

# **USER MANUAL**

**SRV 250 V/SRV 250** 

## **CATALOGUE**

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## Safety Precautions for Motorcycles Safe riding rules

1. The vehicle must be inspected before driving in order to

avoid accidents and damage to the parts.

2. The driver must pass the examination of the traffic management department and obtain a driving license consistent with the permitted vehicle before driving. Vehicles are not allowed to be lent to people without a driver's license.

3. In order to avoid the harm of other motor vehicles, the driver should pay as much attention as possible. To this end,

please:

Wearing a bright and conspicuous tight dress

- It is not appropriate to be too close to other motor vehicles.
- 4. Strictly abide by the traffic rules and are not allowed to rush for traffic.
- 5. Most of the accidents occur because of speeding, so the speed must not exceed the maximum speed limit of the road section.
- 6. Turn on the steering light in advance when turning or diverting to attract the attention of others.

7. At intersections, car park entrances and exits and fast lanes, special attention should be paid to driving carefully.

- 8. Random motorcycle modification or disassembly of the original parts, which will not ensure the safety of driving, at the same time is illegal, and will affect the vehicle warranty.
- 9. The configuration accessories must not affect the driving safety and operating performance of motorcycles, especially the

overload of electrical systems is easy to cause danger.

## **Protective apparel**

1. In order to ensure personal safety, drivers must wear safety helmets, protective glasses, as well as riding boots, gloves and protective clothing. Attendants are also required to wear safety helmets and hold on to the armrest of the occupants.

2. During riding, the exhaust system becomes hot, and it is still hot for a while after stopping the engine. Do not touch the exhaust system during blanching.

3. Do not wear lenient clothes that may be tripped by control rods, pedals, or wheels while driving.

## Wear safety helmet

The helmet, which meets the safety and quality standards, is the first item of bicycle body protection equipment. The worst car accident was a head injury. Please be sure to wear a safety helmet, and it is best to wear protective glasses.

## Precautions for riding on rainy days

Special attention should be paid to the slippery roads on rainy days, because the braking distance is longer on rainy days. Avoid paint, manhole cover and oily pavement when driving to avoid skidding. Be particularly careful when passing through railway crossings, railings and bridges. If the condition of the road cannot be clearly judged, the driving should be slowed down.

Motorcycle serial number

Frame numbers and engine numbers are used to register motorcycles. When ordering accessories or entrusting special services, this number can enable QJMOTOR dealer maintenance department to provide you with better service.

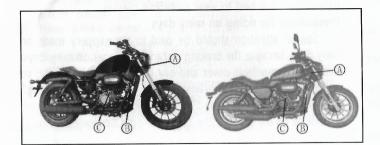
(A) Frame VIN number engraved position: right side of the front pipe.

(B) Product sign riveting position: frame right front bend.

© Engine model and production flow number engraved position: the upper part of the right box of the engine crankcase.

Please record the number for reference.

Frame	VIN	number:	date 2 or	ateem (
Engine	nur	nber:	11051070	le book



#### Parts Location

(1) Rearview mirror

(14) Oil filling port

(2) Clutch lever

(15) Rear brake fluid reservoir

(3) Left handle switch

(16) USB interface (17) Cushion lock hole

(4) Instrument (5) Ignition switch

(18) Shift pedal

(6) Front brake fluid reservoir (19) Side stand

(7) Right handle switch (20) Front brake

(8) Front brake handle

(21) Rear brake

(9) Throttle control grip (10) Fuel tank

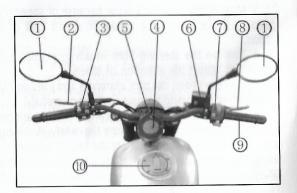
(22) Front wheel ABS wheel speed sensor

(11) Rear brake pedal

(23) Rear wheel ABS wheel speed sensor

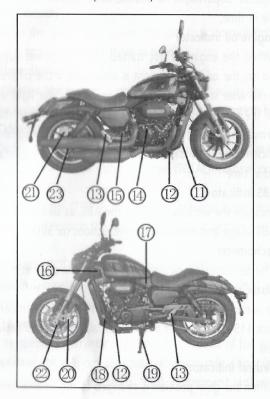
(12) Rider's pedal

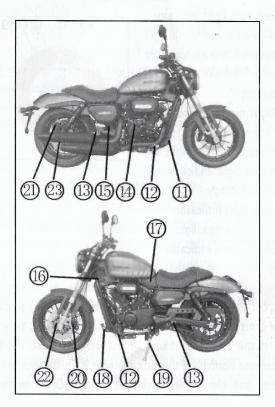
(13) The passenger pedal



## SRV 250 (chain drive) model Status

SRV 250 V (belt drive) model Status





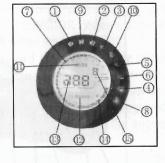
#### Instruments

## (1) Left turn light indicator

When the turn signal light is turned left, the left turn light indicator will flicker accordingly.

## (2) Right turn light indicator

When the steering signal light is turned to the right, the right turn light indicator will flicker accordingly.



## (3) High light indicator

When the headlight is lit, the high light will be lit.

#### (4) Engine fault indicator

When the key starts, the indicator lights on and the oil pump works for 3 seconds, the motorcycle starts. If the indicator light goes out after the motorcycle starts, the vehicle is normal and there is no fault; if the indicator light is on, there will be a fault. Also in the course of driving, if the indicator light is off, the vehicle runs normally, if the indicator light is on, the vehicle needs to stop and check, please contact the QJMOTOR motorcycle

distribution department or maintenance center to check the vehicle in time.

## (5) Engine oil indicator

When the engine is not started after the power supply is turned on, the oil indicator light is always on; if the oil pressure is normal after starting the engine, the oil indicator light will go out; if the oil indicator light is not off, the oil pressure may be abnormal and need to stop and check; when the engine oil is insufficient, the oil indicator will be lit so that the oil can be added in time.

#### (6) ABS indicator:

Indicate the working status of the ABS, as described later in the ABS usage and maintenance instructions (p. 30).

#### (7) Tachometer

The tachometer indicates the speed of the engine.

## (8) Water temperature display

If the water temperature is abnormal (the water temperature exceeds 115  $^{\circ}$ C), the water temperature alarm light will be lit and alerted.

#### (9) Neutral indicator

When the gear position is changed to the neutral position,

the neutral indicator "N" will be lit accordingly.

## (10) Fuel display

When the fuel is insufficient, the fuel indicator will light up the alarm and flicker when there is no oil.

## (11) Time display

Displays the current time. If you need to adjust the time, see the serial number (16) **Instrument adjustment button** below.

## (12) Odometer

Depending on your needs, you can select the small mileage (TRIP A or TRIP B) or total mileage (TOTAL) feature on the odometer.

Small mileage (TRIP A or TRIP B): a mileage meter that can be cleared and records the range mileage for a certain period of time.

Total mileage (TOTAL): records all mileage that has been driven, optional in kilometers (km) or miles (miles), as described in the following "(16) instrument adjustment button".

#### (13) Speedometer

The speedometer indicates the current speed of the vehicle. The optional unit is kilometer / hour (km/h) or mile / hour (mph), as described in the following "(16) instrument adjustment

#### button".

#### (14) Fuel indicator

Indicates how much oil is stored in the tank. When filling up the fuel, show 6 squares of oil level, when the fuel level is insufficient, the oil level is 1 grid or less than 1 grid, the last grid will flicker, and the fuel alarm light will be lit.

## (15) Gear indicator

Shows the current gear of the vehicle, with 1, 2, 3, 4, 5, 6, (blank). When the transmission is in a neutral position, the neutral indicator lights up.

## (16) Instrument adjustment button

The instrument adjustment button is turned on and off by the left hand of the vehicle. Can carry on the total mileage and the relative mileage switch, the gram mile switch, the clock adjustment and so on the function.



Short press the "SELECT" button to switch between the Total mileage (ODO) and the relative mileage (TRIP A, TRIP B)

In the relative mileage (TRIP A, TRIP B) state, press "SELECT" for a long time to clear the relative mileage; in the total mileage

(ODO) state, press "SELECT" for a long time, odometer and speedometer male mile unit switch

Press the "ENTER" button for a long time, the time monitor enters the time adjustment interface, the clock hour bit flashes, the "ENTER" button is pressed short after the "SELECT" button is pressed to adjust the hour bit, the clock minute bit flicker on the time display, the "ENTER" button is pressed short after the "SELECT" button is pressed to adjust the minute bit, the clock minute bit flashes on the time monitor, and the SELECT button is short pressed to adjust the minute bit. Finally, press "ENTER" exit time to adjust the interface for a long time.

## **Operation Guide**

## Key

This car comes with two keys, which can be used to start the motorcycle and open all the locks. One key is for use. Please leave the other key in a safe place.

Press button ① on the key to extend or recover the key head.



#### Power lock

## Warning:

Don't hang O-shaped rings or other things on the key, because they may hinder rotation. Never rotate the key while the vehicle is driving, or the vehicle will lose control. For safety, check to see if there is anything that will hinder your handling of the vehicle before driving.

"
Mark. The key turns. "
Mark the position, cut off the power supply, the engine cannot start, and the key can be taken out.



"O"Mark. The key turns. "O "Mark the position, the power is turned on, the engine can start, and the key cannot be taken out.

"D"location: the key is here." when marking the position, turn the direction to the left, press the key down and rotate counterclockwise at the same time. The position, the faucet lock protrudes out the lock core, locks the faucet, the key can be taken out.

#### Note:

To prevent theft, please lock the steering and remove the key when you stop the vehicle. After locking, gently turn the direction to confirm whether it is locked. Please don't park in a place that hinders traffic.

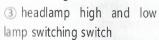
#### Left handle

clutch lever

When starting the engine or shifting gears, hold the clutch lever to cut off the drive to the

rear wheel.

Press the horn button and the horn rings.



The headlamp switch is pressed to the high and low lamp. "
When in position, the headlight is lit, and the far light on the dashboard is lit; press the switch." Twhen in position, the headlight is lit up. When riding in the urban area or coming to the front of the car, you should use a low light to avoid affecting

the other side's line of sight.

4 steering signal light switch

Press the steering signal switch. "or" the signal lights that turn left or right flicker. At the same time, the green steering indicator on the dashboard flashes accordingly. When removing the steering light signal, dial the steering signal light switch to the middle or press the switch down.

## Warning:

When you want to change the driveway or turn, turn on the steering lights in advance and make sure there is no rear vehicle passing through. After switching lanes or turning, turn off the steering signal lights in time so as not to affect the normal driving of other vehicles and avoid accidents.

(5) overtaking lamp switch

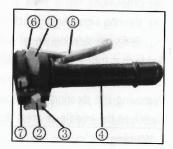
Press this button continuously during rendezvous or overtake with the vehicle, and the headlights will shine continuously to warn the vehicle ahead.

(©instrument adjustment button See page 5, "(16) instrument adjustment button".

## Right handle

① starting / Flame out switch Switch to " O "position, the whole vehicle circuit is turned on, the engine can start.

Switch to " position, the whole vehicle circuit is cut off, the engine cannot start.



## 2 light switch

Pull the switch to "" "position, headlights, front lights, rear lights and license lights are lit; dial to." "OOE "position, front lights, rear lights and license plate lights are lit; dial to the rightmost position and the lights go out, often used to drive during the day.

③ electric starting button

Press the electric starting button, the electric motor runs, start the engine.

4 throttle control grip

Throttle control grip is used to control the speed of the engine. When you want to accelerate, turn the handle in your own direction, while turning in the opposite direction slows down.

(5) front brake handle

Hold the brake handle of the right handle slowly when braking.

6 front brake handle regulator

According to the need of operating comfort, the position of the front brake handle can be adjusted by

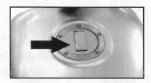


adjusting the knob position by the ring nut. Adjust one of the four optional positions, just gently move the front brake handle horizontally to the front, and then rotate the ring nut regulator to align the arrow (A) The position of the front brake handle is the furthest from the throttle control handle, and the position 4 front brake handle is the closest to the throttle control handle.

#### Fuel tank refueling

When the fuel monitor flashes on the instrument, it should be refueled.

When refueling, first open the dustproof cover of the fuel



tank cover, and then insert the fuel tank key to rotate clockwise, together with the key to open the fuel tank cover. After adding oil, when you want to close the fuel tank cover, please direct the pin to the fuel tank cover, and then press down, you can close the fuel tank cover until the key is removed when you hear the lock sound, and close the fuel tank cover dust cover.

#### Warning:

The fuel tank shall not be overfilled (90% of the total volume of the fuel tank is recommended by the factory). Please do not exceed the specified position of the refueling upper limit shown in the following figure, do not splash fuel on the thermal engine, otherwise it will cause abnormal operation of motorcycles or dangerous accidents.

When refueling, turn off the engine and transfer the ignition key to  $\boxtimes$  "(off) position.

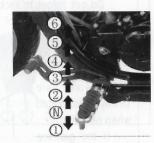
Do not forget to lock the lid of the fuel tank to prevent excessive evaporation of fuel into the atmosphere, which wastes energy and Reservoir port Specified position of upper limit for pollutes the refueling environment Schematic diagram Fireworks are of fuel tank strictly prohibited when refueling.

If the gasoline spills into the carbon tank and other parts, please go to the dealer maintenance department to clean up or replace the carbon tank as soon as possible, because too much gasoline into the carbon tank will lead to the premature failure of activated carbon.

Often check the fluency of the lower nozzle of the fuel tank cover to ensure the smooth drainage and avoid the external moisture from entering the inner cavity of the fuel tank.

#### Shift pedal

This type of motorcycle adopts the usual meshing six international gear (non-cycle) shift mode, the operation is shown in the figure. The neutral is located between the low speed gear and the second speed gear, stepping down from the foot tip



of the neutral and hanging into the low speed gear; each time the tip of the foot picks up the shift pole, it moves into the next high grade; each step on the tip of the foot moves into the next low gear.

Because of the use of ratchet mechanism, it is not possible to improve or reduce multiple grades at one time.

#### Be careful

When the transmission is in a neutral position, the overhead indicator light will be lit and the clutch rod should still be released slowly to determine whether the transmission is indeed in a neutral position.

#### Rear brake pedal

Step on the rear brake pedal and the rear wheel acts as a brake. When the rear brake is manipulated, the brake lamp will



be lit.

#### Side stand

The stand is on the left side of the vehicle. Please kick the stand in place with your feet when you stop. The side stand has the function of automatic flameout: when the side stand is standing in the vehicle (the side stand is turned on), the engine can not start or turn off automatically, only by putting the stand away, the engine can start normally.

#### Note:

Do not hold the vehicle on a sloping slope, or the vehicle may overturn. Please check the position of the stand before parking the vehicle.

#### Tool kit

The vehicle tool is placed under the cushion. Using on-board tools, you can carry out some on-the-road repairs, small adjustments and parts replacement, and so on.

#### **USB** interface

The left front of the vehicle is equipped with a (5V/2A) USB interface that can be used to charge components such as mobile phones.



#### Rear shock absorber adjustment

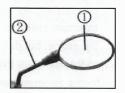
The rear shock absorber is mainly composed of shock absorber spring and spring preloading, which can be adjusted according to the driver's wishes, bearing condition and road conditions, and the side bracing frame for motorcycle can be stabilized when adjusting.



According to the condition of the road, in order to increase the comfort of the driver, the spring preloading can be adjusted by adjusting the nut at the upper end of the shock absorber (figure ①). The adjusting nut is adjusted upward, the preloading becomes smaller, and the shock absorber is softened properly; the adjusting nut is adjusted downward, the prepressure of the shock absorber becomes larger, and the shock absorber becomes hard properly.

#### Adjustment of rearview mirror

Rotating the rearview mirror frame 
and the mirror rod 2 can adjust the rearview mirror angle. Adjust the rearview mirror frame and rod properly until you can see the back clearly.



#### Cushion Loading and unloading

Insert the key into the left middle seat pad keyhole ① of the vehicle, rotate the key clockwise, gently lift the seat pad and push back and pull back to remove the seat pad.



When you want to install the cushion, push the cushion back forward, let the hook in the front of the cushion aim at the limit plate on the frame, and then press the back of the cushion down to install the cushion.

## Instructions for the use of fuel and oil

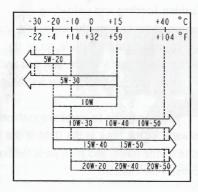
#### Fuel

Please use unlead gasoline. Gasoline should use gasoline with octane number 87 and above. If the engine makes a slight detonation, it may be using a normal grade of fuel, which should be replaced.

#### Note:

The use of unlead gasoline can prolong the service life of spark plugs.

**Engine oil** 



Please use a fully synthetic engine oil that conforms to or exceeds the SJ level and has high cleanliness and high performance. The factory recommended model is SN 15W-50. [the loss of engine failure caused by the purchase of all synthetic oils other than our company will affect the warranty of the vehicle]. Please go to dealer maintenance department to buy this motorcycle special oil. The oil viscosity should be determined according to the temperature in the driving area, and the appropriate oil viscosity can be selected with reference to the diagram.

#### Running-in

#### Top -speed

For new motorcycles, during the running-in driving period of the initial 1500km, do not overrun or suddenly accelerate the engine, suddenly turn and suddenly brake, nor can it make the speed of the engine exceed its maximum speed by 80% in any gear position; avoid the throttle valve body from operating under the condition of full opening.

#### Engine speed change

The speed of the engine should not be fixed, but should be changed from time to time, which helps to match the parts.

During the running-in period, it is necessary to exert appropriate pressure on all parts of the engine to ensure full cooperation. But the engine cannot be overloaded.

#### Avoid running at a low speed on a continuous basis

When the engine continues to run at a low speed (light load), it will cause excessive wear and tear of the parts, resulting in poor coordination. As long as it does not exceed the recommended maximum speed limit, it can be hung into each gear to accelerate the engine, but during the running-in period, it can not be added to the maximum throttle.

## The following table lists the maximum speed during engine running-in

Initial 800 km	Below 5000rpm per minute
Reach 1500 km	Below 7500rpm per minute
More than 1500 km	Below 9000rpm per minute

#### Cycle the oil before riding

Before starting and starting at high temperature and low temperature after operation, the engine should have sufficient idle running time so that the oil flows to all lubricating parts.

## Routine first maintenance inspection

The maintenance of 1000km is the most important maintenance work of motorcycle. all adjustments should be done well, all fasteners should be tightened, and the dirty oil should be replaced. Timely 1000km maintenance will ensure long service life and good performance of the engine.

#### Be careful:

1000km Maintenance shall be carried out as described in the section "Inspection and repair". Special attention should be paid to "caution" and "warning" in the section "Inspection and maintenance".

Initial running-in to 1000km, please entrust distributor maintenance department to replace oil filter, change oil, clean filter net, etc. (follow-up maintenance mileage requirements according to "maintenance odometer" implementation). At the same time,

the oil level should be checked on a regular basis. If you need to add it, you should add a special oil or the engine oil specified in this specification.

#### Pre-riding inspection

Before driving a motorcycle, be sure to check the following. The importance of these examinations must not be ignored. Finish all the inspection items before driving.

Content	Check points					
Direction handle	1) smooth 2) flexible rotation					
Direction nandle	3) No axial movement and loosening					
	1) the handle and brake pedal have the					
	correct clearance					
Brake	2) there is no sponge feeling of poor					
	braking					
	3) No oil leakage					
	1) the wheel tire is pressed correctly					
Tires	2) appropriate tread depth					
	3) No cracks or wounds					
Fuel stock	Enough fuel storage for the planned					
	distance distance					
	Operate all lights-headlights, position lights,					
Light	brake lights, instrument lights, steering					
	lights, etc.					

indicator light	Far light indicator, gear indicator, steering indicator
Horn and brake switch	Normal function
Engine oil	The oil level is correct
Throttle	<ol> <li>the throttle cable has an appropriate clearance</li> <li>the refueling is smooth and the oil is shut down quickly.</li> </ol>
Clutch	<ul><li>1) appropriate cable clearance</li><li>2) smooth operation</li></ul>
Drive chain (chain drive model applicable)	1) tight fit 2) proper lubrication
Drive belt (belt drive model applicable)	tight fit, no cracks     No impurities such as gravel
Coolant	Height inspection of coolant storage

## Riding Motorcycle Engine Starting

Rotate the ignition switch key to " in position, and make sure that the transmission is in an empty position and that the

indicator light over the instrument is lit.

Press the right handle to start the switch. " O "when the throttle is closed, press the piezoelectric starting switch to start the engine.

#### Be careful:

The clutch lever should be clenched when the transmission is in neutral position and the engine should be started.

## Warning:

Do not turn on the engine in a room where there is no good ventilation or no ventilation. In the absence of attention, you are not allowed to leave the starting motorcycle for a moment.

#### Be careful:

When you don't drive, don't let the engine run too much, or it will overheat and may damage the internal components of the engine.

#### Starting

Put away the stand, hold the clutch grip, stop for a few seconds, step down the gearshift lever and hang it up. Rotate the throttle control handle in its own direction, at the same time, slowly and smoothly release the clutch lever, and the motorcycle will begin to move forward.

#### Gear shift

The variable speed device can make the engine run smoothly in the normal running range. The driver should choose the most suitable speed change under general conditions. You can't slide the clutch in order to control the speed. It's better to slow down and make the engine run within the range of normal operation.

## Riding on a ramp

When crawling steep slopes, motorcycles begin to slow down and appear underpowered, so that the engine will run within its normal power range and shift quickly to avoid losing momentum.

When downhill, the engine changes to a lower gear and is easy to brake. Be careful not to overspeed the engine.

#### Brake

## Use of brakes and parking

To completely close the throttle, release the throttle control grip, and evenly use the front and rear brake. The speed of the gear is low and the speed is reduced.

Before the motorcycle stops, hold the clutch lever (disconnected position) and put on the neutral. Observe the neutral indicator to see if it is a neutral.

#### Note:

Inexperienced drivers tend to use only rear brakes, which will accelerate wear and tear and make parking distances too long.

## Warning:

Using only the front brake or the rear brake is dangerous and may cause skidding or losing control. Be particularly careful and use dense multi-point brakes on slippery roads and all bends. It is particularly dangerous to use brakes to brake urgently.

Motorcycles should be parked on solid, flat ground. Don't park in a place where traffic is blocked.

Turn the ignition switch to " $\bowtie$ " "position to turn off the engine. Lock the steering to prevent the vehicle from being stolen. Remove the key from the ignition switch.

#### Inspection and maintenance

The following table shows the regular maintenance time limit for the number of miles (km). At the end of each time limit, inspection, inspection, lubrication and required maintenance must be carried out in accordance with the specified methods. Steering gear system, support and wheel system are key components and require careful repair by skilled personnel. For safety reasons, we recommend that you entrust the distribution department or maintenance service center to carry out inspection and maintenance.

Maintenance schedule: I: inspection, cleaning, adjustment, lubrication or replacement C: cleaning R: replacement A: adjustment L: lubrication

	Period	Maintenan ce mileage			Odome	eter readings (	(note 2)		
Conter Mainte	enance Item	NOTES.	1000km	4000km	7000km	10000km	14000km	17000km	Refers to para. Pages
*	Fuel path	raidréi feireal	e Louise	12119		1		1	
*	Fuel filter	om the igning	Vay Cili avi	C	С	С	С	С	
*	Throttle operation				1	1	1	ive an bale is	19
Pirila	Air filter	Note 1			R		R	159 0 10 203	24
**	Spark plugs		The second second	9 1 1 1 1 1	R		R	(a) All gald (u	19
**	Valve clearance			Per 25000km:l			verly use th	1371	
	Engine oil		R		R		R	and the spe	12、18-19
	Oil filter		R	1-30	R	retrans	R	property along	18
*	Oil filter		С	С	С	С	С	C	
**	Cooling system								25
*	Drive chain	Note 3	1		Pe	r 1000km:l, L,	Α		20-21
*	Drive belt	Note 3	1	I 、A		I 、A		I A	21

	Period	Maintenan ce mileage	aced) or i <b>31.</b> (1) <b>When_re</b> l	lepi	Odome	eter readings	(note 2)	nd gill, excho	Edevaldo. Nado
Cont Mair	tent ntenance Item	NOTES.	1000km	4000km	7000km	10000km	14000km	17000km	Refers to para. Pages
Total	Brake wear	Ymmoe ragis	i Use the	1		I	I I		22
**	Braking system	ort act make or	I. A	I, A	I. A	I. A	I. A	I 、A	22
	Headlamp beam adjustment	wifee are meet	atsici (noi)	20g   U			19 19 19 19 19 19 19 19 19 19 19 19 19 1	Madanada isi	29
	Clutch device	and the second second	can I make		1900	1	JUS MASSI	u saddh aur	19-20
MOTO SA	stand	HT WITE TOWN	JIII JULIUS			1 51 00	1,547,14,5862	SOUTH LANS	10
*	Shock absorption system	erio e el finacción	ven 6 est 6 3 Use 3 nev	u I		I	cangolià lio l	na sa Lego s	11
*	Nuts, bolts, fasteners	Note 3	of the bridge	od iii		umetyadtar	grive o sign	portugato n	1. 11. 11.
**	Wheel / ring	Note 3	as Lain's	I		TORKS HE SAME	THE WATER COMMITTEE	ALDONA SOLL	7 - 7-70-7
**	Steering gear		I		0	468489-34	9-10-63 1-03/19/2011	1 / () - 1 / (66.1%)	10 10 10 10 10

\*Must be carried out by the distribution department or maintenance service center: the owner shall provide his own qualified tools and vehicle inspection information, and shall be overhauled by the holder of the mechanical worker's certificate, if repaired by himself Reference should also be made to the manual.

\*\*For all this project, it is recommended that it be overhauled by the distribution department or the maintenance service center for safety purposes.

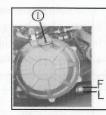
Note: 1. Traffic in dusty areas should be overhauled. Especially for the air filter maintenance cycle needs to be shortened, the first maintenance according to 500km, subsequent each1000km carries on a cleaning / cleaning.

2. If the odometer reading exceeds this value, repeat the continuous check of the schedule shown in this table.

3. Often driving in concave and convex road conditions such as bad conditions, in order to maintain the good performance of the car must be carefully maintained.

#### Oil level and oil exchange of engine

Check the engine oil level before starting the engine. When checking the oil level, let the car stand upright on a flat ground and observe through the oil window whether the liquid level is between the scale L and the F range. When the oil level is lower than the lower calibration line

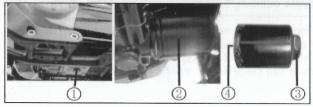


L position, the upper refueling port cover ① should be opened and the oil should be added to the top calibration line F position. **Replacement of oil and oil filters:** 

#### Note:

When changing the oil, when the temperature of the engine is not cooled, the body should be supported by the support frame (to ensure that the motorcycle is in the horizontal plane and keep the body vertical) to ensure that the oil is discharged quickly and completely.

The engine oil capacity is about 1.5L, 1.1L (no oil filter is



replaced) or 1.3L (oil filter is replaced at the same time).

(1)When releasing oil, put the drain basin below the oil position, remove the oil discharge bolt ①, thoroughly put the oil in the box, reinstall the oil discharge bolt, and replace the oil filter ② according to the following steps:

- 1. Use the caliber 30mm sleeve or wrench lamp to remove the special tool to jam the front part of the oil filter (figure ③ position), rotate counterclockwise and remove the oil filter that needs to be replaced.
- 2. Wipe the oil filter and the installation surface of the engine with a clean cloth.
- 3. Use a new oil filter of the same model and apply a layer of lubricating oil to the O-ring (figure ④ position).

#### Note:

Please do not remove the O-ring of the oil filter, as this will cause the sealing ring to not be installed in place, resulting in oil leakage or engine damage.

- 4. Install the new oil filter on the engine by hand until the hand does not work, and then tighten the oil filter with a torque wrench with 20N.m torque.
- (2) Inject about 1.3L of oil into the engine until the oil reaches the upper limit of the oil scale.
  - (3) Put in the oil refueling cover.
  - (4) Start the engine, let the engine turn at idle speed for a

few minutes, and then turn off the engine.

- (5) Check the oil quantity position of the oil scale again, the oil level must reach the upper limit mark position, at the same time, there is no oil leakage phenomenon in the engine.
  - (6) If there is a splash of oil, please wipe it clean.

## Spark plug

At the beginning of the riding 1000km, and each time 3000km is driven, the carbon deposit attached to the spark plug is removed with a small metal wire brush or spark plug cleaner, and the electrode gap of the spark plug is readjusted with the spark plug gap thickness measuring piece to keep it between the 0.7~0.8mm.



Spark plug model: CR8E

#### Be careful:

Do not screw the spark plug too tightly or interlaced the threads so as not to damage the threads of the cylinder head. When removing the spark plug, do not allow impurities to enter the engine through the spark plug.

## Adjustment of throttle cable

1. Check the throttle control grip from the full open position

to the fully closed position to check whether the throttle control handle rotates flexibly

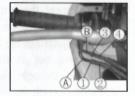


on the left and right sides of the full steering position.

2. Measure its free travel in the throttle control grip flange. The standard free stroke should be 10  $^{\circ}$  ~ 15  $^{\circ}$ .

The car is equipped with two-wire structure throttle cable, throttle cable (A) It's a refueling line, throttle cable. B) It's back to the throttle line. Please follow these steps to adjust the free stroke of the throttle grip:

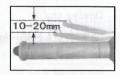
- (1) Remove the throttle cable dust proof sleeve.
- (2) Loosen locking nut ③.
- (3)Complete precession adjustment nut 4.
  - (4) Loosen the locking nut ①.
- (5) Turn the adjusting nut ② so that the throttle controls the free stroke of the grip from 10 °to 15 °.



- (6) Tighten lock nut ①.
- (7) Adjust nut 4 so that the throttle grip rotates flexibly.
- (8) Tighten lock nut 3.

#### Clutch adjustment

The free stroke of the clutch shall be 10~20mm before the clutch begins to loosen and the position of the end of the clutch grip shall prevail. If an anomaly is found, the handle end of the



clutch cable can be adjusted as follows:

- (1) Remove the clutch cable dustproof sleeve.
- (2) Loosen the locking nut ①.
- (3) Spin in or out of the adjustment screw ② to make the clutch free travel up to the prescribed requirements.



(4) Tighten lock nut ①

If the handle end of the clutch cable can not meet the requirements of free travel when the handle end of the clutch cable is adjusted to the limit position, then the locking nut at the engine end is connected through the cable. And adjusting nuts B To adjust.



#### Engine idle speed adjustment

The stepping motor in the motorcycle automatically adjusts the idle speed to the appropriate range. If you need to adjust, please contact Reseller maintenance Department.

#### Driving chain

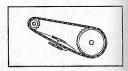
#### (QJ250-12A chain drive model is suitable for)

The service life of the drive chain depends on proper lubrication and adjustment. Improper maintenance may lead to

premature wear of drive chains and sprockets. In harsh use, it must be maintained frequently.

#### Adjustment of the drive chain:

For each driving 1000km, adjust the drive chain so that the sag of the chain is 10~20mm. Depending on your driving condition, the chain may need to be adjusted frequently.

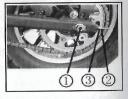


#### Warning:

These suggestions are the maximum adjustment time interval, in fact, the adjustment chain should be checked before each driving. Excessive relaxation of the chain may cause an accident of unchaining from the chain or cause serious damage to the engine.

Please adjust the chain as follows:

- (1) Support the motorcycle with a support frame.
- (2) Loosen rear shaft nut ①.
- (3) Loosen the locking nut ②.
- (4) Turn the adjustment bolt ③ to the right or left to adjust the relaxation of the chain. At the same time, the front and rear sprocket must be aligned into a straight line while



adjusting the chain. To help you with this adjustment process, each

chain regulator is engraved with a reference mark, check and make sure that the reference mark on both sides of the chain is at the same level. After the base mark on both sides aligns and adjusts the relaxation of the chain to 10~20mm, the rear shaft nut should be re-fixed and the final inspection should be carried out.

#### Note:

When a new chain is replaced, it is necessary to check whether the two sprockets are worn or not and, if necessary, to replace them.

During regular inspection, the chain checks the following conditions:

- (1) Loose pin
- (2) Damaged roller
- (3) Dry, rusty and broken links
- (4) A twisted or bitten link.
- (5) Excessive damage
- (6) Adjust the loose chain

If the above problems occur in the chain, then the sprocket will be most likely to cause damage to it. Check the sprocket for the following:

- (1) Over worn gear teeth
- (2) Broken or damaged gear teeth
- (3) Loose sprocket fixing nut.

#### Cleaning and Lubrication of driving chain

Use dry cloth and motorcycle chain cleaning agent to clean the chain. Clean the dirt on the chain with a soft brush. After cleaning, dry and fully lubricate the chain with a special lubricant for the chain.

#### **Driving belt**

#### (QJ250-12 belt drive model suitable)

Before riding, check whether the belt is working properly, check that the belt has wound cracks and other anomalies, and clean up the sediment, gravel and other impurities in the inner or surface of the belt teeth in time

#### Note:

To keep the driving belt dry, do not remove the belt shield, if the belt is wet, please dry or blow dry in time, do not drive violently when the belt is wet and slippery.

Please do not lubricate the belt.

Drive belt adjustment needs to use professional tension instruments, if there is any damage or adjustment of the drive belt, please contact motorcycle dealer, do not adjust the belt tension on your own.

#### Warning:

Do not adjust the drive belt on your own, incorrect operation may make the belt kink or flip, easy to lead to belt fracture.

#### Brake

The vehicle is equipped with a two-channel ABS disc braking system before and after configuration. Correct braking operation is very important for safe riding. Remember to check the braking system regularly, and this inspection should be carried out by the qualified maintenance service center.

## Adjustment of brake

- (1) The free stroke of the end of the front brake handle should be 10~20mm.
- (2) Measure the distance of the brake pedal when the brake begins to brake. The free itinerary should be: 20~30mm.

#### Friction plate

The main point of checking the friction plate is to see if the friction plate in the front brake clamp ① and the rear brake clamp ② is worn to



10-20mm

the bottom line mark of the slot ③. If you grind this mark, you should replace the new friction plate.

### Brake fluid

The liquid level is reduced because the liquid stored in the cylinder is automatically injected into the brake



hose after the friction disc is worn out. The front fluid reservoir is installed above the right handle of the vehicle, and if the liquid level is below the lower limit calibration line of the liquid cup or the lower limit mark of the liquid cup liquid level MIN, the specified brake fluid shall be added as appropriate; the rear fluid reservoir shall be installed in the middle of the right side of the vehicle, and the liquid level of the rear fluid reservoir shall be between the MIN (or LOWER) and MAX (or UPPER) engraving lines, and if the liquid level is lower than the MIN (or LOWER) engraving line, the specified brake fluid shall be added. Supplementary brake fluid should be considered necessary for regular maintenance.

#### Be careful:

This car uses DOT4 brake fluid. Do not use the residual liquid from the open cylinder and the brake fluid left behind by the last maintenance, as the old liquid will absorb water from the air. Be careful not to splash the brake fluid on the paint or plastic surface, it will erode the surface of these substances.

#### Braking system

The braking systems that should be checked on a daily basis are as follows:

- (1) check whether there is leakage in the front and rear wheel braking system.
- (2) Brake handle and brake pedal to maintain a certain reverse support force.
- (3) to check the wear condition of the friction plate. If the groove bottom line scratches are exceeded, the two friction plates should be replaced together.

#### Warning:

If the braking system or friction disc needs to be repaired or replaced, we suggest that you hand over the work to the maintenance service center. They have a full range of tools and skilled skills to do the job in the safest and most economical way. When the new disc friction disc is first replaced, the brake handle is grasped several times, so that the friction plate is fully stretched and the normal handle back support force is restored, and the brake fluid is stable and circulating.

#### Tires

Correct wheel tire pressure will provide maximum stability, driving comfort, and tire durability. Check the tire pressure and adjust it as necessary.

Front tire wheel tire pressure	220 ±10 kpa
Rear tire wheel tire pressure	250 ±10 kpa

#### Note:

Check the tire pressure before cycling in the "cold" state of the tire.

The depth of the pattern on the crown pattern of the tire should be greater than or equal to 0.8mm, and if the wear is less than 0.8mm, the new tire should be replaced.

## Warning:

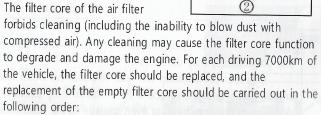
Do not try to repair the damaged tires. Wheel balance and tire reliability may deteriorate.

Improper tire inflation will lead to abnormal tread wear and threaten safety. Insufficient tire inflation may cause tire skidding, or tire detaching, or even damage to the wheel ring, which may lead to control failure and lead to danger.

It is a dangerous thing to drive a motorcycle under the condition of excessive tire wear, which is not conducive to ground adhesion and driving.

#### Maintenance of air filter

The air filter is located below the fuel tank on the right side of the motorcycle. If the air filter is blocked by dust, the intake resistance increases and the output power decreases, while the fuel consumption increases. In order to achieve the best filter effect, please often check the cleanliness of the filter core.



- (1) remove the fixing screw 1 from the edge cover of the empty filter, remove the edge cover of the empty filter, and you can see the paper filter core 2
  - (2) removal of paper filter core
  - (3) replacement of new paper filter core.
  - (4) install the cleaned air filter elements in the reverse order



removed.

It must be confirmed that the air filter elements are installed firmly in their original position and are properly sealed.

#### Warning:

The filter core of the air filter forbids cleaning (including the inability to blow dust with compressed air). Any cleaning may cause the filter core function to degrade and damage the engine. The filter core is replaced for each driving 7000km of the vehicle.

Replacing the paper filter core must not let the filter core be stained with oil or water, otherwise it will make the filter core block and fail. It is recommended that you hand over the work to the motorcycle distributor to complete the work.

#### Be careful:

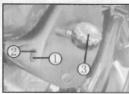
If the motorcycle is driving in a more humid or dusty environment than usual, or according to other driving conditions, it is necessary to shorten the interval period of filter core replacement, such as filter core blockage, breakage, ash penetration, obvious engine power decline, fuel consumption increase and so on, it is necessary to replace the filter core immediately, cannot wait until the maintenance time to deal with.

Starting the engine without installing an empty filter will cause dust to carry on the cylinder and damage the engine.

#### Coolant

Recommended coolant model: FD-2.

When the new car leaves the factory, the coolant has been loaded, and attention should be paid to checking the liquid level height of the coolant in the expansion kettle during maintenance.



When the coolant becomes muddy or to the maintenance cycle, please entrust the dealer maintenance department to replace the coolant in time.

The coolant expansion kettle is located in the front part of the right side of the vehicle, and the liquid level height of the expansion kettle coolant should be checked regularly.

Check the expansion kettle coolant after the engine is turned off and cooled. When checking, make sure that the motorcycle is in the horizontal plane and keep the body vertical. Observe whether the coolant level is between the lower limit (figure ①) and the upper limit (figure ②) mark mark. If the liquid level of the coolant is below the lower limit mark, remove the expansion kettle cap (figure ③) and add the coolant, or add the coolant to the dealer maintenance department.

#### Warning:

When the engine is turned off and cooled, the coolant can

only be added. To avoid scald, do not open the coolant nozzle cover before the engine is cooled. The cooling system is under pressure. In some cases, the substance contained in the coolant is flammable, and when ignited, an invisible flame will be produced. Because combustion can lead to severe burns after coolant leakage, it is necessary to avoid coolant leakage on high-temperature motorcycle parts.

Because coolant is highly toxic, avoid contact with and inhalation of coolant and keep it away from children and livestock. If inhaled coolant, seek medical treatment immediately, if skin or eye accidentally contact coolant, should immediately wash with clean water.

#### Catalytic converter

In order to meet the needs of environmental protection emissions, the silencer is equipped with catalytic converter.

The catalytic converter contains precious metals, which can purify harmful substances in motorcycle exhaust, including carbon monoxide, hydrocarbons and nitrogen oxides.

Because the catalytic converter is very important, the faulty catalytic converter can pollute the air and damage your engine performance. If you need to replace it, please remember to use pure parts or entrust dealer maintenance department to replace it.

#### Note:

The catalytic converter is located in the high temperature area, do not touch.

#### Carbon Canister

This model is equipped with motorcycle fuel evaporation control device: carbon tank.

The carbon tank is located under the radiator tank on the right side of the vehicle. The carbon tank is filled with activated carbon particles that can adsorb vapor. It can effectively inhibit the volatilization of excess fuel vapor into the atmosphere in order to achieve the purpose of saving fuel and environmental protection.

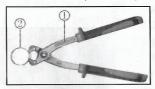
If the gasoline spills into the carbon tank and other parts, please go to the dealer maintenance department to clean up or replace the carbon tank as soon as possible, because too much gasoline into the carbon tank will lead to the premature failure of activated carbon.

#### Radiator pipe clip loading and unloading

When the radiator clamp is removed, a special clamp ① is needed to reinstall the clamp ②, otherwise the clamp will not be assembled in place and the vehicle will fail.

Radiator pipe clamps are disposable clamps. When the clamps are removed, the old disposable clamps can not be

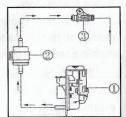
reused, and the plate clamps can be reused.





## Fuel injector and oil circuit

There is an interface on the fuel pump ①, and the fuel oil enters the injector ③ through the fuel filter ② from one of the fuel pump interfaces, and finally injects oil and gas into the engine intake pipe.

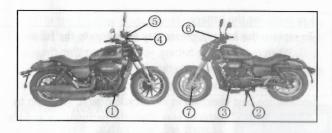


Please follow the right diagram

to connect the connection method of the inlet and return pipes.

#### Parts lubrication

Proper lubrication is very important to maintain the normal operation of vehicle parts, prolong their service life and drive safely. After driving for a long time or after the motorcycle has been wet or cleaned by Rain Water, we suggest that you do a lubrication and maintenance of the motorcycle. The main points of specific lubrication and maintenance are shown in the following figure:



Z Grease

- ① Rear brake pedal shaft <a>Z</a>② Side stand joint and spring hook <a>Z</a>
- ③Shift pedal pin shaft ☑

④throttle cable ★

- 5Front brake handle pin shaft26 clutch lever (pin shaft)1

#### Note:

The above lubrication projects marked with "★" shall be operated by the professional service technicians of the maintenance department of Reseller.

#### Battery

The battery is located under the cushion. The battery equipped with this car is valve-controlled wet load free battery, it is strictly forbidden to pry open the shell. There is no need for rehydration before and during use.

Please read and observe the following considerations before use:

- 1. The battery terminal voltage is detected for the first time. When the voltage is less than 12.6V, the charging voltage is 14.4 ±0.02V, the charging limit current is 10A, and the charging current is reduced to 0.2A (or the relevant parameters are printed on the surface of the battery). During the charging process, the battery temperature is higher than 45 °C, the charging should be stopped immediately, and the charging should be recharged after the temperature drops.
- 2. The battery terminal is positive in red and negative in black. Turn off the power supply when wiring, first connect the positive pole and then connect the negative pole; remove the negative pole first and then remove the positive pole when disassembled.
- 3. Charging system detection: after the whole vehicle starts, the battery voltage shows that the charging system is normal between the 13.5V~15V.
- 4. Vehicle leakage current detection: turn off the whole vehicle power supply, positive or negative series multimeter (current file), the current is less than 5mA, the whole vehicle line is not abnormal.
- 5. When the motorcycle is not in use for a long time, recharge is carried out once a month, or the battery is removed and placed separately, and the voltage is tested every three months, and the replenishment is carried out when the voltage

is lower than 12.6V. Battery power loss storage is not allowed.

When taking out the battery for inspection, please do so in the following order:

- A. Turn off the motorcycle power switch
- B. Remove the cushion
- C. Remove battery pressure plate
- D. Remove the negative extremes of the battery first (-) and then remove the positive extremes (+).
- E. Remove the battery guard plate on the left side of the vehicle
- F. remove the battery strap and gently remove the battery.



When installing the battery, please proceed in the opposite order, first to the positive extreme (+), and then to the negative extreme (-).

#### Note:

When reinstalling the battery, be sure to connect the battery wire correctly. If the battery wire is connected backwards, the circuit system and the battery itself will be damaged. The red line must be connected to the positive extreme (+), and the black line must be connected to the negative extreme (-).

Be sure to turn off the power switch (key) when checking

or replacing the battery.

## To replace the battery, please pay attention to the following

When replacing the battery, you should confirm the motorcycle model and verify that it is consistent with the original battery model. The specification of battery takes into account the best matching in motorcycle design. Switching to different types of batteries may affect the performance and life of motorcycles, and may lead to circuit failures.

## Warning:

The battery will produce flammable gas when it is used and charged, so do not approach open fire or spark when charging.

Battery is equipped with sulfuric acid (electrolyte), strong corrosion, so it is necessary to prevent human body, clothes, vehicles and other contact electrolyte, as soon as contact with water to wash clean, such as touching the eye, immediately with a large amount of water to rinse and timely medical treatment. Contact with electrolyte on the skin or eyes can cause severe burns.

Electrolyte is a toxic substance, beware of children playing with it. Please place the battery in a safe place and beware of contact with children.

In the course of transportation, the battery should not be subjected to strong mechanical impact and heavy rain, and the battery should not be inverted. In the process of disassembly and assembly, the battery should be gently moved and put, strictly prevent wrestling, roll heavy pressure.

It is strictly forbidden to remove the battery cover with extreme insulation.

## Replacement of fuse

The fuse is located under the driver's cushion and next to the battery.

The main fuse 1 is set on the starting relay and the fuse box 2 is next to the main fuse.

If fuse burns often occur, there is a short circuit or circuit overload. Please entrust Motorcycle Distribution Office to carry out repairs in time.

#### Warning:

Before checking or replacing the fuse, in order to avoid short circuits and damage to other electrical components, the ignition switch should be placed on ( $\bowtie$  "position.

Do not use fuses other than the prescribed specifications, otherwise it will have a serious adverse impact on the circuit system and even burn down the lights or cause fire, loss of engine traction, very dangerous.

#### Headlamp beam adjustment

The headlamp beam can be adjusted up and down in the vertical direction.

Loosen the left and right two headlamp fixing screws ①, light the headlamp, turn the headlamp slightly up and down, make the headlamp beam shine straight in front, tighten the fixing screw after adjustment.



#### Note:

When adjusting the beam height, the driver should sit on the cushion of the vehicle and keep the vehicle in a vertical state.

## Replacement of light bulbs

The headlamp, front lamp, brake lamp, rear lamp and steering lamp light source of this model are LED, LED is not easy to damage, if special circumstances need to be replaced, please contact motorcycle distribution unit for help. When replacing a broken light source, be sure to use a light source with the same rated power. If the light source with different rated watts is used, it may cause the overload of the circuit system and the premature damage of the light source.

#### Note:

When replacing the light source, we must use the same specification as the original car. The high power light source will increase the load of the circuit system, and it is easy to cause battery power loss and other faults.

## ABS usage and maintenance instructions

Turn on the power lock and the ABS indicator on the dashboard will be on (not flashing), which is normal. When the riding speed reaches 5km/h, the ABS indicator on the dashboard will go out, and the ABS will be in normal working condition.

The ABS light is on (not flashing) indicating that the ABS is in a diagnostic state.

The ABS light goes out to indicate that the ABS is in a normal working state.

The flicker of the ABS lamp indicates that the ABS is not working (or malfunctioning).

If you find that the ABS indicator is flashing all the time, indicating that the ABS is not working, check that the ABS plugin is in place and that the ABS wheel speed sensor and gear ring neutral are within the  $0.5\sim1.5$ mm range.

If the ABS wheel speed sensor is damaged, the ABS indicator on the dashboard flashes and the ABS does not work. Because the ABS wheel speed sensor has a certain magnetic may adsorb some metal substances, please keep the ABS wheel speed sensor clean without foreign bodies, adhesion foreign bodies will lead to ABS wheel speed sensor damage.

Please contact Reseller Maintenance Department in time for ABS system failure.

#### Storage and Guidelines

#### Storage Guidelines

If you want to store for a long time, it is necessary to take certain maintenance measures to reduce the impact of long-term storage of motorcycles on its quality.

- 1. Change the oil.
- 2. Lubricate the drive chain.
- 3. As much as possible to empty the fuel tank, fuel injection unit oil.

#### Note:

Gasoline can deteriorate when stored in the tank for a long time, which may lead to difficulty starting.

#### Warning:

Gasoline burns easily and may explode under certain conditions. Do not smoke or let sparks occur nearby when you drain fuel

4. Remove the spark plug and inject 1 spoonful (15~20cm) the clean oil is in the cylinder, and then the engine is started several times so that the poured oil is distributed to each part of the cylinder, and then the spark plug is reinstalled.

#### Note:

When turning the engine, the ignition switch should be placed on ( in position, the spark plug is plugged into the cable cover to ground to prevent damage to the ignition system.

- 5. Remove the battery and store it separately in a place free from freezing and direct sunlight.
  - 6. Clean and dry motorcycles. Wax all painted surfaces.
- 7. Inflate the tire to the right tire pressure. Place the motorcycle on top of the gasket to get two tires off the ground.
- 8. Cover motorcycles (do not use plastic or coating materials) and store them in places where there is no heating, no moisture and minimal temperature change. Don't store motorcycles in direct sunlight.

## End of storage for use

Remove the cover and clean the motorcycle. If you store it for more than 4 months, change the oil.

Check the battery and install it after charging as needed.

Check it all before you get out of the car. Take a motorcycle test at a low speed in a safe area far from the road.

## **Specifications and Technical parameters**

## QJ250-12 (SRV 250 V) & QJ250-12A (SRV 250)

Size and mass Length	
Engine Engine type Bore × stroke Displacement Maximum power Maximum torque Ignition mode Compression -ratio Starting mode	
Brake Front braking mode Rear braking mode	Manual disc brake Pedal disc brake
<b>Tire</b> Front tire specification Rear tire specification	
Fuel tankFuel type	

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