User's manual

WY50QT-21



Preface

Thanks for your purchasing the motorcycleWY50QT-21 and sincerely welcome you to be our motorcycle user. To enjoy a more safe and pleasurable driving, firstly please familiarity with the manual must carry on before driving. Your personal safety depends not only on the vigilance and familiar operation skills, but also relates to whether you are familiar with the mechanical performance. Before driving, check-up and periodical maintenance are basic requirement. If maintenance and repair needed, go to our service center for help. If you know the mechanic knowledge and have the tools, the dealer can offer you help with the maintenance and repair, like providing the parts catalogue and the spare parts.

This manual explains in detail the correct operation and maintenance, together with the expectation for your long-time use. Modifications in specification could cause the discrepancy with some figures and content in the manual, we feel sorry for that and hold the final right of interpretation. Have a good enjoyment and thanks again for your purchasing.

The important points to attention

- The driver and passenger

  This motorcycle is limited to one driver and one passenger (except children younger than 12 years old). Never exceed the max load capacity of motorcycle.

- For the safety, avoid driving the motorcycle in atrocious weather or cold weather (under -12°C).

- For the road condition

  Only drive on the highroad.

  The caution banners about the safety or environment protection stick to the sundries box cover, the rear carrier, and fuel tank cap. (Being visible before or during driving)

- Modifications in specification could cause the discrepancy with some figures and content in the manual, we feel sorry for that and hold the final right of interpretation.

- Please read the user's manual carefully

  You must pay attention to the warning sentence or paragraph.

WARNING

Not following the operation instruction in this manual may cause great damage to you.

ATTENTION

Not following the operation instruction in this manual may cause injury to both you and vehicle. Regard this manual as a permanent part, even when transferring the vehicle to a new owner , transfer the manual at the same time.

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Ⅰ Notice for safe driving

Rules for safe driving

1. Many traffic accidents are caused by the inability of car driver to notice the motorcyclist, so the motorcyclist should try his best to be noticed by other driver

- Put on the coat in bright color.

- Drive with great caution in the place with dazzling light or in blind spot. .

2. Particular care should be exercised at the level crossing of roads, entrance and exit of parking lot or on the automobile lane.
3. Never over speed，otherwise accidents may occur.
4. You must get the driving license and be familiar with the vehicle. Never lend the vehicle to the man without driving license or who is unfamiliar with motorcycle.
5. Avoid driving on the rough road. This can easily result in the operation failure and structural damage to the vehicle frame
6. Check up before driving. (Look at page11)
7. When driving, hold the handlebars and put feet on the footrest.

Don’t drive too close to the other vehicles. Never contend for lane, and strictly observe the local traffic.

Payload

- **Admonition:**

Only put light weight goods in sundry boxes or other deposited place.
The deposited shouldn't be over weighted according to the following blank 1:

Blank 1

Deposited	Weight (kg)
Carrier	5kg
Luggage Box	5kg

- **The max payload of this motorcycle is150kg, including the weight of the driver, passenger and goods.**
- **If the motorcycle is over loaded, it will affect the stability and operation of the motorcycle.**

Tie all the goods needed to be carried on the motorcycle.

Ⅱ. Various parts name and instruction

Parts& Subassemblies

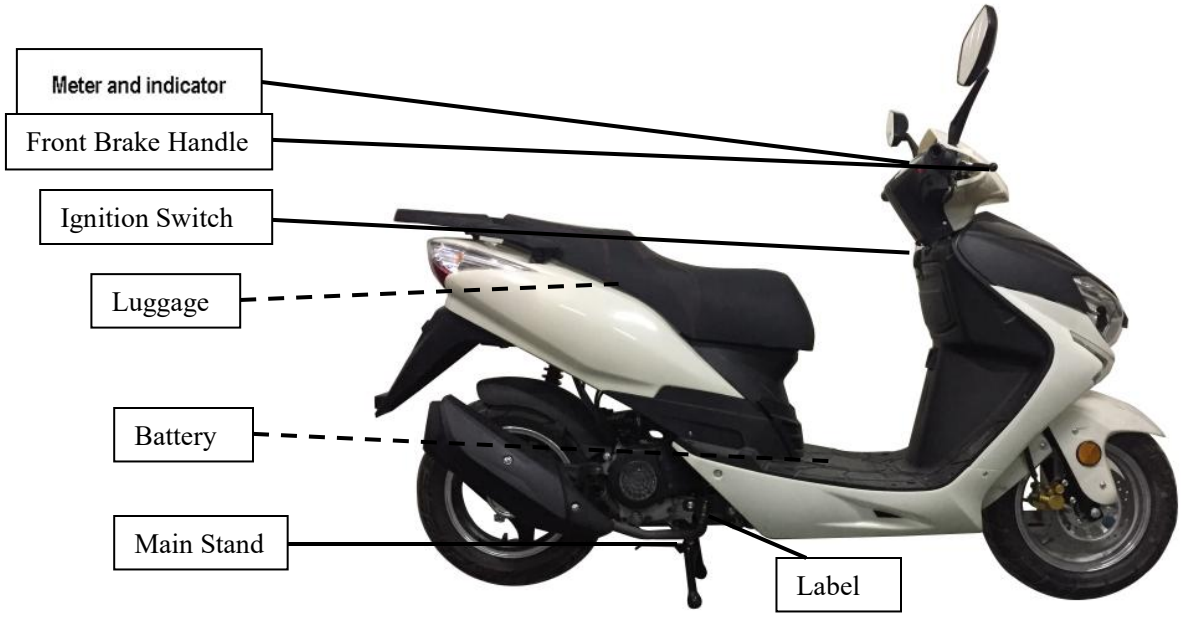


Fig 1

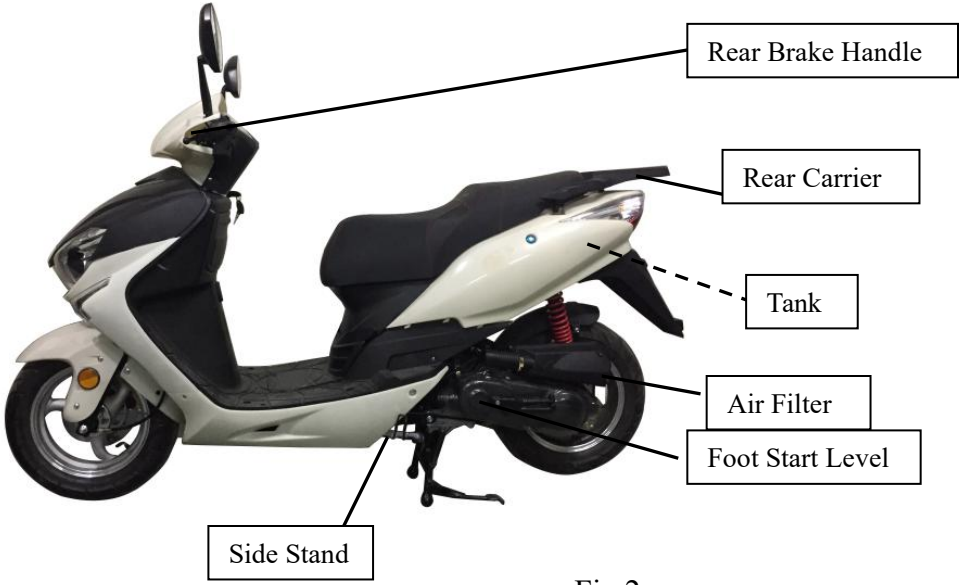


Fig 2

The broken line（……）indicate the parts unseen in the picture

Meter and indicator（Fig3）

(1) Right turning signal

(2) Engine warning light

(3) Left turning signal

(4) Odometer：Record the travel mileage

(5) High beam indicator：When the button is on position "≣D", the high beam indicator works.

(6) Fuel meter：Show the storage volume of gasoline

(7) Speedometer：Show the velocity during driving

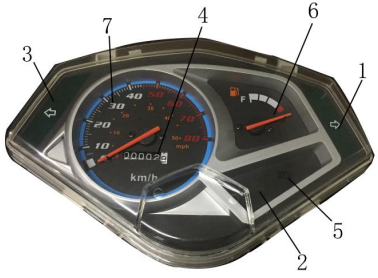


Fig 3

Ignition Switch（Fig4）

(1) Open(⟳)—when the switch turns to this position, engine is started and do not pull out the key.

(2) Close(⊗)—when the switch turns to this position, engine is stopped and take out the key.

(3) Lock(🔒)—when the switch turns to lock（🔒） position, take out the key, don't turn the handlebar, and don't start the engine or turn on any light.

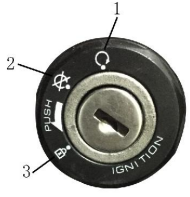


Fig4

Locked-cover-switch（Fig 5）

（1）Lock cover：



Fig5

Fuel meter（Fig 6）

- Fuel meter (7) indicate the fuel volume in the fuel tank. When the needle points to (F), it indicates that the effective residue fuel is 5.3L.
- When the needle points at red section, it indicates the remainder of fuel is 1L



Fig6

Light switch (1) (Fig7)

Three position of light switch: “ ” , “ ”

: The normal work

: The motorcycle short-circuited



Fig7

Starting switch（2）(Fig 7)

Press this button, the engine starts (see P13)

Headlight dimmer switch 1（Fig7）

When the button on “ ” position, the high beam works；When the button on “ ” position, the low beam works.

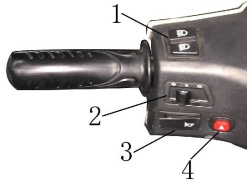


Fig 8

Turning signal light switch 2（Fig8）

When the switches on ( ) position means turn left ,the left turning light and turning signal light will wink；When the switches on “ ” position means turn right, .the right turning light and turning signal light will wink.

Horn switch 3（Fig8）

Press this switch to make the horn work

Warning light switch 3（Fig 8）

When the scooter has problems, click this button to reminder other scooters to pass slow down.

Steering lock（Fig **9**、Fig **10**）

Turn handle left to end, press down ignition key to （🔒）,the steering setting is locked. Do the above opposite, it is unlocked.





Fig 9



Fig 10

Seat Lock（**Fig 11**）

- Put the key into electric door lock，turn over the key to opposite，then the seat will be open.



Fig 11

Ⅲ. Operation instruction

Check up before driving

For safety and preventing trouble or accident, pre-check up is necessary.

Gasoline

When the pointer or fuel meter is close to red section, replenish oil. And check whether the tank and the electronic fuel injection system are in good condition.

- Gasoline tank container：5.3L
- Turn the tank cover anti-clockwise to open the fuel tank (Fig 12)
- Proposal gasoline, octane number is above 92
- Do not replenish oil together with water, dust or other things

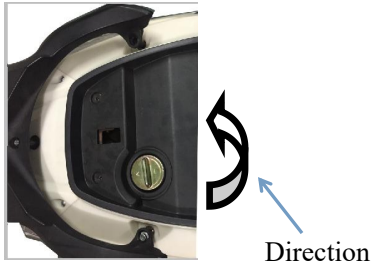


Fig 12

NOTICE:

- **Gasoline is inflammable, it possibly causes fire even exploding on certain condition, replenish oil only in an airiness place after stopping the engine, no fire in the place of oil replenishment or oil storage.**
- **Don't make the top level of fuel above the inlet tube of fuel tank when replenishing, lock the tank well after replenishment**
- **Gasoline is poisonous, keep your skin or eyes away from it, and put it out of touch of children. If swallow any gasoline unconsciously, see a doctor at once**

Inspect the engine oil level（Fig13、Fig14）

1. Keep the motor steady in the flat ground, and then rotate out the engine oil dipstick(1), make it cleaning and insert back(do not screw), pull it out again and check for oil stain.
2. If the engine oil capacity is approaching to the lower limit value(2), then need to pour appropriate engine oil, and do not exceed upper limit value(3), then insert and screw the engine oil dipstick tight. Finally, check if it has oil leakage.

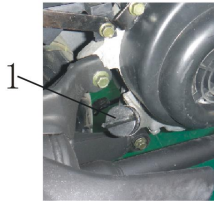


Fig13

Suggested engine number:

SG class SAE 10W-40



Fig 14

The free path of rear brake handle（Fig **15**、Fig **16**）

Measure the distance of rear brake pedal before detent function,

The free path should between 10-20mm, take the tail of brake handle as standard.

- Adjust nut：（A）increase the distance of free path.

  （B）reduce the distance of free path

After adjusting, the axle pin 2 should touch closely with nut 1groove after adjust



Fig15



Fig16

Warning:

When the thickness of the front brake disc wear to the minimum size(MIN. TH.3MM), it's a must to change a new brake disc, to avoid brake safety.

Abrasion mark of the brake（Fig **17**）



Fig17

（1） Reference marks

（2） Indicate marks.

If fully brake. Change the brake block when reference marks and indicate marks are situated in a straight line.

Notice: Once maintenance for brake system is needed, find a nearest professional repair department . Make sure the parts for replacement were made by our company.

TYRE

Check the tire pressure regularly and adjust if necessary.

Front tire pressure: 225kPa Rear tire pressure: 225kPa

- Check when the tire cooled
- Check if the motorcycle has a flat tire, mend it immediately when it has.
- Check if any metal trash or gravel in the groove of tires.
- Replace the tire when it wears out to the abrasion mark.

ADMONITION：

- **If the tire pressure dose not accord with the standard(front tire:200kPa; rear tire:225kPa, in cold situation), it will possibly cause traffic accidents.**
- **It is dangerous to use a worn tire because the friction between tire and road will be affected**
- **which will possibly bring trouble to driving or even cause an accident.**

Start engine (Fig 18**)**

- Put the key into the key hole and turn to "ↀ".
- Electric starter: press start button (1) to start engine, don't keep the start button pressed more than 5 seconds each time.



Fig18

NOTICE：

- **Electric starting is based on grasping the brake handle.**
- **If electric starting doesn't work, there must be a break for 30 seconds before you start the engine with it again**
- **When start the engine in cold condition, please warm up engine for 3 minutes before running**
- **The engine will be over heated if it works for a long time at idle speed in an extremely hot day, you need to power off the engine immediately.**

Drive motorcycle:

WARNING:

- **The temperature of exhaust pipe is much high during driving, you will be injured if touching with it carelessly, even within little time after stopping, the temperature can also cause injury, so wear trousers to protect your legs against injury.**
- **Wear helmet, glasses, and gloves when driving.**
- **Loose or unsuitable clothes may cause an accident during driving**
- **All device must be installed according to requirement of the traffic rule. Take the license with you when driving , each equipment of the motorcycle should accord with the local traffic law**

NOTICE:

Control the speed and payload during the first 200km.Payload lower than 100kg is appropriate (including the weight of driver), over speed or over loading will shorten the life of engine.

Control the speed according to blank 2

Blank 2

Log（km）	**0～200**
Speed (km/h)	**≤30**

Driving operation

- Release Main-Stand and sit on the saddle, step on the ground by left foot to make motorcycle plumb with floor.
- Watch road, turn on the left turning light.
- Turn the throttle when start, put your left leg back to footrest and control the throttle to make the motorcycle reach good speed. close the accelerograph to slow down
- Close the left turning light when have started driving.

NOTICE:

- **Do not make a sudden speedup or speed-down with the throttle grip to prevent that motorcycle rush out unexpectedly.**
- **Driver must release the side stand before driving and try to know the status of running road**

Brake operation:

1. Control the throttle grip

You must control the throttle grip and use both of the brake systems to slow down

NOTICE：Drive with care when driving in bad situation like on moist or runny road, in a rainy day. Do brake operation, speedup operation or turning operation carefully.

2. Front brake and rear brake work at the same time

Notice：When driving down on a cliffy brae, close the accelerograph entirely and use both of the brake system to make the speed lower. Don't do brake operation continuously to make it too hot, which will affect the performance of brake

Warning: When driving on a smooth or curving road at a high speed, don't use only one brake system, you must use both rear and front brake system at the same time to avoid an accident.

Power off the engine（Fig**19**、Fig **20**）

- Close accelerograph: revolve to the end as the direction of the picture showing (commonly, the engine will become in idle situation at the moment when you release the throttle grip）
- Turn the ignition switch to （⊗）



Fig19



Fig20

Parking operation:

When parking, turn the key to（⊗）position, put down the support and lock the handle well.（See P6

Admonition：Park the motor on a smooth ground, or it may fall down and cause injury.

Notice for anti-theft

- Lock the steering and do not leave key in the key hole before you leave.
- Park the motor in a car barn if possible.

Ⅳ、Maintenance and service

Maintenance periodic form

This maintenance is based on the odometer, See the Maintenance periodic form as an important guide for your motor's maintenance on schedule. You should increase the frequency of maintenance if you use the motor at a high speed in a bad situation for a long time. Some main parts of your motor should be inspected by a career man after a repair for most parts or collision, like Frame, hanger, or turning parts , Repair or replace broken parts to secure your safety.

Notice： For the safety and dependability , Never refit. Use the parts of us or parts of same quality as ours for replacement. Otherwise, the performance and operation function will be affected.

Warning: For the safety of personnel, no matter whatever maintenance work carries on, first power off the engine, park the motor on a good ground and support the motor with stands well
Notice: the motor without use in winter or having been parking for longer than one month needs maintenance before driving to check if the fuel, tire or battery were bad or corrupted

Maintenance periodic form（blank 3）

Check before maintenance（See P9）

I：Check and adjust it when need.

C：Clean

R：Change

Blank3

Item \ Cycle		Run-in Period		Speedometer indication（×1000km）				
				1	4	8	12	REF Page
*	Fuel pipe			I	I	I	I	
*	Throttle			I	I	I	I	16
*	Core of the air		（Note1）	C/1000km, if need: R				22
*	Spark plug			C/2000km, if need: R				27
*	Valve			I	I	I	I	
*	Engine oil		（300km）R	R	（3000 km）R			25
*	Engine oil filter				When change oil: C If need R			25
*	EngineIdle Speed			I	I	I	I	23

Continuing 3

Item \ Cycle		Run-in Period		Speedometer indication（×1000km）				
				1	4	8	12	REF Page
*	Rotate the belt			C/1000km, if need: R				
*	Gearbox engine	（Note	（300km）R			I		26
	Brake system			I	I	I	I	15
	Brake cock				I	I	I	
*	Head light				I	I	I	
*	Hanging				I	I	I	
*	The nuts\ bolts	（Note		I		I		
**	Wheel, tire				I	I	I	12
**	Turning bearing			I			I	

* Unless you are an expert on machine and hold a full set of tools and maintenance data, or leave your motor to a mechanic person to maintain or repair

* For safety, we claim all of items done by mechanic person.

Note：1、You' d better shorten the period of maintenance if use the motor in a particularly moist or dusty area, and when the fuel consumption becomes more and more, and accelerated effect is bad, you should change some parts.

2、If you usually drive the motor in accidented roads, please go for a maintenance to protect the performance of the vehicle . 3、Change as the season changes in a cold area.

Solution for troubles（Blank 4）

Blank4

Trouble	reason		solution
Can't start the engine	Spark plug no spark	Spark plug wear out	Change
		Ignition module wear out	Change
		CDI wear out	Change
		Ignition switch wear out	Change
		Ignition come off or become flexible	Connect well or firm and tight
	The spark is weak	Spark plug gap too small or big	Adjust
		Spark plug pole burn	Change
		The spark plug accumulates	Clear out
		No spark to consult the spark plug	
	No mixed air in cylinder	No fuel	Replenish
		Oil mouth stop up	Dredge
		Fuel tank pressed the switch to	Change
		The oil passage stops up	Dredge
		Air cleaner stop up	Clean
		Take in system leak	Check and clear out
	The cylinder compresses strength low	Spark plug seat leak	Screw up spark
		Cylinder cover leak	Change spacer
		Valve seat washer worn out	Polish
		The piston-ring or the cylinder block	Change them
		The piston-ring is broken or stored	Change piston-ring or clear

Blank 4 continue

Trouble	Trouble reason	solution
The vehicle has bad accelerative performance	The octane value of the fuel is too low	Change flue
	Oil path blocked	Clean oil path
	Ignition in wrong time	Check wire and change CDI
	Spark too weak or flameout	Check ignition and clear out
	Mixed air too dense or too thin	Clean adjust carburetor
	Air leak from the engine	Check and clear out
	Muffler blocked	Dredge
	Belt wear and tear	Change
	Weight roller wear and tear	Change
	See “ can’t start the engine” as reference	
The electric start does not work	The clutch is broken	Change
	the relay is broken	Change
	Battery electricity not enough	Charge
Riding unsteady	gap between turning bearings is too big	Adjust
	tire pressure not enough	pump
	Front and rear axle released	Screw up nut
the brake does not work	The brake block wear and tear superlatively	Change
	brake cam wear and tear	Change
	Brake cable is broken	Change
	Free path too big	Adjust

Clean the air filter（Fig21）

- Take down the rear protecting strip and left protecting stip.
- Take down the fixing bolt of air cleaner cover.
- Take out the core from the air cleaner box.
- Clean the filter element using compress air or dry brush or put a new filter in the air clean box.
- Do the above oppositely to reinstall the air filter.



Fig 21

NOTICE：

- **Never use gasoline or low burning point solvent to clean**
- **When dismounting the rear protecting strip and left protecting strip for the first time, pleas under the guide of technician.**

Battery maintenance（Fig22）



Fig 22

It is adopted the airtight battery (don't add water)

NOTICE：Never take apart upper cover of the electrolyte.

- If you don't use the motor for a long time. please take off the battery and keep it in a ventilated and dry place
- If the peg of battery is corroded. Please take it off and clean.(use boiled water)

NOTICE: Turn off the ignition switch before taking apart the battery. Taking negative terminal first and positive terminal next, when installing, just opposite to above procedure.

Idle speed adjustment（Fig**23**）

The carburetor has adjusted to the best situation before selling out.
If it is not well adjusted, ask professional to adjust it as the following instruction.



Fig23

- Turn the accelerograph to the max speed, turn on t
  switch, close the accelerograph in 2 seconds, at the same time, meter warning light turn on, it means entering the learning mode.
- Warm up for 10 seconds after engine starts.
- Accelerograph has five nodes, corresponding of throttle opening are：0%, 8%, 25%, 50%, 100%.
- Firstly, adjusting the idle speed, the reasonable idle speed should be 1400~1800 rpm, if it is too high, it shows the idle gas is too big, screw the bolt 1 clockwise. If it is opposite, screw the bolt anticlockwise.
- Then finish studying in each node, when the accelerograph near the node, meter warning light will turn on. Then stay at the node till the warning light turn off. Finish studying this mode, move to the next node.
  If the temperature of exhaust is too high, it is possible to return to the first step, the resting node can be studied after the temperature become lower.
- After all the node have studied, the engine automatically turns off. If it doesn't turn off, there still has node need to study.
- When flameout, close the close, ending the studying process.

Testing:

- (1). Starting the engine, turn the accelerograph rapidly to feel if it is powerful. Turn the accelerograph slowly to check if transition is smooth. Loosen the accelerograph to check if there is a phenomenon of flameout.
- (2). After the engine refrigeration, make a cold start test, check start successful or not, loosen the accelerograph flameout or not. If not, increase the idle gas; if still unsuccessful, test if the cylinder pressure reach to the standard.

Warning:

1.Studying should be in the case of no-load, using the side stand to support the scooters, using cushion and blower to cooling the exhaust.

2.Highly idle gas result in cold startup difficultly, the accelerograph flamed out. Oppositely, the accelerograph flamed out or idle speed too fast.

3.During using the motorcycle, the friction of engine, idle air inflow demands has decreased, suggest that after the run-in period, decreasing the idle air inflow(clockwise), avoiding the phenomenon of the accelerograph flaming out.

Change oil（Fig24）

- Change oil only when the engine is not cooled yet and the vehicle is supported by jiffy Stand, to pour out all the oil completely and quickly



Fig 24

Clean the oil filter net

- Screw out the the cover of oil hole /oil dip rod and the cover of oil filter screen,Take out oil hole cover and oil filter 1 then take strainer 2 and spring 3.
- Clean the oil filter net using liquor
- Fill in the oil filter net,spring and the cover of oil filter screen.
- Inpour standard oil into the engine, not exceeding the upper mark,
- When measuring the oil level, do not screw down the cover of oil hole / oil dip rod.
- Fill in the cover of oil hole / oil dip rod
- Start engine and keep it working at idle speed for few minutes, then turn it off.
- Measure the oil volume of engine again to make sure it does not leak.

Change the gear oil（Fig 25）

We suggest gear oil number:

SAE　80W/90（you can use ant freezing oil in very cold area）

Oil capacity

Resolving capacity

Changing capacity: 0.11L

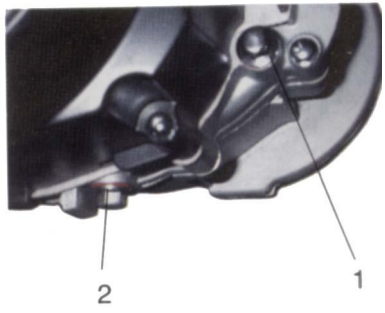


Fig 25

- Place the vehicle by the main stand.
- Screw out the immersion bolt 1 and oil-drain bolt 2.
- **NOTICE：When draining the oil, the engine needs a certain temperature, use the main stand to support the motor, make sure all the oil is drained.**
- Clean the drain bolt and then re-install it.
- Inject oil into the hole of the immersion bolt slowly till the oil spill over.
- Fix the immersion bolt and screw it tight.

Spark plug（Fig26）

Spark plug specification

Resistor type： A7RTC

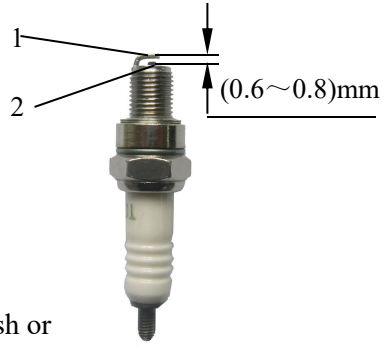


Fig 26

- Disconnect the joint of the spark plug cover and take apart the spark plug with special spanner
- Check if there is any burning ash or accumulated dirt on electrode or porcelain head, if it singed badly, replace the spark plug, Clean the ash or dirt with plug cleanser or a brush
- Normally the gap between side electrode (1) and Center electrode (2) is 0.6-0.8 mm
- Don’t use other kind of spark plug with different specification.

Fuse replacement

The rated electric current of the fuse is 15 A. If the fuse often burns down, it indicates the short circuit or overload in the electric system. Ask the serviceman to repair it, and never use the brass wires to replace the fuse.

STORAGE

If the vehicle hasn't been used for a long time, some steps should be taken to prevent malfunction and damage to the parts. Besides, before the long-time storage, proper repairs should also be done.

- Change the engine oil.
- Drain out the fuel in the fuel tank and oil in the carburetor.

Warning: Gasoline is inflammable and may cause fire and even explosion on certain conditions. Therefore, no fire when draining.

◆ Take apart the spark plug, inject about 15~20ml oil into the cylinder, step down the kick pedal several times and then fix the spark back on.

◆ Take apart the battery and place it in a place without strong light or frozen ice, charge it every month.

◆ Clean the vehicle and wipe it dry, coat the wax on the surface of the paint, and anti-rust oil on other metal parts.

◆ Cover the vehicle and put it in a cool place.

Use the vehicle after long-time storage

- Take off the cover and clean the vehicle. You should change the oil after 4 months above storage.
- Charge the battery if necessary, and fix it on.
- Check all the parts before driving.(see p9), ride motorcycle in a low speed in non-busy area, make sure the safety.

Ⅵ. Vehicle identification.

Position of the model code, vehicle identification number and label（**Fig 27**）

Provide the numbers above when register to get the license ,do yearly inspection, and enjoy the after-service .

the rivet for fixing name plate is on the right side of main stand（See p3）

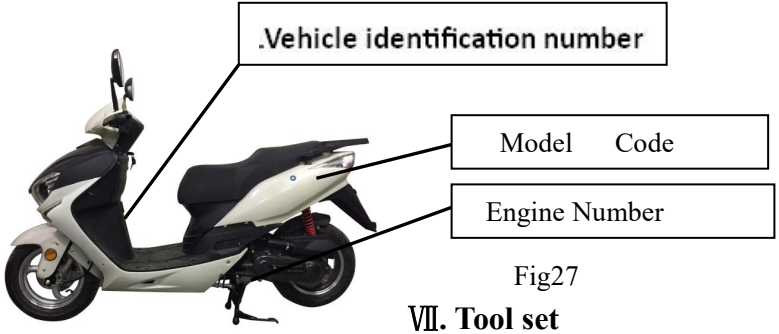


Fig27

Ⅶ. Tool set

Toolbox（Fig28）is placed in the luggage box under the saddle, and toolbox contains the following tools:

Wrench 8x10mm	Wrench 12x14mm
Screwdriver	Hexagonal wrench
Handle of screwdriver	Sleeve wrench 18.5x17



Fig 28

Ⅷ. Main technique Parameter

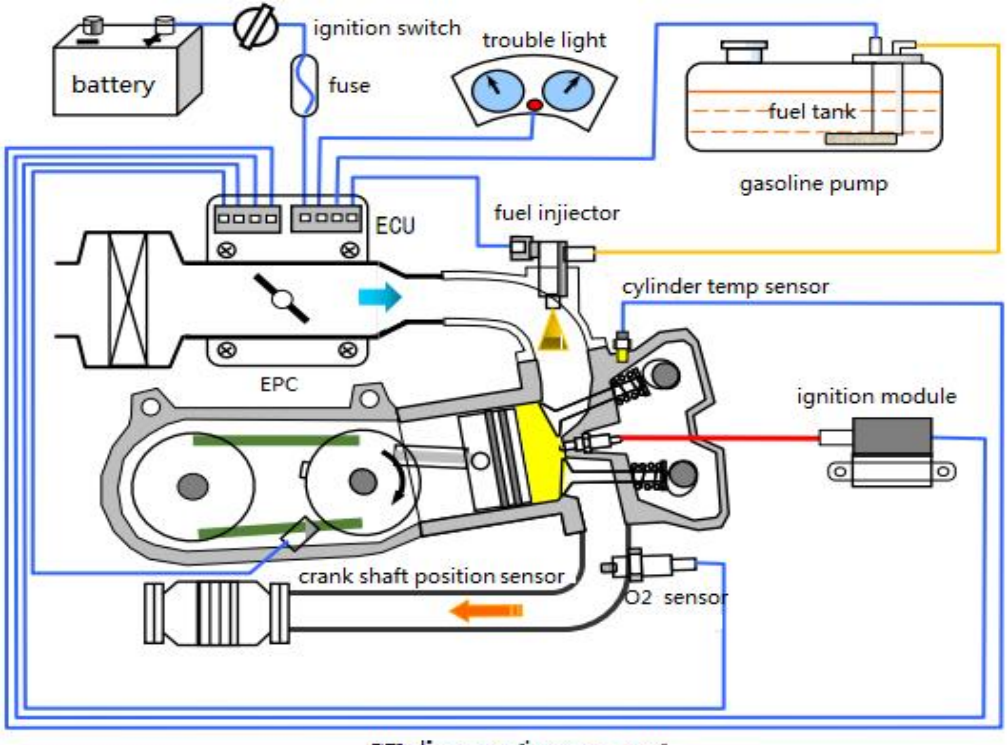
Table5

Item	Parameter		Item	Parameter
L×W×H (mm)	1960×700×1150		Front Tire	120/70-12
Wheel Base (mm)	1400		Rear Tire	120/70-12
Ground Clearance (mm)	125		Pressure Of Front Tire kPa	225(cold)
Dry Weight kg	97		Pressure Of Rear Tire (kpa)	225(cold)
Max load kg	75		Derailleur	Auto Stepless
Turning Angle of Steering Handle °	≤48		Speed Ratio of Derailleur	13.122～34. 116
V=40km/h	Fr Brake Distance m	Speed-down average m/s²	Rr Brake Distance m	Speed-down average m/s²
	≤21.78	≥3.4	≤26.86	≥2.7
Max speed (km/h)	≤45		Engine type	139QMB-Single-cylinder Four stroke Forced air
Economic Oil Consumption L/100km	≤2.2		Bore/stroke(mm)	39×41.5
Climbing Performance	≥10		Volume ml	49.6
Start Model	-1.3%		Start-up mode	Shoe centrifugal automatically
Battery	12V 7Ah		Gas Volume L	5.3

Continuing 5

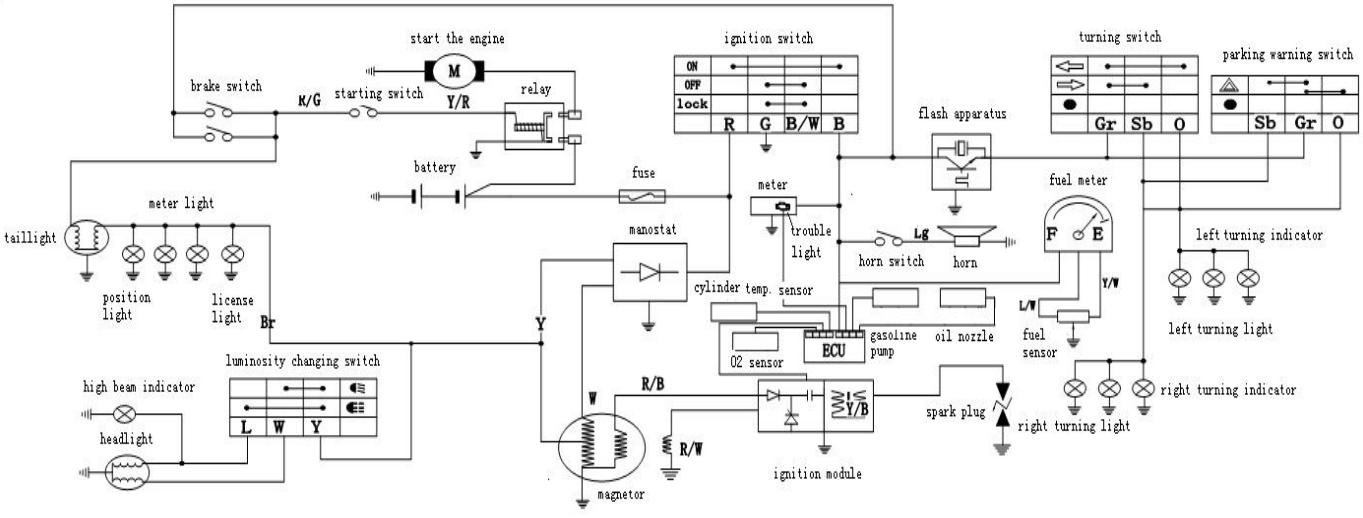
Item	Parameter	Item	Parameter
Lubricating Way	Press and splash	Fuse	15 A
Rated Power kW/r/min	2.1/7200	Headlight	12V18W/18W×2
Max Torque N.m/r/min	3.0/5500	Tail Light/Brake light/license plate	12V1.2W
Compression Ratio	10.5：1	License Plate Light	12V 5W
Specification of Spark Plug	CR7HSA	Turning light	12V 10W
Spark Plug Gap mm	0.6～0.8	Fuel Brand	No.92/BENZIN
Idling Speed r/min r/min	(1700±170)	Oil Capacity, Gearbox L	0.11
Crankcase Lubricating Capacity L	0.9	Gear Oil Brand	SAE 80W/90
Engine Oil Brand	SG class SAE 10W-40(Crankcase)	Valve Play	0.03~0.05
Ignition method	CDI	Clutch mode	Electric/Kick start start-up

Ⅸ.EFI Diagram



EFI diagram (inner pump)

Ⅹ Circuit diagram



Ⅺ After-service

Please contact the local suppliers.