

OPERATIONAL INSTRUCTION

PREFACE

This handbook introduces this motorcycle basic operation and maintenance method ,before driving ,carefully read this handbook .please. exactly using ,protection and maintenance which could effectively guarantee driving security, reducing the failure of motorcycles and keeping its best performance and extending its using life.. our company establishing all over the nation maintenance stations that are our pleasure to provide you for much more technical consults and after selling service.

This brochure showing figures ,explanation and specifications which depend upon present-day the latest designing and we readily have any revising right, and so our company will not notify any changing specially.

Appreciate you selecting our motorcycle, May you in future long-traveling that it would have enjoyed its bringing your comfort and pleasure . if this manual is different from practice ,please as practical standard

IMPORTANT BULLETIN

DRIVERS AND PASSENGERS

This type of motorcycle makes use of carrying driver and one passenger. Whose maximum loading weight is 150kg .rear luggage carrier no permitting exceeding 5kg.

DRIVING ROAD SURFACE

This motorcycle just makes use of driving on the highway

CAREFULLY READ THIS HANDBOOK ABOUT CUSTOMERS

Especially take note of quoting contents as follows:

DANGER: if anybody does not obey this explain, it will cause serious casualty accidents

WARNING: if anybody does not obey this explain ,it will lead casualty injury and device damages

REMARKS: OFFERING HELPFUL INFORMATION

This manual forms a integral part of the motorcycle ,transferring with attached this manual.

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NOTES : driving motorcycle must take note of traffic security .no checking motorcycle until drive this vehicle .

SAFE DRIVING RULES

- After starting must check the motorcycles take note of checking fixing parts ,connecting parts and adjusting parts and make sure its normal statement so that could stop accidents happening and avoid parts and machines damaging
- Motorcycle drivers must past communication management department examination and gain driving license till driving .no allowing to borrow the motorcycle to have no license personal driving
- For avoiding other motor vehicles causing your impairing, .driving try to make a good show,
- SO PLEASE ATTENTION
- Wearing bright clothes
- Do not near close to other motor vehicles too much, exactly use motorcycle lamps ,horn etc signal device.
- No pull ahead
- Strictly obey all over the nation traffic regulations
- Over-speed driving gives rise to the cause of many accidents ,and so driving speed can not exceed permission scope
- When turning to corner or diversion should turn on winker so that bring to other drivers attention
- Taking special care of driving on the crossroad ,park in and out exit
- Driving should get hold of the steering-bar with hands, treading on the footrest comp and following passenger should do so

PROTECTIVE DEVICE

- To guarantee your security during ,you should wear a helmet ,dust glasses and face shield and gloves etc
- During driving ,the exhaust muffler of motorcycle has a higher temperature for avoiding contacting iron wound ,passengers should wear boots or covering leg dress
- No wearing relax dresses which may hook operation lever, start arm and footrest and wheels

VEHICLE'S CHANGING APPEARANCE

REMARKS: freely alter motorcycles or changing original devices , which can not guarantee motorcycles driving security, is illegal.

The user must obey communication management department for using vehicles instructions

For vehicle's alteration has a good proposal, which can send away from our company ,but we do not agree on this suggestion until you can alter this vehicle, otherwise you have brought all results on yourself

GOODS LOADING

REMARKS: loading quality itemizing has certain demands, goods loading will not affect vehicle's performance and stability

- The gravitation core of goods should lie low place alongside close to the core of the vehicle. Loading weight is split in two sides which tries to keep balance. When the gravitation core is farther away , the vehicle's gravitation core, which will have an effect on the vehicle's operation
- In the light of the circumstances of loading weight and driving and then properly adjust the air pressure of tyres and front shock absorber and rear shock absorber spring
- All goods must fix stoutly on the vehicle for guaranteeing the operation stability
- No attaching bulk and over-weight items on the steering- bar and front fork and fenders ,otherwise will cause driving unevenly or steering react slowly
- No over-loading (max loading 150kg)

ACCESSORIES:

- Our producing accessories went through special designing and passed testing on the motor-cycles .being it is impossible for us to test all other factories products ,to no our products components selecting , resettling and using which you will allow for yourself . please you comply with "safe driving regulations" and obey the following several points:
- Carefully check components , no hindering sight , lessening clearance and side leaning angle , limiting suspense rack and steering structure shifting and limiting controlling operation
- No resettling generator cooling device
- No adding electrical equipment , if do so , which will make your motorcycle electrical volume over-loading , fusing, during driving overnight will give rise to lamps no flashing danger.

LOCATIONS OF PARTS (FIG. 1-4)

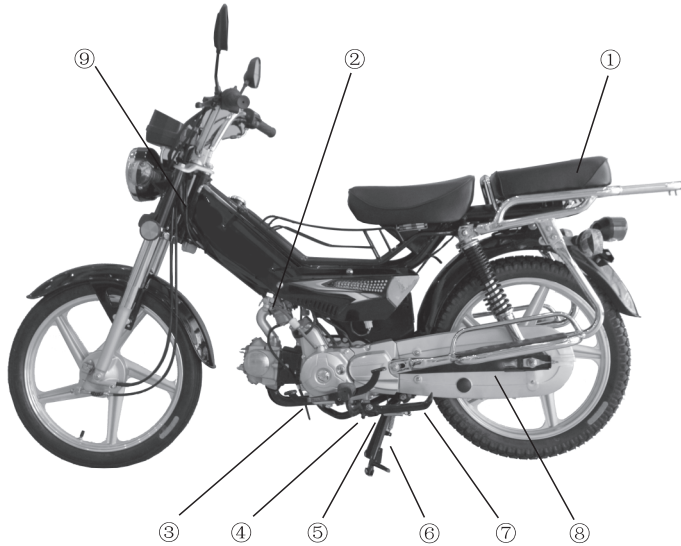


Fig.1

1.seat lock 2. switch 3. transmission 4.footrests 5. main stand
6. side stand 7. rear step 8. engine type & code 9. label of stand



Fig.2

1.rear step 2. start arm 3. footrests
4. rear brake pedal 5. VIN 6. middle carrier

LOCATIONS OF PARTS

1. switches, headlight
2. meter
3. switches, head light
4. handlebar, front brake
5. bolt, left
6. ignition switch & steering lock
7. button, horn
8. switch, winker
9. bolt, right

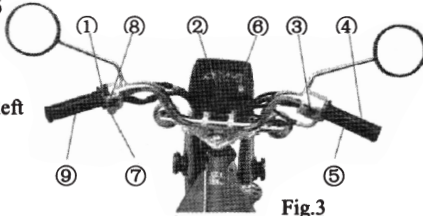


Fig.3

Item	Name	Remark
1	Speedometer	Unit: k/m
2	Indicator, neutral	It is bright when it is neutral
3	Indicator, winker	On left, left light is bright On right, right light is bright
4	tachometer	Rotation speed of engine
5	Gear show	Blank gear

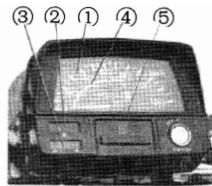


Fig.4

VIN (FIG. 5-7)

RECORD OF CODE

Code of engine ☆ ☆

VIN ☆ ☆

Please record codes of engine and motorcycle to help you buy spare parts or inquiring if the motorcycle is stolen.

POSITION OF CODES

1. VIN is on the left side of steering pipe. (fig. 5)
2. type and code of engine are on the under left of camshaft box. (fig. 6)
3. name plate of stand is on the right side of steering pipe. (fig. 7)



Fig.5

1. VIN

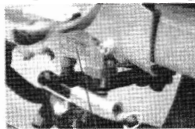


Fig.6

2. type & code of engine



Fig.7

3. name plate of stand

FUNCTION OF PARTS

IGNITION LOCK

1.IGNITION LOCK (FIG. 8)

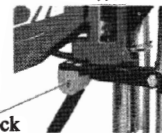
position	function	remark
“⊗”OFF	circuit is off.; engine can't start	key can be pulled out
“○”ON	circuit is on.; engine can start	key can't be pulled out
Steering lock (fig. 9)	to lock the steering bar	key can be pulled out

“⊗”OFF “○”ON



Ignition lock

Fig.8



Steering lock

Fig.9



“○”ON

Fig.10



“⊗”OFF

Fig.11

FUEL COCK (FIG. 10-11)

FILL FUEL

volume of the tank is 2.8L (including 0.5L reserve oil). Fill fuel after opening the lock cover of oil tank. Direction of △ cover and △ oil tank should be coherent.

SELECTION OF FUEL OIL

Fuel oil plays very important role in exhausting. The selection of it must obey relative regulations.

The types fuel oil should be leadless or low lead RQ-90 upper or RQ-90 gasoline. **CAUTION:** The fuel tank should not be overfilled (never fill the fuel above the tank inlet). Close the cap to the bottom after filling.

Flammable gasoline is easy to explode and burn under certain conditions. Don't open the cap when the engine works. Fill the fuel oil in ventilated position. No smoking & No flammable goods when filling.

Filter the fuel oil before filling.

IGNITION LOCK (FIG. 10-11)

“○”ON: ignition lock directs “○”ON means the circuit is on, the engine can start.
“⊗”OFF: ignition lock directs “⊗”OFF means the circuit is off, the engine can't start.

RIGHT SWITCH COMP. (FIG. 12)

1. HEAD LIGHT SWITCHES

head light switches have three positions.

- ① ☀ headlight, taillight and meter lights are bright.
- ② ☂ position lamp, taillight and meter lights are bright.
- ③ ● headlight, taillight, position lamp and meter lights are off.

2. KICK/ELECTRIC STARTER

3. ELECTRIC STARTER SWITCH

Electric starter switch “☂” is under the head light switch. When it is under braking condition, press down the switch, the engine can be started. It is not safe to start the engine using the electric starter switch not under braking condition.

LEFT SWITCH COMP. (FIG. 13)

1. BEAM SWITCH

- ① when the beam switch is at “☐” position, the low beam lights are turned on.
- ② when the beam switch is at “☑” position, the high beam light is lit.

2. TURN SIGNAL LAMP SWITCH

- ① when the switch is set to “←” position, the left turn signal lamp start to flash.
when the switch is set to “→” position, the right turn signal lamp start to flash.

3. HORN BUTTON

Press the button to operate the horn “☑”.

INSPECTION BEFORE DRIVING

Make sure to check the motorcycle before driving. It takes you only a few minutes but can save your time to repair in the journey and ensure your safe driving.

1. Check the level of engine oil— if necessary fill lubricating oil and check the leakage.
2. Check the level of fuel oil— if necessary, fill fuel oil and check the leakage.
3. Check the brakes— check by operation. If necessary, adjust the free stroke.
4. Check the tyres— check the conditions and pressure, abrasion, damage of the front and rear tyres.
5. Check the battery solution— Check the level of the solution. If necessary, fill it.

head light switches



Electric starter switch

Fig.12

beam switch

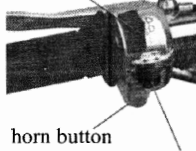


Fig.13

horn button

turn signal lamp switch

6. Check the throttle— Check the rotation of the throttle boot, the joint of cable and the condition of grip. If necessary, adjust and replace it.
7. Check the horn and lighting and signals— Check if they are in a good condition such as the headlight, taillight, wipers, indicators and horn.
8. Check the driving chain— Check the condition and tension of driving chain, if necessary, adjust or lubricate it. Replace it if worn seriously.
9. Check the brakes by operation and check if the bolts and nuts work well.
10. Check the steering— Check the smoothness and stability of operation.

STARTING THE ENGINE

1. Turn the ignition key to the ON position.
2. The neutral indicator will light when the transmission is at neutral position “N”.
3. Check the quantity of the fuel.
4. Set the fuel cock lever at the ON position.

STARTING WHEN ENGINE IS COLD

1. Push the choke lever all the way to close the choke completely. (Fig. 23)
2. Twist the throttle boot to the position of 1/8—1/4 of a circle.
3. Start the engine by electric or kick starter.
4. Open the throttle slightly and accelerate the engine to make it hot.
5. Open the choke completely after it is completely hot.

WARNING

1. Be sure that it is at the neutral position when start.
2. Never start the engine by electric and by kick starter at the meantime.
3. If the engine can't be started in five seconds by pushing the ignition switch, please restart it ten seconds later.
4. Please start engine by kick starter, if the electric ignition fails.
5. It is unnecessary to rotate the engine at neutral position for a long time (especially at high rotation speed), it is harmful to the engine.

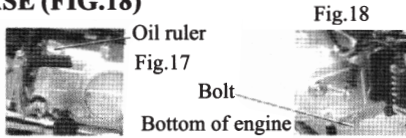
THE WAY TO TURN ENGINE OFF

1. Twist loose the throttle boot.
2. Turn to the “☒” neutral position, turn the fuel lever at “☒” OFF position.
3. Turn ignition switch at “●” OFF position.

CLEAN THE CRANKCASE (FIG.18)

- 1)Release the engine oil off.
- 2)Depart the parts.
- 3)Clean the parts.
- 4)Pour in the specified engine oil

WARNING: The cleaning should be done in the service station.



CLEAN UP THE ACCUMULATED CARBON (FIG.19)

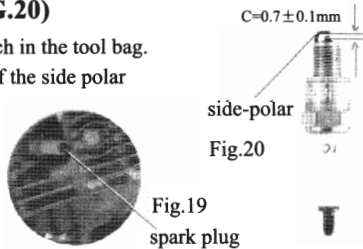
Please clean the accumulated carbon regularly around the root of the piston.

CHECK SPARK PLUG (FIG.20)

- 1)Remove the cap of spark plug wrench in the tool bag.
- 2)Check if the polar are damaged, or if the side polar burn out. Replace it when damaged.
- 3)Check and adjust the plug gap to keep it between 0.6mm—0.8mm.

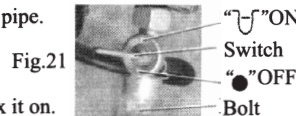
OPTION OF THE SPARK PLUG

Style recommended: NGK: C6HSA
ND:U22FS—U, 1137 or 1136.



CLEAN THE FUEL FILTER ASS. AND THE FILTER (FIG.21)

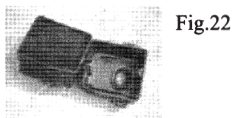
- 1)Depart the fuel filter ass. and shut off the oil pipe.
- 2)Clean the parts and fix them on.
- 3)Check if there is a leakage.
- 4)Remove the bolt and clean the filter. Then fix it on.



CHECK AND WASH THE AIR CLEANER (FIG.22—FIG.23)

The air cleaner should be washed and immersed in oil at least once every 4,000kms.

- 1)Wash and dry up the air cleaner.
- 2)Immerse the cotter in the clean 15W/40 SE grade engine oil. Reinstall all the parts removed.



CAUTION:

- 1)The cotter of air cleaner must be good, otherwise the dust will come into the engine and affect its function and service life.
- 2)Avoid water into the air cleaner or the balance pipe of carburetor.
- 3)Do not use the gasoline or other low burned temperature point oil to wash the cotter.
- 4)If driving under dusty conditions the air cleaner must be cleaned or replaced more frequently. We will help you determine the correct maintenance time according to your driving conditions.

Check leakage of gas pipe

Check the connecting joints of air way according to the relative regulations for the leakage, especially the joints between the muffler and engine. If there are some, please repair or replace relative parts in time.

ADJUST THE IDLE SPEED OF CARBURETOR(FIG.24)

Caution: The adjustment should be done when the engine is working.

- 1)Set the idle speed to 1,500+/-150 rpm.
- 2)Remove and adjust the screw to a higher level.
- 3)Adjust the screw to the stipulated level.

Twist the screw forward to A to add

Twist the screw forward to B to lessen.



ADJUST THE OPERATION OF THE THROTTLE CABLE (FIG. 25)

- 1)Check if the throttle cable bolt and nut work well.
- 2)The free stroke of revolution of the throttle boot is between 2mm—6mm. If it isn't in the scope, please adjust it.

Caution: After adjustment, please start the engine to check.

Check and adjust the clearance of valves

It is necessary to check the valves frequently.

Check and adjust the clearance of valves when the engine is cold.

- 1)Remove the left side windshield.
- 2)Remove the middle hole cap and top cap of the left case cover.
- 3)Remove the caps of two valves.



- 4) Check the clearances of two valves standard: inlet:0.05mm, outlet:0.05mm
 5) Twist loose the watch nut and adjust the setting screw when the clearance is adjusted.
 Check the clearance again when twist tight the watch nut.

ADJUST THE CLUTCH

It should be performed after the engine stops working

- 1) loosen the lock nut before adjusting it
- 2) turn the clutch adjusting bolt ① clockwise to the bottom and then counterclockwise turn the clutch ② bolt 1/8 to 1/4 circle and then tighten the nut.

After adjusting the clutch well, start the engine to make sure the clutch works properly; if it does not work properly, readjust it.

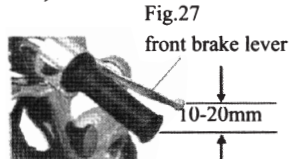
INSPECTION OF BRAKES (FIG. 26)

① inspectively hoist Fr/rear brake and check the grinding degree of the brake shoe, if the cover of the brake drum marking symbol aims at the arrow head of the emblem of brake cam indicating the shoe emblem of the brake comes to the grinding limitation. Please grant changing.

② if in need of changing, please go to our company service station to change. You'd better select our products.

ADJUST THE FRONT BRAKE (FIG. 27)

- ① the free stroke of the front brake should be about 10—20mm.
 - ② turn the adjusting nut clockwise to decrease the clearance and counterclockwise to increase it.
- Caution: check the brakes after adjustment, the stop lamp should be turned on.

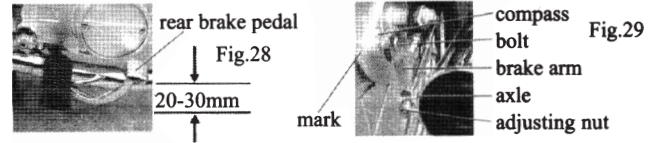


ADJUST THE REAR BRAKE (FIG. 28, FIG. 29)

When inspecting the brake, erect the center stand.

- ① the clearance of the rear brake pedal should be about 20-30mm.
- ② turn the adjusting nut clockwise to decrease the clearance and counterclockwise to increase it.

Caution: check the brakes after adjustment, the stop lamp should be turned on.



ADJUST THE CHAIN (FIG. 30, FIG. 31)

Check the abrasion, tightness and lubrication of the chain

- ① the tightness level of the chain should be 10-20mm.
- ② when adjusting, loosen nut of rear Axle and lock nut and adjust adjusting nut to make the tightness of the drive chain be within 10-20mm. Then fix the rear Axle nut and lock nut.
- ③ fill a little lubricating oil.
- ④ direction of the chain lock clip and chain should be on the contrary.

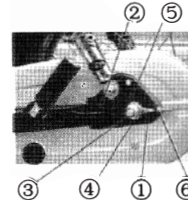


Fig.30

- ① mark of chain adjuster
- ② mark
- ③ nut of rear axle
- ④ nut
- ⑤ chain adjuster
- ⑥ adjusting nut

direction of rotation



Fig.31 chain clip

ADJUST THE STOP LAMP SWITCH (FIG. 32)

Adjust the nuts if the lamp is not lit after the pedal is stepped down.

If the lamp is not lit when the switch is on, check the circuits and stop lamp switch. Replace them if necessary.

Caution: after adjustment of the spring stop lamp switch, check if the free stroke of brake is within the regulated level.

Fig.32



MAINTENANCE AND REPLACEMENT OF THE MUFFLER

Clear away the accumulated carbon of the exhausting pipe according to relative regulations. Check the washer of the pipe. If there are some damage, please replace.

Caution: replace the washer of muffler when re-fix. The temperature of the muffler

and gas discharging is quite high, please pay attention to that.

INSPECTION AND MAINTENANCE OF THE BATTERY

- ① open right side cover
- ② clears the dust and corruptions on the cover
- ③ make sure the solution level be up to the standard level line. If lower than it, add ONLY distilled water.
- ④ Replace the wire when it is seriously corrupted.

Caution: when dismantling the battery, please dismantle the anode before cathode, while anode after cathode when mounting it. Please avoid the anode touching with motorcycle.

Level of distillation water shouldn't be higher than the up line. Otherwise it will overflow to create corruption. Add only distilled water and the tap water will shorten working life of the battery.

The battery is equipped with sulphuric acid which will damage skin or eye, in this case, you should clean with water for 5 minutes, and see a doctor.

Avoid impurity entering into the battery when dismantling and assembling.

Make sure the hose of battery is unblocked.

Put is away from children.

Caution: avoid washing rounds of battery when washing the car.

PROTECTOR (FIG. 34)

Feature: when motorcycle is over-loading ,limit power to protect the circuit. After trouble is solved, shut off power several seconds and it can work again automatically. Don't replace it. If trouble is not solved, protector will not work properly to protect circuit from damaging and be used thousands of times.

KIT TOOL (FIG. 35)

Kit tool can be used to repair, adjust and replace spare parts. Tools are listed as following:

- ① bag, tool
- ② driver
- ③ bar, driver
- ④ wrench, spark plug
- ⑤ spanner, 8mm × 10mm
- ⑥ spanner, 12mm × 14mm

Fig.33

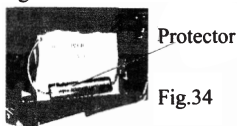
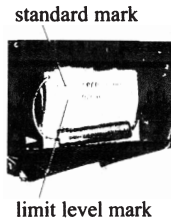


Fig.34

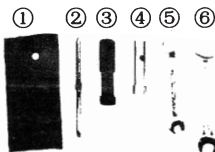


Fig.35

WASH THE MOTORCYCLE

washing the motorcycle regularly to avoid color fading and check leakage of oil and damage of the motorcycle.

Caution: don't spray directly to the following parts with great pressure water: wheels, muffler, oil tank, lower parts of seat, carburetor, balance pipe, lock, ignition switch and speedometer.

(1) wash the motorcycle with clear water after rinsing to remove dust and avoid rusting . plastic parts should be washed with netutral and then be washed with clear water.

(2) after the motorcycle dries, lubricate the chain.

(3) inspect the brake system before driving. If necessary, repair and adjust it.

MAINTENANCE DURING NOT DRIVING

If the motorcycle doesn't drive for a long time,

(1)replace lubricating oil

(2)lubricate chain

(3)discharge off the fuel oil in oil tank and carburetor. Close the ignition lock.

Caution: fuel oil is flammable. Stop engine before filling and discharging oil. It's forbidden to smoke in positions which have fuel oil.

(4)take out spark plug. Fill 15-20ml pure lubricating oil into cylinder block, then kick start arm and fix spark plug.

Before starting start arm, turn the key on position of OFF. Fix the spark plug on cap of it and be well grounded.

(5) take out battery at ventilated place. you'd better charge once a month.

(6) when cleaning motorcycles, spray color fix material on colored parts and anti-rust oil .

(7) fill air into tyres as regulations and erect the motorcycle with tyres not touching the ground.

(8) cover motorcycle with cover.

REUSE

(1)take the cover away ; clean the motorcycle; replace lubricating oil if it doesn't work over four months.

(2)charge battery

(3)discharge anti-rust fluid in oil tank and fill in enough fuel oil.

(4)Inspect before driving.

MAINTENANCE SCHEDULE

The motorcycle should be serviced before driving according to the regulated kilometers and period.

I: INSPECT W: WASH A: ADJUST L: LUBRICATE R: REPLACE

Note: do as the data in the chart when the data of the speedometer is over 6000 kilometers. It should be inspected more often in the wet and dusty conditions.

S/N	DRIVE DISTANCE ITEM	ODOMETER READING or PERIOD (Note 2)				
		500km	1,000km	4,000km	8,000km	12,000km
1	Fuel line system			I	I	I
2	Fuel filter gauze		C	C	C	C
3	Throttle operation system		I	I	I	I
4	Carburetor choke			I	I	I
5	Air cleaner	I		C	C	C
6	Spark plug			R	R	R
7	Valve gap	I	I	I	I	I
8	Engine oil	R	R		2000Km	
9	Engine oil filter gauze	C			C	
10	Brake system		I	I	I	I
11	Drive chain	I		1500Km		
12	Clutch	I	I	I	I	I
13	Head light			I	I	I
14	Brake device	I	I	I	I	I
15	Side stand		I	I	I	I
16	Head light adjusting light	I	I	I	I	I
17	Brake shoe	I	I	I	I	I
18	Brake light switch			I	I	I
19	Suspension	I	I	I	I	I
20	Nuts, bolts, fasteners		I	I	I	I
21	Wheels/tyre		I	I	I	I
22	Steering head bearing		I			I

EXAMINE AND REPAIR FREQUENTER TROUBLES

If the engine can't start, check the following:

(1)if fuel oil in the oil tank is enough

(2)if fuel oil can flow into carburetor from oil tank lock

(3)get oil supply pipe from carburetor and make oil tank lock to see if fuel oil can flow out

(4)if fuel oil can flow into carburetor, to check ignition system

Caution: don't let fuel oil flow on the ground. Let fuel oil away from engine with high temperature and gas discharging pipe. Be far away from any fire and hot things.

(1)Dismantle spark plug and connect it with high pressure wire.

(2)Fix the spark plug on the motorcycle. Turn ignition switch to position "ON", putting out switch is on position of , Press start button. If ignition system works in order, the two poles of the spark plug will emit the blue spark. If no spark, make it be repaired.

WARNING: No putting spark plug on the near cylinder cover for doing above inspection .

Owing to the fuel material of the cylinder may be made fire by spark and ignition In order to reduce electrocute possibility , the housing of the spark plug better tightly attach no painting metal parts of the vehicle's body . to avoid electrocuting and spawning destructions possibly . as long as have people with heart disease and wear heart adjusting frequency device , which should avoid doing the inspecting work

ENGINE POWERLESSNESS

(1)Inspecting the supply oil system of the fuel tank

(2)Inspecting the ignition timing of the ignition system

(3)Inspecting the engine's idle speed

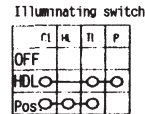
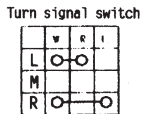
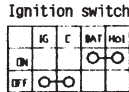
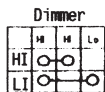
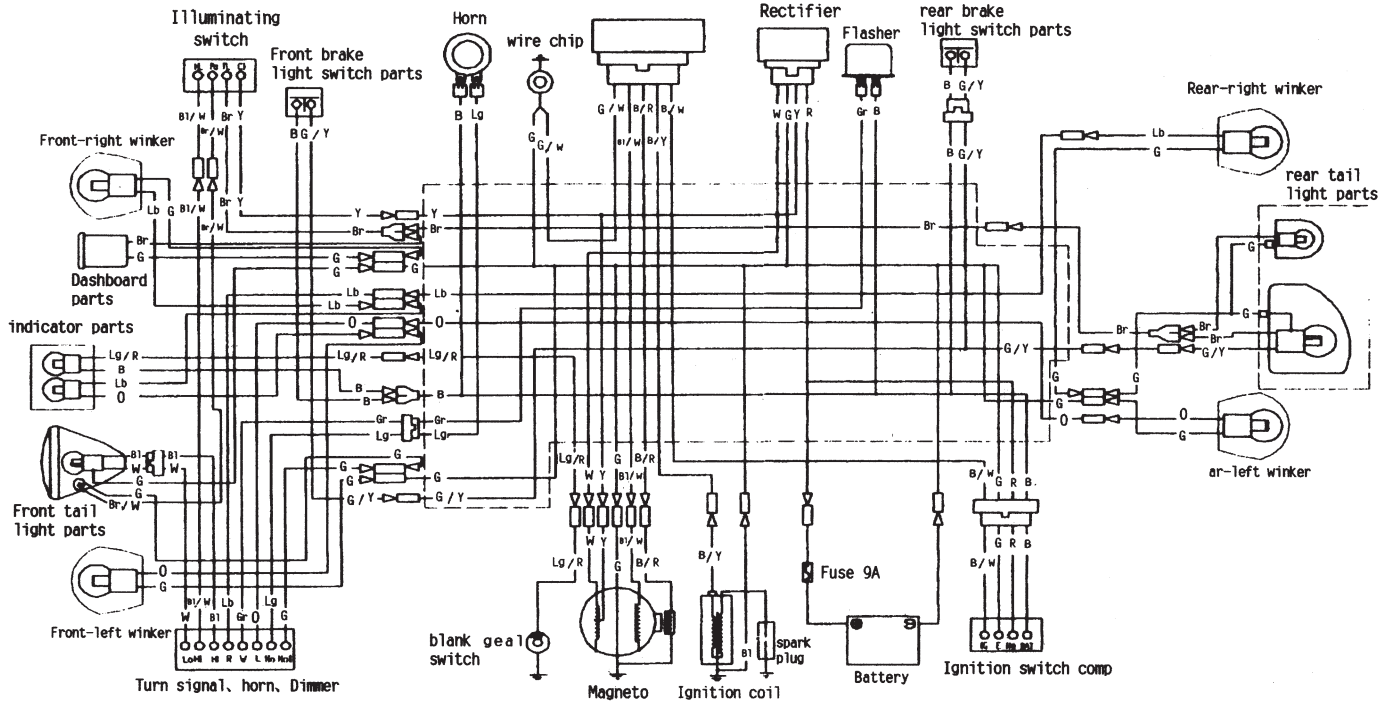
FAILURE MAINTENANCE

Even if before ex-factory, passing strictly inspection , but in the course of using still exists failures about respective vehicle and so if yourmotorcycles come out failure in need of maintenance , at once please come to contact with us establishing local maintenance station .our well-skilled professional personal will offer excellent maintenance service for you

WARNING:

Assembly and parts of this motorcycle etc. all went through special designing if you do not share the relevant professional knowledge of motor-cycles ,please do not take leave to take apart and maintenance.

DIAGRAM



SPECIFICATIONS

full length (mm)	1660	lubrication code	15W/40SE	
full width(mm)	700	spark plug gap	0.7 ± 0.1 mm	
full height (mm)	1010	valve gap	0.05mm air in take and 0.05mm out	
wheelcase (mm)	1060	lubrication volume	0.8L	
clearance (mm)	100	gasoline volume	2.8L	
net weight (kg)	60	transmission ratio	single clutch ,hand clutch	
specified loading (kg)	75	first gear	3.273	2.833
front tire/air pressure	2.25-17-4PR/175KPa	second gear	1.938	1.706
rear tyre /air pressure	2.50-17-6PR/200KPa	third gear	1.350	1.238
max speed (km/h)	≥ 50	forth gear	1.043	0.958
brake distance (m30km/h)	≤ 7	sprocket speed ratio	2.571	2.571
max climbing angle	18°	junior ratio	3.722	4.059
operaton handlebar return angle	45°	battery	12V2.5Ah	
economic fuel cons (l/100km)	≤ 1.4	ignition method	CDI electric ignition	
bore × stroke (mm)	47 × 41.4	restore protector	9A	
compression ratio	4.3:1	headlight	12V-15W/15W	
standard power kw (r/min)	1.8/7500	rearlamp/brake lamp	12V-10W-3W	
max torque N.m(r/min)	2.5/5000	location lamp	12V-3W	
idle speed (r/min)	1500	winker	12V8W	
cyl working volume (ml)	70.38	blank gear lamp	12V-3W	
spark plug	A7TC	indicator	12V-3W × 2	
fuel code	no "pb"or low "pb" RQ-90 up gas	meter flare	6V-3W × 2	
engine type	147FMD	far-light indicator	12V-3W	

