PREFACE

The manual contains the necessary instruction and guidance with respect to the operation and maintenance of the DIRT BIKE, and BE SURE TO READ IT CAREFULLY BEFORE YOU RIDE THE DIRT BIKE. Proper operation and maintenance can guarantee a safe riding to minimize troubles of the DIRT BIKE and keep it in a sound condition, which can extend the engine service life. Your dealer will provide you with technical inquiry and after-sales service. The technical data in the manual are the latest, and we reserve absolute right to amend them .The revision will be made without notice. Please check carefully the product nameplate.

IMPORTANT NOTICE

Operator and passenger

This DIRT BIKE is designed to carry the operator only. Never exceed the maximum loading capacity as specified in the manual.

Maximum loading: 100kgs

Off-road use

The DIRT BIKE is designed only for off-road surfaces, free of obstacles. Operationing on public streets, road or highways is illegal.

Read this owner's manual carefully

Pay special attention to statements preceded by the following words:

WARNING

A warning is used to alert the user to fact that hazardous operating and maintenance procedures may result in injury to or death of personnel if not strictly observed.

CAUTION

A caution is used to alert the user to fact that hazardous operating and maintenance procedures may result in damage to or destruction of equipment if not strictly observed.

NOTE

CONTENTS

VEHICLE SAFE RIDING

WARNING

Vehicle riding requires special efforts on your part to ensure your safety. Know these requirements below before you ride

NOTES FOR SAFETY

1. This vehicle is designed for the rides of 16-18 year-old.
2. Both parents and their children must fully understand everything in this Owner's manual before riding.
3. This vehicle is for OPERATOR ONLY.
4. For OFF-ROAD USE ONLY, This vehicle is designed to be operated only on level, off-road surfaces, free of obstacles.
5. it is illegal to ride this vehicle on public roads or highways .if it is necessary to cross a public road ,please get off this vehicle and push it across .
6. do not operate this vehicle while under the influence of alcohol or drugs .this can impair judgment and result in serious injury or ever death .
7. Keep a safe distance between your vehicle and other off-road vehicle.
8. Never ride this vehicle unless it has been properly adjusted and maintained.
9. Do not allow your child to ride without your supervision.
10. Never run the engine in closed area .the exhaust gas contains poisonous carbon monoxide gas (CO)
11. Don't touch any part id the engine and muffler during and ever after riding, because it is very hot.

PROTECTIVE THINGS

1. Most DIRT BIKE accident fatalities are due to head injuries. ALWAYS wear a helmet .You should also wear a face shield and protective clothing.
2. The exhaust system becomes hot during riding, and it remains hot for a while after stopping the engine .Be careful not to touch the exhaust system while it is hot. Wear clothing that fully covers your legs.
3. Do not wear loose clothing that could catch on the control levers, kick-starter, footrests or wheels.

REFITTING

WARNING

Refitting of the DIRT BIKE, or removal of original parts, may make the vehicle unsafe or illegal. Obey all national and local equipment regulation.

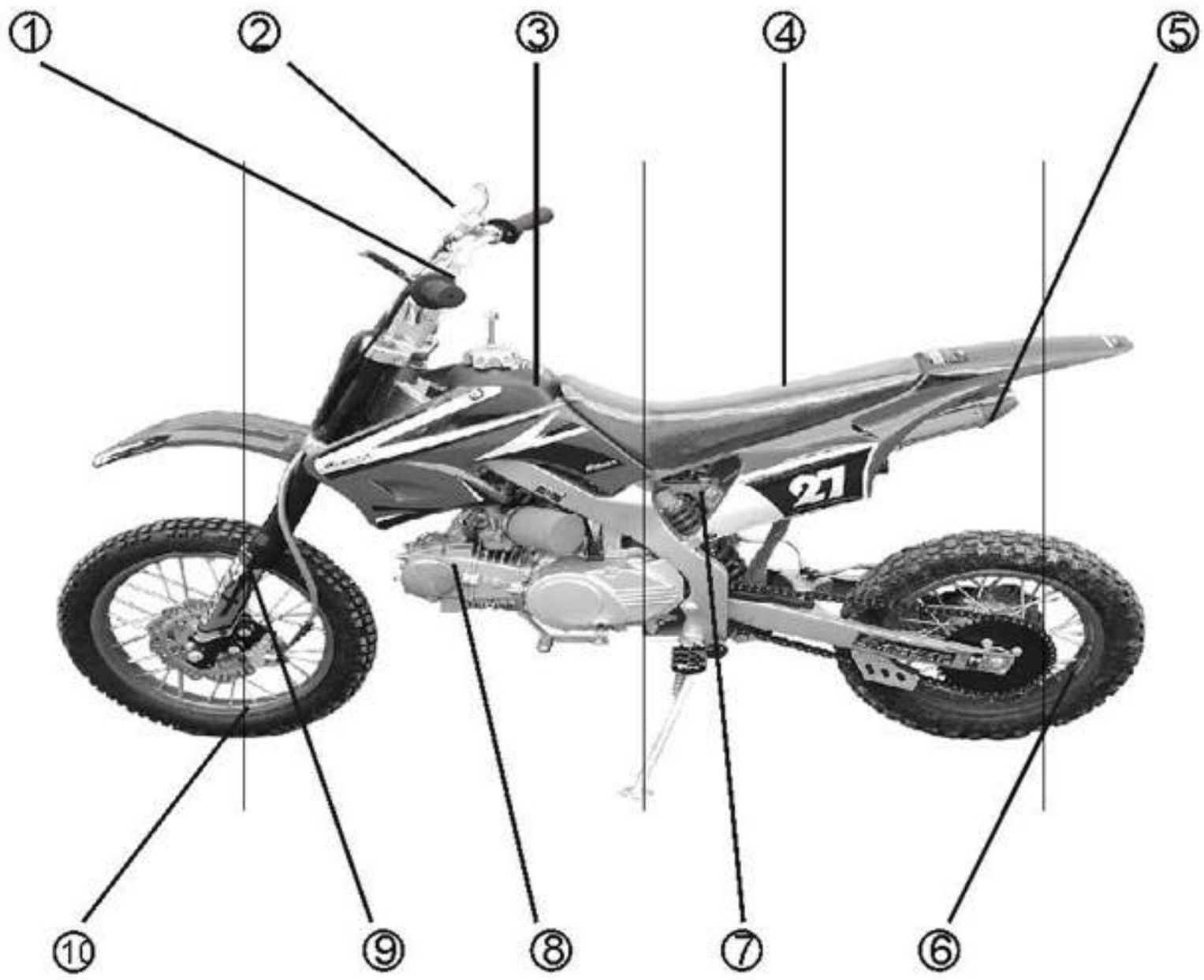
ACCESSORIES

Genuine accessories by our Co. have been specifically designed and tested on the DIRT BIKE. Because our Co won't test and accessories manufactured by other company/factory, you are personally responsible for selection, installation, and use of them. Always follow the guidelines below:

1. Carefully inspect the accessory to make sure that it does not obscure any lights, reduce ground clearance and banking angel, or limit suspension travel, steering travel or control operation.
2. Accessories may increase the time that hands or feet operate controls, resulting in increased reaction time in an emergency.
3. Do not add electrical equipment that will exceed the vehicle's electrical system capacity.
4. Do not add any device cooling the engine.

DESCRIPION

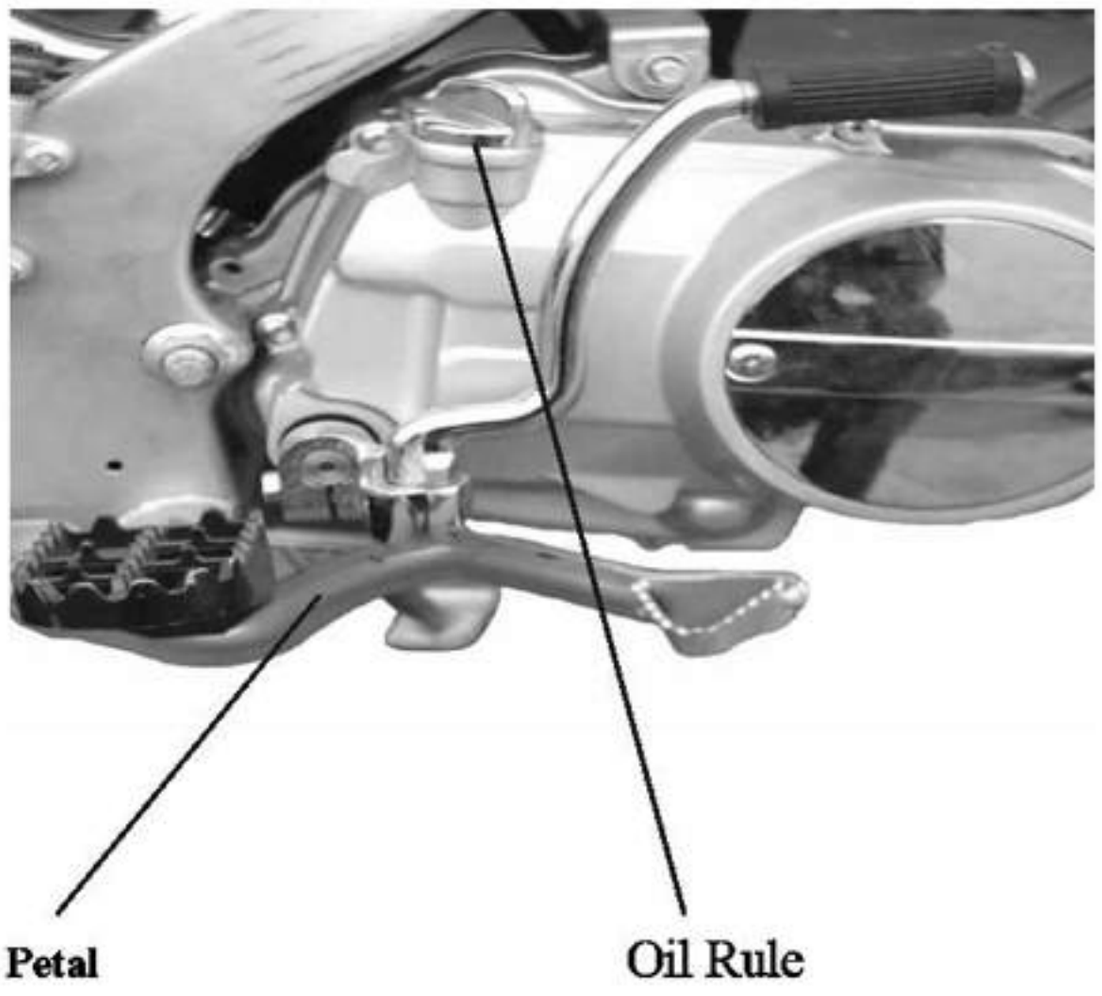
PARTS LOCATION (FIG. 1)



① Handlebar control ② Front Brake Lever ③ Fuel tank ④ Seat ⑤ Exhaust Muffler ⑥ Rear wheel ⑦Rear shocker ⑧Engine

⑨ Froht skoc ⑩ Front wheel

FIG. 2



IGNITION SWITCH

The ignition switch is situated on the front-right of the vehicle body.

“”(OFF) and “”(ON) on the switch indicate:

(OFF): Engine cannot be operated and the key can be removed.

(ON): Engine can be operated and the key cannot be removed.

LEFT HANDLEBAR CONTROLS

Emergency Switch

In normal, the switch is set in front position; to stop the engine, set the switch to rear.

FUEL AND FUEL TANK

Fuel Selection

Fuel is a key factor in deciding the exhaust emissions amount form the engine, so selection of fuel must follow the rules below.

Selected fuel must be unleaded or low –leaded gasoline with octane No. RQ-93 or higher.

Fuel tank

The fuel tank capacity is 3.5L.

WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well ventilated area with the engine stopped .Do not smoke or allow flames or sparks in the area where gasoline is stored or where the fuel tank is refueled.

Before refueling, make sure to filter fuel first.

Do not overfill the tank (there should be no fuel in the filler neck).After refueling ,make sure the fuel tank cap is closed securely .

Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite .If any fuel is spilled; make sure the area is dry before starting the engine.

Avoid repeated or prolonged contact with skin or breathing of vapor.

KEEP OUT OF REACH OF CHILDREN.

ENGINE OIL

The quality of the engine oil plays a vital role in deciding the engine performance and service life. Engine oil must be selected in accordance with the rules below and other oils, such as ordinary machine oil, gear oil and vegetable oil, are forbidden to be used.

Engine oil recommended: gasoline engine oil Class: SAE15W/40 or Class SE, SF, SC form API Services Classification.

The vehicle has been filled with the engine oil Class SAE15W/40-SE class before being been delivered ,and the lubricant is only suitable at a temperature range 40° C ~ 10° C .If other motor oil is to be used instead, the alternative must be technically equivalent in every respect. Viscosity varies with regions and temperatures, so the lubricant has to be selected according to our recommendation.

Before replacing the lubricant, please drain the oil out completely remaining in the crankcase, and clean the inside by cleansing kerosene, then fill new one instead.

CAUTION

Running the engine with insufficient oil can cause serious damage to engine.

TYRES

Proper air pressure will provide maximum stability ,riding comfort and tyre life .

Cleck tyre pressure frequently and adjust if necessary.

Select the right replacement tyres in accordance with the specifications shown in the table 1.

Table 1 For DIRT BIKE

STANDARD OF CLOD TYRE PRESSURE		
Pressure (kPa)	Front: 200	Rear: 225

Tyre size	Front: 2.50-14	Rear: 3.00-12

NOTE

Tyre pressure should be check before you ride while the tyres are "cold "Chock the tyres for cuts, embedded nails, or other sharp objects. Check the rims for dents or deformation .See your dealer for change of damaged tyres or punctured inner tubes.

WARNING

Do not attempt to patch a damaged tyre or inner tube, otherwise wheel balance and tyre reliability may be impaired.

Improper tyre inflation will cause abnormal tread wear and create a safety hazard .The tyre pressure less than the rated value may result in the tyre slipping on the ground, or coming off form the rim, even the vehicle being out of control.

Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.

The use of tyres other than those listed on the table 1 may adversely affect handling.

When the tread depth in the middle section of tyres reaches the limits in table 2 below, please replace tyres .

Table 2

Tread depth limits	
Front tyre : 2.0mm	Rear tyre : 2.0mm

OPERATION GUIDE

PRE-RIDE INSPECTION

WARNING

If the pre-ride Inspection is not performed, severe injury to personnel or damage to equipment may occur .

Inspect your DIRT BIKE every day before you ride it .The items listed here will only take a few minutes to inspect, and in the long run they can

save time, expense, and possibly your life.

1. Engine oil level-add engine oil if required. Check for leaks.
2. Fuel level-fill fuel tank when necessary. Check for leaks.
3. Front and rear brakes-check operation and if necessary, adjust free play.
4. Tyres-check condition and pressure.
5. Throttle operation-check for smooth opening and full closing in all steering positions; check for throttle grip free play and throttle cable in lubricating and connecting.
6. Fastener-check that all nuts, screws and bolts are fixed securely.
7. Steering system-check for its smoothness and reliability.

Correct any discrepancy before you ride. Contact your dealer for assistance if you cannot correct the problem.

STARTING THE ENGINE

Always follow the proper starting procedure described below.

WARNING

Never run the engine in an enclosed area .The exhaust emissions contain poisonous carbon monoxide (CO) gas that can cause loss of consciousness and lead to death.

Starting procedure by the starter button

1. Place the vehicle on a level ground and lock the rear brake by depressing down the parking button.
2. Insert the ignition key into the ignition switch and turn to ON.
3. Set the emergency switch to "on ".

4. When starting and warming up the engine be sure to maintain the throttle slightly open .

5. Before riding the vehicle make sure that the engine is well warmed up .

CAUTION

Opening or closing the throttle fully and rapidly may make the vehicle's sudden moving forwards, resulting in it out of control.

Starting procedure by the kick-starter

1. Do as 1~2steps under "Starting procedure by the starter button ".

2. The throttle being slightly open tread down the kick-starter in a rapid and continuous way .

3. Do as 5~6 steps under "Starting procedure by the starter button ".

BREAKING-IN

Help assure your vehicle's future reliability and performance by paying extra attention to how you ride during the first two-week riding.

During this period, avoid full-throttle riding and loading the engine heavily; be sure to keep changing speed.

NOTE

After the breaking-in period, be sure to conduct maintenance according to the maintenance schedule so as to keep the vehicle in a sound condition, which will extend the service life of the engine obviously.

RIDING

WARNING

1. After the engine has been warmed up, the vehicle is ready for riding.

2. End braking state of the vehicle.

CAUTION

Riding with only one hand may cause the vehicle out of control.

3. Open the throttle gradually so the vehicle moves forward.

4. To speed down the vehicle reduce the throttle while carry out braking .

Coordinate the throttle with brakes for smooth deceleration.

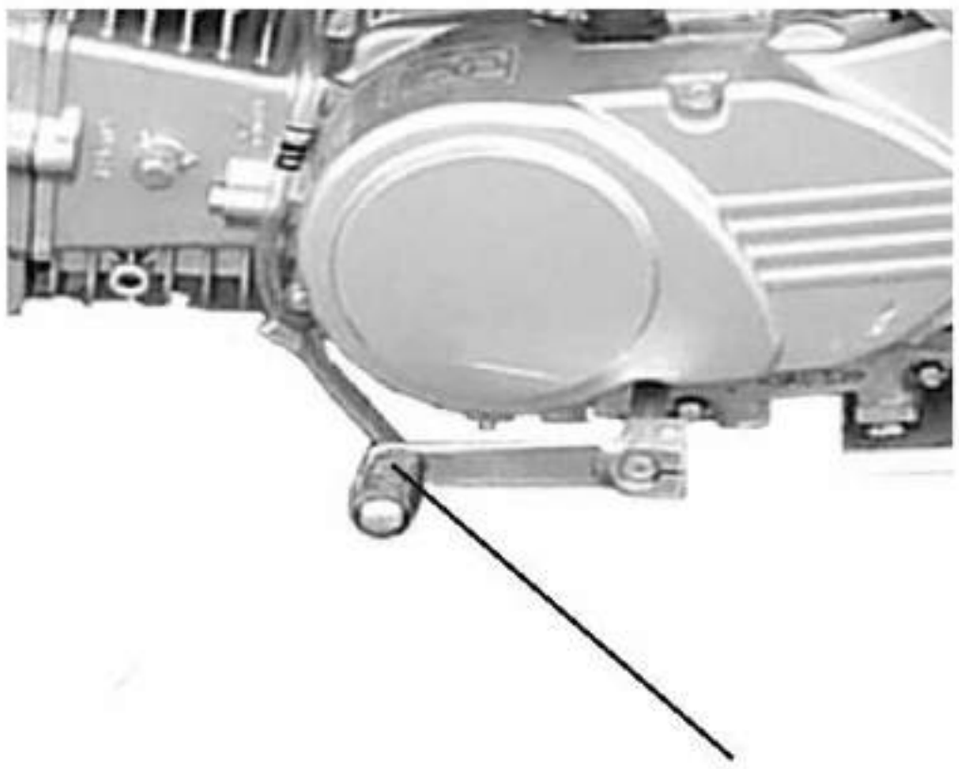
Front brake lever

Note

Both the front and rear brakes should be used at the same time and should not be applied strongly enough to lock the wheel, or braking effectiveness will be reduced and control of the vehicle be difficult.

GEAR SHIFTING

Gearshift mode: see FIG 3



Declutch shift lever

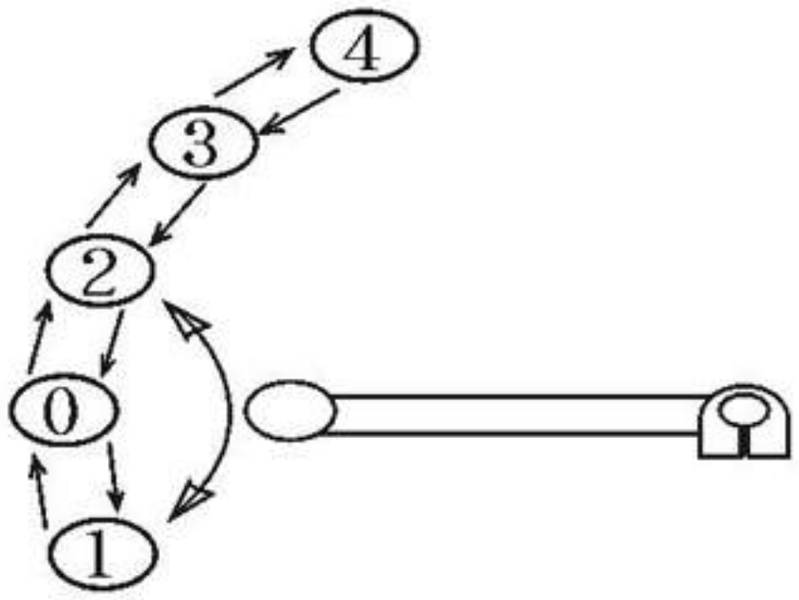


FIG 3

NOTES

Before gear shifting up or down, be sure to decrease the throttle first.

Operate the gearshift pedal slightly and exactly.

PARKING

1. Close the throttle while apply the brakes to speed down the vehicle until it stops.
2. Turn the ignition key to (OFF), and remove the key once the engine stops.
3. Depress down the paring button at the left handlebar.

MAINTENANCE

The maintenance schedule specifies how often you should have your DIRT BIKE served, and what things need attention .It is essential that your DIRT BIKE be served as scheduled to retain its high level of safety, dependability, and emission control performance.

MAINTENANCE SCHEDULE

The following maintenance schedule specifies all maintenance required under normal conditions to keep your vehicle in sound condition. Riding under unusually dusty or wet conditions, service of the vehicle should be made more often than the specified in the schedule. Maintenance work should be performed by properly trained and equipped technicians.

I : INSPECT AND CLEAN ,ADJUST ,LUBRICATE OR REPLACE IF NECESSARY

C : CLEAN L: LUBRICATE

MAINTENANCE SCHEDULE

INTERVAL / ITEN	First week	Every 30-day's ride	Every year
Fuel system	I		
Operation of throttle		I	
Air cleaner		C	
Spark plug		I	
Idle speed of carburetor	I	I	

Drive chain	I&L	I&L	
Brake shoe wear			I
Brake system	I	I	
Nuts , bolts and fasteners	I	I	
Wheel	I	I	I
Steering system			I
Suspension system		I	I

CHECK AND SHANGE OF ENGINE OIL

Check the engine oil level (SEE FIG2)

Check the engine oil level each day before riding the vehicle .

The level must be maintained between the upper and lower level marks on the dipstick .

1. start the engine and let it idle for a few minutes .
2. Stop the engine and put the vehicle on a level ground .
3. After a few minutes , remove the oil rule cap/dipstick ,wipe it clean ,and reinsert the dipsrick without screwing it in ,remove the dipstick .the oil level should be between the upper and lower level marks on the dipstick .

Change of engine oil

The engine oil quality is chief factor affecting the engine service life. Change the engine oil as maintenance schedule.

1. Drain out the engine oil in the crankcase completely.
2. Clean the crankcase inside with cleansing kerosene.
3. Add specified engine oil about 0.91L

CAUTION

Running the engine with insufficient oil can cause serious damage to the engine.

NOTES

When running in very dusty conditions, oil change should be performed more frequently than specified in the maintenance schedule.

Please dispose of used engine oil in a manner that is compatible with the environment .We suggest you take it a sealed container to your local recycling center or service station for reclamation .Do not throe it in the rubbish or pour it on the ground or down a drain.

SPARK PLUG

Selection: Plug recommended: A7TC

Check and Replace

1. Disconnect the spark plug cap from the spark plug .
2. clean any dirt from around the spark plug base .Remove the spark plug using plug wrench containing in the tool kit .
3. Inspect the electrodes and center porcelain for deposits, erosion or carbon fouling .If the erosion or deposit is heavy, replace the plug. Clean a carbon or wet-fouled plug with a plug cleaner, or use a wire brush.
4. Check the spark plug gap using a wire-type feeler gauge .If adjustment is necessary, bend the side electrode carefully, The spark plug gap should be 0.5~0.7mm.

Make sure the plug washer is in good condition.

5. With the plug washer attached, thread the spark plug in by hand first to prevent cross threading, and then tighten up it by the spark plug wrench.
6. Reinstall the spark plug cap.

CAUTION

The spark plug must be securely tightened .An improperly tightened plug can become very hot and possibly damage the engine.

Never use a spark plug with an improper heat range, or severe damage to engine could happen.

CLEAR AWAY CARBON DEPOSIT

Clear away carbon deposit around the spark plug and piston ring, on the piston top, in the piston ring slot and combustion chamber regularly.

CHECK AND ADJUSTMENT OF VALVE CLEARANCE

Excessive valve clearance will cause noise and eventual engine damage. Little or no clearance will prevent the valve from closing and cause the damage to valve and loss of power. Check valve clearance when the engine is cold at the specified intervals.

NOTE

The checking or adjusting of the clearance should be performed while the engine is cold .The clearance will change as the engine temperature rises.

1. Remove the center hole cap from the left case cover of engine and the view hole cap from the top portion.
2. Take two valve covers out of the cylinder.
3. By using T spanner, rotate the generator flywheel clockwise until the T mark on the flywheel lines up with the index mark on the view hole .In this case, the piston may either be on the compression or exhaust stroke.

The adjustment must be made when the piston is at the TDC (top dead center) of the compression stroke, and both the intake and exhaust valves are closed.

This condition can be determined by moving the rocker arms .If they are free, it is an indication that the valves are closed and that the piston is on the compression stroke .If they are tight and the valves are open, rotate the flywheel 360 and realign the T mark to the index mark.

Check the clearance of both valves by inserting a feeler gauge between the adjusting screw and the valve stem.

Clearance should be 0.05mm for intake and exhaust valves

If it is necessary to make an adjustment, loosen the lock nut and turn the adjusting screw so there is a slight resistance when the feeler gauge is inserted.

After completing the adjustment, tighten the lock nut while holding the adjusting screw to prevent it from turning. Finally, recheck the clearance to make sure that the adjustment has not been disturbed.

AIR CLEANER

The air cleaner should be serviced at least once every 30-day's drive. Service more frequently when riding in unusually wet or dusty areas .See your dealer for further information.

1. Remove the air cleaner from the frame.
2. Disassemble it and take out filter element.
3. Wash the filter element in clean, nonflammable or high flash point solvent and let it dry.

WARNING

Never use gasoline or low flash point solvents for cleaning the filter element, otherwise, a fire or explosion could result.

4. Soak it in gasoline engine oil Class 15W/40QE until saturated, and then squeeze out the excess oil.
5. Clean the inside and outside of the air cleaner housing.
6. Install the removed parts in the reverse order of removal.

CAUTION

It is forbidden to start the engine without the air cleaner core or premature wear of the piston and cylinder may produce.

Make sure the air cleaner core is intact.

Prevent the air cleaner core from getting water when the vehicle.

CLECK LEAKS ALONG AIR SUPPLY LINE

Check leaks regularly along air supply line, and repair or replace related parts once there are some to assure a normal air supply.

THROTTLE OPERATION

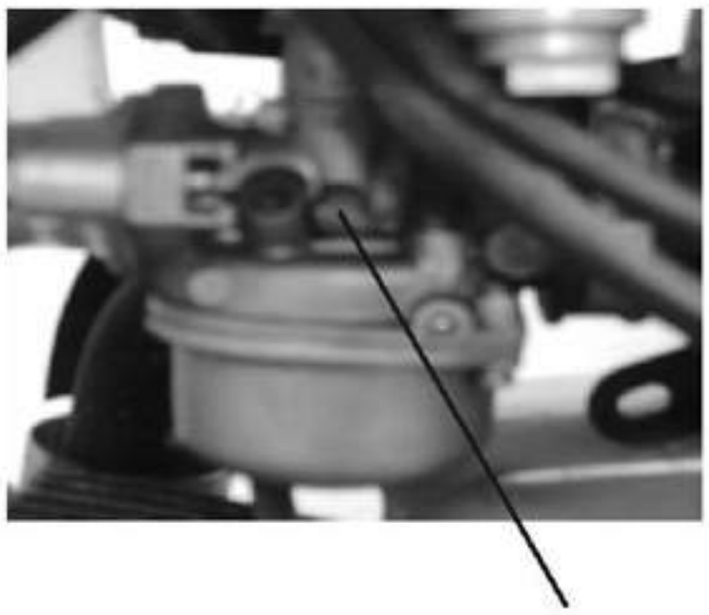
1. Check for smooth rotation of the throttle lever from the fully open to the fully close position at both full steering positions.
2. Measure the throttle lever free play at the throttle lever flange.

   The standard free play should be within 2~6mm

   To adjust the free play, loosen the lock nut and turn the adjuster.

IDLE SPEED

FIG.4



Idle speed adjustment screw

The engine must be at normal operating temperature for accurate idle speed adjustment.

NOTE

Do not attempt to compensate for faults in other systems by adjusting idle speed .See your dealer for regularly carburetor adjustments.

1. Warm up the engine.
2. Connect a tachometer to the engine (a remote-controlled one can be used).

   Turn the throttle stop screw clockwise (in the direction of the arrowhead A)will increase idle speed while will decrease it turning counterclockwise (in the direction of the arrowhead B).
3. When the engine has no idle speed or runs at a decreased speed, set the throttle stop screw in the middle between the two limit positions to help mix air and fuel.
4. Run the engine again; readjust the throttle stop screw if necessary.

CAUTION

Since the carburetor is a precision apparatus, don't disassemble it without the professional knowledge.

WARNING

The balance pipe of carburetor should be often check to make sure there is no other impurity inside it, otherwise, an accident may occur.

INSPECTION OF FRONT SISPENSION

1. Check the front fork assemble by locking the front brake and pumping the fork up and down vigorously. Suspension action should be smooth.
2. check the front shock absorber for oil leaks and deformation .
3. Carefully inspect front suspension fasteners for tightness.

CAUTION

Before checking, support the vehicle firmly to prevent it from falling over.

Should defect be detected on the front fork, replace or repair it.

FRONT HYDRAULIC DISC BRAKE

1. Measure the distance the front brake level moves before the brake starts to engine.

   The free play of the rear brake level should be 5~10mm.
2. If adjustments are necessary, turn the front brake-adjusting nut.
3. Apply the brake several times and check for free wheel rotation after the brake level is released.

REAR HYDRAULIC DISC BRAKE

1. Measure the distance the rear petal moves before the brake starts to engine.

   The free play of the rear petal should be 10~15mm.
2. If adjustments are necessary, turn the rear brake-adjusting nut.
3. Apply the brake several times and check for free wheel rotation after the brake level is released.

NOTES

Mark sure the curved slot in the adjusting nut is corresponding with the brake arm pin after marking final free play adjustment.

If such adjustment is still unsatisfactory, see your dealer for help.

EXHAUST MUFFLER

Clear away regularly carbon deposit in the exhaust pipe; check the exhaust pipe inside for crack and washer damage, and repair or replace if necessary.

TROUBLESHOOTING

If the vehicle has some troubles, see your dealer for help.

CAUTION

Do not dismantle or maintain the vehicle without the professional knowledge.

CLEANING

Clean your vehicle regularly to protect the surface finishes and inspect for damage, wear, and oil or brake fluid leakage.

CAUTION

High-pressure water (or air) can damage certain parts of the vehicle.

Avoid spraying high-pressure water at the following areas: Wheel Hubs; Ignition Switch; Carburetor; Handlebar Controls; Muffler outlets; Under Fuel Tank; Drive Chain; Under Seat.

1. Wash the vehicle completely with a great deal of water.
2. Dry up the vehicle, start the engine, and let it run for several minutes.

WARNING

Braking efficiency may temporarily impair just after washing the vehicle. Anticipate longer stopping distance to avoid a possible accident.

3. Test the brakes before riding the vehicle. Several applications may be necessary to restore normal braking performance.
4. Lubricate the drive chain immediately after washing and drying the DIRT BIKE.

STORAGE GUIDE

Some measures should be taken the vehicle is subjected to a long-term storage so as to reduce the bad influence on its performance. Before the storage, make necessary maintenance to ensure the vehicle high performance after-storage.

Storage

1. Clean and dry up the vehicle and wax its surface.
2. Empty the fuel from the fuel tank and carburetor, spray some antirust.

WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area with the engine stopped .Do not smoke or allow flames or sparks in the area where gasoline is drained or stored and where the fuel tank is refueled.

3. Drive off the spark plug to fill a little of engine oil (about 15~20millilitre) into the cylinder, turn off the ignition switch and tread the kick-starter several times to scatter evenly the oil inside the cylinder, and then reinstall the spark plug.
4. Clean and oil the drive chain.
5. Lubricate all the cables.

REMOVAL FROM STORAGE

1. Take off the cover shielding the vehicle and clean it.
2. Charge the battery as required. Install the battery.
3. Clean away the antirust inside the fuel tank, and fill fresh gasoline instead.
4. Perform all Pre-ride Inspection checks .Try the vehicle at low speeds in a safe riding area away from traffic.