

Safety First

Safe Operating Rules: Blast Models

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Before operating your new Buell, it is your responsibility to read and follow operating and maintenance instructions in this manual. Follow these basic rules for your personal safety.

Know and respect the rules of the road. See [Rules of the Road: Buell Models](#). Read and observe the MOTORCYCLE SAFETY booklets that come with this Owner's Manual. You should also read and know the contents of the MOTORCYCLE HANDBOOK for your state.

Before starting engine, check for proper operation of brake, clutch, shifter and throttle controls. Inspect fuel and oil supply. Also, get in the habit of using the **FINE-C** method. **FINE-C** stands for:

- **FUEL:** Check that the fuel valve is in the ON position and there is fuel in the tank. See [Fuel Supply Valve Operation: Blast Models](#).
- **IGNITION:** Check that the key is in the IGNITION position. See [Ignition/Headlamp Key Switch: Blast Models](#).
- **NEUTRAL:** Shift to neutral and look to see that the green neutral lamp is on. See [Indicator Lamps: Blast Models](#). Roll the motorcycle forward and backward to verify that it is in neutral gear. Shifting to neutral feels slightly different than shifting to other gears. The easiest way to find neutral by pushing your foot all the way down on the foot shift lever (to first gear) then lifting the lever slightly up (half stroke).
- **ENGINE:** Set the engine OFF/RUN switch to the ON position. See [Handlebar Controls: Blast Models](#).
- **CLUTCH:** Squeeze the clutch in. See [Handlebar Controls: Blast Models](#).

WARNING

Do not use aftermarket parts and custom made front forks which can adversely affect performance and handling. Removing or altering factory installed parts can adversely affect performance and could result in death or serious injury. (00001a)

Use only Buell approved parts and accessories. Use of certain "race only" or other manufacturer's performance parts will void your new motorcycle warranty. See a Buell dealer for details.

⚠WARNING

Engine exhaust from this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (00004e)

⚠WARNING

Wheel weights on wheels without spokes contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (00356b)

⚠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)

When refueling your motorcycle, the following rules should be observed:

1. Refuel in a well ventilated area with the engine turned off.
2. Remove fuel filler cap slowly.
3. Do not smoke or allow open flames or sparks when refueling or servicing the fuel system.
4. Always turn the fuel supply valve to OFF when the engine is not running. This prevents flooding of the carburetor and the surrounding area with gasoline.
5. Do not fill fuel tank above the bottom of the filler neck insert.
6. Leave air space to allow for fuel expansion.

⚠WARNING

Do not run motorcycle in a closed garage or confined area. Inhaling motorcycle exhaust, which contains poisonous carbon monoxide gas, could result in death or serious injury. (00005a)

WARNING

Be sure side stand is fully retracted before riding. If side stand is not fully retracted, it can contact the road surface causing a loss of vehicle control, which could result in death or serious injury. (00130a)

See [Break-in Riding Rules](#). A new motorcycle must be operated according to the special break-in procedure.

Operate motorcycle only at moderate speed and out of traffic until you have become thoroughly familiar with its operation and handling characteristics under all conditions.

NOTE:

We recommend that you obtain information and formal training in the correct motorcycle riding technique. The Motorcycle Safety Foundation® offers beginning and advanced rider safety courses. Call 1-800-447-4700 for information.

WARNING

Travel at speeds appropriate for road and conditions and never travel faster than posted speed limit. Excessive speed can cause loss of vehicle control, which could result in death or serious injury. (00008a)

Know your limits as a rider. Do not exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist and/or you feel the driving situation is uncomfortable. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.

If you are a novice rider, do not carry a passenger until you have experienced at least two riding seasons, your motorcycle will handle different when carrying a passenger.

Pay strict attention to road surfaces and wind conditions. Your motorcycle may be subject to the following upsetting forces:

1. Wind blasts from passing trucks.
2. Holes in the pavement.
3. Strips of tar used to seal cracked pavement.
4. Rough road surfaces.
5. Rider control error, etc.

These forces may influence the handling characteristics of your motorcycle. If this happens, reduce speed and guide the motorcycle with a relaxed grip to a controlled condition. Do not brake abruptly or force the handlebar; this may aggravate an unstable condition.

NOTE:

New riders should gain experience under various conditions while riding at moderate speeds.

Operate your motorcycle defensively. Remember, a motorcycle does not afford the same protection as an automobile in an accident. One of the most common accident situations occurs when the driver of the other vehicle fails to see or recognize a motorcycle and turns left into the oncoming motorcyclist. Riding with headlamp high beam switch on during daylight hours will increase your chances of visibility.

Wear an approved helmet, clothing, and foot gear suited for motorcycle riding. Bright or light colors are best for greater visibility in traffic, especially at night. Avoid loose, flowing garments and scarves.

WARNING

Avoid contact with exhaust system and wear protective clothing that completely covers legs while riding. Exhaust pipes and mufflers get very hot when engine is running and remain too hot to touch, even after engine is turned off. Failure to wear protective clothing could result in burns or other serious injury. (00009a)

When carrying passengers, it is your responsibility to instruct them on proper riding procedures. (See Riding Tips for Motorcyclist included in your Buell Owner's Kit.)

Do not allow others under any circumstances to operate your motorcycle unless you know they are experienced, licensed riders and are familiar with the operation of your particular motorcycle.

Protect your motorcycle against theft. After parking your motorcycle, lock the steering head and remove ignition key from switch.

WARNING

Do not operate vehicle with forks locked. Locking the forks restricts the vehicle's turning ability, which could result in death or serious injury. (00035a)

Safe motorcycle operation requires alert mental judgment combined with a defensive driving attitude. Do not allow fatigue, alcohol or drugs to endanger your safety or that of others.

See MAINTENANCE AND LUBRICATION section. Maintain your motorcycle in proper operating condition in accordance with the Maintenance Intervals chart in this Owner's Manual. Particularly important to motorcycle stability is proper tire inflation pressure, tread condition and proper inspection of wheel bearings and steering head bearings.

⚠WARNING

Perform the service and maintenance operations as indicated in the regular service interval table. Lack of regular maintenance at the recommended intervals can affect the safe operation of your motorcycle, which could result in death or serious injury. (00010a)

⚠WARNING

Do not operate motorcycle with loose, worn or damaged steering or suspension systems. Contact a Buell dealer for repairs. Loose, worn or damaged steering or suspension components can adversely affect stability and handling, which could result in death or serious injury. (00113a)

Be sure all equipment required by federal, state or local law is installed and in good operating condition.

⚠WARNING

Use Buell replacement fasteners. Aftermarket fasteners can adversely affect performance, which could result in death or serious injury. (00116a)

See a Buell service manual for proper torque values.

Aftermarket fasteners may not have the specific property requirements to perform properly.

⚠WARNING

Do not tow a disabled motorcycle. Towing can adversely affect stability and handling, which could result in death or serious injury. (00017a)

⚠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

Be sure tires are properly inflated, balanced and have adequate tread. Inspect your tires regularly and see a Buell dealer for replacements. Riding with excessively worn, unbalanced or under-inflated tires can adversely affect stability and handling, which could result in death or serious injury. (00114a)

WARNING

Do not exceed the motorcycle's Gross Vehicle Weight Rating (GVWR) or Gross Axle Weight Rating (GAWR). Exceeding these weight ratings can affect stability and handling, which could result in death or serious injury. (00016e)

- GVWR is the sum of the weight of the motorcycle, accessories, and the maximum weight of the rider, passenger and cargo that can be safely carried.
- GAWR is the maximum amount of weight that can be safely carried on each axle.
- The GVWR and GAWR are shown on the information plate, located on the frame down tube.

WARNING

Do not pull a trailer with a motorcycle. Pulling a trailer can cause tire overload, reduced braking efficiency and adversely affect stability and handling, which could result in death or serious injury. (00018b)

WARNING

Regularly inspect shock absorbers and front forks. Replace leaking, damaged or worn parts that can adversely affect stability and handling, which could result in death or serious injury. (00012a)

WARNING

Batteries contain sulfuric acid, which could cause severe burns to eyes and skin. Wear a protective face shield, rubberized gloves and protective clothing when working with batteries. **KEEP BATTERIES AWAY FROM CHILDREN.** (00063a)

WARNING

Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. (00019d)

⚠ WARNING

Observe warnings on labels of brake and battery fluids and cleaning compounds. Failure to follow warnings could result in death or serious injury. (00131a)

⚠ WARNING

Consult a Buell dealer regarding any questions or problems that occur in the operation of your motorcycle. Failure to do so can aggravate an initial problem, cause costly repairs, cause an accident and could result in death or serious injury. (00115a)

⚠ WARNING

Do not tow a disabled motorcycle. Towing can adversely affect stability and handling, which could result in death or serious injury. (00017a)

⚠ WARNING

Consult a Buell dealer regarding any questions or problems that occur in the operation of your motorcycle. Failure to do so can aggravate an initial problem, cause costly repairs, cause an accident and could result in death or serious injury. (00115a)

Rules of the Road: Buell Models

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As recommended previously, inexperienced riders are recommended to complete the beginner's Motorcycle RiderCourse[®] sponsored by the Motorcycle Safety Foundation[®]. Important tips about riding safety are listed below.

- Keep to the right side of the road when riding toward oncoming traffic. Ride to either side of your lane if you suspect oily pavement ahead.
- Always sound your horn but do not rely on it to be your only defense against other riders or drivers of automobiles and trucks. Stay alert and use **SIPDE** when making judgements to take action in traffic. **SIPDE** stands for: **S**can, **I**dentify, **P**redict, **D**ecide and **E**xecute.

- Use your turn signals, and pass on the left side when passing other vehicles going in the same direction. Never try to pass another vehicle going in the same direction at street intersections, on curves, or when going up and/or down a hill.
- When you are at street intersections, give the right-of-way to the vehicle on your right. Do not assume you have the right-of-way; the other driver may not know that it is your turn.
- Always use your signals when preparing to pass a vehicle, turn and/or stop.
- All traffic signs, including those used for the control of traffic at intersections, should be obeyed promptly. SLOW DOWN signs near schools and caution signs at railroad crossings should always be observed and your actions governed accordingly.
- When intending to turn to the left, signal at least 100 feet (30 meters) before reaching the turning point. Move over to the centerline of the street (unless local rules require otherwise), slow down, enter the intersection of the street and then turn carefully to the left.
- Never run through a yellow or red traffic light. When a change is indicated from GO to STOP (or vice versa), slow down and wait for the light to change.
- While turning either right or left, watch for pedestrians and animals; as well as vehicles.
- Do not leave the curb or parking area without signaling and being sure that your way is clear to enter moving traffic. Moving lines of traffic have the right-of-way.
- Be sure that your license plate is installed in the position specified by law and that it is clearly visible at all times. Keeping the plate clean will improve visibility of the motorcycle to other motorists (especially at night).
- Ride at a safe speed that is consistent with the type of highway you are on. Pay strict attention to whether the road is dry, oily, icy, wet or under construction.
- Watch for debris such as leaves or loose gravel.
- Weather and traffic conditions on the highway dictate adjusting your speed and driving habits accordingly.

WARNING

Travel at speeds appropriate for road and conditions and never travel faster than posted speed limit. Excessive speed can cause loss of vehicle control, which could result in death or serious injury. (00008a)

WARNING

Operating this motorcycle in a reckless manner, including performing wheelies, stoppies or burnouts, can lead to parts failure or loss of control, which could result in death or serious injury. (00120a)

Accessories and Cargo: Blast Models

WARNING

Improper loading of cargo or installation of accessories can affect motorcycle stability and handling, which could result in death or serious injury. (00121a)

Buell Motorcycle Company cannot test and make specific recommendations regarding every accessory or combination of accessories sold, the rider must assume responsibility for safe operation of the motorcycle when installing accessories or carrying additional weight. Use the following guidelines when equipping a motorcycle or carrying passengers and cargo.

WARNING

Do not exceed the motorcycle's Gross Vehicle Weight Rating (GVWR) or Gross Axle Weight Rating (GAWR). Exceeding these weight ratings can affect stability and handling, which could result in death or serious injury. (00016e)

- The Gross Vehicle Weight Rating (GVWR) and Gross Axle Weight Rating (GAWR) are shown on the information plate located on the frame steering head. GVWR is the sum of the weight of the motorcycle and accessories and the maximum weight of the rider and cargo that may be carried safely. Do not pull a trailer with this motorcycle. GAWR is the amount of weight that can be carried on each axle safely. Do not exceed the GVWR or GAWR as indicated on the frame label.
- Keep cargo weight concentrated close to the motorcycle as low as possible to minimize the change in the motorcycle's center of gravity. Distribute weight evenly on both sides of the vehicle and do not load bulky items too far behind the rider or add weight to the handlebars or front forks.
- Be sure cargo is secure and will not shift while riding. Periodically recheck load.
- Accessories that change the operator's riding position can increase reaction time and adversely affect handling. Only use such items if they are designed and approved by Buell Motorcycle Company, built specifically for your motorcycle and installed properly.
- Additional electrical equipment can overload the motorcycle's electrical system and cause an unsafe operating condition.
- Large surfaces, such as fairings, windshields, backrests and luggage racks, can affect handling. These items should be designed and approved by Buell Motorcycle Company specifically for the motorcycle model and properly installed.

CAUTION

It is possible to overload your motorcycle's charging system by adding too many electrical accessories. If your combined electrical accessories operating at any one time consume more electrical current than your vehicle's charging system can produce, the electrical consumption can discharge the battery and cause vehicle electrical system damage. See a Buell dealer for advice about the amount of current consumed by additional electrical accessories, or for necessary wiring changes. (00249b)

⚠ WARNING

Travel at speeds appropriate for road and conditions and never travel faster than posted speed limit. Excessive speed can cause loss of vehicle control, which could result in death or serious injury. (00008a)

⚠ WARNING

Buell motorcycles are not designed for sidecar use. Sidecar use with a Buell can adversely affect handling and reduce braking efficiency, which could result in death or serious injury. (00132a)

⚠ WARNING

Do not use aftermarket parts and custom made front forks which can adversely affect performance and handling. Removing or altering factory installed parts can adversely affect performance and could result in death or serious injury. (00001a)

⚠ WARNING

Keep tail lamp visible at all times. Do not place objects on license plate bracket blocking tail lamp visibility. Low visibility of rider can result in death or serious injury. (00123a)

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BUELL MOTORCYCLES USA

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Operation

Operating Recommendations: Blast Models

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CAUTION

Do not run the engine at extremely high RPM with clutch disengaged or transmission in neutral. Running an engine at high RPM can result in engine damage. (00177a)

- The maximum recommended safe engine speed is 6500 RPM.
- Do not idle engine unnecessarily for more than a few minutes with motorcycle standing still.

CAUTION

Air-cooled engines require air movement over the cylinders and heads to maintain proper operating temperature. Extended periods of idling or parade duty can overheat the engine, resulting in serious engine damage. (00178a)

NOTE:

The ignition module has a "skip spark" feature that automatically reduces power if the engine exceeds 6500 RPM.

An engine running long distances at high speed must be given closer than ordinary attention to avoid overheating and possible damage.

NOTE:

Have the engine checked regularly and keep it well tuned.

⚠ WARNING

When riding on wet roads, brake efficiency and traction are greatly reduced. Failure to use care when braking, accelerating or turning on wet roads can cause loss of control, which could result in death or serious injury. (00041a)

When descending upon a long, steep grade, downshift and use engine compression together with

intermittent application of both brakes to slow the motorcycle.

⚠WARNING

Continuous use of brake causes overheating and reduced efficiency, which could result in death or serious injury. (00042a)

CAUTION

Do not coast for long distances with the engine off. The transmission is properly lubricated only when the engine is running. Coasting long distances can result in transmission damage. (00180a)

⚠WARNING

Do not tow a disabled motorcycle. Towing can adversely affect stability and handling, which could result in death or serious injury. (00017a)

Break-in Riding Rules

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The First 500 Miles (800 Kilometers)

To properly wear-in critical parts during the first 500 miles (800 kilometers), please observe the simple riding rules below. This will assure future performance and durability.

1. During the first 50 miles (80 kilometers), keep the engine speed below 2500 RPM in all gears and do not exceed 50 mph (80 kph). Do not allow the engine to lug.
2. For the first 500 miles (800 kilometers), vary the engine speed and avoid riding at the same speed for long distances. Engine speeds up to 3000 RPM are permissible in any gear after 50 miles (80 kilometers) have accumulated. Do not exceed 55 mph (89 kph) for the first 50-500 miles (80-800 kilometers).
3. Avoid fast starts at wide open throttle. Drive slowly until engine warms up.
4. Refer to [Upshift \(Acceleration\) Gear Speeds: 2006 Blast Models](#) and [Downshift \(Deceleration\) Gear Speeds: 2006 Blast Models](#). Follow table guidelines for when to shift gears. Avoid running the engine at extremely low RPM in higher gears.
5. Avoid hard braking. New brakes need to be broken-in by moderate use for the first 200 miles

(300 kilometers).

Pre-Riding Checklist: Buell Models

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⚠WARNING

Read the CONTROLS AND INDICATORS section before riding your motorcycle. Failure to understand the operation of the motorcycle could result in death or serious injury. (00043a)

Before riding your motorcycle at any time, make a general inspection to be sure it is in safe riding condition.

⚠WARNING

Stop the engine when refueling or servicing the fuel system. Do not smoke or allow open flame or sparks near gasoline. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00002a)

⚠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)

CAUTION

Do not spill fuel onto the motorcycle while refueling. Immediately wipe up fuel spills on your motorcycle. Fuel can cause damage to cosmetic surfaces. (00147b)

1. Verify fuel is present in tank and add fuel if required.

2. Adjust mirrors to proper riding positions.
3. Verify oil is present in oil tank. Check oil level only after warming up the motorcycle.
4. Check controls to make sure they operate properly. Operate the front and rear brakes, throttle, clutch and shifter. All controls should operate freely without binding.
5. Check steering for proper operation by turning the handlebars through the full operating range. Handlebars should turn smoothly without binding.

⚠WARNING

Be sure tires are properly inflated, balanced and have adequate tread. Inspect your tires regularly and see a Buell dealer for replacements. Riding with excessively worn, unbalanced or under-inflated tires can adversely affect stability and handling, which could result in death or serious injury. (00114a)

6. Check tire condition and pressure. Incorrect pressure will result in poor riding characteristics and can affect handling and stability.
7. Check all electrical equipment and switches including the headlamp, stop lamp, turn signals and horn, for proper operation.
8. Check for any fuel, oil or hydraulic fluid leaks.
9. Check secondary belt for wear or damage. Service as necessary.

Starting The Engine: Blast Models

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⚠WARNING

Shift transmission to neutral before starting engine to prevent accidental movement, which could result in death or serious injury. (00044a)

CAUTION

The engine should be allowed to run slowly for 15-30 seconds. This will allow the engine to warm up and let oil reach all surfaces needing lubrication. Failure to comply can result in engine damage. (00181a)

FINE-C Method

Before starting the engine perform the pre-ride inspection and then complete the following steps:

1. **FUEL:** Check that the fuel supply valve handle is to the ON position. The fuel supply valve handle is located on the left side under the fuel tank. See [Fuel Supply Valve Operation: Blast Models](#).
2. **IGNITION:** Insert the key in the ignition/headlamp key switch and turn the key clockwise to the IGNITION position. See [Ignition/Headlamp Key Switch: Blast Models](#).
3. **NEUTRAL:** Make sure transmission is in neutral. Check to see if green neutral indicator lamp is illuminated. Roll motorcycle forwards and backwards to verify transmission is in neutral. See [Indicator Lamps: Blast Models](#).
4. **ELECTRIC STARTER:** Push the bottom of the engine off/run switch to the RUN position. The engine off/run switch is located on the right handlebar control. See [Handlebar Controls: Blast Models](#).
5. **CLUTCH:** Squeeze the clutch lever (1) in. The clutch lever is located just forward of the left handlebar grip. See [Handlebar Controls: Blast Models](#).
6. Retract the sidestand.
7. Push the electric starter switch (10) to start the engine. The electric starter switch is located on the right handlebar control. See [Handlebar Controls: Blast Models](#).

If you have any questions about the correct operation of your motorcycle, talk to an authorized Buell dealer.

Stopping the Engine: Blast Models

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1. See [Handlebar Controls: Blast Models](#). Push the upper part of the engine off/run switch to shut the engine OFF. The engine off/run switch is located on the right handlebar control.
2. See [Ignition/Headlamp Key Switch: Blast Models](#). Turn the ignition/headlamp key switch counterclockwise to the OFF position.
3. See [Fuel Supply Valve Operation: Blast Models](#). Turn the fuel supply valve handle OFF.

Shifting Gears

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Getting Started

CAUTION

The clutch must be fully disengaged before attempting a gear shift. Failure to fully disengage the clutch can result in equipment damage. (00182a)

Gear shift pattern is first gear down, next four gears up.

NOTE:

Always start engine with transmission in neutral. Always start motorcycle forward motion from first gear.

1. With motorcycle engine running and sidestand retracted, pull the clutch hand lever in against handlebar grip to fully disengage clutch.
2. Push the foot shift lever down to end of its travel and release. The transmission is now in first gear.
3. To start forward motion, release the clutch lever slowly to engage the clutch and at the same time, open throttle gradually.

Upshift (Acceleration)

Refer to [Upshift \(Acceleration\) Gear Speeds: 2006 Blast Models](#). Engage second gear after the motorcycle has reached the appropriate shifting speed.

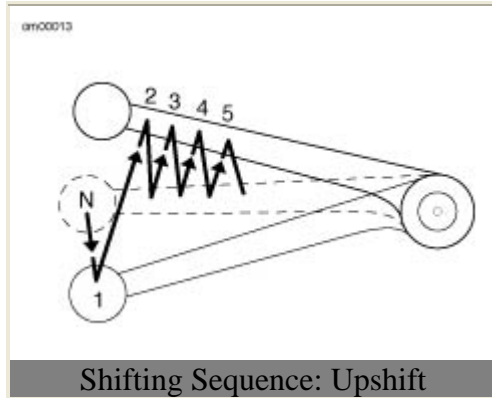
Upshift (Acceleration) Gear Speeds: 2006 Blast Models

GEAR CHANGE	MPH	KPH
First to second	15	25
Second to third	25	40
Third to fourth	35	55
Fourth to fifth	45	70

1. Close the throttle.
2. Disengage the clutch (pull clutch lever in).
3. See [Shifting Sequence: Upshift](#). Lift the gear shift lever up to the end of its travel and release.
4. Engage the clutch (release clutch lever) and gradually open the throttle.
5. Repeat the previous steps to engage third, fourth, and fifth gears.

NOTES:

- *Disengage the clutch completely before each gear change.*
- *Partially close the throttle so the engine will not drag when clutch is again engaged (clutch lever released).*



Downshift (Deceleration)

⚠ WARNING

Do not downshift at speeds higher than those listed in the Changing Gear Speeds table. Shifting to lower gears when speed is too high can cause the rear wheel to lose traction and lead to loss of vehicle control, which could result in death or serious injury. (00045a)

Gear shift pattern is fourth gear down; next three gears down. Refer to [Downshift \(Deceleration\) Gear Speeds: 2006 Blast Models](#) for shifting speeds.

Downshift (Deceleration) Gear Speeds: 2006 Blast Models

GEAR CHANGE	MPH	KPH
Fifth to fourth	40	65
Fourth to third	30	50
Third to second	20	30
Second to first	10	15

NOTE:

The shifting points shown in the tables constitute a recommendation. Vehicle owners may determine that their own individual shifting patterns may differ than those stated and are additionally appropriate for individual riding styles.

See [Shifting Sequence: Downshift](#). When engine speed decreases, as in climbing a hill or running at a reduced speed, shift to the next lower gear while partially closing the throttle so the engine accelerates as soon as the clutch lever is released.

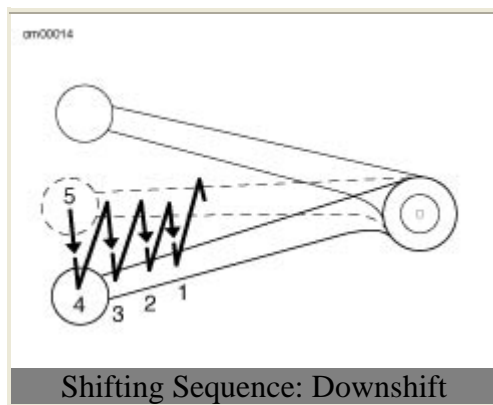
NOTES:

- *Disengage the clutch completely before each gear change.*
- *Partially open the throttle so the engine will not drag when clutch is again engaged (clutch lever released).*

CAUTION

Shift to neutral before stopping engine. Shifting mechanism can be damaged by shifting gears while engine is stopped. (00183a)

The gear shifter mechanism permits shifting the transmission to neutral from either first or second gear.



Controls and Indicators

General: Controls and Indicators

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⚠ WARNING

Read the CONTROLS AND INDICATORS section before riding your motorcycle. Failure to understand the operation of the motorcycle could result in death or serious injury. (00043a)

Some features explained in this section are standard equipment on this model. Other features may be available as accessories for your Buell motorcycle. See a Buell dealer for a complete list of accessories that will fit your specific motorcycle.

Refer to the side view photographs in the front of the manual to locate the items discussed in this section. See [2006 Blast Models](#).

Ignition/Headlamp Key Switch: Blast Models

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⚠ WARNING

The automatic-on headlamp feature provides increased visibility of the rider to other motorists. Be sure headlamp is on at all times. Poor visibility of rider to other motorists can result in death or serious injury. (00030b)

CAUTION

Do not lubricate barrel locks with petroleum based lubricants or graphite. Inoperative locks may result. (00152a)

NOTE:

Record your key number (impressed on plastic tab that comes with keys) in the space provided at the front of this book.

The ignition/headlamp key switch controls the distribution of power to the ignition and lamps. The key may only be removed from certain positions. Refer to [Key Removal: 2006 Blast Models](#) for details.

1. See [Ignition/Headlamp Key Switch: Blast Models](#). Turn the key clockwise to the IGNITION position (1) to provide power to the ignition and activate the lamps. The key must be in this position to start the bike.

NOTES:

- If you leave the key in the IGNITION position for an extended period while you are parked, the lamps will eventually discharge the battery.
- The headlamp and tail lamp illuminate when the ignition/headlamp key switch is in the ignition position (1), as required by law in some localities.

2. Turn the key counterclockwise to the OFF position (2) to shut the bike off.
3. The PUSH DETENT (3) is located between OFF (2) and STEERING HEAD LOCK (4). To turn the key to the PUSH DETENT (3) position, the key must be pushed down and turned counterclockwise. To turn the key to the STEERING HEAD LOCK (4) or PARKING LAMPS (5) position, the handlebars must be turned to the left and the key must be pushed down while in the PUSH DETENT (3) position and turned counterclockwise.

NOTE:

The key must be pushed down and turned to access the PUSH DETENT position. It does not need to be pushed down to access the STEERING HEAD LOCK or PARKING LAMPS positions.

4. Turn the key counterclockwise to STEERING HEAD LOCK (4) to lock the steering head in position and discourage theft of the motorcycle. See [Steering Head Lock: Blast Models](#) for more information on this feature.
5. Turn the key counterclockwise to the PARKING LAMPS (5) position to illuminate the tail lamp, speedometer and indicator lamps (neutral and oil pressure). See [Indicator Lamps: Blast Models](#).

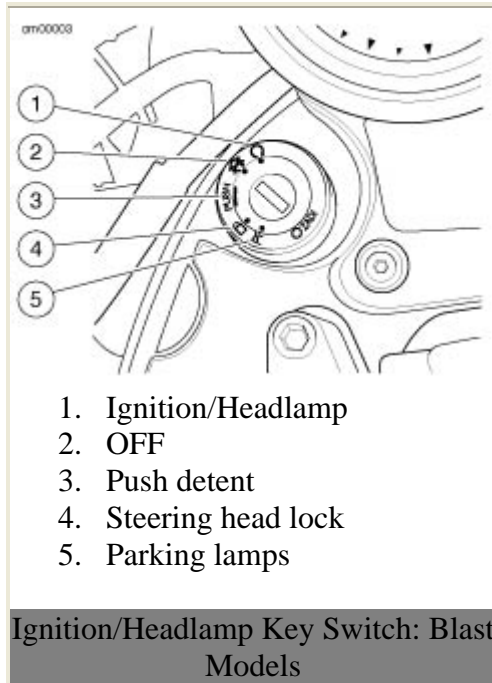
NOTE:

The speedometer lamp, tail lamp, neutral, and oil lamps are illuminated when the key switch is in the parking lamp position, as required by law in some localities.

Key Removal: 2006 Blast Models

KEY SWITCH POSITION	REMOVE KEY
--------------------------------	-------------------

Ignition/headlamp	No
OFF	Yes
Steering head lock	Yes
Parking lamps	Yes



Hand Controls: Blast Models

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Electric Starter Switch

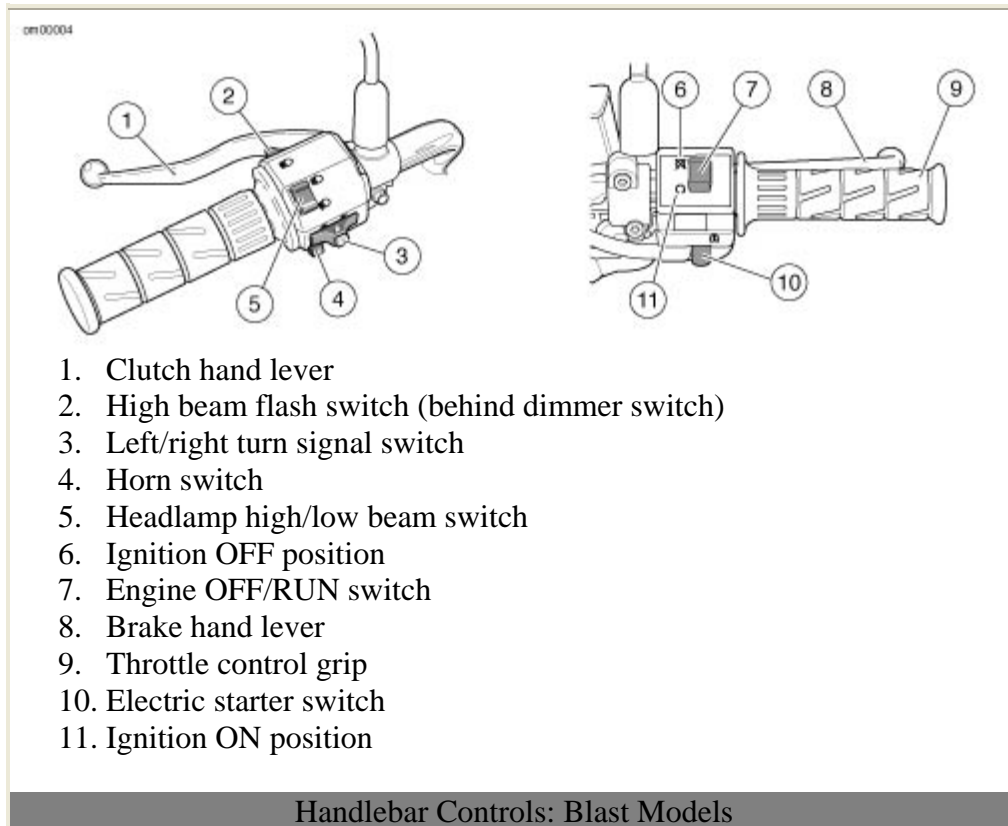
See [Handlebar Controls: Blast Models](#). The electric starter switch (10) is located on the right handlebar control. Pushing in the electric starter switch engages the electric starter and starts the engine if ignition power is ON. See [Starting The Engine: Blast Models](#) for operation procedures.

Engine OFF/RUN Switch

See [Handlebar Controls: Blast Models](#). The engine off/run switch (7) turns the ignition power ON or OFF. The engine off/run switch is located on the right handlebar control. Push the top portion of the engine off/run switch to turn off ignition power and shut the engine off. Push the bottom of the engine off/run switch to turn on ignition power.

NOTES:

- The engine off/run switch must be in the ON position (11) to start or operate the engine.
- The engine off/run switch should be used to shut the engine off.



1. To shut the engine off, push the top of the off/run switch (7) to the ignition OFF position (6).
2. See [Ignition/Headlamp Key Switch: Blast Models](#). Turn the ignition/headlamp key switch counterclockwise to the OFF (2) position to turn the ignition power completely OFF.

Throttle Control Grip

See [Handlebar Controls: Blast Models](#). The throttle control grip (9) is located on the right handlebar control and is operated with the right hand.

1. Slowly turn throttle control grip clockwise (toward the front of the bike) to close the throttle

- (decelerate).
2. Slowly turn throttle control grip counterclockwise (toward rear of bike) to open the throttle (accelerate).

Clutch Hand Lever

WARNING

Do not position fingers between hand control lever and handlebar grip. Improper hand positioning can impair control lever operation and cause loss of vehicle control, which could result in death or serious injury. (00032a)

See [Handlebar Controls: Blast Models](#). The clutch hand lever (1) is located on the left handlebar and is operated with the fingers of the left hand.

1. Slowly pull clutch hand lever in against handlebar grip to fully disengage clutch.
2. Shift to first gear using the gear shifter lever. See [Gear Shift Lever](#).
3. Slowly release the clutch hand lever to engage clutch.

Horn Switch

See [Handlebar Controls: Blast Models](#). The horn is operated by pushing on the horn switch (4) located on the left handlebar control group.

Headlamp High/Low Beam Switch

See [Handlebar Controls: Blast Models](#). The headlamp high/low beam switch (5) is located on the left handlebar and controls the headlamp high and low beams.

- Press the top of the headlamp high/low beam switch to activate the high beam.
- Press the bottom of the headlamp high/low beam switch to return to the low beam.

See [Indicator Lamps: Blast Models](#). The (blue) high beam indicator lamp (2) will illuminate when the high beam is on.

High Beam Flash Switch

See [Handlebar Controls: Blast Models](#). The high beam flash switch (2) is located on the back side of the handlebar control area. Pressing this switch allows you to flash the high beam. The high beam will be illuminated for as long as the switch is held down.

Turn Signal Switch

See [Handlebar Controls: Blast Models](#). The left/right turn signal switch (3) is located on the left handlebar control and activates the front and rear turn signal flashers.

- Push the turn signal switch to the right to activate the right front and rear turn signal flashers.
- Push the turn signal switch to the left to activate the left front and left rear turn signal flashers.
- Press the yellow button in the middle of the left/right handlebar turn signal switch to manually cancel the turn signal.

NOTE:

If signaling to turn in one direction and switch is depressed towards the opposite direction, the first signal is cancelled and the opposite side begins flashing.

See [Indicator Lamps: Blast Models](#). The (green) turn signal indicator (3) will illuminate and flash to indicate the turn signals are in use.

NOTE:

The Blast is not equipped with 4-way hazard flashers.

Gear Shift Lever

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CAUTION

The clutch must be fully disengaged before attempting a gear shift. Failure to fully disengage the clutch can result in equipment damage. (00182a)

The gear shift lever is located on the left side of the motorcycle and is operated with the left foot.

1. Push the gear shift lever all the way down (full stroke) to shift the transmission to the next lower gear.
2. Lift the gear shift lever all the way up (full stroke) to shift the transmission to the next higher gear.

NOTES:

- Release the gear shift lever after each gear change.
- The lever must return to its central position before another gear change can be made.

See [Shifting Sequence \(shown from left side of motorcycle\)](#). First gear is the last gear position that can be found by pushing the gear shift lever full stroke downward.

Neutral is located between first and second gear. The green neutral indicator lamp on the dash will illuminate when the transmission is in neutral.

1. To shift from first gear to neutral, lift the gear shift lever 1/2 of its full stroke.
2. To shift from second gear to neutral, push the gear shift lever downward 1/2 of its full stroke.

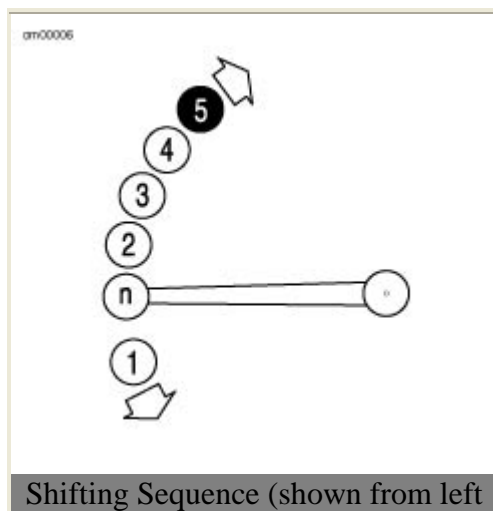
When the motorcycle is standing still and the engine is not running, shifting gears requires a different technique. Before shifting in this condition, move the motorcycle backward and forward with the clutch fully disengaged (clutch lever pulled in). While maintaining slight pressure on the shift lever, shift from one gear to another.

Even with the engine running and the motorcycle standing still, difficulty may be experienced in shifting gears. This difficulty occurs because transmission gears are not turning and shifting parts are not lined up to permit engagement.

CAUTION

When difficulty of shifting gears is experienced, do not under any circumstances, attempt to force the shift. The results of such abuse will be a damaged or broken shifter mechanism.
(00161a)

See [Shifting Gears](#) for more information.



Shifting Sequence (shown from left

side of motorcycle)

Brake System

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WARNING

Do not apply brake strongly enough to lock the wheel. A locked wheel will skid and can cause loss of vehicle control, which could result in death or serious injury. (00053a)

The rear brake pedal controls the rear wheel brake and is located on the motorcycle's right side. Operate the rear brake pedal with the right foot.

The front brake hand lever controls the front wheel brake and is located on the right handlebar. Operate the hand lever with the fingers of the right hand.

WARNING

Do not position fingers between hand control lever and handlebar grip. Improper hand positioning can impair control lever operation and cause loss of vehicle control, which could result in death or serious injury. (00032a)

Brakes should be applied uniformly and evenly to prevent wheels from locking up. A balance between rear and front braking is generally best.

Indicator Lamps: Blast Models

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General

See [Indicator Lamps: Blast Models](#). The speedometer houses four indicator lamps.

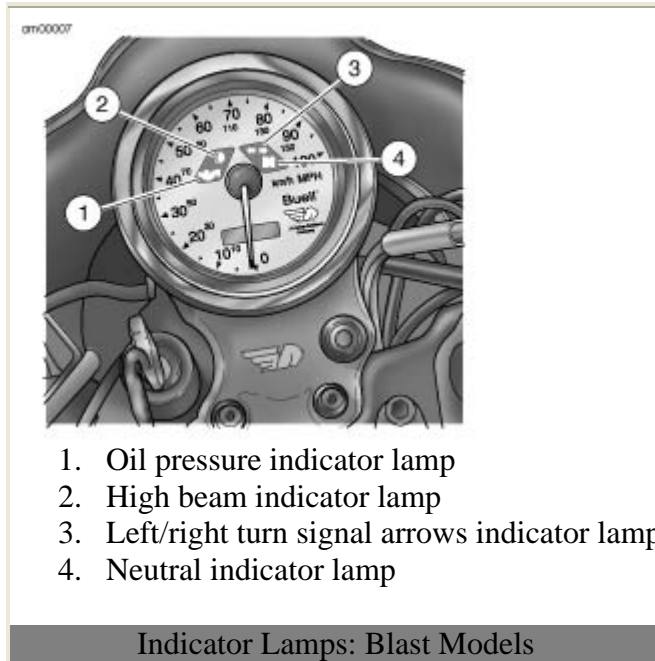
- The red oil pressure indicator indicator lamp (1) illuminates when oil is not circulating through

the engine.

- The blue high beam indicator lamp (2) illuminates when the headlamp high beam is on.
- The green turn signal indicator indicator (3) flashes when a turn signal is activated. The flashing arrows indicate the turn signals are in use.
- The green neutral indicator lamp (4) illuminates when the transmission is in neutral gear.

NOTE:

The oil pressure indicator indicator lamp will illuminate when the ignition is turned on prior to starting engine. With engine running, the oil pressure indicator lamp should be off when engine speed is above idle.



Oil Pressure Lamp Operation

Conditions that could cause the red oil pressure indicator lamp to illuminate during operation include:

- Empty oil tank, incorrect oil level or diluted oil (at speeds above idle).
- Oil feed line clogged with ice and sludge, preventing oil circulation (in freezing weather).
- Grounded oil signal switch wire.
- Faulty oil pressure switch.
- Damaged or improperly installed check valve.
- Improper oil pump operation.

CAUTION

If the oil pressure indicator lamp remains lit, always check the oil supply first. If the oil supply is normal and the lamp is still lit, stop the engine at once and do not ride further until the trouble is located and the necessary repairs are made. Failure to do so may result in engine damage. (00157a)

If the oil pressure indicator lamp illuminates during operation:

- Stop the engine immediately and check the oil level.
- Add recommended oil as required until proper level is achieved.

If the oil pressure indicator lamp illuminates during operation despite proper oil level:

- Stop the engine immediately and do not ride further until the necessary repairs are made. See a Buell dealer.

Instruments: Blast Models

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Speedometer

⚠ WARNING

Travel at speeds appropriate for road and conditions and never travel faster than posted speed limit. Excessive speed can cause loss of vehicle control, which could result in death or serious injury. (00008a)

See [Speedometer/Odometer: Blast Models](#). The speedometer (1) registers miles per hour (mph) and kilometers per hour (kph) of forward speed.

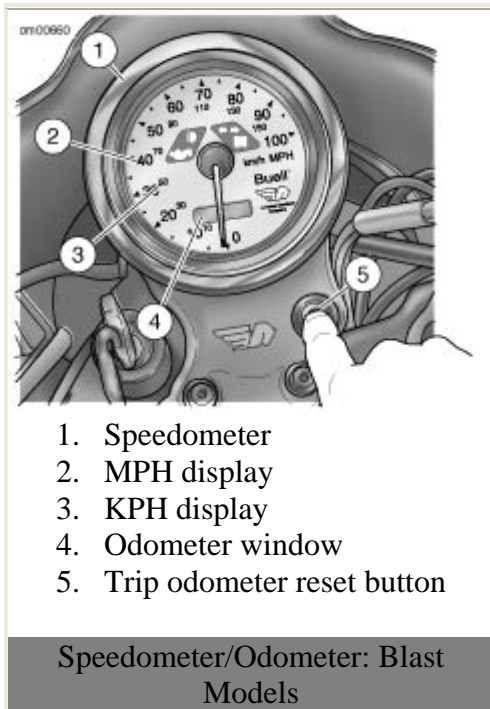
Odometer/Trip Odometer

CAUTION

Never attempt to tamper with or alter the vehicle odometer. This is illegal. Tampering with or altering a vehicle odometer may cause equipment damage. (00160a)

See [Speedometer/Odometer: Blast Models](#). The odometer records the total distance traveled. The trip odometer records distance traveled since it was last reset by the rider. The odometer window (4) is located on the speedometer face and displays the odometer/trip odometer readings. The trip odometer reset button (5) allows the rider to toggle between odometer and trip odometer readings as well as reset the trip odometer.

1. Press the reset button (5) on the dash panel to display the trip odometer reading.
2. Press and hold reset button to zero the trip odometer.
3. Press reset button again to display the odometer.



Rear View Mirrors

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⚠ WARNING

Objects in mirrors are closer than they appear. Use caution when judging distance of objects in mirrors. Failure to judge correct distances could result in death or serious injury. (00033a)

Your vehicle is equipped with two convex rear view mirrors.

This type of mirror is designed to give a much wider view to the rear than a flat mirror. However, cars and other objects seen in this type of mirror will look smaller and farther away than they actually are.

- Use caution when judging the size or relative distance of objects seen in rear view mirrors.
- Always adjust the rear view mirrors to clearly reflect the area behind the motorcycle before riding.

NOTE:

Adjust mirrors so you can see a small portion of your shoulders in each mirror. This will help you establish the relative distance of vehicles to the rear of your motorcycle.

Sidestand: Blast Models

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WARNING

This motorcycle does NOT have a locking sidestand. Park the motorcycle on a level, firm surface. An unbalanced motorcycle can fall, which could result in death or serious injury. (00122a)

WARNING

Always park motorcycle on a level, firm surface. An unbalanced motorcycle can fall over, which could result in death or serious injury. (00039a)

The sidestand is located on the left side of the motorcycle and swings down to support the motorcycle for parking.

The motorcycle has an ignition interlock feature controlled in part by the sidestand position. The sidestand must be fully retracted before you can begin forward movement on the motorcycle. Attempting forward movement with the sidestand down will result in immediate loss of ignition power.

WARNING

Be sure side stand is fully retracted before riding. If side stand is not fully retracted, it can contact the road surface causing a loss of vehicle control, which could result in death or serious injury. (00130a)

Steering Head Lock: Blast Models

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CAUTION

Protect your vehicle against theft. After parking your motorcycle, lock the steering head and remove ignition key from switch. Failure to lock your motorcycle may result in theft and/or equipment damage. (00151a)

The steering head lock is located on the ignition/headlamp key switch and is operated by the ignition key.

1. Verify sidestand is down. Turn handlebars full left or right.
2. See [Ignition/Headlamp Key Switch: Blast Models](#). Push down on the ignition key and turn it counterclockwise to the steering head lock position. Move handlebars slightly until locked.
3. Attempt to turn the handlebars to the right to verify that the steering head is locked. Handlebars should not turn.
4. Remove key from the ignition/headlamp key switch.

⚠ WARNING

Do not operate vehicle with forks locked. Locking the forks restricts the vehicle's turning ability, which could result in death or serious injury. (00035a)

Footpegs: Blast Models

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Two sets of footpegs (rider and passenger) are standard on the motorcycle. The rider footpegs are fixed in the extended position. The passenger footpegs are retractable and should be in the retracted position when not in use.

Fuel Supply Valve: Blast Models

⚠ WARNING

To prevent accidental flooding of the engine or surrounding area with gasoline, always turn the fuel supply valve to OFF when the engine is not running. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00098a)

See [Fuel Supply Valve Location: Blast Models \(shown from left side\)](#). A three-position fuel supply valve controls the supply of fuel to the engine. The fuel supply valve is located under the fuel tank on the left side of the bike. Turning the valve allows the rider to:

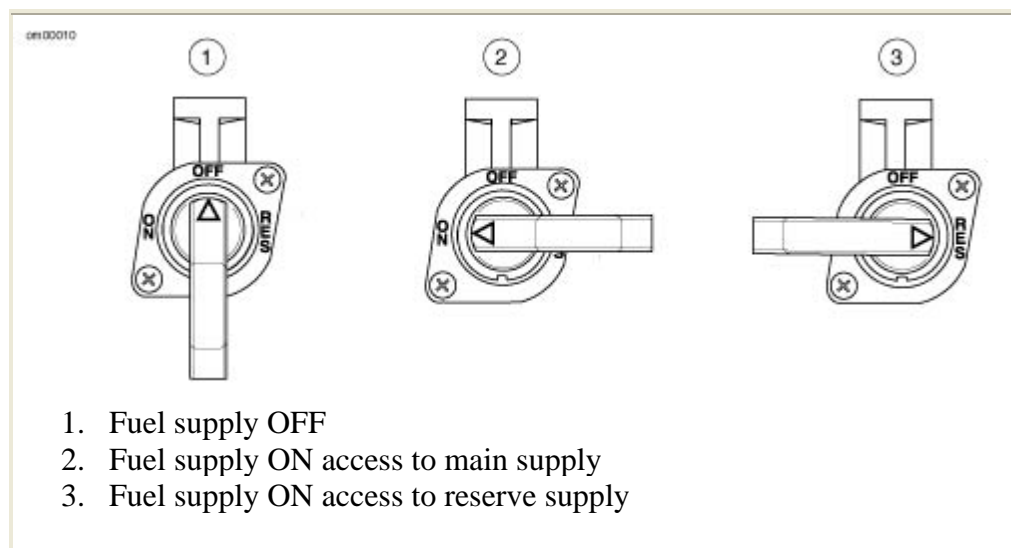
- Turn OFF the fuel supply.
- Turn ON the fuel supply.
- Access the RES (reserve) fuel supply.

When the fuel tank supply is low, approximately 0.55 gallon (2.1 liter) of fuel remains in the bottom of the tank. This is the reserve fuel supply. The reserve fuel supply is accessed by turning the handle to the RES position.

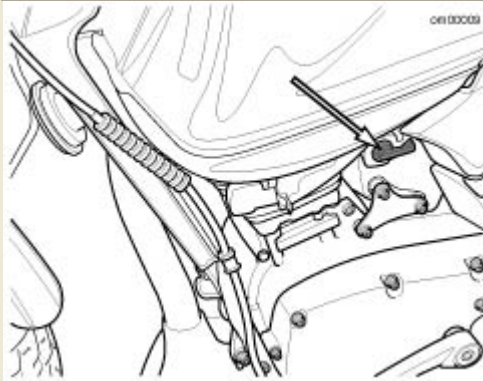
1. See [Fuel Supply Valve Operation: Blast Models](#). Turn the handle to the OFF position to turn off the main and reserve fuel supply.
2. Turn the handle counterclockwise to ON position to turn on main fuel supply.
3. Turn the handle clockwise to RES position to access the reserve fuel supply.

NOTE:

To maintain a reserve supply, place the valve in the reserve (ON) position after refueling.



Fuel Supply Valve Operation: Blast Models



Fuel Supply Valve Location: Blast Models (shown from left side)

Fuel Filler Cap: Blast Models

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⚠WARNING

Stop the engine when refueling or servicing the fuel system. Do not smoke or allow open flame or sparks near gasoline. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00002a)

⚠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)

Removal

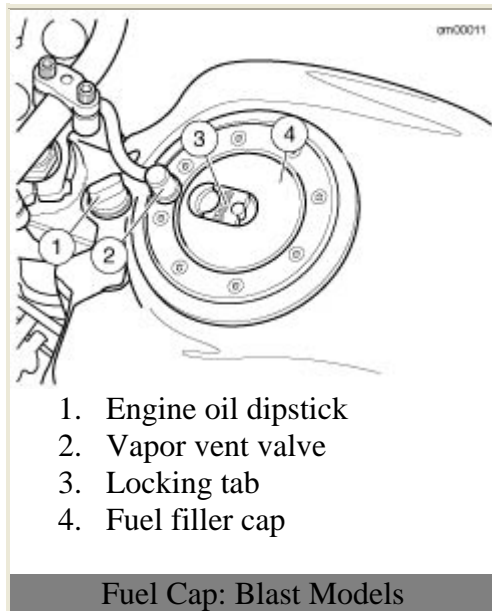
1. See [Fuel Cap: Blast Models](#). Lift locking tab up.
2. Turn locking tab 1/4 turn counterclockwise until it clicks.
3. Pull up on locking tab to remove fuel filler cap.

NOTE:

Refer to [Fuel: Blast Models](#) for the recommend fuel octane rating.

Installation

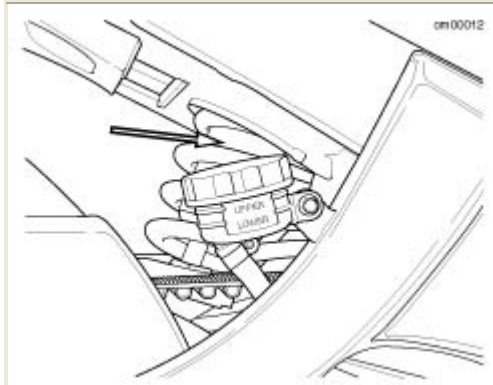
1. Position fuel filler cap on fuel tank with locking tab up.
2. Turn locking tab 1/4 turn clockwise. Push locking tab down.



Rear Shock Absorber: Blast Models

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See [Rear Shock Absorber: Blast Models](#). The actions of the rear suspension are controlled by a single rear shock absorber with an external, coil-over spring. The rear shock absorber is located under the seat and is not adjustable.



Rear Shock Absorber: Blast Models