



Buccaneer 250i Owner's Manual

Preface

Thank you for purchasing the SSR Buccaneer 250i fuel injected motorcycle, it will bring you years of pleasurable riding in a safe to operate package.

Riding a motorcycle is one of the most exciting past times. For your safety, you should read this owner's manual carefully and follow these instructions before you ride.

This manual introduces regular maintenance and service, please follow these instructions, it will help you to keep your motorcycle in good running order and functioning for years to come.

Our company never stops improving our quality and performance, this may lead to color or structural changes not outlined in this manual. We apologize if this brings you any inconvenience.

SSR Motorsports

Important Notice

1. Vehicle load capabilities

This motorcycle is designed for one driver and one passenger only.

2. Road conditions for driving

This motorcycle is only suitable for driving on roads.

3. Please read this manual carefully. Following the instructions outlined here will make your motorcycle more durable and stable.

Please note the followings words:

Warning: Means if you DO NOT follow the instructions, it could lead to serious damage for driver and passenger.

Caution: Means if you DO NOT follow the instructions, it may cause the person/s to be injured or damage to the motorcycle.

Notice: Provide useful information

This user manual is propriety to this motorcycle. If this vehicle is sold to others, you should pass this manual on to the new owner together with the vehicle.

Without our company permission, it is not allow to copy or translate any part of this manual.

This vehicle uses motorcycle grade engine oil.

---The special lubrication oil for motorcycle.

Special Notice

Warning: This motorcycle must use the correct spec fuse, DO NOT use other spec fuses or operate without a fuse. Incorrect fuses may cause damage to the vehicle or fire.

Fuse position: next to the battery.

Fuse spec: Main Fuse 15 Amp.

If you blow the main fuse, before you replace the fuse you should perform a simple check of the vehicle for electrical shorts. If after replacing the fuse it blows again, send the vehicle to an authorized SSR dealership for inspection.

Notice:

* When changing the battery for the first time be aware of the positive and negative terminals. If you connect the battery to the wrong terminals check the main fuse immediately. Even if the main fuse is not blown you should take your motorcycle to a SSR dealership for inspection. An incorrect connection could lead to electrical system damage.

* Before replacing the fuse, turn off the ignition switch and remove the key.

* When replacing the fuse, use caution not to damage the bottom of the fuse, otherwise it may cause failure or other electrical system damage.

Forbidden Modifications:

Please do not change the original parts position, otherwise it will seriously effect vehicle performance and safety and may even cause the vehicle to operate improperly. Modification examples are: electronic, emissions and/or fuel system, these changes may also be illegal. Our company will not take any responsibility for any of these changes made.

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Safety information

Safety Regulations:

1. Before riding check over your vehicle, in case of accident or damage parts.
2. The rider must possess a valid driver's license, and do not allow those without a driver's license to operate.
3. To avoid accidents with other drivers the rider should:
 - Wear bright colored clothes.
 - DO NOT ride close to other vehicles.
4. Strictly obey traffic regulations, do not cut in and out of traffic rapidly.
5. Most accidents are caused by speeding, you should follow the speed limit at all times.
6. When making turns, use the turn signal indicator.
7. Use caution when riding in parking lots, the fast lane, and at intersections.
8. DO NOT modify your motorcycle or remove parts, it may affect its function or void your warranty.
9. DO NOT add accessories that will affect riding your motorcycle, DO NOT overload electronic parts.

Clothing:

1. For safety reasons, the rider must wear a helmet, glasses and boots, gloves and a riding jacket/pants. A passenger should also wear the same gear listed above.
2. While riding, the exhaust system will be hot, DO NOT touch the exhaust system while riding or after riding until it has cooled completely.
3. DO NOT wear loose fitting clothing while riding, it could become caught on the motorcycle leading to an accident.

Helmet:

It is extremely important to wear a good quality helmet and glasses/goggles if not a full face helmet.

Riding in the rain:

Take special caution when riding in the rain, the braking distances are two times longer than dry riding.

Motorcycle VIN Number

Vehicle Identification Number (VIN) and the engine number are used for registration of your motorcycle. Please record your numbers for future use.

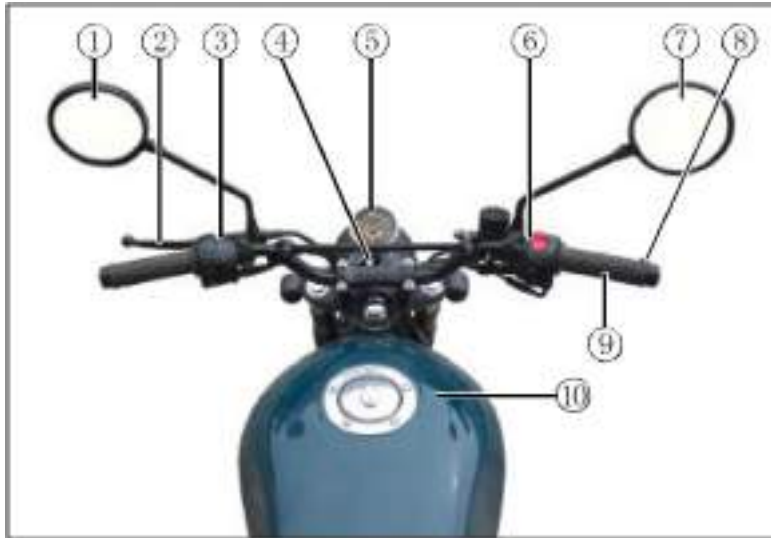
VIN Number is stamped into the vehicle frame on the right side of the steering stem (1). Engine Number is stamped on the lower engine crankcase on the left side (2). Product information label is on the vehicle frame on the right side below the fuel tank (3).

VIN Number: _____

Engine Number: _____



Parts Description



- | | | |
|----------------------------|-----------------------|--------------------|
| (1) Left Mirror | (7) Right Mirror | (14) Rear Footrest |
| (2) Clutch Lever | (8) Front Brake Lever | (15) Rear Brake |
| (3) Left Handlebar Switch | (9) Throttle Grip | (16) Front Brake |
| (4) Ignition Switch | (10) Fuel Tank | (17) Side Stand |
| (5) Speedometer | (11) Oil Filler Cap | (18) Shifter Lever |
| (6) Right Handlebar Switch | (12) Rear Brake Pedal | (19) Seat Lock |
| | (13) Front Footrest | |



• **Speedometer**

(1) Turning Signal Indicator

When the left turn signal is on, the left indicator will flash.

When the right turn signal is on, the right indicator will flash.

(2) Neutral Indicator

When the engine is in Neutral, the neutral indicator light will be on.

(3) High Beam Indicator

When the high beam headlight is on, the high beam indicator will be on.

(4) FI Indicator

When the ignition is switched on, the fuel injection indicator will light up. The fuel pump will cycle for 3 seconds, after that the engine will start. When the engine starts the F.I. indicator will shut off. If the indicator remains on, there is a F.I. problem present. Under normal operation the indicator should remain off. If the indicator remains on while the engine is running, stop riding and have the motorcycle inspected immediately.

(5) Speedo

This shows your driving speed.

(6) Odometer

This records the total driving distance.

(7) Gear Position Indicator

This indicates the gear position.

(8) Fuel Gauge

This indicates the fuel volume in the fuel tank.



Parts

• Key



This vehicle comes with two keys, both can be use to start the motorcycle and open all the locks. Please keep one key in a safe place. If you loose your key or need another one, please contact your closest dealer.





• Ignition Switch



Warning:

DO NOT turn off the key or remove it while riding, otherwise you could loose control of the vehicle.

“” logo.....when the key is on “” position, there is no power and cannot start engine, the key can be removed from the switch.

“” logo.....when the key is on “” position, it has electrical power and the engine can be started, the key cannot be removed.



“” position: To prevent theft, when you park please use this handlebar lock function. Turn the handlebars to the left, press down the key and turn the key to “” position, it will lock the handlebars. Then you can remove the key from the ignition switch.

Notice:

When parking your motorcycle please lock the handlebars and remove the key to prevent theft. Always park the motorcycle in an appropriate place.

• Left Handlebar Switch


(1) Clutch Lever

When starting the engine or shifting gears, please grip clutch lever, it will stop rear wheel spinning.


(2) Horn Button

When you press horn button, the horn will sound.



(3) Hi / Low Beam Switch

when the switch is in “” position, the high beam is on, and the speed high beam indicator light will be on as well.



When the switch is in “” position, the low beam is on.

(4) Turn Signal Switch

Press the left side turn signal “” the left side turn signal light will flash. Press right side turn signal “” the right side turn signal light will flash. To turn off the turn signal, please press the switch in, in the middle position.

Warning:


When changing lanes or turning, always use the turn signal indicator. Shut off the turn signal as soon as you have completed your turn.


(5) Passing Light

When you press this button the headlight high beam will flash. Use this only for passing or as a warning to other motorists.

• Right Handlebar Switch

(1) Engine Kill Switch

When this switch is in the “” position, the engine can be started.

When the switch is in the “” position, the engine cannot be started.

Warning:

Only use the Engine Kill Switch for emergency situations. Don't use this switch to shut off the engine as it could lead to damage to the catalytic converter.

(2) Start Button

When you press this button, the engine will start.

(3) Throttle Grip

The throttle grip controls the speed of the engine. When you want to accelerate, turn the grip toward the rear of the motorcycle.

(4) Front Brake Lever

When braking, please grip the right side lever gradually.



• Fuel Tank

When the speedometer's low fuel level warning light is on, please add gasoline immediately.

First open the dust cover (1), then insert the key and turn it clockwise, remove the key with the fuel tank cap.

After filling with gasoline reinstall the fuel tank cap, align the arrow with the front of the fuel tank and press down until the key returns to the removable position.



Warning:

Please DO NOT overfill the fuel tank. See the maximum fuel level image and DO NOT splash gasoline on the engine while hot, it is very dangerous. Open flame is prohibited when filling the fuel tank. If the tank is overfilled and the charcoal canister is filled please contact your local dealer for replacement. Gasoline contamination will cause the charcoal canister to fail earlier.

• Gear Shift Lever

This vehicle is equipped with an internal 5 speed transmission engine. Neutral is located between first and second gear. When you shift gears, please follow the warnings.



Caution:

When the engine is in neutral, the neutral indicator will light up. Please release the clutch gradually to ensure that the transmission is actually in neutral.

- **Rear Brake Pedal**

Press down on the rear brake pedal (as pictured). When the brake pedal is operated, the taillight will turn on.



- **Side Stand**

The side stand is on the left side of the motorcycle, be sure to use the stand when parking the vehicle.

Caution:

Don't park your motorcycle on a slope, otherwise your motorcycle may fall over.

- **Tool Kit**

The tool kit (1) is under the seat. The tool kit includes a screwdriver, screwdriver handle, and a wrench.



- **Rear Shock Absorber**

This vehicles rear shock absorber includes a spring and liquid dampening, the shock absorber can be adjusted according to different road conditions.

To adjust, release the lock nut (1) and loosen/tighten the adjustable locking ring (2) up or turn down, this will change the spring pressure.



- **Adjustable Mirrors**

Turn the mirror (2) and the mirror rod (1) to adjust the angle of the mirror.



Gasoline and Oil Information

• Gasoline

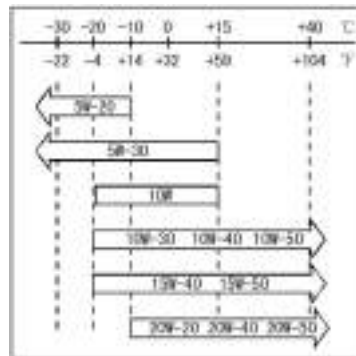
Please use unleaded gasoline. Please use the octane of #91 or above.

Caution:

Use only unleaded gasoline as this will prolong the life of the spark plugs.

• Oil

Please use SJ or above SJ grade engine oil. Use the viscosity chart below to determine the best viscosity for your region.



Engine Break-In

• Top speed

During the first 1,000 miles of operation, do not run the engine at high speed or accelerate too quickly. RPM's should not exceed 80% of the maximum RPM.

• Engine speed change

Speed should always be variable, it should change frequently, it helps the engine parts to break-in smoothly.

• Avoid Long Distances at Low Speeds

To help prevent damage and to assist the engine break-in period long distance travel at low speeds should be avoided until the engine is past the first 1,000 miles of use.

The chart below shows the recommended maximum RPM's during the break-in period.

First 500 miles	Under 5,000 RPM
First 1,000 miles	Under 6,000 RPM
Over 1,000 miles	Under 7,500 RPM

• **Before Riding**

Check the engine oil level before operating your motorcycle every time.

• **First Service Maintenance**

The first 600 mile maintenance is the most important service to have performed. Please tighten all hardware and change the oil.

Caution:
600 mile maintenance should be performed according to this manual. Please pay special attention to the “Caution” and “Warning” notes.

• **Special Notice**

Once your motorcycle has 200 miles on it return to the dealership for oil and filter replacement. Then after 600 miles return to the dealership for oil and filter replacement and air filter cleaning. After the 600 mile service the next oil change will be done at 3,000 miles or one year, whichever comes first. Check engine oil level frequently.


• **Before Riding**

Before riding check the items in the chart to the right.

Item Checks	Points
Handlebar	1) Stable 2) Turning Flexibility 3) Not Loose
Brakes	1) Brakes feel firm 2) No Fluid Leaks
Tires	1) Air Pressure Correct 2) Check Tire Wear 3) No Cracks or Damage
Fuel	Enough for planned travel
Lights	Turn Off / On all lights
Indicators	Check high-beam, neutral light, and turn signal indicators
Horn	Check Function
Oil	Level is Correct
Throttle	1) Rotates Freely 2) Engine Accelerates
Clutch	Check Function
Drive Chain	1) Correct Adjustment 2) Lubrication

Riding your Motorcycle

• Engine Starting

Please turn the key to “” position, if in neutral gear, the indicator will be on.

• Start

Pull in the clutch lever, press down gear shift lever into first gear. Turn throttle grip a little bit rearward and slowly and smoothly release the clutch, the motorcycle will start to move.

• Shifting Gears

The rider should change gears according to riding speed.

• Riding on Inclines

When riding up an incline, the motorcycle speed will decrease and may stall. When this happens, down-shift the transmission to get more torque.

• Using the Brakes and Parking

You should completely close the throttle and gradually apply the front and rear brakes. Before reaching a complete stop, pull in the clutch lever and shift gears into the neutral position. Check the gear indicator to make sure the transmission is in neutral.

Caution:

New riders tend to use only rear brake, this will cause the rear brakes to wear out rapidly and will make braking distances too long.

Warning:

Only using the front or rear brakes is dangerous, especially in wet conditions. This can cause loss of control. Always apply both brakes evenly. DO NOT brake suddenly as this may cause wheel lock up and skidding.

Your motorcycle should be parked on flat ground. If your motorcycle must be parked on an incline, please put your motorcycle in first gear and angle the front wheel into the curb to keep it from rolling.

Maintenance

The follow chart shows the maintenance schedule. When each service interval is reached you must perform the services outlined below. Suspension, Engine, Electronic System, Fuel Injection and Tires are key components. These items may require a professional technician to perform.

Maintenance Symbols: I: Inspect/Adjust C: Clean R: Replace A: Adjust L: Lubricate T: Torque

Maintenance period Maintenance content	Odometer (MI)																
	200	600	1200	2000	2600	3200	4000	4400	5000	5600	6200	7000	7600	8200	8800	9400	Everyday check before riding
Oil for crankcase	Raising oil period every 200 R		Every 1,200 R														I
Oil filter	Raising oil period every 200 C		Every 1,200 C														
Air filter	Every 2,600 clean filter if necessary please change																
Spark plug		I			I				I					I			
Valve clearance		I			I				I					I			
Gasoline filter					C				C					C			
Brake pedal		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake Fluid																	I
Drive Chain	Every 600 I, A																
Nuts, Bolts, Fasteners	T						T										T

Maintenance period Maintenance content	Odometer (MI)																
	200	600	1200	2000	2600	3200	4000	4400	5000	5600	6200	7000	7600	8200	8800	9400	Everyday check before riding
Drive Chain	Every 600 mi : I. L. A.																
Friction disk																	
Brake system		I. A			I. A				I. A				I. A				
Brake																	
Front headlight beam adjustment																	
Clutch																	
Stand																	
Suspension																	
Screw																	
Wheel																	
Tuning system																	

- * When the mileage exceeds the highest mileage on the table, please restart the table at the 600 mile interval.
- * If riding in a dusty environment clean the air filter and chain more frequently.

• Oil Change and Oil Level Check

Check the engine oil level before you start the engine. When checking the oil level, make sure the vehicle is on flat ground. Look through the oil window to check if the oil is between the L and H marks. If the oil level is lower than the L mark, remove the oil filler plug (1) and add oil until the level reaches the H mark.



Caution:

The best time to change the oil is when the engine is warm. The motorcycle should be supported vertically by a rear stand so that the warm oil will exit the engine quickly.

The engine oil capacity is 1.6 liters.

1. When draining the oil, please place an oil pan under the drain hole, and then remove the drain plug (1). When completely drained reinstall the oil drain bolt. Torque the bolt to 20-25 Nm.



Follow these steps to clean the oil filter.

(1.) Use a wrench to remove the oil filter cap.
(2.) Using clean dry rag to clean the oil filter cap and engine surface. In the meantime clean the oil filter screen (3).



(3.) Using a new or cleaned oil filter screen, put some oil on the cap o-ring (A).

Caution:

Replace the oil screen cap o-ring and the oil drain bolt crush washer every time you change the oil to avoid oil leakage.

(4.) Reinstall the oil screen cap and torque it to 15-20 Nm.
2. Add 1.6 liters of oil into the engine, until the oil level reaches to the maximum H mark.
3. Reinstall the oil filler cap.
4. Start the engine and allow the engine to idle for few minutes then turn off the engine.
5. Use the window to check the oil level. Make sure it's at the H mark and not leaking.

• Spark Plug

Use a small wire brush or a spark plug cleaner to clean the carbon deposits from the plug in the first 600 miles of use and after every 2,600 mi of riding. Every 5,000 miles, the spark plugs should be replaced.



Caution:

DO NOT over torque the spark plugs. Over torque could lead to cylinder head thread damage.

• Throttle Cable Adjustment

1. Turn the throttle grip to check if it reacts quickly or not.
2. Please check the throttle cable play, it should have 10° to 15° of freeplay at the handlebar grip.



Steel throttle cables. (A) throttle pull cable (B) throttle push cable. Please follow these steps to adjust the throttle grip travel distance.

1. Pull back the throttle cable cover.
2. Loosen the nut (3).
3. Adjust the screw (4).
4. Loosen the other nut (1).
5. Turn the adjustment screw (2) to allow for 10° ~ 15° of travel.
6. Tighten the nut (1).
7. Adjust screw (4) to allow freeplay.
8. Tighten the nut (3).



• Clutch Adjustment

Clutch lever freeplay should be around 10-20mm, if incorrect please follow these steps to adjust:

1. Move clutch cable cover
2. Loosen the lock nut (1).
3. Loosen or tighten the adjustment screw (2), until you reach the proper adjustment.
4. Tighten the lock nut (1).



If the clutch lever freeplay is still incorrect you may need to adjust it at the lower adjustment point (A) and adjuster (B).



• Engine Idle Adjust

This vehicle's engine adjusts idle automatically. If adjustment is needed, please contact an authorized SSR dealer.

• Throttle Body

The engine idle may decrease due to pollution of the throttle body. The throttle body should be cleaned every 3,200 mi.

When cleaning the throttle body, disconnect the positive and negative battery terminals, disconnect the throttle position sensor, remove the rubber intake hose which connects the throttle body and air filter. Then remove the throttle body. Open the butterfly valve, and spray with carburetor cleaner inside the valve and use a brush to remove dirt and carbon deposits.

Once clean, reinstall the throttle body and all other parts as before and start the engine.

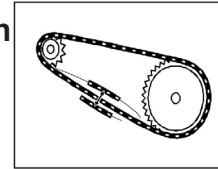
• Drive Chain

The life of the drive chain depends on your maintenance. Improper maintenance will cause a shorter life span.

• Adjusting the Drive Chain

Every 600 mi, please adjust the drive chain to make the chain sag 10 - 20mm.

Based on your riding habits you may need to adjust the chain more frequently.



Warning:

The drive chain should be inspected before every ride. The above adjustment interval is just a suggestion. A loose chain may cause engine damage or fall off.

Follow these steps to adjust the drive chain:

1. Use a swingarm stand.
2. Loosen the axle nut (1).
3. Loosen the adjuster nut (2).
4. Turn the adjuster bolt (3)



left or right to adjust the chain to proper slack. When adjusting the chain, be sure to make the adjustment evenly from side to side.

To help you make the adjustment, the swing-arm is marked with notches you can use for reference from side to side. The chain should have 10-20mm of slack. When you have completed the adjustment tighten the axle.

Caution:

When replacing the chain, inspect the sprockets also, if worn replace them.

Drive Chain Inspection Check List:

1. Chain rollers are seized.
2. Excessive sprocket wear.
3. Is chain rusty or dry.
4. Is chain damaged.
5. Uneven chain stretch (tight spots).
6. Still loose at maximum adjustment.

If the chain has one of the above problems, it may be caused by the sprockets. If so check the following items:

1. Sprockets may have excessive wear.
2. Broken or missing sprocket teeth.
3. Sprocket bolts may be loose.

• Lubrication of the Drive Chain

Only use motorcycle drive chain lube to lubricate the chain, DO NOT use motor oil.

• Brake

This vehicle uses front and rear disc brakes. Correct operation of the brakes is very important for safe riding. The brake system should be regularly inspected to ensure the utmost safety.

• Brake Adjustment

1. Front brake lever freeplay is 10-20mm.
2. Rear brake pedal freeplay is 10-20mm.



• Brake Pads

Please inspect the front brake pads (1). Once they have reached minimum thickness, replace them.



• Brake Fluid Level

As the brake pads wear, the brake cylinder fluid will decrease as the fluid fills the brake pistons. The front brake master cylinder is on the right side of the handle-bars. If the fluid level is below the minimum mark (1) add fluid to the reservoir. The rear brake master cylinder is in the middle of the vehicle, please make sure the fluid level is between the Lower and Upper marks. If the level is below the lower mark, please add brake fluid. Please check the brake fluid level regularly.



Caution:
This vehicle uses DOT 4 brake fluid. DO NOT use fluid from an open container or a different type. Please DO NOT get brake fluid on painted surfaces.

• Brake System

Please inspect the brake system daily.

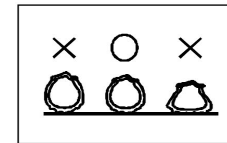
1. Check for brake fluid leaks
2. Check levers for proper brake pressure.

3. Check brake pad wear.

Warning:
If the brake system or brake pads require replacement take your vehicle to an authorized dealer. Once replaced be sure to pump up the brake systems.

• Tires

Correct air pressure in the tires will provide a stable and comfortable ride.



Front Tire Pressure	36 ± 1 psi
Rear Tire Pressure	36 ± 1 psi

Caution:
Please check the tire pressures when the tires are “cold.”

When the middle pattern of the tires reach the TWI (tread wear indicator) replace the tires. See the chart below for minimum tread wear depths.

Minimum Tread Depth	
Front Tire	1.6mm
Rear Tire	2.0mm

Warning:

DO NOT repair damaged tires. Underinflated or overinflated tires will lead to abnormal or premature wear. These conditions could lead to instability or accidents.

• **Removing / Installing the Seat**

Insert the key into the lock (1), which is under the seat on the left side, and turn the key clockwise to release the seat. Then pull the seat up and rearward to remove it.



To install the seat push the seat from the rear to the front of the motorcycle. Align the hook (2) with the frame



catch (3), press down to secure it.

• **Air Filter Maintenance**

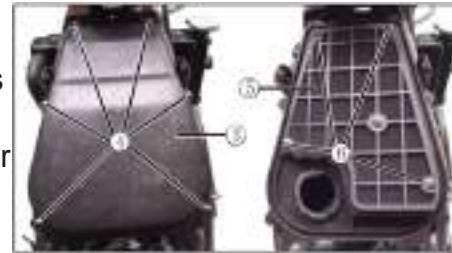
The air filter should be cleaned regularly.

If operating your motorcycle in dusty environments clean the air filter more often.

1. Remove seat (1), gas tank (2), then you will see the air box (3).
2. Remove the six screws (4) then remove the lid.



3. Remove the five air filter screws (6) then remove the air filter.



4. Clean the filter with air filter cleaner then oil it with foam air filter oil. Squeeze out any excess oil.
5. Assembly is reverse order of disassembly.

Caution:

DO NOT use gasoline or other flammable liquids to clean the air filter element.

• **Catalytic Converter**

In order to meet emission standards, this vehicle's muffler is equipped with a catalytic converter. The converter uses titanium as a catalyzer, it cleans harmful exhaust which includes Co, Oxycarbide and Oxynitride. After catalyzer treatment those will change to Co₂ and Oxygen. This is an important component in order to reduce emissions and to meet emission standards. If replacement is needed, please contact your authorized dealer.

Caution:

The catalytic converter gets very hot, please DO NOT touch it.

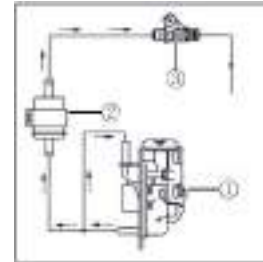
• **Fuel Injection and Fuel Hoses**

The fuel pump (1) has two connectors, fuel flows from the fuel pump to the fuel filter (2) to the fuel injector (3), which injects the fuel into the cylinder to be burned. If fuel pressure exceeds the need the fuel will be returned to the fuel pump.

See the diagram to the right for fuel system flow.

• **Parts Lubrication**

Proper lubrication will keep your motorcycle and every single part running smoothly and increase durability. After long rides or rain, we suggest you do lubrication maintenance. The main points are as follows:



Grease the items below:

- (1) Rear Brake Pedal Pivot
- (2) Side Stand
- (3) Shifter Lever Pivot
- (4) Throttle Cable
- (5) Front Brake Lever Pivot
- (6) Clutch Lever Pivot

- **Battery**

The battery is under the seat and is a non-serviceable type. Once the battery has been filled with electrolyte you cannot add any more. To remove the battery please follow these steps:



- A. Turn off ignition switch
- B. Remove the seat.
- C. Remove the negative pole (-) first, then the positive pole (+).
- D. Slide the battery up and out.

Caution:

When installing the battery be sure to connect the correct terminals to the correct posts. The red cable must connect to the positive pole (+) and black cable to the negative pole (-). Turn off the power any time you install or remove the battery.

- **Preparing a new battery for installation:**

Remove the foil seal from the top of the battery, fill with electrolyte solution and loosely install the cover and let stand for 30 minutes. After adding the electrolyte the battery will begin to charge and will increase in durability. When adding the electrolyte follow these steps:

- A. Place the battery on a flat surface and remove the foil seal.
- B. Remove the cover from the electrolyte container (DO NOT DISCARD and DO NOT BREAK)
- C. Press the electrolyte container down firmly on top of the battery piercing the 6 liquid cells.

Caution:

You must fill the battery on a flat surface otherwise each battery cell may not fill completely.

- D. Look for bubbles indicating that the fluid is filling the 6 battery cells. Wait at least 20 minutes.

If no bubbles can be seen, gently pat the top of the electrolyte bottle 2 or 3 times.

E. After the battery is completely filled remove the electrolyte container and discard.

F. Align the sealing strip from the electrolyte container over the opening in the battery and using a rubber mallet install the seal until flat.

• **When changing the battery note the following:**

Be sure the battery matches the one removed from the motorcycle. If an incorrect battery is used it could cause damage to the vehicle or electrical system.

Warning:

The battery and electrolyte contain poisonous chemicals and materials. Use gloves when handling and keep out of reach of children. The battery can cause sparks, flames and produces poisonous gases. Operate in a well ventilated room and rinse all surfaces exposed to electrolyte immediately with water.

• **Fuse Replacement**

The fuse box is located under the drivers seat, next to the battery. Replace fuses only with the same amp rating.

If a fuse blows many times, take your motorcycle to a dealer for a dead short inspection.



Warning:

When checking or replacing fuses be sure to turn off the ignition switch. Always use fuses of the same specification as removed, otherwise serious electrical faults could occur which could lead to fire or loss of engine power.

• Headlight adjustment

The headlight beam can be adjusted vertically. The adjustment bolts (1) are located on both sides of the headlight bucket. Using a 13mm wrench loosen both side bolts (1) and adjust the beam to the desired position then tighten the bolts.



Caution:

When adjusting the beam, the rider should sit on the seat and keep the motorcycle in a vertical position.

• Bulb replacement

When replacing a blown/broken bulb be sure to use a bulb of the same wattage. A bulb of higher wattage can cause melting of the bulb lens or electrical faults.

Headlight parking lamp replacement

1. Remove the two bolts (1) as in the picture.



2. Remove lens cover, replace the bulb with a new bulb.
3. Remove the parking lamp bulb (3) replace with a 12V 4W bulb.
4. Reassemble the light.



• Rear brake light change

The taillight (1) is all LED, if replacement is needed the entire light must be replaced. Contact your local dealership for replacement parts.



• **Front/Rear Turn Signal Bulb Replacement**

1. Rotate the turn signal lens clockwise, remove the bulb and replace with a 12V 10W bulb.
2. Turn counterclockwise to reinstall lens.



• **Vehicle Storage Information**

If you plan to store your motorcycle for an extended period of time take these steps to protect your vehicle:

1. Change the engine oil
2. Lube the drive chain
3. Drain the fuel tank and fuel system of any gasoline.

Caution:

Gasoline stored for long periods of time with deteriorate. If storing fuel for longer than 30 days use a stabilizer product.

Warning:

Gasoline is extremely flammable, when draining the fuel please keep away from fire or sparks that could ignite the fuel.

4. Remove the spark plugs and fill the cylinders with 15-20cc's of engine oil then turn over the engine several times. Reinstall the spark plugs when complete.
5. Remove the battery, store it in a cool, dry, shaded area and maintain the charge.
6. Clean and dry motorcycle
7. Set front and rear tire pressures.
8. Cover the motorcycle indoors in an area where the temperature doesn't fluctuate drastically.

• **To prepare unit for use after storage**

If stored over 4 months, change the engine oil. Test the battery and all other parts before use.

Specifications

Size & Weight

Length.....	80.31 inches
Width.....	30.91 inches
Height.....	40.95 inches
Wheel Base.....	56.30 inches
Weight.....	319.67 lbs.
Front wheel axle load.....	145.50 lbs.
Rear wheel axle load.....	174.16 lbs.

Engine

BoreXStroke.....	49X66mm
Displacement.....	249cc
Max Power.....	18.10 hp/8000r/min±120r/min
Max Torque.....	13.64 ft. lb./6000r/min±90r/min
Ignition.....	ECU
Compression Ratio.....	10:1
Start.....	Electric Start

Transmission

Clutch.....	Wet Multi Disk Clutch
Transmission.....	5 Speed
First reduction gear.....	3.13
Final reduction gear.....	2.8125
First gear ratio.....	2.642
Second gear ratio.....	1.684
Third gear ratio.....	1.260
Fourth gear ratio.....	1.000
Fifth gear ratio.....	0.821
Intake valve clearance.....	0.08mm
Exhaust valve clearance.....	0.08mm

Frame

Front suspension.....	Hydraulic monoshock
Rear shock absorber.....	Hydraulic
Front brake.....	Disc
Rear brake.....	Disc
Front tire.....	100/80-17
Rear tire.....	130/90-15

Electrical System

Battery.....	12V 9AH
Magneto.....	Permanent magnet
Headlight.....	12V 35W / 35W
Taillight.....	12V 4.5W / 1.7W LED
Fuel injection.....	12V
ECU.....	12V

Capacity

Fuel tank.....	3.43 gal.
Engine oil volume.....	1.6L

Performance

Max speed.....	75 MPH
Climbing ability.....	>20°
Braking distance.....	<7m(30km/h)
Fuel consumption.....	<2.9L / 100km
Loading.....	One Rider, One Passenger
Gasoline type.....	91#

