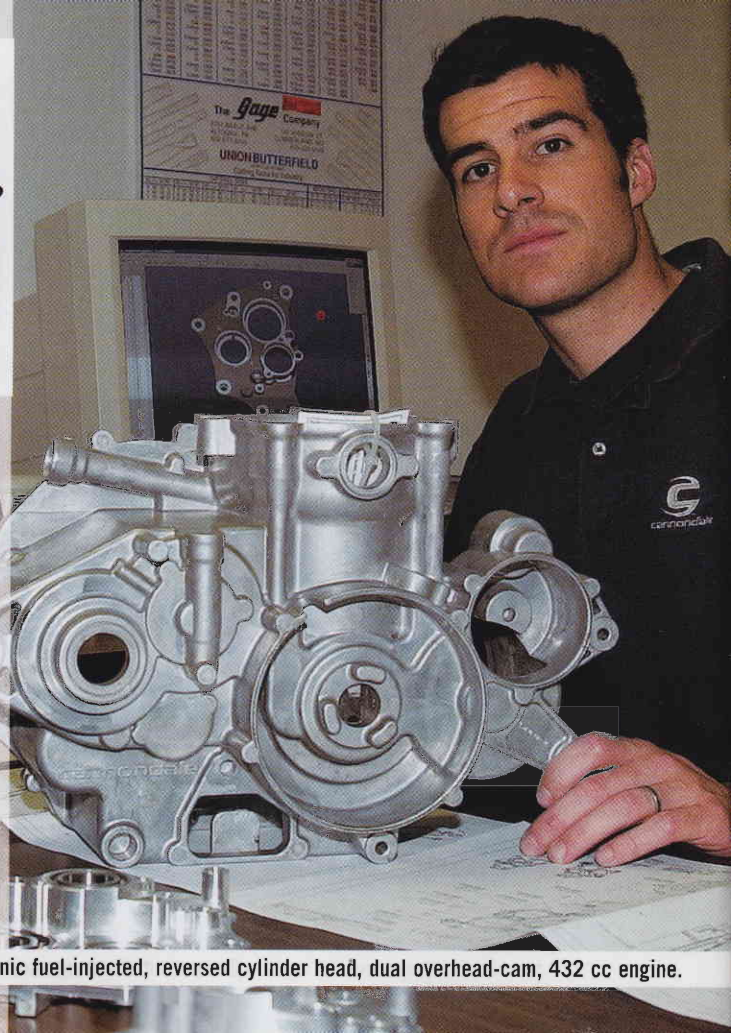
Cannondale's base-model motocrosser. Awesome performance and hand-built American innovation.



Engine	Four-stroke single
Displacement	432cc
Bore x Stroke	95mm x 61mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM Soft Rev Limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric start
Compression Release	Automatic
Lubrication System	Dry sump
Clutch Type	Manual, hydraulic
Transmission	Five-speed cassette
Final Drive	520 chain
Frame Type	Aluminum, twin-spar, perimeter
Front Suspension	Ohlins 46mm USD, external compression and rebound damping adjustment, 12.0-inch travel
Rear Suspension	Ohlins linkless position-sensitive damping single-shock, external compression and rebound damping adjustment, 12.6-inch travel
Front Brake	240mm disc, Nissin dual-piston caliper
Rear Brake	220mm disc, Nissin single-piston caliper
Front Tire	80/100-21
Rear Tire	110/100-19
Steering Head Angle	27.5 degrees
Wheelbase	58.5 inches
Ground Clearance	14.2 inches
Seat Height	38.0 inches
Fuel Capacity	2.0 gallons
Dry Weight	242 pounds
Color	Silver Metallic



Cannondale's American-made, reversed cylinder head power-plant sets a new benchmark for innovation. Our 432 cc, dual overhead-cam, four-stroke engine has electronic fuel-injection for maximum performance, electric start for hassle-free operation, cassette transmission for ease of maintenance, a bomb-proof one-piece crankcase, and separate engine and transmission oils for reduced wear.



X440



Our new flagship MX racer. Handmade in America to take on the world.

Engine	Four-stroke single
Displacement	432cc
Bore x Stroke	95mm x 61mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric start
Compression Release	Automatic
Lubrication System	Dry sump
Clutch Type	Manual, hydraulic
Transmission	Five-speed cassette
Final Drive	520 O-ring chain
Frame Type	Aluminum, twin-spar, perimeter
Front Suspension	Ohlins 46mm USD, external compression and rebound damping adjustment, 12.0-inch travel
Rear Suspension	Ohlins linkless position-sensitive damping single-shock, external compression and rebound damping adjustment, 12.6-inch travel
Front Brake	240mm disc, Nissin dual-piston caliper
Rear Brake	220mm disc, Nissin single-piston caliper
Front Tire	80/100-21
Rear Tire	120/100-18
Steering Head Angle	27.5 degrees
Wheelbase	58.5 inches
Ground Clearance	14.2 inches
Seat Height	38.0 inches
Fuel Capacity	2.6 gallons
Dry Weight	245 pounds
Color	Silver Metallic



Located under the seat on our X440, E440 and C440, the all-new Max-Air Box improves throttle response while increasing overall power throughout the powerband. The Max-Air Box's under-seat location also simplifies service, so air filter changes can now be performed without tools in less than sixty seconds.



C440

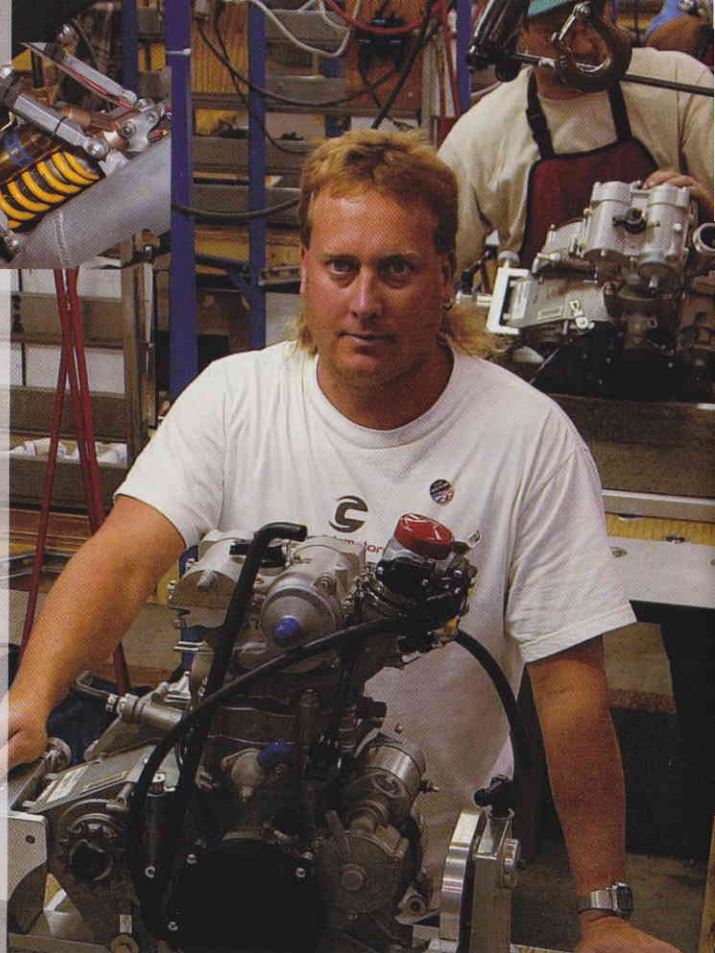


Aggressive MX-level speed and performance in a sweet-handling cross-country racing package.

Engine	Four-stroke single
Displacement	432cc
Bore x Stroke	95mm x 61mm
Compression Ratio	12.5:1
Valve Train	DOHC, four-valve
Fuel System	EFI, 11,600 RPM soft rev limiter
Cooling System	Liquid-cooled
Ignition System	Constant-energy inductive coil
Starting System	Electric start
Compression Release	Automatic
Lubrication System	Dry sump
Clutch Type	Manual, hydraulic
Transmission	Five-speed cassette
Final Drive	520 O-ring chain
Frame Type	Aluminum, twin-spar, perimeter
Front Suspension	Ohlins 46mm USD, external compression and rebound damping adjustment, 12.0-inch travel
Rear Suspension	Ohlins linkless position-sensitive damping single-shock, external compression and rebound damping adjustment, 12.6-inch travel
Front Brake	240mm disc, Nissin dual-piston caliper
Rear Brake	220mm disc, Nissin single-piston caliper
Front Tire	80/100-21
Rear Tire	120/100-18
Steering Head Angle	27.5 degrees
Wheelbase	58.5 inches
Ground Clearance	14.2 inches
Seat Height	38.0 inches
Fuel Capacity	2.6 gallons
Dry Weight	249 pounds
Color	Silver Metallic



The E440's Ohlins front and rear suspension are the highest quality fork and rear shock on the market. With the help of Pro-Action Suspension Systems, we've tuned their damping rates specifically for the lower speeds and more technical terrain typical of woods riding and GNCC racing.



E440



Cannondale's amazing Enduro racer, with super-nimble handling and our muscular fuel-injected, dual-overhead cam engine.

cannondale

MOTO CLOTHING

With all the attention given to our high-performance motorcycles and ATVs, it's easy to forget that Cannondale has been crafting high-tech apparel for 25 years. Our Moto Clothing continues our tradition of combining the latest technical fabrics with insightful, function-specific design and top-quality construction. The result: A collection of innovative, color and style-coordinated moto garments designed and built to take on the abuse of full-contact competition.



**HOLESHOT
PRO JERSEY**
(M2020)

HOLESHOT PRO 400 PANT
(HS400)



**HOLESHOT PRO
400 GLOVES**
(HS4)



NAC's cannondale ATV RACE TEAM

Look for the all-new Nac's/Cannondale team racing aboard Moto 440s and Blaze 440s at GNC and GNCC events throughout 2002. The Nac's/Cannondale team combines the only factory-level sponsorship from an ATV manufacturer with one of the most prestigious names in ATV racing history. A long-time supporter of the sport, Nac's Racing is the number-one distributor of top quality, high-performance aftermarket ATV parts.



For Nac's Racing's Jim Naccarato the partnership with Cannondale is a dream come true. "It's absolutely fantastic to see an ATV manufacturer finally support the sport at this level, first by offering truly race-ready machines, and now through team sponsorship," said Naccarato. "It's long overdue. And to have it be an American manufacturer that first steps up to the plate is the icing on the cake for us."



It's all about control.

CANNONDALE ACCESSORY KITS



System Status LED Display Kit

Highlights status of key engine parameters: battery power, sensor faults, and engine over-temp. Super bright LEDs indicate three states of operation for battery power and engine over-temp.

LED Action	Power	Temp	Fault
Off	Off	Cold-normal	No fault
On	On	—	—
Slow blink	Marginal Voltage	Hot	Fault detected
Fast blink	Very low voltage	Critical	—

Diagnostic & Maintenance Kit

This PC or Pocket PC software provides Fault Reporting, real-time Engine Monitor, and new Map downloads! Similar to the Maintenance Tool used by your Cannondale dealer!

Map Select Kit

Make your Cannondale perform your way. Our Map select allows access to multiple maps through our handlebar switch real-time, while riding! New maps available from our website. Includes a super bright LED display telling you which map is active.

Rider Trim Kit

The ultimate in power customization! Rider Trim allows you to be the Factory tuner. Alter ignition timing, fuel delivery or throttle transients real-time, while riding. Does your machine have too much hit for woods riding? Dial it down with Rider Trim. Just installed accessory pipes and need to rejet? Do it while riding with Rider Trim's unique 'Digital Jetting'! Endless tuneability, flexibility and rideability.



X440S handlebars shown with optional GP Control Accessories

GP Control is an intelligence system designed to control the fuel injection and ignition mapping strategies within your ECU (Engine Control Unit).

The base version of GP Control comes standard on all 2002 Cannondales!

Want More? Pro Calibrator is the answer!

With Pro Calibrator software for the PC or Pocket PC, you can create your own customized maps for use with your Cannondale machine. Pro Calibrator works with all handlebar accessories providing easy access to map select and rider trim settings as well as letting you change individual map points for the ECU. It incorporates all the Monitor features of the Diagnostic & Maintenance Tool to provide a seamless calibration editor. Similar to software used by the Cannondale Factory, Pro Calibrator provides complete access to Ignition Timing, Fuel Delivery, Rev Limit and other values stored in the ECU.



Save money with a Complete PC or Pocket Pro Kit

Includes:

- ✓ System Status LEDs
- ✓ Diagnostic & Maintenance Kit
- ✓ Pro Calibrator Software
- ✓ Map Select
- ✓ Rider Trim





Each and every Cannondale motorcycle and ATV undergoes final set-up, tuning and testing in the Custom F.I.T. (Fuel Injection Technology) room at our Bedford, Pennsylvania factory. First, our technicians calibrate every unit's ECU to the flow-rate of each fuel injector and to the throttle plate position sensor. The final fuel injection map is then download into the engine's ECU. Using a state-of-the-art chassis dyno, we dial-in the optimal air-fuel ratio and then verify each of the settings by firing the engine up and running it through all five gears.

It's all designed to guarantee that every Cannondale is ready to rip when it hits your dealer's floor, and it's part of why we're proud to say our that motorsports products are "Handmade in America."

IMPORTANT ATV SAFETY MESSAGE

This Category "S" (Sport) ATV is a high-performance ATV for off-road use only. It is for sport-type recreational and competitive use by operators with advanced skills and substantial experience. Operator only – No passengers. No operator under age 16. Cannondale recommends that all riders take an approved training course. For safety and training information see a Cannondale dealer or call the ATV Safety Institute at 1-800-887-2887.

An ATV is not a toy and can be hazardous to operate. For your safety: Read the Owner's Manual and all warning labels before riding an ATV. Never carry a passenger. Never ride on paved surfaces or public roads. Always wear an approved motorcycle helmet, eye protection, and protective clothing. Never ride under the influence of alcohol or drugs. Never ride at excessive speeds. Never attempt to do wheelies, jumps, or other stunts. Always use caution while riding, especially on rough or unfamiliar terrain. Never lend an ATV to anyone who has not taken a training course or has less than one year of ATV riding experience.



IMPORTANT MOTORCYCLE SAFETY MESSAGE

Cannondale motorcycles are for closed-course competition use only and are sold without a warranty. These are high-performance motorcycles for mature, experienced riders only. To obtain full performance from your Cannondale motorcycle, read your Owner's Manual and follow instructions for proper operation and maintenance.

Motorcycle racing is a dangerous sport that has inherent risk of serious injury/death. Take professional instruction. For further information, contact the Motorcycle Safety Foundation at www.msf-usa.org. For racing news, contact the American Motorcycle Association at www.ama-cycle.org. Ride within your ability, wear an approved helmet, eye protection, and protective apparel. Never ride under the influence of drugs or alcohol. Respect the environment and your right to ride. Ride only on land open to motorized vehicles.

Specifications are subject to change without notice. Patents Pending. Availability may be limited. Please refer to www.cannondale.com for most recent specifications.

WARNING

POTENTIAL HAZARDS: The risks of riding and racing ATVs and motorcycles are very significant. These risks are part of the sport and impossible to be specific about because the variations in terrain and rider ability are nearly unlimited. If you choose to ride a motorcycle or ATV you must understand and accept this reality.

WHAT CAN HAPPEN: You could lose control, have an accident and be severely injured, paralyzed or killed.

HOW TO AVOID THE HAZARD: The hazards of ATV and motorcycle riding cannot be completely avoided. They can be minimized with training, good judgement, experience, use of helmet, protective gear and development of skills in weight shifting, throttle and brake control. Reading and understanding your owners manual and warning labels, watching and understanding the ATV safety video and completing a training course are all essential and can begin or add to your learning process.

Authorized Cannondale Motorsports Dealers:

Call: 1-877-DLR-MOTO (357-6686)

Fax: 1-877-MOTO-FAX (668-6329)

To locate a Cannondale Retailer:

please call 1-800-MOTO-USA

or go to www.cannondale.com

921-5001462-02



The Cannondale Philosophy

Our passion is to be the best motorsports company in the world. Our focus is people - employees, customers, retailers, and our vendors - working together to accomplish our mission. We will succeed because:

- 1 We care about each other, our customers, our retailers and our vendors.
- 2 We produce a stream of innovative, quality products.
- 3 We devise flexible manufacturing processes that enable us to deliver those innovative, quality products to the market quickly and then back them with excellent customer service.
- 4 We limit our distribution to the best specialty retailers in the world.
- 5 We stay lean, remain competitive and entrepreneurial.
- 6 We put 90% of our profits back into the company to underwrite future growth; the balance we share with all of our employees.
- 7 We promote from within whenever possible.
- 8 We concentrate on detail, because the last 5% is often the difference between success and failure.
- 9 We continuously improve everything.
- 10 We govern our every deed by what is 'just and right.'

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