Owner's Manuals

SPECIFICATIONS

Specifications: 2008 Buell 1125R Models

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Engine: 2008 Buell 1125R Models

ITEM	DATA	
Cylinders	2	
Type	Four-stroke, liquid-cooled, 72 degree V-Twin	
Bore	4.055 in.	103.00 mm
Stroke	2.658 in.	67.50 mm
Engine displacement	68.7 cu. in.	1125 cc
Compression ratio	12.3:1	
Valve train	DOHC, four valves per cylinder	
Fuel delivery	Dynamic Digital Fuel Injection III	
Torque	82 ft-lbs @8000 RPM	111.2 Nm @8000 RPM
Lubrication	Dry sump, integrated oil reservoir	

Ignition System: 2008 Buell 1125R Models

ITEM	DATA	
Battery	12 volt, 12 amp./hr, 200 CCA	
Spark plugs	NGK CR9EKB	
Size	10 mm	
Gap	0.032 in.	0.81 mm
Torque	7-9 ft-lbs	10-12 Nm

NOTE:

Specifications in this publication may not match those of official certification in some markets due to timing of publication printing, variance in testing methods, and/or vehicle differences. Customers seeking officially recognized regulatory specifications for their vehicle should refer to certification documents and/or contact their respective dealer or distributor.

Drivetrain: 2008 Buell 1125R Models

COMPONENT	TYPE
Transmission	6-speed

Clutch	Hydraulic Vacuum Assist (HVA) Slipper Action
Front sprocket	Compensated
Final drive	Belt

Cooling System: 2008 Buell 1125R Models

ITEM	DATA	
Cooling system	Cooling circuit by integrated water pump, thermostat controlled bypass	
Coolant	Ethylene glycol, 50/50 mixture	
Normal operating temperature	140-220° F	60-104° C
Overtemperature threshold (lamp lit)	230° F	110° C

Capacities: 2008 Buell 1125R Models

ITEM	U.S.	LITERS
Fuel tank total (including reserve)	5.3 gallons	20.1
Reserve/low fuel lamp illuminates at	0.8 gallon	3.0
Engine oil (including oil filter)	3.0 quarts	2.8
Coolant (including overflow tank)	0.8 gallon	3.0

Sprocket Teeth: 2008 Buell 1125R Models

DRIVE	ITEM	NUMBER OF TEETH
Primary	Engine	36
	Clutch	65
Final	Transmission	27
	Rear wheel	70
	Belt	145

Transmission Gear Ratios: 2008 Buell 1125R Models

GEAR	RATIO
First (low) gear	2.462
Second gear	1.750
Third gear	1.381
Fourth gear	1.174
Fifth gear	1.042
Sixth gear	0.960

NOTE:

Final gear ratios indicate the number of mainshaft revolutions required to drive the output sprocket one revolution.

Bulb Chart: 2008 Buell 1125R Models

BULBS		BULBS REQUIRED	WATTS	AMPS	PART NUMBER
Headlamps	Bulb, low beam	2	35	2.6	Y0025.1AM
	Bulb, high beam	2	35	2.6	Y0025.1AM
	Bulb, running lamp	2	5	0.37	53436-97
Marker lamps	Tail/stop lamp	1	5/21	0.42/1.75	68169-90A
	License plate lamp	1	5	0.37	53436-97
	Front and rear turn signal lamps	LED assembly. Replace entire assembly upon failure.			
Instrument cluster	LED assembly. Replace entire assembly upon failure.				

Tires: 2008 Buell 1125R Models

TIRE	TYPE	SOLO RIDING		LOADED TO GVWR	
		PSI	kPa	PSI	kPa
Front	Pirelli Diablo Corsa III 120/70 ZR 17	34	234	34	234
Rear	Pirelli Diablo Corsa III 180/55 ZR 17	36	248	36	248

Dimensions: 2008 Buell 1125R Models

ITEM	IN.	MM
Overall length	78.6	1996
Overall width (without mirrors)	28.2	716
Wheel base (without rider)	54.6	1387
Seat height (with rider)	30.5	775
Ground clearance (without rider)	4.5	114
Trail (with rider)	3.3	84
Rake (with rider)	21 degree	

NOTE:

Gross Vehicle Weight Rating (GVWR) and corresponding Gross Axle Weight Ratings (GAWR) are given on a label located on the frame steering head.

Weights: 2008 Buell 1125R Models

ITEM	LB.	KG
Weight (wet)	455	206
GVWR	850	386
GAWR front	370	168
GAWR rear	510	231
Load capacity	395	179

NOTE:

Wet weight is the total weight of the motorcycle including fuel and oil. GVWR is the Gross Vehicle Weight Rating (maximum allowable loaded vehicle weight). GAWR is the Gross Axle Weight Rating (maximum allowable loaded weight per axle). Load capacity is the amount of weight (including the rider) that can be carried on the motorcycle without exceeding the GVWR.

Tire Data: Buell Models

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⚠WARNING

Match tires, tubes, air valves and caps to the correct wheel rim. Contact a Buell dealer. Mismatching can result in damage to the tire bead, allow tire slippage on the rim or cause tire failure, which could result in death or serious injury. (00162a)

⚠WARNING

Use only Buell approved tires. See a Buell dealer. Using non-approved tires can adversely affect stability, which could result in death or serious injury. (00133a)

- Tubeless tires are used on all Buell cast wheels. Tire sizes are molded on the tire sidewall.
- Use only recommended tires (the same as original equipment). Other tires may not fit correctly, could adversely affect handling, and may be hazardous to use.

NOTE:

*Refer to **Tires: 2008 Buell 1125R Models**. Always check tire pressure before riding. Tire pressures listed are with tires cold.*

Gasoline Blends: Buell Models

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Your motorcycle was designed to get the best performance and efficiency using unleaded gasoline. Most gasoline sold is blended with alcohol and/or ether, to create "oxygenated" blends. The type and amount of alcohol or ether added to the fuel is important.

CAUTION

Do not use gasoline that contains methanol. Doing so can result in fuel system component failure, engine damage and/or equipment malfunction. (00148a)

- Gasoline containing METHYL TERTIARY BUTYL ETHER (MTBE): Gasoline/MTBE blends are a mixture of gasoline and as much as 15% MTBE. Gasoline/MTBE blends can be used in your motorcycle.
- ETHANOL is a mixture of 10% ethanol (Grain alcohol) and 90% unleaded gasoline. Gasoline/ethanol blends can be used in your motorcycle if the ethanol content does not exceed 10%.
- REFORMULATED OR OXYGENATED GASOLINES (RFG): "Reformulated gasoline" is a term used to describe gasoline blends that are specifically designed to burn cleaner than other types of gasoline, leaving fewer "tailpipe" emissions. They are also formulated to evaporate less when you are filling your tank. Reformulated gasolines use additives to "oxygenate" the gas. Your motorcycle will run normally using this type of gas and Buell recommends you use it when possible, as an aid to cleaner air in our environment.
- Do not use race gas or octane boosters. Use of these fuels will damage the fuel system.

You may find that some gasoline blends adversely affect the starting, drivability or fuel efficiency of your bike. If you experience one or more of these problems, we recommend you try a different brand of gasoline or higher octane rating.

Fuel

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Refer to **Octane Ratings**. Always use a good quality unleaded gasoline. Octane ratings are usually found on the pump.

⚠WARNING

Avoid spills. Slowly remove filler cap. Do not fill above bottom of filler neck insert, leaving air space for fuel expansion. Secure filler cap after refueling. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00028a)

⚠WARNING

Use care when refueling. Pressurized air in fuel tank can force gasoline to escape through filler tube. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00029a)

Modern service station pumps dispense a high flow of gasoline into a motorcycle fuel tank making air entrapment and pressurization a possibility.

Octane Ratings

SPECIFICATION	RATING
Pump Octane (R+M)/2	91 (95 RON)

Catalytic Converters

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Some motorcycles are equipped with catalytic converters.

CAUTION

Do not operate catalytic converter-equipped vehicle with engine misfire or a non-firing cylinder. If you operate the vehicle under these conditions, the exhaust will become abnormally hot, which can cause vehicle damage, including emission control loss. (00149a)

CAUTION

Use only unleaded fuel in catalytic converter-equipped motorcycles. Using leaded fuel will damage the emission control system. (00150b)