



BUELL 2003 MOTORCYCLES



A Harley-Davidson Company.





**IMAGINE
A WORLD
WITH NO
PLACE
TO TURN.**

**HORRIBLE
THOUGHT
ISN'T IT?**

The stuff of motorcycling nightmares, huh? But not in the world of Buell, where those kind of soulless highways just don't exist. We've drawn different lines in our world: through sweepers, hairpins and around every street corner. Lines that demand we ignore convention and work to our own set of rules. Lines that combine a taught chassis, racing geometry and the punch of a growling V-twin with some of the most innovative engineering you'll ever see on a motorcycle. Truly original thinking that some might call radical. We build motorcycles that deliver maximum fun for the real world. That's all there is to it. Because as far as we're concerned, we're turning the science of cornering into an art form.

THERE IS NO CHEQUERED FLAG AT THE END OF THIS STREET.



LIGHTNING XB9S

What do you want with a stopwatch out on the street? There's more to performance than just top speed. It's the whole riding experience: purpose, attitude, style, and control. That's what it means to dominate the streets. And that's exactly what the new Buell Lightning XB9S is all about.



The radical, third generation, Lightning XB9S takes up where its predecessors, the original streetfighter Lightning S1 and the torque monster X1, left off. Streetfighter to the core, its minimalist styling and 984cc V-twin powerhouse combines with the perfect street riding position.

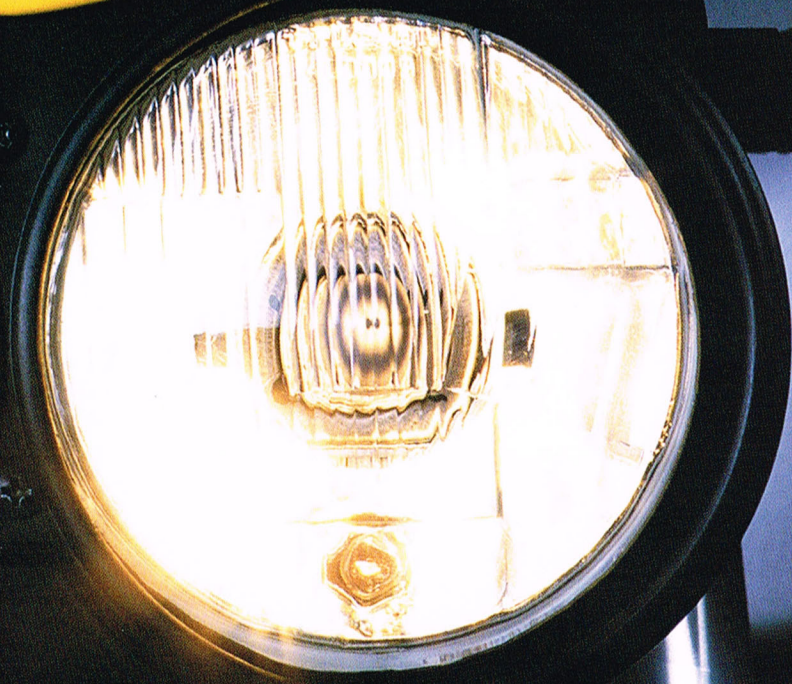
Tall, wide bars bolted to Showa inverted front forks with a 21-degree rake, ultra lightweight front wheel and ZTL brake system make you feel part of the bike, that already feels part of the road. A road that will have you looking forward to corner after corner because you won't believe how easily you've mastered them.

And you'll still be grinning when you pull up to the stoplights, because there's nothing remotely subtle about the new Lightning XB9S.

Emblazoned with the words Buell American Motorcycles, even parked, its sheer presence will not go unnoticed. Bristling with aggression and innovative technology it takes the streetfighter concept to another level.

There's no need for a flag to confirm the XB9S as a winner. Who said lightning never strikes twice?





① ENGINE

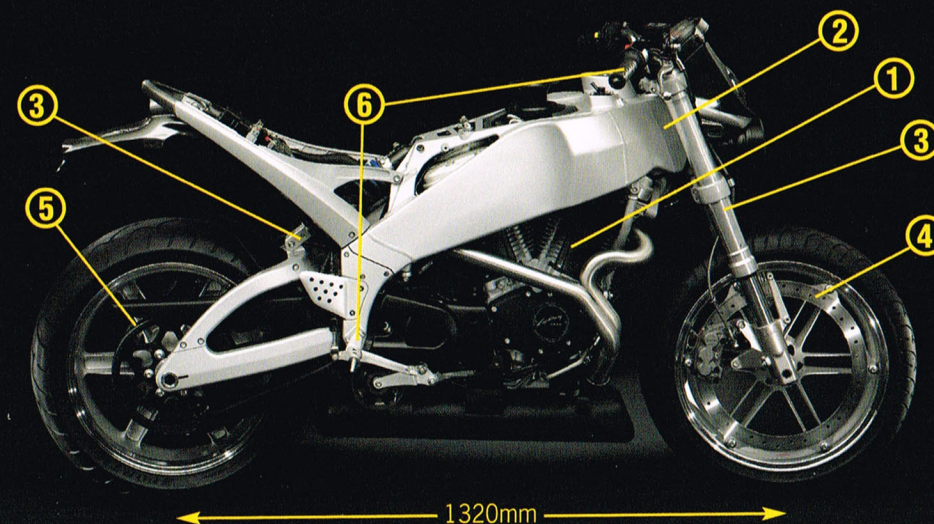
A powerful 984cc V-twin pumping out massive torque levels across a broad powerband gives Buell's Lightning and Firebolt class-leading torque-to-weight ratios. Gulping huge volumes of air from the space normally reserved for a fuel tank, the engine features precise and instant throttle response via Dynamic Digital Fuel Injection. It adds to the bikes, rigidity, too, because the Uniplanar mounting system integrates the engine as a stressed member of the frame, minimising vibration and optimising handling.

② CHASSIS

By ditching everything superfluous, Buell's engineers have concentrated on unparalleled rigidity and low weight with an aluminium frame and swingarm. And, by placing fuel in the frame and oil in the swingarm, their weight is centralised and the centre of gravity is lowered. This compact packaging also allows an incredibly short wheelbase of just 1320mm. It all adds up to a perfect blend of great straight line stability, superb agility and fantastic cornering.

③ SUSPENSION

Inverted Showa forks up front reduce unsprung weight yet further and are fully adjustable allowing the rider customised levels of feedback and comfort. They're set at 21 degrees (an angle normally reserved for race bikes) offering a connection with the road surface like no other motorcycle and creating a front-end set up that takes you precisely where you want to go. The rear suspension uses a fully adjustable Showa shock which is connected directly from the frame to the swingarm. This chassis and suspension set-up gives both machines an incredibly short wheelbase, which combined with the radical chassis geometry and mass centralisation gives incredible handling and agility.



④ ZTL BRAKES

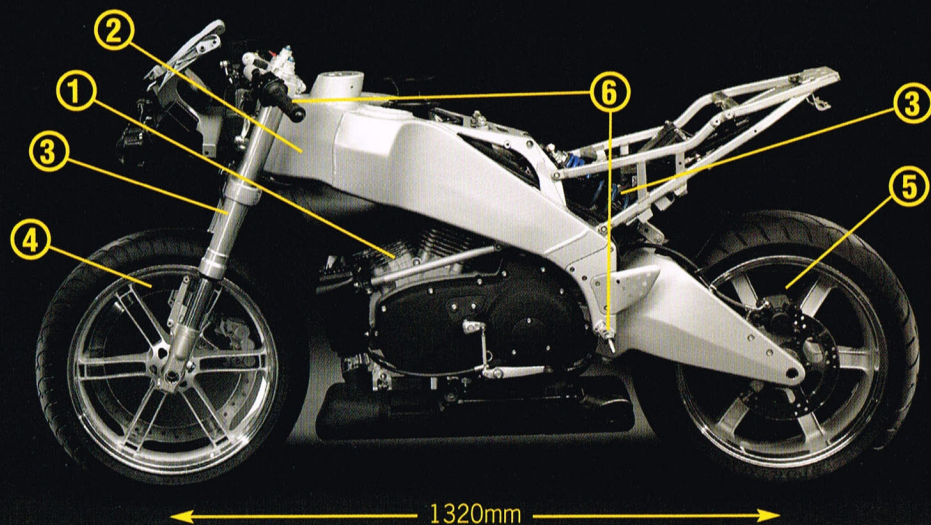
Further innovation through the patented Zero Torsional Load (ZTL) braking system allows Buell to reduce unsprung weight further still but, at the same time, provide even more stopping power. The braking forces are distributed optimally to the wheel rim and tyre via a massive, 375mm inside-out brake disc mounted close to the end of the front wheel spokes. It means there's no need for big, chunky spokes, allowing a lighter wheel design with a clean, minimalist look. Six-piston Nissin calipers complete the package providing exceptional braking power with that all-important "feel" and feedback for the rider.

⑤ DRIVEBELT

Buell's final drive Kevlar belt is clean, lightweight, maintenance free and astonishingly reliable. Fitted with an idler pulley, its constant tension and path length virtually eliminate the lag time, giving you an instantaneous response from twist grip to back wheel when you're winding on the power.

⑥ STYLING AND ERGONOMICS

If it doesn't serve a specific purpose, Buell doesn't put it on. Styling is minimalist to maximise impact and performance. Body parts are moulded from Surlyn coloured plastic with a scratch-resistant finish to keep them looking good. The exhaust muffler is underneath the bike, helping lower the centre of gravity and aid mass centralisation. Both the Lightning and the Firebolt benefit from the XB platform's chassis, engine, suspension, and brakes whilst offering different riding experiences thanks to their individual styling and ergonomics. The relative positioning of bars, pegs and seat enables two very different riding positions, but both provide an optimum balance of comfort and control. The aggressive, streetfighter attitude of the Lightning XB9S; the purposeful, sportfighter performance of the Firebolt XB9R. Which one's right for you?



UP UNTIL NOW A CORNER WAS JUST A CORNER. NOW YOU CAN BEND IT TO ANY SHAPE YOU LIKE.



FIREBOLT XB9R

But you've got to have the right tool. And nothing feels right like the Buell Firebolt XB9R. Launched in 2002 to one of the sharpest collective intakes of breath ever heard in the motorcycle industry, the Firebolt created an entirely new category "the sportfighter".



It precisely answers Buell customers' demands: controllable power for real world performance with streetfighter agility and attitude. With the chassis geometry of a 250 Grand Prix bike, the Firebolt's mighty, 984cc V-twin heart pounds out unfathomable depths of torque and yet it's as sylph-like as a sports 600.

The attitude? Well, we styled plenty into the Firebolt but the rest is kind of up to you. If you want to disappear in a crowd of other anonymous sports bike riders, you'd better look elsewhere.

If, on the other hand, you want a bike that really says something about you and the way you feel...



LIGHTNING XB9S

ENGINE

Type	Air cooled, Four Stroke, 45 degree V-Twin
Displacement	984 cc
Bore and Stroke	3.5 x 3.125 in / 88.9 x 79.38 mm
Compression ratio	10:1
Valve train	OHV, Two valve per cylinder
Valve adjustment	Self adjusting
Fuel delivery	45 mm downdraft DDFI fuel injection
Exhaust	Free-Breathing 2 into 1 collector
Intake	0 resistance Air Box, Ram Air Intake
Power*	61.9kW-84.2hp @ 7400 rpm (EU standard EC95/1) 69kW-92hp @ 7200 rpm (US standard SAE J607)
Torque*	85.6Nm-63ft-lb @ 5600 (EU standard EC95/1) 92Nm-68 ft-lb @ 5500 rpm (US standard SAE J607)
Lubrication	Dry Sump, 2.5 Quarts/ 2.3 litres Capacity
Oil filtration	Screw-on disposable element

CHASSIS

Frame	Aluminium Frame with Uniplanar powertrain vibration isolation system
Wheelbase	1320 mm / 52 in
Rake	21 degree
Trail	83 mm / 3.3 in
Front Suspension	Showa inverted fork with adjustable compression damping, rebound damping and spring preload
Rear Suspension	Showa shock absorber with adjustable compression damping, rebound damping and spring preload
Front wheel travel	120mm, 4.7 in
Rear wheel travel	127mm, 5 in
Front brake	ZTL type brake, 375 mm stainless steel floating rotor, 6 piston caliper
Rear brake	240 mm stainless steel rotor, single piston floating caliper
Front wheel	6 spoke cast, 3.5x17, Stardust Silver
Rear wheel	6 spoke cast, 5.5x17, Stardust Silver
Front tyre	Dunlop D207 FY 120/70 ZR17
Rear tyre	Dunlop D 207 U 180/55 ZR17
Fuel capacity	14 litres / 3.1 Gal
Gross vehicle weight rating	850 lb / 386 kg
Dry weight	385 lb / 175 kg
Load capacity	465 lb / 211 kg
Seat height	30.1in / 765 mm
Ground clearance	5 in / 127 mm
Overall length	75.7 in / 1924 mm
Overall width	32.7 in / 831 mm
Overall height	48.5 / 1232 mm

COLOURS

Midnight Black, Sunfire Yellow

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Fuel capacity	14 litres / 3.1 Gal
Gross vehicle weight rating	850 lb / 386 kg
Dry weight	385 lb / 175 kg
Load capacity	465 lb / 211 kg
Seat height	30.5 in / 775 mm
Ground clearance	5 in / 127 mm
Overall length	75.75 in / 1924 mm
Overall width	30.25 in / 768.35 mm
Overall height	43 in / 1092 mm

COLOURS

Battle Blue, Arctic White/Blue, Arctic White/Orange

LIGHTNING XB9S & FIREBOLT XB9R

TRANSMISSION

Type	Five-speed, constant mesh
Ratio	(1) 2.69, (2) 1.85, (3) 1.43, (4) 1.18, (5) 1.00
Primary drive	Triplex Chain 1.68:1 ratio
Clutch	Wet, Multiplate
Final drive	Constant path, 11 mm GT profile Kevlar Belt, 2.4 ratio

INSTRUMENTS

Electronic speedometer, tachometer, odometer, 2 tripmeters, reserve tripmeter, clock, low fuel light, engine check light, oil pressure warning light, indicator for high beam, turn signals and neutral.

ELECTRICAL

Charging system	540 Watt trident three phase AC alternator
Battery	12 Volts, 12 Amp-hour
Headlight	55/55 Watt, projector beam(XB9R)
Headlight	55/55 Watt (XB9S)
Taillight	5/21 Watts
Turn signals	Manual cancelling

WARRANTY

2 Year, unlimited mileage warranty (Europe)

* Europe only - Australian specifications to be confirmed

Don't just take our word for it, the 2003 Buell Lightning XB9S and Firebolt XB9R are waiting for you at your nearest Buell dealership where you can put everything we've said to the test. Take a free demo ride and see for yourself how Buell's unique engineering principles and innovative technology deliver maximum fun for the real world. Because at Buell, we don't show 'concept' bikes, we sell them.

YOUR TURN?



www.buell.com

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All other products and company names are trademarks and/or registered trademarks of their respective holders. Always ride with care and wear a helmet, proper eyewear and appropriate clothing. Insist that your passenger does too.

Dealer Stamp

