

User's manual :WY50QT-53



PREFACE

Thanks for your purchasing the motorcycle WY50QT-53 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

Y The Driver and Passenger

This motorcycle was only adapted for only one driver. Never exceed the Max load capacity of the motorcycle.

Y For safety, never ride the motorcycle in the atrocious or cold weather(lower than -12℃)。

Y **Road Surface:** This type of motorcycle is only drive on the high road.

The caution stickers about the driving safety or environment is sticked on the cover of sundries box, rear shelf, and the cover of fuel tank . (Please read them before driving.and follow the guides while driving.)

• Please Carefully Read the User Manual

Rider must pay attention to the sentences or paragraphs in caution stickers.

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 parts, even when transfering the vehicle to other people, transfer the manual at the same time.

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I . Safe Drive

Rules for Safe Drive

1. Motorcycle happen the many accident, all reasons are that the car drivers can't look at the motorcycle drivers. So the motorcycle drivers must let the car driver to see them:
 - ※Put on the coat in bright color.
 - ※Avoid driving at night .you must drive on guard and carefully to the strong light.
- 2..Particular care should be exercised at the level crossing of roads, entrance and exit of parking lot or on the automobile lane.
- 3.Don't speeding, because the speeding usually to happen an accident.
- 4.You must get to the driving license and familiar with motorcycle. Never lend motorcycle to the man without driving license or unfamiliar with motorcycle.
- 5.Avoid driving the road with accidental, easily result in the operation without used or the parts was broken.
- 6.You must check up the motorcycle before driving.(page 10)
- 7.During drive, grasp the bar by hands and with feet on the footrests.
- 8.Don't drive too close to the other vehicles. Never contend for lane, and strictly observe the local traffic.

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The Payload

I Admonition:

**Only light goods can be put in the rear shelf or other deposited place.
The goods payload cannot be heavier than the weight in blank 1:**

Blank 1

Deposited Item	Weight
Front Box	1kg
Diner Box	20kg

- I The max payload is 75kg, including the weigh of driver and goods.
- I If motorcycle is over- loaded, it will affect the stability and operation of motorcycle.
- I The goods on the motorcycle must be tied tightly.

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II . Various parts name and instruction

Parts & subassemblies (Fig1、 Fig2)



Fig 1

- 3 -



Fig 2

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

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Speedometer and Indicator (Fig3)

- (1) Speedometer: Show the speed when the motorcycle move.
- (2) Odometer: Record the mileage.
- (3) Call indicator light: Sparkling when a call incoming.
- (4) Left Turning signal light: Sparkling when turn the button left
- (5) Fuel meter: Show the storage of fuel.
- (6) Right Turning signal light: Sparkling when turn the button right.
- (7) Hgh beam light: It will light when the button is turned to “ \equiv ” .
- (8) Engine speed recorder: Show the speed when the engine working



Fig 3

Ignition switch (Fig4)

- (1) On(\odot)—when the switch turn to this position,
Start engine and do not pull out the key.
- (2) Off(\otimes)—When the switch turn to this position,
Start engine power off and take the key.
- (3) Lock(\mathfrak{A})—When the switch turns to lock position (\mathfrak{A}),
Take out the key .do not do any turning operation
And do not start engine and light.

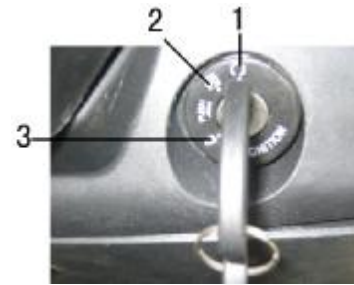


Fig 4

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Fuel Meter (Fig5)

- Fuel meter (5) show the approx remainder of fuel. When the hand point to (F), it indicates Full tank of 4.5 L .
When the hand at red section, it indicates the remainder of fuel is 1.8 L .



Fig5

Light Switch 1 (Fig6)

The light switch: three position “ $\hat{\sim}$ ” , “ \mathfrak{A} ” and “ \bullet ”

$\hat{\sim}$: When it on the position, the front head light, tail light, position light and meter light turn on .

\mathfrak{A} : When it on the position, tail light, position light and meter light turn on .

- : When it on the position, the front head light, tail light, position lighted instrument turn off.





Fig6

Starter Switch 2 (Fig 6)



Press this button to start engine (Read P14)

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High-low Beam Switch 1 (Fig7)

Press “” button, is high beam; Press “” button is low beam.

Turn Light Switch 2 (Fig7)

When the switches on () position, turn left. When the switch on () position, turn right,.Press it down to turn off lights.

Horn Switch 3 (Fig7)

Press the button,the horn makes sound.

Parking Switch 4(Fig7)

Press the button, front and rear turn signal light light at the same time.



Fig7

Steering Lock (Fig8、 Fig9)


Turn handle left to end, press down ignition key 1 to () ,the steering setting is locked. Do the above opposite, it is unlocked.



Fig 8



Fig9

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Seat Lock (Fig10)

- Put the key1 into 2 Seat lock hole and then clock-wise open the lock..
- Press down the Lock until it make sound of locked, then push the back of Lock to confirm it has been locked and take out the key.

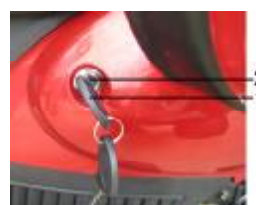


Fig10

Front Box(Fig11)

- ÿ Put the key into the lock hole of Front Box and then turn clock-wise 90° to open the front box.
- ÿ Put the key into the lock hole of Front Box and then Turn clock-wise 90° .Push to close the front box at the same time. Then move anti-clockwise 90° to lock the front box.



Fig 11

Attemperator Switch (Fig12)

- Press button 1, 2 lights, and then Attemperator starts to heat.
- Press 1 again, 2 is turned off, and Attemperator stops heating.



Fig12

Diner Box (Fig13)

- When lock is in the position like the picture, push 2 up to open 1.
- 1 Put the key into 3 and turn anti-clockwise 90° to close 1. It can't be opened by pushing 2 now.



Fig13

Heat Preservation Box (Fig14)

- Turn on Attemperator Switch when engine is working, and then the box begins to heat and keep food out of cold.

ATTENTION: This box only can be used while engine is working. Start Attemperator while engine isn't at work, this will cause battery to loss electricity.



Fig14

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III、 Operation Instruction

Check before riding:

Check before riding, For safety and prevent trouble or accident, pre-check up is necessary.

Gasoline Tank

When the pointer or fuel meter is close to red section, replenish oil. And check the tank and the carburetor are right.

- Gasoline tank container: 4.5L
- Anticlock-wise open the tank cover. (Fig15)
- Suggestion gasoline: octane number is 90 above.
- Do not replenish oil together with tidy or water.

Warning:

- Ÿ Gasoline is inflammable, it will burn or even explode in some conditions. So, choose a well ventilated place to replenish oil and must stop the engine first. No smoke and fire in oil place.
- Ÿ Keep gasoline level under away from the height panel of flue tank while replenish. Close the fuel tank lock after finish replenishing.
- Ÿ The oil is poison, please keep children far from it. If swallow the oil careless, see the doctor at once.



Fig15

Check engine oil

Inspection Engine Oil Level (Fig16、 Fig17)

- 1、 Keep the motor steady in the plane and screw up the oil dip rod and clean it, then reinsert and inspect oil.
- 2、 If the oil level reach to down limit sign 2, replenish the standard oil to upper limit sign 3, then put the oil level into, cover the lid, to check it whether seeking.



Fig16



Fig17

Suggestion the engine oil number

SAE-15W/40

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The free path of rear brake handle (Fig18、 Fig19)

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): reduce the distance of free path

(B): increase the distance of free path

The axle pin should touch closely with nut groove after adjust.



Fig18



Fig19

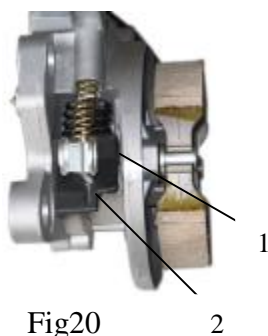
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Braker indicator mark (Fig20)

- (1) Reference mark
- (2) Allow indicator mark

When the arrester are full brake, the allow will stand on one line with the reference mark, thus you should replacement it.

Note:: When the brake need to repair, please take the bike to the Maintain department to replace the original company parts, not others.



WARNING:

When the front disc gets worn to the limit (see the notice on the disc: MIN.TH.3mm),the old disc must be changed in order not to influence the brake performance.

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Tyre

Check the tire pressure regularly and adjust.

Front tyre pressure: **180kPa** Rear tyre pressure: **200kPa**

- I Check before the tire cooled
- I Check if there any hole, especial it's leaking you should replacement it.
- I Check the tyre with broke mark or not, such as the nail or tartness. Check the ring too.
- I When the tyre lines are disappear, please replace it.

WARNING:

- I **If the tire pressure dose not accord with the standard, it will properly cause the traffic accident.**
- I **It is dangerous that use the worn tire, It will have effect to friction between tire and rode. Maybe make difficult from drive or accident.**

Engine Starting (Fig21、 Fig22)

- Prepare: Stand the motorcycle. Put the key into ignition switch and turn to “O”.
- Electric starter: press start button 1 to start, Do not use the starter more than 5 seconds each time.



NOTICE:

- I Electric starting is only in the condition of grasping the brake handle.
- I Electric starting not succeed, if starting again with it, we must stop for 30 seconds.
- I If cold, start warm up engine for 3 minutes.
- I When the weather is hot, the engine should be turned off to avoid heat after long time work.

Driving motorcycle:**WARNING:**

- § Wear the trousers to avoid touching with exhaust pipe and was burnt.
- § Wear helmet, glasses , and gloves to protect when driving.
- § Loose and unsuitable garment are inadvisable when driving.
- § The entire device must be installed according to requirement of the traffic rule. Take the license to riding.

NOTICE:

Control the speed and payload during the first 1000km. Payload lower than 75kg 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

Log (km)	0~200	200~500	500~1000
Speed(km/h)	≤20	≤30	≤35

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Driving operation

put away main stand and sit on the saddle ,step on the ground by left foot to make motorcycle plumb with floor.

- Turn on the left turning light when look-in the road.
- Slowly to run the throttle when it start, take your left leg to a good position to the good speed, then close the throttle when the speed cut down.
- Turn off the left turning light when driving normally.

Warning:

- Do not add much gasoline suddenly with throttle grip to prevent motorcycle rush out. Maybe lose control.
- Before drive, must take the stand. Pole well.

Brake operation:**1. Control throttle grip**

If you want to reduce speed, Must control the throttle grip, at that time use the two-brake system, this point is very important.

Notice: if the drive will be done in this situation, for example: damp or loosely roads, raining .no matter brake, add speed or turn must take care.

2. Operate front and rear brake.

Notice: Must totally close the flue when drive in a descent, and use two-brake system for reduce speed. Don't use brake continuously, other wise it will reduce the effect of brake because of too hot.

Warning: Don't use single brake when drive with high speed, special crooked and slippery road.

Must use two-brake system for avoiding accident.

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Engine power off operation (Fig23、Fig24、 Fig25)


Close throttle: revolve to the lowest place according to picture. (Normal situation is loose the throttle grip, and the engine is idling speed) Put the Ignition Switch on () .



Fig23




Fig24



Fig25

Stopping operation:

When the motorcycle stop, put the key to “” position .put down stand and lock handle. (Page 7)

Warning: motorcycle should be stopped on the plane and hard floor ,or it can cause damage to vehicle and driver.

Alarm points:

- Locking the handle and do not left key in the switch.
- Put the motor into the garage.

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IV、 Maintenance and Service

Maintenance periodic form

The maintenance is important to motorcycle. After driving at high speed in bad situation for a long time, the times of maintenance must be added,.If motorcycle is necessary to has a big repaire or after an accident happened, main spare parts must be checked seriously by machinist,for instance: frame, indicator parts and so on.Then the worn parts must be repaired or replaced for safety.

Notice:

Don't change motorcycle make sure it's safety, Must use good quality spare parts if replace spare parts .if use bad quality spare parts, it will influence the safety of motorcycle.

Warning: Must close engine when make maintenance .it make sure the repairer's safety. And put down the stand on the smooth ground.

Notice: Must make a good maintenance if the motorcycle don't use over a month, or don't use in all the winter. Make flue, tire and battery avoiding corrode.

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Maintenance periodic table (Blank 3)

Check before time based maintenance (Page10)

I: check and adjust when necessary

C: clean

R: change

Blank3

Cycle Item		Break in period		speedometer (x1000km)				
				1	4	8	12	Ref page
*	Fuel pipe line			I	I	I	I	
*	Throttle operation			I	I	I	I	16
*	Air filter		Note1	C/ 1000km, if need: R				23
*	Spark Plug			C/2000km,If need: R				27
*	Idle speed			I	I	I	I	24

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Blank3 continue

Cycle Item		Break in period		speedometer (x1000km)				
				1	4	8	12	Ref page
*	Drive strap			C/1000km, if need: R				
*	Gear oil	Note 3	(300km) R			I		26
	Brake system			I	I	I	I	12
	Brake switch				I	I	I	
*	High-low light				I	I	I	
*	Suspension				I	I	I	
*	Screw, bolt	Note2		I		I		
**	wheel, tyre				I	I	I	14
**	Turning bear			I			I	

*If you have all of tool and maintenance document, you are a mechanic person, or else must let special person maintenance and repair.

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

Note: 1、 if this area is very damp or have a lot of dirty .you had better make a short time for maintenance, when it take more oil quantity or not strength, it must change.

2、 if it was used every day, must make maintenance.

3、 According to season to change in a cold area.

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Solution for troubles (blank 4)

Blank4

Trouble	reason		solution
Can't start the engine	Spark plug no spark	Spark plug wear out	Change
		Ignition wire wear out	Change
		CDI wear out	Change
		Ignition switch wear out	Change
		Ignition come off or become flexible	Connect well or firm
	The spark is weak	Spark plug gap too small or big	Adjust
		Spark plug pole burn	Change
		The spark plug accumulates carbons	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 damage	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 worn	Change them
		The piston-ring is broken or stored up the carbon to hinder very much	Change piston-ring or clear carbon

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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
	The automatic clutch 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

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How to clean the air fliter (Fig26)

- Take apart air filter cover and screw up bolt.
- Take out filter element.
- Compress air or use dry brush to clean filter element.
- Do the above opposite to reinstall the air filter.

Warning:

Do not use gasoline or low burning point solvent to clean paper filter element.



Fig26

Maintenance battery (Fig27)

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

Notice: Do not take apart the airtight battery upper cover.

- If the motorcycle have not been used for a long time. Taking off the battery and putting it into a dry and place
- The head of battery was corroded, please take it off and clean. (Can use boil water)

NOTICE: turn off the ignition switch, take apart negative pole ⊖ first, but install positive pole ⊕ when you are installing.



Fig27

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Idling adjust (Fig28、 Fig29)

The carburetor is in the best situation before sold, if the carburetor is still influence riding. Please adjust it under the instruction of professional man.

- Warm up few minutes after start.
- Idle to adjust screw (1) is it is it improve idle speed slightly to enter to fasten, is it withdraw it than screw slowly after stocking to fasten to mix and then rapidly, to stabilizing the position at most, then withdraw slowly, get and stabilize the position the most low .
- After adjust idle, then adjust accelerograph handle to free path for 2-4mm, then use adjustor (2) to adjust, screw down nuts, and then screw up it after adjust.
- Adjusting the good idle speed, when should be able to suddenly strengthen the throttle, the rotational speed of the engine should be excessively steady, no flash back and can't go out, stop working or arrange organ not to blow out at being last throttle.



Fig28



Fig29

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Change engine oil and clean strainer of oil filter

Change engine oil (Fig30)

- Change the engine oil before engine cold, and under the condition of steady of motor.

Clean the strainer.

- Take out oil hole cover and oil filter 1 then take strainer 2 and spring 3.
- Using liquor clean the strainer.
- Install oil filter then take strainer and spring.
- Replenish the standard engine oil to upper limit line of the oil hole cover.
- Install the cover of hole and liter.
- Start engine and keep for few minute then flameout.
- Measure the lever of engine oil again, makes sure it is not leak.



Fig30

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Change gear oil (Fig31)

Suggestion engine oil No:

SAE 80W/90 (The cold place can use the Unfreezing oil)

Oil Capable

Changing capacity: 0.10L

- Parking the bikes by the main stand
- Take apart the immixing bolt (1), and the spilling bolt (2).

NOTICE: When draining the oil, the engine needs a certain temperatur use the main stand to support the motor, make sure all the oil is drained.

Reinstall the spilling bolt after clean. And screw up.

- Inject 100ml to engine through immit bolt
- Install immit bolt and screw up.

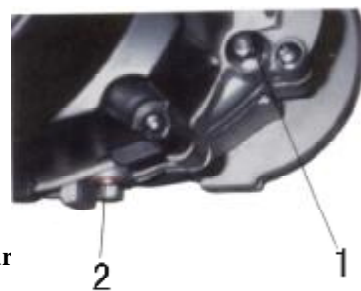


Fig 31

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Spark plug (Fig32)

The specification of spark plug

Standard: C7HSA (NGK) or A7T、A7RT

- Take apart the spark plug; Take it off with special tool.
- Examine if there is dirt on poles and the porcelain head in center. If it has corroded, must change it. It is the best way to clean with the liquor of spark plug. Use wire brush if no cleaner.
- Normally the gap between side electrode (1) and Center electrode (2) is 0.6-0.7mm.
- Don't use other spare plug.

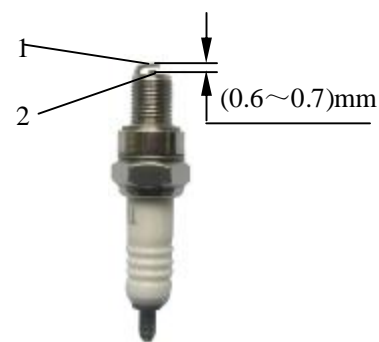


Fig32

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.

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V、Vehicle Storage

Storage

For the motorcycle not to be used for a long period of time, for example, in wintertime, some steps should be taken to prevent malfunction of and damage to its components, which might be caused by long storage. Besides, before the long storage, proper maintenance has to be carried out for fear that it might be forgotten when vehicle is put back into use after storage.

- Change engine oil and oil filter.
- Drain off fuel from the fuel tank and carburetor, spray atomized anti-rust oil onto the inside wall of the tank and then close the tank.

Warning:

Gasoline is inflammable and may cause fire and even explosion under certain conditions. Therefore, do not smoke, make fire or have any fire left behind on draining off fuel.

- I Take out the spark plug, pour about 15~20ml clean engine oil into the cylinder, step down engine and finally fit the spark back on.
- I Put the vehicle in a shady and cool place free from humidity and direct sunshine and cover it properly (but not with plastic or other painted materials).
- I After washing and dry it, all the painting face with one Pre-rust oil.
- I Wash the motor, wipe it dry and apply an even coat of wax to the painted surface. Chromate treatment can prevent the surfaces from rusting.

Using the bike again from the storage

- § Take out the coat, if the storing time is more than 4 months, you should change the oil.
- § If need, after you charge then assemble the battery.
- § Please checking all the item(page10), please keep a low speed driving in the free road.

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VI、 Vehicle identify

Vehicle type, Code and trademark of the bikes (Fig33)

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. (See P3)



Fig33

VII、 The tool set

The tools bag in the boot of seat (Fig34), for the urgent need in driving,

It including the something of the following:

- 8×10 spanner 12×14 spanner
- Screwdriver hexagon spanner
- Wrench bar 18.5×17 wrench span



Fig34

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VIII Main technique Parameter

Blank 5

Items	Parameter		Items	Parameter
L×W×H mm	1980×700×1190		Front Tire	120/70-12
Wheel Base mm	1380		Rear Tire	120/70-12
Ground Clearance mm	120		Pressure Of Front	180 kpa
Dry Weight kg	105		Pressure Of Rear	200kpa
Max Load kg	75		Derailleur	Auto Stepless
Turning Angle of Steering Handle °	≤48		Speed Ratio of Derailleur	9.39~26.52
Start speed V=60km/h	Front brake Distance m	Speed-down average m/s ²	Rear brake Distance m	Speed-down average m/s ²
	≤21.78	≥3.4	≤26.86	≥2.7
Max Speed km/h	≤50		Engine Type	139QMB Single Cylinder, four strokes、compulsory air cooled
Economic Oil Consumption	≤2.3 L/100km		Bore/stroke mm	39.0×41.5
Climbing Performance °	≥4.5		Displacement ml	49.6
Gradient of Low Beam °	-1.3%		Clutch Type	Auto centrifugal Block
Battery	12V 7Ah		Oil Capacity L	4.5

Items	Parameter	Items	Parameter
Lubricating Way	Pressure、Splash	Fuse	15 A
Rated Power kW/r/min	2.2/7000	Headlight	12V 18W/18W×2
Max Torque N.m/r/min	3.0/6000	Tail light/Braking light	12V 5W/21W
Compression Ratio	10.5: 1	License plate light	12V 5W
Specification of Spark Plug	C7HSA(NGK) or A7T、A7RT	Turning light	12V 10W×4
Spark Plug Gap mm	0.6~0.7	Fuel No.	Above RQ90
Idling Speed r/min	(1500±150)	Oil Capacity, Gearbox L	0.11
Lubrication Capacity of Crankshaft L	0.8	Gear Oil No.	SAE 80W/90
Lubricities oil Number	SF SAE 15W/40(crankcase)	Gap of air valve mm	0.03~0.05 (cooled)
Ignition	CDI	Start	Electricity/kick start

IX、Circuit diagram

