

## 2004 SPECIFICATIONS<sup>1</sup> FIREBOLT™ XB12R

### DIMENSIONS

Overall Length	76.2 in. (1935 mm)
Overall Width	28.2 in. (715 mm)
Seat Height	30.5 in. (775 mm)
Ground Clearance	4.35 in. (110 mm)
Rake	21 degrees
Trail	3.3 in. (83 mm)
Wheelbase	52.0 in. (1320 mm)
Front Tire	Dunlop D207FY 120/70 ZR-17
Rear Tire	Dunlop D207FU 180/55 ZR-17
Fuel Capacity	3.7 gal. (14 L)
Reserve Fuel Capacity (warning light at approx. 0.7 gal.)	0.7 gal. (2.6 L)
MPG - EPA Urban/Highway Test <sup>2</sup>	48/65 mpg (4.9/3.6 L/100 Km)
Dry Weight	395 lbs. (179 kg)
Gross Vehicle Weight Rating	850 lbs. (386 kg)
Load Capacity	390 lbs. (177 kg)

### ENGINE

Engine	1203cc air/oil/fan-cooled, four-stroke, 45 degree V-Twin
Valve Train	OHV, two valves per cylinder, self adjusting
Bore x Stroke	3.500 x 3.812 in. (88.90 x 96.82 mm)
Displacement	1203 cc (73.4 ci)
Compression Ratio	10.0:1
Fuel Delivery	49 mm downdraft DDFI II fuel injection
Intake	Zero resistance Air Box, Ram Air Intake
Exhaust	Large diameter headers w/ InterActive exhaust
Torque (North America Per SAE J607)	84 ft-lbs @ 6000 rpm
Horsepower (North America Per SAE J607)	103 HP @ 6800 rpm
Lubrication	Dry sump
Oil Capacity	2.5 qts. (2.4 L)
Oil Filtration	Screw-on disposable element

### DRIVETRAIN

Primary Drive	Chain; 1.500:1 (57/38)
Final Drive <sup>3</sup>	Constant path; 14mm pitch aramid reinforced Hibrex® belt w/ Flexten® Plus technology; 2.407:1 (65/27)
Clutch	Wet, multi-plate, compensated
Transmission	Five-speed, constant mesh
Transmission Ratios:	
1st	2.688
2nd	1.850
3rd	1.433
4th	1.181
5th	1.000

### CHASSIS<sup>4</sup>

Frame	Aluminum frame w/ Uniplanar® powertrain vibration isolation system – Fuel in Frame
Front Fork	Showa® inverted fork w/ adjustable compression damping, rebound damping and spring preload
Rear Shock	Showa coil-over monoshock w/ remote, underseat reservoir and adjustable compression damping, rebound damping and spring preload
Wheels:	
Front	6-spoke, ZTL™, cast aluminum; 3.5X17"; Translucent Amber
Rear	6-spoke, cast aluminum; 5.5X17"; Translucent Amber
Brakes:	
Front	ZTL type brake, 6-piston, fixed caliper, 375 mm single-sided, inside out, stainless steel, floating rotor
Rear	240 mm stainless steel, single piston, floating caliper, fixed rotor
Suspension Travel:	
Front	4.72 in. (120 mm)
Rear	5.00 in. (127 mm)

### ELECTRIC

Battery	12 volt, 12 amp-hour, 200 cca, Sealed Lead Acid, maintenance-free,
Charging	494 watts peak, 38-amp permanent magnet 3-phase alternator w/ solid state regulator
Starting	1.2 KW electric w/ Bendix-type engagement
Lights: (as per country regulation)	
Headlight	Twin projector beam (H3); 55-watt low beam, 55-watt high beam
Tail/stop lights	5/21 watts
Turn signal lights (manual canceling)	10 watts

### INSTRUMENTS

Electronic speedometer, tachometer, odometer; dual resettable tripmeter; high beam, neutral, oil, low fuel (plus, odometer shows miles traveled on reserve), turn signal and engine diagnostic indicator lamps; clock

### COLORS<sup>5</sup>

Midnight Black, Racing Red

### WARRANTY

Warranty **24 months (unlimited mileage)**

<sup>1</sup>Specifications for non-U.S. markets might differ. Buell reserves the right to discontinue models or change specifications at any time without incurring any obligations. Vehicle specifications may vary from country to country depending on local laws, and some models are not available in certain countries.

<sup>2</sup>Based on tests conducted under lab conditions per U.S. E.P.A. test procedures. Mileage will vary depending on personal riding habits, weather conditions, trip length and vehicle condition.

<sup>3</sup>Hibrex and Flexten are registered trademarks of the Goodyear Tire & Rubber Company.

<sup>4</sup>SHOWA and DUNLOP are trademarks of their respective owners.

<sup>5</sup>Availability may vary from dealer to dealer, and is subject to change without notice.



## 2004 SPECIFICATIONS<sup>1</sup> FIREBOLT™ XB9R

### DIMENSIONS

Overall Length	<b>76.2 in.</b> (1935 mm)
Overall Width	<b>28.2 in.</b> (715 mm)
Seat Height	<b>30.5 in.</b> (775 mm)
Ground Clearance	<b>4.35 in.</b> (110 mm)
Rake	21 degrees
Trail	<b>3.3 in.</b> (83 mm)
Wheelbase	<b>52.0 in.</b> (1320 mm)
Front Tire	Dunlop D207FY 120/70 ZR-17
Rear Tire	Dunlop D207FU 180/55 ZR-17
Fuel Capacity	<b>3.7 gal.</b> (14 L)
Reserve Fuel Capacity ( <i>warning light at approx. 0.7 gal.</i> )	<b>0.7 gal.</b> (2.6 L)
MPG - EPA Urban/Highway Test <sup>2</sup>	<b>50/65 mpg</b> (4.7/3.6 L/100 Km)
Dry Weight	<b>385 lbs.</b> (175 kg)
Gross Vehicle Weight Rating	<b>850 lbs.</b> (386 kg)
Load Capacity	<b>400 lbs.</b> (181 kg)

### ENGINE

Engine	Air/oil/fan-cooled, four-stroke, 45 degree V-Twin
Valve Train	OHV, two valves per cylinder, self adjusting
Bore x Stroke	<b>3.500 x 3.125 in.</b> (88.90 x 79.38 mm)
Displacement	<b>984 cc</b> (60.0 ci)
Compression Ratio	10.0:1
Fuel Delivery	45 mm downdraft DDFI II fuel injection
Intake	Zero resistance Air Box, Ram Air intake
Exhaust	Tuned tri-pass resonance chamber
Torque ( <i>North America Per SAE J607</i> )	70 ft-lb @ 5500 rpm
Horsepower ( <i>North America Per SAE J607</i> )	92 hp @ 7500 rpm
Lubrication	Dry Sump
Oil Capacity	<b>2.5 qts.</b> (2.4 L)
Oil Filtration	Screw-on disposable element

### DRIVETRAIN

Primary Drive	Chain; 1.676:1 (57/34)
Final Drive <sup>3</sup>	Constant path; 14mm pitch aramid reinforced Hibrex® belt w/ Flexten® Plus technology; 2.407:1 (65/27)
Clutch	Wet, multi-plate, compensated
Transmission	Five-speed, constant mesh
Transmission Ratios:	
1st	2.688
2nd	1.850
3rd	1.433
4th	1.181
5th	1.000

### CHASSIS<sup>4</sup>

Frame	Aluminum frame w/ Uniplanar® powertrain vibration isolation system – Fuel in Frame
Front Fork	Showa® inverted fork w/ adjustable compression damping, rebound damping and spring preload
Rear Shock	Showa coil-over monoshock w/ remote, underseat reservoir and adjustable compression damping, rebound damping and spring preload
Wheels:	
Front	6-spoke, ZTL™, cast aluminum, 3.5 x 17", Sky White
Rear	6-spoke, cast aluminum, 5.5 x 17", Sky White
Brakes:	
Front	ZTL type brake, 6-piston, fixed caliper, 375 mm single-sided, inside out, stainless steel, floating rotor
Rear	240 mm stainless steel, single piston, floating caliper, fixed rotor
Suspension Travel:	
Front	<b>4.72 in.</b> (120 mm)
Rear	<b>5.00 in.</b> (127 mm)

### ELECTRIC

Battery	12 volt, 12 amp-hour, 200 cca, Sealed Lead Acid, maintenance-free
Charging	494 watts peak, 38-amp permanent magnet 3-phase alternator w/ solid state regulator
Starting	1.2 KW electric w/ Bendix-type engagement
Lights: ( <i>as per country regulation</i> )	
Headlight	Twin projector beam (H3); 55-watt low beam, 55-watt high beam
Tail/stop lights	5/21 watts
Turn signals lights ( <i>manual canceling</i> )	10 watts

### INSTRUMENTS

Electronic speedometer, tachometer, odometer; dual resettable tripmeter; high beam, neutral, oil, low fuel (plus, odometer shows miles traveled on reserve), turn signal and engine diagnostic indicator lamps; clock

### COLORS<sup>5</sup>

Battle Blue w/ Red/White decals

### WARRANTY

Warranty **24 months** (*unlimited mileage*)

<sup>1</sup>Specifications for non-U.S. markets might differ. Buell reserves the right to discontinue models or change specifications at any time without incurring any obligations. Vehicle specifications may vary from country to country depending on local laws, and some models are not available in certain countries.

<sup>2</sup>Based on tests conducted under lab conditions per U.S. E.P.A. test procedures. Mileage will vary depending on personal riding habits, weather conditions, trip length and vehicle condition.

<sup>3</sup>Hibrex and Flexten are registered trademarks of the Goodyear Tire & Rubber Company.

<sup>4</sup>SHOWA and DUNLOP are trademarks of their respective owners.

<sup>5</sup>Availability may vary from dealer to dealer, and is subject to change without notice.



## 2004 SPECIFICATIONS<sup>1</sup> LIGHTNING<sup>®</sup> XB12S

### DIMENSIONS

Overall Length	76.2 in. (1935 mm)
Overall Width	29.7 in. (755 mm)
Seat Height	30.1 in. (765 mm)
Ground Clearance	4.35 in. (110 mm)
Rake	21 degrees
Trail	3.3 in. (83 mm)
Wheelbase	52.0 in. (1320 mm)
Front Tire	Dunlop D207FY 120/70 ZR-17
Rear Tire	Dunlop D207FU 180/55 ZR-17
Fuel Capacity	3.7 gal. (14 L)
Reserve Fuel Capacity (warning light at approx. 0.7 gal.)	0.7 gal. (2.6 L)
MPG - EPA Urban/Highway Test <sup>2</sup>	48/65 mpg (4.9/3.6 L/100 Km)
Dry Weight	395 lbs. (179 kg)
Gross Vehicle Weight Rating	850 lbs. (386 kg)
Load Capacity	390 lbs. (177 kg)

### ENGINE

Engine	1203cc air/oil/fan-cooled, four-stroke, 45 degree V-Twin
Valve Train	OHV, two valves per cylinder, self adjusting
Bore x Stroke	3.500 x 3.812 in. (88.90 x 96.82 mm)
Compression Ratio	10.0:1
Displacement	1203 cc (73.4 ci)
Fuel Delivery	49 mm downdraft DDFI II fuel injection
Intake	Zero resistance Air Box, Ram Air Intake
Exhaust	Large diameter headers w/ InterActive exhaust
Torque (North America Per SAE J607)	84 ft-lbs @ 6000 rpm
Horsepower (North America Per SAE J607)	103 HP @ 6800 rpm
Lubrication	Dry sump
Oil Capacity	2.5 qts. (2.4 L)
Oil Filtration	Screw-on disposable element

### DRIVETRAIN

Primary Drive	Chain; 1.500:1 (57/38)
Final Drive <sup>3</sup>	Constant path; 14mm pitch aramid reinforced Hibrex <sup>®</sup> belt w/ Flexten <sup>®</sup> Plus technology; 2.407:1 (65/27)
Clutch	Wet, multi-plate, compensated
Transmission	Five-speed, constant mesh
Transmission Ratios:	
1st	2.688
2nd	1.850
3rd	1.433
4th	1.181
5th	1.000

### CHASSIS<sup>4</sup>

Frame	Aluminum frame w/ Uniplanar <sup>®</sup> powertrain vibration isolation system – Fuel in Frame
Front Fork	Showa <sup>®</sup> inverted fork w/ adjustable compression damping, rebound damping and spring preload
Rear Shock	Showa coil-over monoshock w/ remote, underseat reservoir and adjustable compression damping, rebound damping and spring preload
Wheels:	
Front	6-spoke, ZTL <sup>™</sup> , cast aluminum; 3.5X17"; Translucent Amber
Rear	6-spoke, cast aluminum; 5.5X17"; Translucent Amber
Brakes:	
Front	ZTL type brake, 6-piston, fixed caliper, 375 mm single-sided, inside out, stainless steel, floating rotor
Rear	240 mm stainless steel, single piston, floating caliper, fixed rotor
Suspension Travel:	
Front	4.72 in. (120 mm)
Rear	5.00 in. (127 mm)

### ELECTRIC

Battery	12 volt, 12 amp-hour, 200 cca Sealed Lead Acid, maintenance-free
Charging	494 watts peak, 38-amp permanent magnet 3-phase alternator w/ solid state regulator
Starting	1.2 KW electric w/ Bendix-type engagement
Lights: (as per country regulation)	
Headlight	Twin quartz halogen (H7); 55-watt low beam, 55-watt high beam
Tail/stop lights	5/21 watts
Turn signals lights (manual canceling)	10 watts
License plate light	5 watts

### INSTRUMENTS

Electronic speedometer, tachometer, odometer; dual resettable tripmeter; high beam, neutral, oil, low fuel (plus, odometer shows miles traveled on reserve), turn signal and engine diagnostic indicator lamps; clock

### COLORS<sup>5</sup>

Midnight Black, Racing Red

### WARRANTY

Warranty **24 months (unlimited mileage)**

<sup>1</sup>Specifications for non-U.S. markets might differ. Buell reserves the right to discontinue models or change specifications at any time without incurring any obligations. Vehicle specifications may vary from country to country depending on local laws, and some models are not available in certain countries.

<sup>2</sup>Based on tests conducted under lab conditions per U.S. E.P.A. test procedures. Mileage will vary depending on personal riding habits, weather conditions, trip length and vehicle condition.

<sup>3</sup>Hibrex and Flexten are registered trademarks of the Goodyear Tire & Rubber Company.

<sup>4</sup>SHOWA and DUNLOP are trademarks of their respective owners.

<sup>5</sup>Availability may vary from dealer to dealer, and is subject to change without notice.



## 2004 SPECIFICATIONS<sup>1</sup> LIGHTNING<sup>®</sup> XB9S & LIGHTNING<sup>®</sup> LOW XB9S

### DIMENSIONS

Overall Length:	
XB9S	76.2 in. (1935 mm)
LOW XB9S	75.7 in. (1923 mm)
Overall Width	29.7 in. (755 mm)
Overall Height:	
XB9S	42.3 in. (1075 mm)
LOW XB9S	41.3 in. (1050 mm)
Seat Height:	
XB9S	30.1 in. (765 mm)
LOW XB9S	28.6 in. (726 mm)
Ground Clearance	
XB9S	4.35 in. (110 mm)
LOW XB9S	3.55 in. (90 mm)
Rake	21 degrees
Trail	3.3 in. (83 mm)
Wheelbase	52.0 in. (1320 mm)
Front Tire	Dunlop D207FY 120/70 ZR-17
Rear Tire	Dunlop D207FU 180/55 ZR-17
Fuel Capacity	3.7 gal. (14 L)
Reserve Fuel Capacity (warning light at approx. 0.7 gal.)	0.7 gal. (2.6 L)
MPG - EPA Urban/Highway Test <sup>2</sup>	50/65 mpg (4.7/3.6 L/100 Km)
Dry Weight	385 lbs. (175 kg)
Gross Vehicle Weight Rating	850 lbs. (386 kg)
Load Capacity	400 lbs. (181 kg)

### ENGINE

Engine	Air/oil/fan-cooled, four-stroke, 45 degree V-Twin
Valve Train	OHV, two valves per cylinder, self adjusting
Bore x Stroke	3.500 x 3.125 in. (88.90 x 79.38 mm)
Displacement	984 cc (60.0 ci)
Compression Ratio	10.0:1
Fuel Delivery	45 mm downdraft DDFI II fuel injection
Intake	Zero resistance Air Box, Ram Air Intake
Exhaust	Tuned tri-pass resonance chamber
Torque (North America Per SAE J607)	70 ft-lb @ 5500 rpm
Horsepower (North America Per SAE J607)	92 hp @ 7500 rpm
Lubrication	Dry sump
Oil Capacity	2.5 qts. (2.4 L)
Oil Filtration	Screw-on disposable element

### DRIVETRAIN

Primary Drive	Chain; 1.676:1 (57/34)
Final Drive <sup>3</sup>	Constant path; 14mm pitch aramid reinforced Hibrex <sup>®</sup> belt w/ Flexten <sup>®</sup> Plus technology; 2.407:1 (65/27)
Clutch	Wet, multi-plate, compensated
Transmission	Five-speed, constant mesh
Transmission Ratios:	
1st	2.688
2nd	1.850
3rd	1.433
4th	1.181
5th	1.000

### CHASSIS<sup>4</sup>

Frame	Aluminum frame w/ Uniplanar <sup>®</sup> powertrain vibration isolation system – Fuel in Frame
Front Fork	Showa <sup>®</sup> inverted fork w/ adjustable compression damping, rebound damping and spring preload
Rear Shock	Showa coil-over monoshock w/ remote, underseat reservoir and adjustable compression damping, rebound damping and spring preload
Wheels:	
Front	6-spoke, ZTL <sup>™</sup> , cast aluminum, 3.5x17", Stardust Silver
Rear	6-spoke, cast aluminum, 5.5x17", Stardust Silver
Brakes:	
Front	ZTL type brake, 6-piston, fixed caliper, 375 mm single-sided, inside out, stainless steel, floating rotor
Rear	240 mm stainless steel, single piston, floating caliper, fixed rotor
Suspension Travel:	
Front XB9S	4.72 in. (120 mm)
LOW XB9S	2.91 in. (74 mm)
Rear XB9S	5.00 in. (127 mm)
LOW XB9S	3.56 in. (90 mm)

### ELECTRIC

Battery	12 volt, 12 amp-hour, 200 cca, Sealed Lead Acid, maintenance-free
Charging	494 watts peak, 38-amp permanent magnet 3-phase alternator w/ solid state regulator
Starting	1.2 KW electric w/ Bendix-type engagement
Lights: (as per country regulation)	
Headlight	Twin quartz halogen (H7); 55-watt low beam, 55-watt high beam
Tail/stop lights	5/21 watts
Turn signals lights (manual canceling)	10 watts
License plate light	5 watts

### INSTRUMENTS

Electronic speedometer, tachometer, odometer; dual resettable tripmeter; high beam, neutral, oil, low fuel (plus, odometer shows miles traveled on reserve), turn signal and engine diagnostic indicator lamps; clock

### COLORS<sup>5</sup>

XB9S	Midnight Black, Sunfire Yellow
LOW XB9S	Midnight Black, Sunfire Yellow

### WARRANTY

Warranty	24 months (unlimited mileage)
----------	-------------------------------

<sup>1</sup>Specifications for non-U.S. markets might differ. Buell reserves the right to discontinue models or change specifications at any time without incurring any obligations. Vehicle specifications may vary from country to country depending on local laws, and some models are not available in certain countries.

<sup>2</sup>Based on tests conducted under lab conditions per U.S. E.P.A. test procedures. Mileage will vary depending on personal riding habits, weather conditions, trip length and vehicle condition.

<sup>3</sup>Hibrex and Flexten are registered trademarks of the Goodyear Tire & Rubber Company.

<sup>4</sup>SHOWA and DUNLOP are trademarks of their respective owners.

<sup>5</sup>Availability may vary from dealer to dealer, and is subject to change without notice.



## 2004 SPECIFICATIONS<sup>1</sup> BLAST<sup>®</sup>

### DIMENSIONS

Seat Height	
Standard	27.5 in. (699 mm)
Low Profile	25.5 in. (648 mm)
Rake	25 degrees
Trail	3.4 in. (86 mm)
Wheelbase	55.0 in. (1397 mm)
Front Tire	100/80 - 16 50 s K330 A series bias-belted
Rear Tire	120/80 - 16 60 s K330 A series bias-belted
Fuel Capacity	2.8 gal. (10.6 L)
Reserve Fuel Capacity	.55 gal. (2.1 L)
MPG - EPA Urban/Highway Test <sup>2</sup>	69/72.8 mpg (3.4/3.2 L/100 Km)
Dry Weight	360 lbs. (163 kg)
Gross Vehicle Weight Rating	780 lbs. (354 kg)
Load Capacity	390 lbs. (177 kg)

### ENGINE

Engine	Air-cooled, Four-Stroke, Single Cylinder
Valve Train	OHV, two valves, hydraulic adjusters, self-adjusting
Bore x Stroke	3.500 x 3.125 in. (88.90 x 79.38 mm)
Displacement	492 cc (30.0 ci)
Compression Ratio	9.2:1
Fuel Delivery	40 mm Keihin™ carburetor with auto fuel enricher system
Air Cleaner	Tuned velocity expansion chamber
Exhaust System	Tuned tri-pass resonance chamber
Torque (North America PER SAE J607)	30 ft-lbs @ 3200 rpm
Horsepower (North America PER SAE J607)	34 Crank HP @ 6500 rpm
Lubrication	2 qts. (1.893 L)
Oil Filtration	Screw-on disposable element

### DRIVETRAIN

Primary Drive	Chain; 1.676:1 (57/34)
Final Drive <sup>3</sup>	Kevlar® belt; ratio 2.963:1 (80/27)
Clutch	Wet, multi-plate
Transmission	Five-speed, constant mesh
Transmission Ratios:	
1st	2.688
2nd	1.850
3rd	1.433
4th	1.181
5th	1.000

### CHASSIS

Frame	Wide beam HSLA steel backbone frame w/ built-in oil reservoir; Uniplanar® powertrain vibration isolation system; Titanium color finish
Front Fork	Showa conventional 37.0 mm forks
Rear Shock	Showa non-adjustable gas charged compression shock
Wheels:	
Front	5-spoke cast, 2.50 x 16, Stardust Silver finish
Rear	5-spoke cast, 2.75 x 16, Stardust Silver finish
Brakes:	
Front	Dual-piston, floating caliper, 320 mm stainless steel rotor
Rear	Single, piston floating caliper, 220 mm stainless steel rotor

### ELECTRIC

Battery	12 amp-hour, SLA (Sealed Lead Acid)
Charging	297-watt AC alternator, solid state regulator/rectifier
Lights: (as per country regulation)	
Headlight	Sealed Beam
Tail/stop lights	5/21 Watts
Turn signal lights (manual canceling)	10 Watts

### CONVENIENCE

Instruments	Electronic speedometer with LED odometer and tripmeter, built-in LED indicator lamps for low oil pressure, high beam, turn signals, and neutral.
Clutch	Reduced effort clutch with shorter reach lever
Shift Pedal	Fully adjustable shift pedal enables personalized fit
Body Panels	Molded-in-color body panels – resist dents/chips, most scratches easily buff out
Turn Signals	Flexible, resist damage
Under seat storage	Yes

### COLORS<sup>1</sup>

Midnight Black, Sunset Orange

### WARRANTY

Warranty 24 months (unlimited mileage)

<sup>1</sup>Specifications for non-U.S. markets might differ. Buell reserves the right to discontinue models or change specifications at any time without incurring any obligations. Vehicle specifications may vary from country to country depending on local laws, and some models are not available in certain countries.

<sup>2</sup>Based on tests conducted under lab conditions per U.S. E.P.A. test procedures. Mileage will vary depending on personal riding habits, weather conditions, trip length and vehicle condition.

<sup>3</sup>KEVLAR is a trademark of its respective owner.

<sup>4</sup>Availability may vary from dealer to dealer, and is subject to change without notice.

