

# USER MANUAL

SRK 550 RS

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EN

# SRK 550 RS USER MANUAL

Details described or illustrated in this booklet may differ from the vehicle's actual specification as purchased, the accessories fitted or the national-market specification. No claims will be asserted as a result of such discrepancies.

Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances. The right to modify designs, equipment and accessories is reserved. Errors and omissions excepted.



# Contents

Preface .....	1	<i>USB interface</i> .....	22
Important notes .....	1	<i>On-board tools</i> .....	22
Special reminder .....	2	<i>Rollover automatic flameout</i> .....	22
Safety Instructions of Motorcycle .....	4	<i>Adjustment of rearview mirror</i> .....	23
<i>Safe Driving Rules</i> .....	4	<i>Seat cushion handling</i> .....	23
<i>Protective clothing</i> .....	5	<i>Front shock absorber</i> .....	24
<i>Wear Safety Helmet</i> .....	5	<i>Rear shock absorber</i> .....	24
<i>Precautions for Driving in Rainy Days</i> .....	5	Instructions for use of fuel and engine oil .....	25
Motorcycle series number .....	6	Running-in .....	26
Part Name .....	6	Pre-driving Inspection .....	27
Instrument .....	7	Drive a motorcycle .....	28
Operation of Parts .....	15	<i>Starting of the engine</i> .....	28
<i>Key</i> .....	15	<i>Start</i> .....	29
<i>Ignition switch (power lock)</i> .....	15	<i>Use a variable speed device</i> .....	29
<i>Left handle (option 1)</i> .....	16	<i>Driving on a slope</i> .....	29
<i>Right handle (option 1)</i> .....	17	<i>Use of brake and stop</i> .....	29
<i>Left handle (option 2)</i> .....	18	Inspection and maintenance .....	31
<i>Right handle (option 2)</i> .....	19	<i>Maintenance schedule</i> .....	31
<i>Fill the fuel tank</i> .....	20	<i>Oil level and oil change</i> .....	33
<i>Shift pedal lever</i> .....	21	<i>Spark plug</i> .....	34
<i>Rear brake pedal</i> .....	22	<i>Adjustment of throttle cable</i> .....	34
<i>Side stand</i> .....	22	<i>Adjustment of clutch</i> .....	35

<i>Engine idle speed adjustment</i> .....	36
<i>Throttle body</i> .....	36
<i>Brake</i> .....	36
<i>Tyre</i> .....	40
<i>Air filter maintenance</i> .....	41
<i>Coolant</i> .....	42
<i>Catalytic converter</i> .....	43
<i>Carbon canister</i> .....	43
<i>Assembly and disassembly of radiator water pipe clamp</i> .....	43
<i>Fuel injector and oil circuit</i> .....	44
<i>Lubrication of parts</i> .....	44
<i>Battery</i> .....	45
<i>Replacement of fuse</i> .....	47
<i>Replacement of bulb (light source)</i> .....	47
<i>Headlamp beam adjustment</i> .....	48
<i>ABS use and maintenance instructions</i> .....	48
Storage Guide .....	49
Specification and Technical Parameter .....	50

## Preface

We sincerely thank you for choosing QJMOTOR SRK 550 RS two-wheeled motorcycle. We assimilate the advanced technology at home and abroad to produce this model of motorcycle, which will provide you with extremely happy and safe driving.

Driving a motorcycle is one of the most exciting sports. Before you drive a motorcycle, you should be fully familiar with the provisions and requirements set forth in the use and maintenance instructions and follow them.

This manual outlines the routine servicing and maintenance of your motorcycle. Following these instructions will ensure that your motorcycle performs at its best and is built to last.

Our company has specialized technical maintenance personnel and maintenance department, can provide you with good technical maintenance services.

The company has always pursued the quality tenet of "making consumers more satisfied", constantly

improving product quality and performance, which may lead to changes in vehicle appearance, color and structure, resulting in inconsistency with the manual. Please understand. The pictures in this manual are for reference only, and the specific style is subject to the real object.

## Important notes

### 1. Driver and passenger

The motorcycle is designed to be ridden by only one driver and one passenger.

### 2. Road surface conditions for driving

The motorcycle is suitable for driving on the highway.

3. Please read this operation and maintenance manual carefully. Careful and patient running-in of a new motorcycle can make the motorcycle run stably and give full play to its excellent performance.

Pay particular attention to items preceded by the following words:

---

 **Warning**

It indicates that serious personal injury or death may be caused if the operation is not carried out in accordance with the methods in this operation and maintenance manual.

---

 **Caution**

It indicates that personnel may be injured or parts may be damaged if the operation is not carried out in accordance with the methods in this operation and maintenance manual.

---

 **Notice**

Provide useful information.

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This operation and maintenance manual shall be regarded as a permanent document of this motorcycle. Even when the vehicle is transferred to another person, the use and maintenance instructions should be handed over to the new owner.

Any part of this Operation and Maintenance Manual

shall not be copied or reproduced without the written approval of the Company.

**Special engine oil is used for the lubricating parts of the vehicle.**

## Special reminder

Main fuse location: under the passenger seat cushion of the vehicles

Generally, the fuse blow is caused by the internal circuit fault of the motorcycle. Before replacing the spare fuse, simply judge the condition of the motorcycle. If the fuse is still blown after replacing the spare fuse, immediately send the motorcycle to the maintenance department of QJMOTOR dealers for inspection. After the fault is eliminated, the motorcycle can continue to run.

### Precautions:

- When installing or replacing the battery for the first time, pay attention to distinguish the positive

and negative poles. If there is a reverse connection, pay attention to check whether the fuse is in good condition. However, whether the fuse is in good condition or not, it should be sent to the maintenance center for inspection to prevent the damage of some electrical components caused by the reverse connection of the battery. If the damaged components continue to work, it will cause some unpredictable faults;

- Before replacing the fuse, turn the vehicle key to the "OFF" position to prevent accidental short circuit;
- When replacing the fuse, do not damage the fuse bayonet, otherwise it will cause poor contact, resulting in component damage or even fire accident.

**Energy-saving and environmental protection:**

The replaced engine oil, coolant, gasoline and some cleaning solvents contain toxic substances. Do not discharge them at will. They should be placed in a special sealed container and sent to the recycling center or the local environmental protection department. Waste batteries shall not be discarded at will and shall not be dismantled without authorization. Waste batteries shall be handed over to distributors

or departments with relevant professional disposal qualifications for safe recycling and disposal. Waste vehicles should be sent to local special dismantling and recycling agencies for classification, recycling and reuse.

**Refitting is strictly prohibited:** Please do not refit the vehicle or change the position of the original parts at will. Refitting at will will seriously affect the stability and safety of the vehicle and may cause the vehicle to fail to work normally. At the same time, according to the provisions of the Road Traffic Safety Law of the People's Republic of China, no unit or individual may assemble motor vehicles or alter the registered structure, structure or characteristics of motor vehicles without authorization. The company will not bear all the quality problems and consequences (including loss of warranty) caused by the user's unauthorized modification or replacement of unauthorized parts. Users are requested to abide by the regulations of the traffic management department on the use of vehicles.

**Warm reminder:** After you buy a motorcycle, please equip it with a motorcycle helmet that meets the national standards.

## **Warning**

The motorcycle must be equipped with a fuse that meets the requirements before it can be driven safely. It is not allowed to use other specifications beyond the requirements, and it is not allowed to be directly connected or replaced by other conductive objects; otherwise, it will cause damage to other components, and even cause fire accidents in serious cases.

## **Safety Instructions of Motorcycle**

### **Safe Driving Rules**

1. Before driving, the motorcycle must be checked to avoid accidents and damage to parts.
2. Drivers must pass the examination of the traffic management department and obtain the same driver's license as the quasi-driving vehicle before they can drive. It is not allowed to lend a vehicle to a person without a driver's license.
3. In order to avoid injury from other motor vehicles, the driver must be as conspicuous as possible.

To this end, please:

- Wear a tight dress that stands out;
  - Do not get too close to other motor vehicles.
4. Strictly abide by the traffic rules and do not allow road grabbing.
  5. Accidents are mostly caused by speeding, so the speed should not exceed the maximum speed limit of the road section.
  6. Turn on the turn signal in advance when turning or changing lanes to attract the attention of others.
  7. At intersections, parking lot entrances and exits and fast lanes, special attention should be paid to driving carefully.
  8. Random modification or disassembly of the original motorcycle parts will not guarantee the safety of driving, and it is illegal and will affect the vehicle warranty.
  9. The accessories must not affect the driving safety and operation performance of the motorcycle, especially the overload of the electrical system is very dangerous.

10. Towing of trailers is strictly prohibited. Towing a trailer on a motorcycle will cause tire overload, damage and malfunction, reduce the braking performance, and adversely affect vehicle stability and maneuverability, and may result in death or serious injury. Towing a faulty motorcycle will adversely affect the vehicle's stability and maneuverability and may result in death or serious injury.
11. It is strictly prohibited to install sidecar. Driving a motorcycle with a sidecar will cause loss of vehicle control, resulting in death or serious injury.
12. Overload driving is strictly prohibited. Overloading can cause component failure and seriously affect stability, maneuverability, and performance, possibly resulting in death or serious injury.

### **Protective clothing**

1. In order to ensure personal safety, drivers must wear safety helmets, protective glasses, riding boots, gloves and protective clothing. Passengers are also required to wear safety helmets and

hold on to the passenger handrails.

2. During driving, the exhaust system becomes hot, and it is still hot for a while after stopping the engine. Do not touch the exhaust system while hot.
3. When driving, do not wear loose clothes that may be caught by the control lever, pedal or wheel.

### **Wear Safety Helmet**

Helmets that meet safety and quality standards are the first item of protective equipment for cycling. 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 Driving in Rainy Days**

Pay special attention to wet and slippery roads in rainy days, because the braking distance is longer in rainy days. When driving, please avoid paint, manhole cover and greasy road surface to avoid skidding. Be especially careful when passing railway crossings, bars and bridges. When the road condition can not be clearly judged, the driver should slow down.

## Motorcycle series number

The frame number and engine number are used for the registration of the motorcycle. This number enables the dealership to provide you with better service when ordering spare parts or entrusting special services.

Please record the number for future reference.

① Engraving position of frame number: right side of head pipe.

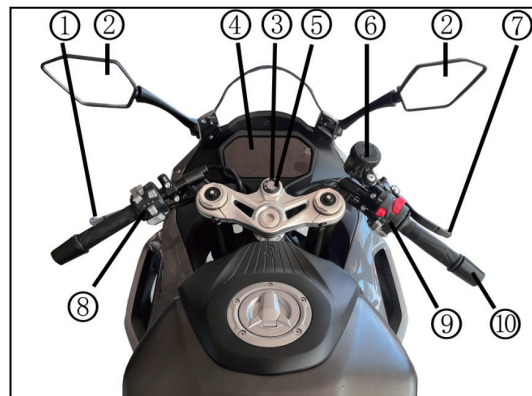
② Riveting position of product nameplate: left side of head pipe.

③ Engraving position of engine number: lower part of right crankcase of engine.



Frame No.:	
Engine No.:	

## Part Name

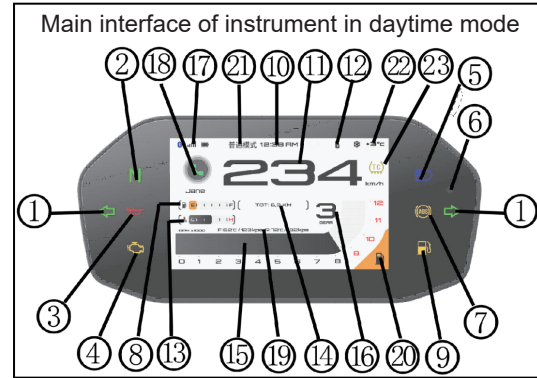


- |                                    |                                    |
|------------------------------------|------------------------------------|
| ① Clutch handle                    | ⑫ Passenger armrest (braid)        |
| ② Rearview mirror (left and right) | ⑬ Fuel tank                        |
| ③ USB interface                    | ⑭ Front brake                      |
| ④ Instrument                       | ⑮ Sidestand                        |
| ⑤ Ignition switch                  | ⑯ Shift pedal lever                |
| ⑥ Front brake fluid reservoir      | ⑰ Driver's pedal (left and right)  |
| ⑦ Front brake handle               | ⑱ Passenger pedal (left and right) |
| ⑧ Left Handlebar Switch            | ⑲ Rear brake pedal                 |
| ⑨ Right Handlebar Switch           | ⑳ Rear brake fluid reservoir       |
| ⑩ Throttle control grip            | ㉑ Rear brake                       |
| ⑪ Passenger seat cushion keyhole   |                                    |



Note: This model is equipped with brake system. The pictures in the manual are for reference only, subject to the actual motorcycle you purchased.

## Instrument



The instrument of this model has two themes for selection. You can select day mode or night mode, or automatically adjust it to day mode or night mode according to the light and shade around the motorcycle. See "**Instrument Adjustment Key**" on page 13, and select the "Instrument Theme" function menu.

### ① Left and right turn signal indicator

When the turn signal lamp turns to the left or right,

the left or right turn signal lamp will flash accordingly.

## ② Neutral position indicator lamp

The neutral indicator N illuminates when the transmission is in the neutral position.

## ③ Engine oil indicator

When the engine is not started after the power is turned on, the engine oil indicator light is always on; if the engine oil pressure is normal after the engine is started, the engine oil indicator light will go out; if the engine oil indicator light does not go out, the engine oil pressure may be abnormal, and it is necessary to stop the engine for inspection; when the engine oil is insufficient, the engine oil indicator light will be on, so as to add engine oil in time.

## ④ Engine malfunction indicator

When the key is turned on, the indicator light is on, the oil pump works for 3 seconds, and then the motorcycle is started. If the indicator is off after the motorcycle is started, the vehicle is normal and there is no fault; If the indicator is on, there is a fault. Similarly, in the course of driving, if the indicator light is off, the motorcycle runs normally. If the indicator light is on, the motorcycle has a fault and needs to be

stopped for inspection. Please contact QJMOTOR Motorcycle Distribution Department or Maintenance Center to check the motorcycle in time.

## ⑤ High beam indicator

The high beam indicator illuminates when the headlight high beam light is illuminated.

## ⑥ Light sensing window

It automatically senses the light and shade around the motorcycle and automatically adjusts the instrument to day mode or night mode.

## ⑦ ABS indicator:

Indicate the working state of ABS. See "**ABS use and maintenance instructions**" (page 48).

## ⑧ Fuel quantity indicator

It indicates how much fuel is in the fuel tank. When the fuel is filled up (F position), the fuel level of 6 bars will be displayed; when the fuel is insufficient and the fuel level is 1 bar, the last grid will flash and the fuel alarm light will be on; when there is no fuel, the fuel level of 0 bar will be displayed and the fuel alarm light will be on.

**⑨ Fuel alarm light**

When the fuel quantity of the vehicle is one grid, the fuel alarm light will be on, and it will flash when there is no fuel.

**⑩ Time display**

Display the current time. The default time format is 24-hour format. When the 12-hour format is set in the menu, AM or PM will be displayed according to the current time. To adjust the time, see "**Instrument Adjustment Key**" on page 13, and select the "Time" function menu to adjust the time.

**⑪ Speedometer**

Indicate the current speed of the motorcycle. The unit can be selected as km/H or mph. See "**Instrument Adjustment Key**" on page 13. Select the unit from the "Unit" function menu.

**⑫ T-Box connection indicator (optional)**

The indicator illuminates when the motorcycle is connected to the T-Box.

**⑬ Water temperature display**

Indicate the degree of vehicle water temperature, "C" position indicates low water temperature, and

"H" position indicates high water temperature. When the water temperature is no less than 115°C, the water temperature alarm light is on. Please stop the motorcycle for inspection or contact QJMOTOR dealership to check the motorcycle.

Number of scales of water temperature	Temperature (°C)	Number of scales of water temperature	Temperature (°C)
1-6 grid flash	≥120	1-3 grid	88-99
1-5 grid flash	115-120	1-2 grid	70-87
1-5 grid	110-114	1 grid	<70
1-4 grid	100-109		

**⑭ Odometer**

The odometer records the total mileage (TOT) and the relative mileage (TRIP A, TRIP B) of the vehicle. The relative mileage (TRIP A and TRIP B) can be cleared. See "**Instrument Adjustment Key**" on page 13 and select the "Unit" function menu to select the kilometer (km) or mile unit of the odometer.

**⑮ Tachometer**

The tachometer indicates the speed of the engine

from 0 to 12000 rpm.

## ⑯ Gear indicator

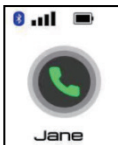
Display the current gear of the motorcycle, including 1, 2, 3, 4, 5, 6, N. When the gear is shifted to the neutral position, the neutral indicator "N" will be illuminated accordingly.

## ⑰ Bluetooth, cell phone signal, cell phone power indicator

After the Bluetooth of the mobile phone is connected and paired with the Bluetooth of the instrument, the Bluetooth, mobile phone signal and mobile phone power indicator on the instrument will be displayed.

## ⑱ Bluetooth phone/Easy navigation display

Bluetooth phone display: After the phone is paired with the instrument Bluetooth, the Bluetooth phone information is displayed when there is an incoming or outgoing call; the Bluetooth call sound is defaulted on the phone (after the phone is connected to the instrument Bluetooth first and then to the headset, the audio can be selected to be output on the headset, and the contact is displayed on the










instrument. Some phones may not support the dual Bluetooth function); Bluetooth phone information display: caller ID, caller ID, call contact (unknown contact displays the corresponding phone number).

Simple navigation display: Simple navigation information is transmitted to the instrument display through the mobile phone APP; display content: road name, indicated direction and distance. Please make sure to synchronize with the mobile navigation.

## ⑲ Tire pressure display

Indicate the tire pressure of front (F) and rear (R) tires. The unit is optional. See "**Instrument Adjustment Key**" on page 13 below and select the "Tire Pressure" function menu and select the tire pressure unit such as pounds-force per square inch (psi), kilopascal (kPa) or bar. If the tire pressure or temperature is abnormal, the abnormal tire alarm light will flash in yellow.

## ⑳ Alarm light

Name	Icon	Status description	Display
Fuel alarm light		1 bar of oil Or 0 bar	Yellow flashing on
Water temperature alarm light		Water temperature $\geq 115^{\circ}$	Red flashing alarm
Oil pressure alarm light		Low oil pressure	Red flashing alarm
Tire abnormality alarm light		Tire pressure and temperature abnormality	Yellow flashing alarm
Low battery alarm light		When the motorcycle battery is less than 12.3V	Red flashing alarm
Engine malfunction indicator		Engine abnormality	Yellow flashing alarm
Low temperature alarm light		When the atmospheric temperature is $\leq 4^{\circ}\text{C}$ for 5 seconds	Blue flashing alarm

When multiple faults occur at the same time, the corresponding alarm lights will light up alternately. In case of abnormality of alarm light, please stop and check, or contact QJMOTOR dealership to check the motorcycle.

### ㉑ Motorcycle mode display

Display the motorcycle mode, which is normal mode or sport mode.

### ㉒ Atmospheric temperature and low temperature alarm display (subject to the actual motorcycle you purchased)

Display the current atmospheric temperature within the range of  $-30 \sim 100^{\circ}\text{C}$ . When the temperature is  $\leq 4^{\circ}\text{C}$  and lasts for 5 seconds, ❄ icon lights up and the low temperature alarm light flashes. When the temperature is  $\geq 6^{\circ}\text{C}$  and lasts for 5 seconds, ❄ icon and the low temperature alarm light go out.

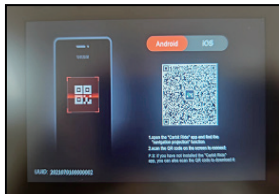
### ㉓ TCS alarm light

When the motorcycle's traction control system fails, the instrument displays TCS alarm light.

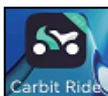
## Interconnection screen projection function of instrument and mobile phone

### a. Enter the wireless screen projection interface:

Press and hold the "SELECT" key on the main interface of the instrument to enter the wireless screen projection interface. Short press the "SELECT" button to select the QR code of Android or Apple system (Before connection, it is necessary to confirm whether the UUID number is activated. If it is not activated, there is a relevant prompt. The UUID is not shared at home and abroad.) As shown in the figure:

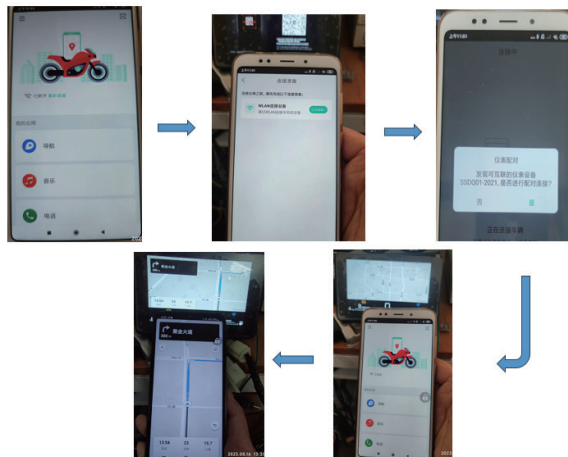


**b. Download the overseas version of mobile phone projection screen APP (Carbit Ride):** Download the Carbit Ride APP in the App Store and install it on the mobile phone.



**c. Mobile phone code connection scanning instrument screen projection:** Open the Carbit Ride APP on the mobile phone, click the scanning code switch on the upper right corner of the APP,

scan the QR code on the right side, enter the screen projection after successful pairing and connection, select the navigation input address to enter the map navigation.



The instrument receives and displays the screen projection information transmitted by the mobile phone APP. The basic information of the instrument is displayed on the projection screen, such as motorcycle speed, rotating speed, fuel quantity, water

temperature, steering signal, high beam, gear information, tire pressure alarm light, etc.

 **Notice**

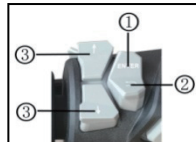
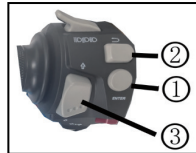
Do not access more than one mobile phone in a motorcycle, otherwise it will cause pairing failure. Different batches of instruments may have different screen projection APPs and display effects, as well as different operation interfaces and modes. The pictures in this manual are for reference, and the actual configuration shall prevail. Consult the distribution department for details.

**Instrument adjustment key (optional)**

**a. ENTER (confirm):**

**Short press:**

- a. Answer the phone when there is an incoming call;
- b. When the main interface of the instrument is currently displayed, short press to enter the instrument menu interface (return to the main interface without operation for 8



seconds, except for the tire pressure setting interface). When the function menu interface is currently displayed, short press to enter the submenu to select functions such as "Power Mode", "Bluetooth", "Tire Pressure", "Instrument Theme", "Brightness", "Information", "Clock", "Unit", "Language", TCS and "Exit". ; When the sub-list is currently displayed, it is the confirmation function.

**Long press:**

No speed: Enter or exit the mobile phone interconnection screen projection function.

**② ↶ (return key):**

Short press:

- a. In case of incoming/outgoing call, short press to hang up the phone;
- b. Return to the previous level.

Long press: No effect

**③ ↑↓ (up and down selection key):**

**Short press:**

Switch the list up and down in the sub-list of the function menu;

Short press the up/down selection key to switch TOT/TRIP A/TRIP B;

### **Long press:**

When the odometer is in the small mileage state (TRIP A or TRIP B), long press the up and down selection key to clear the small mileage.

### **Tire pressure setting:**

Short press the "ENTER" confirmation button to enter the instrument selection main menu page, select "tire pressure setting", select the tire pressure unit, select the front and rear wheel sensor learning, and the string will be displayed after successful pairing learning. The lower part of the main interface of the instrument displays the temperature and pressure information of the front and rear tires. When the tire is abnormal, the tire alarm light will light up, and the text alarm content will appear in the **"fault alarm display area"** on the instrument. Text alarm contents include: high (low) air pressure of front (rear) tire, high temperature of front (rear) tire, quick air leakage of front (rear) tire, low voltage of front (rear) tire, no signal of front (rear) tire, etc.

When the tire sensor is not learned, no relevant

information is displayed on the main interface of the instrument, and the tire pressure icon is not displayed in the power-on self-test.

### **Traction control system:**

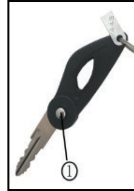
When the motorcycle is running on a slippery road, the driving wheel of the motorcycle without TCS function is easy to slip when accelerating, which may cause the motorcycle to flick its tail, making it difficult for the driver to control his balance and fall down.

The EMS EFI system relies on the ABS signal. When it detects that the speed of the driving wheel is greater than that of the non-driving wheel (which is the characteristic of slip), it will reduce the engine output torque by adjusting the ignition time and reducing the throttle opening, so that the wheels will no longer slip.

## Operation of Parts

### Key

This vehicle is equipped with two foldable keys or one foldable key and two non-foldable keys, which can be used to start the motorcycle and open all locks. One key is for use. Please keep the other key in a safe place.



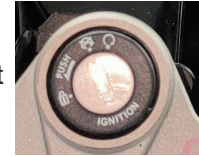
Press the button ① on the foldable key to extend or retract the key head.

### Ignition switch (power lock)

**Warning**

Do not hang o-rings or other objects on your key as they may interfere with rotation. Never turn the key while the vehicle moves, otherwise the vehicle will lose control. In order to ensure the safety of driving, do not place objects that hinder your operation of the vehicle.

⊗ Mark.. Turn the key to the marked position "⊗", the power supply is cut off, the engine cannot be started, and the key can be taken out;



○ Mark.. Turn the key to the marked position "○", the power is on, the engine can be started, and the key cannot be taken out;

🔒 Position: When the key is in the "⊗" marked position, turn the steering handle to the left, press the key downward and rotate it counterclockwise to the "🔒" position, the faucet lock extends out of the lock cylinder to lock the head lock, and the key can be taken out.

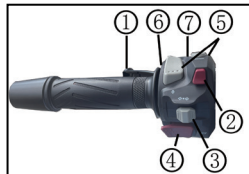
**Notice**

To prevent theft, always lock the steering and remove the key when parking. After locking, turn the handlebar slightly to confirm whether it is locked. Please don't stop where you are blocking traffic.

## Left handle (option 1)

### ① Clutch handle

When starting the engine or shifting gears, grip the clutch handle to cut off the drive to the rear wheel.



### ② Ready switch

### ③ Turn signal lamp switch

Press the turn signal lamp switch "←" or "→", and the left or right turn signal lamp flashes. At the same time, the green steering indicator on the instrument panel flashes accordingly. To deactivate the turn signal, turn the turn signal switch to the middle or press down the switch.

### **Warning**

When changing lanes or turning, turn on your turn signal lamp and make sure there is no vehicle behind you. After changing lanes or turning, turn off the turn signal lamp in time to avoid affecting the normal running of other vehicles and avoid accidents.

### ④ Horn button

Press the horn button and the horn will sound.

### ⑤ Instrument adjustment button

See "**Instrument Adjustment Key**" on Page 13 above.

### ⑥ Headlamp high and low beam switch/overtaking lamp switch

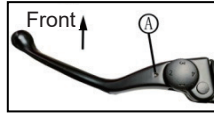
When the light switch on the right handlebar is turned to the "☀" position: when the headlight high and low beam switch is pressed to the "≡" position, the headlight high beam is on, and the high beam indicator on the instrument panel is also on; when the switch is pressed to the "≡" position, the headlight low beam is on. When you drive in the urban area or there is another vehicle ahead, use the low beam to avoid affecting the reciprocal line of sight.

When rendezvousing with other vehicle or overtaking, press this button continuously, the headlight will flash continuously to warn the vehicle ahead.

### ⑦ Clutch handle regulator

The position of the clutch lever can be adjusted by adjusting the position of the knob via the ring nut as required for operating comfort. Adjust one of the four

optional positions. Just move the clutch handle horizontally forward slightly, and then rotate the ring nut adjuster to align with the arrow (A) to adjust the required position. The clutch handle in position 1 is the farthest from the grip, and the clutch handle in position 4 is the closest to the grip.



**Right handle (option 1)**

① Start/stop switch/electric start button

Turn the switch to "○" position: The motorcycle circuit is turned on, and the engine can be started.

Turn the switch to "⊗" position: The motorcycle circuit is turned off, and the engine cannot be started.



Make sure that the engine start/stop switch is turned to the "○" position, retract the side stand, shift the transmission to the neutral position, press the electric start button "⊗", and the electric motor runs to start the engine.

**Warning**

If the engine does not start within 5 seconds, turn the ignition switch to the "⊗" (off) position, wait for 10 seconds, wait for the battery voltage to recover, and then start the engine again. If it still fails to start after several attempts, please contact the local QJMOTOR dealer service station to check the motorcycle.

**Warning**

Do not turn the switch from "○" to "⊗" during normal driving, as this may damage the engine or exhaust system. Do not use the stop switch unless in an emergency.

② Hazard warning light button

Press the hazard warning light button, and the front and rear turn signal lamps flash at the same time to remind you of hazard.

③ Throttle control grip

The throttle control grip is used to control the engine speed. To accelerate, turn the handle in its own

direction and release to decelerate.

④ Front brake handle

When braking at the front, slowly tighten the brake handle of the right handle.

⑤ Front brake handle adjuster

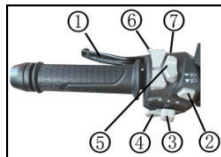
According to the requirements for operation comfort, the front brake handle can be adjusted by adjusting the knob position through the ring nut. The required position can be adjusted by moving the front brake handle horizontally forward slightly and then rotating the ring nut adjuster to align with the arrow.

⑥ Ready switch

### Left handle (option 2)

① Clutch handle

When starting the engine or shifting gears, grip the clutch handle to cut off the drive to the rear wheel.




② Headlight high and low beam switch

When the light switch on the right handlebar is

turned to the "☀" position: when the headlight high and low beam switch is pressed to the "☞" position, the headlight high beam is on, and the high beam indicator on the instrument panel is also on; when the switch is pressed to the "☞" position, the headlight low beam is on. When you drive in the urban area or there is another vehicle ahead, use the low beam to avoid affecting the reciprocal line of sight.

③ Turn signal lamp switch

Press the turn signal lamp switch "↵" or "⇨", and the left or right turn signal lamp flashes. At the same time, the green steering indicator on the instrument panel flashes accordingly. To deactivate the turn signal, turn the turn signal switch to the middle or press down the switch.

 <b>Warning</b>
<p>When changing lanes or turning, turn on your turn signal lamp and make sure there is no vehicle behind you. After changing lanes or turning, turn off the turn signal lamp in time to avoid affecting the normal running of other vehicles and avoid accidents.</p>

④ Horn button

Press the horn button and the horn will sound.

⑤ Instrument adjustment button

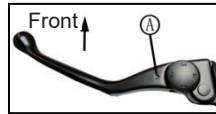
See "**Instrument Adjustment Key**" on Page 13 above.

⑥ Overtaking switch

When rendezvousing with other vehicle or overtaking, press this button continuously, the headlight will flash continuously to warn the vehicle ahead.

⑦ Clutch handle regulator

The position of the clutch lever can be adjusted by adjusting the position of the knob via the ring nut as required for operating comfort. Adjust one of the four optional positions. Just move the clutch handle horizontally forward slightly, and then rotate the ring nut adjuster to align with the arrow (A) to adjust the required position. The clutch handle in position 1 is the farthest from the grip, and the clutch handle in position 4 is the closest to the grip.

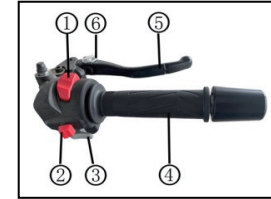


**Right handle (option 2)**

① Start/stop switch

Turn the switch to "⊙" position: The motorcycle circuit is turned on, and the engine can be started.

Turn the switch to "⊗" position: The motorcycle circuit is turned off, and the engine cannot be started.



**Warning**

Do not turn the switch from "⊙" to "⊗" during normal driving, as this may damage the engine or exhaust system. Do not use the stop switch unless in an emergency.

② Hazard warning light button

Press the hazard warning light button, and the front and rear turn signal lamps flash at the same time to remind you of hazard.

③ Electric start button

Make sure that the engine start/stop switch is

turned to the "○" position, retract the side stand, shift the transmission to the neutral position, press the electric start button "⊗", and the electric motor runs to start the engine.

## **Warning**

If the engine does not start within 5 seconds, turn the ignition switch to the "⊗" (off) position, wait for 10 seconds, wait for the battery voltage to recover, and then start the engine again. If it still fails to start after several attempts, please contact the local QJMOTOR dealer service station to check the motorcycle.

### ④ Throttle control grip

The throttle control grip is used to control the engine speed. To accelerate, turn the handle in its own direction and release to decelerate.

### ⑤ Front brake handle

When braking at the front, slowly tighten the brake handle of the right handle.

### ⑥ Front brake handle adjuster

According to the requirements for operation comfort, the front brake handle can be adjusted by adjusting the knob position through the ring nut. The required position can be adjusted by moving the front brake handle horizontally forward slightly and then rotating the ring nut adjuster to align with the arrow.

## Fill the fuel tank

Refuel when the fuel alarm light on the instrument is on.

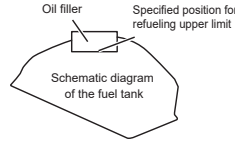
When refueling, first open the dust cap ① of the fuel tank cap, then insert the fuel tank key



and rotate it clockwise, and the fuel tank cap can be opened together with the key. To close the fuel tank cap after refueling, please align the fuel tank cap guide pin and press it down to close the fuel tank cap until the key is removed when the lock sound is heard, and then close the fuel tank cap dust cap.

**Warning**

The fuel tank must not be overfilled (the factory recommendation is 90% of the total fuel tank volume). Please do not exceed the specified position of the upper limit of refueling as shown in the figure, and do not splash the fuel on the hot engine, otherwise it will cause abnormal operation of the motorcycle or bring dangerous accidents.



When refueling, turn off the engine and turn the ignition key to the "⊗" (off) position.

Don't forget to lock the fuel tank cap after refueling to prevent excessive evaporation of fuel into the atmosphere, which not only wastes energy, but also pollutes the environment.

Fireworks are strictly prohibited during refueling.

If the gasoline overflows into the carbon canister and other parts, please go to the local QJMOTOR dealer service station as soon as possible to clean or replace the carbon canister, because too much

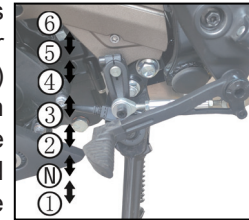
**Warning**

gasoline into the carbon canister will lead to premature failure of activated carbon.

Regularly check the smoothness of the overflow drain of the fuel tank to ensure smooth drainage and prevent external moisture from entering the inner cavity of the fuel tank.

**Shift pedal lever**

This type of motorcycle adopts the normally-engaged six-gear international gear (non-cycle) shift mode, and the operation is as shown in the figure. The neutral position is located between the low gear and the second gear. From the neutral position, step down the shift lever to engage the low gear; every time the shift lever is lifted up by the toe, the next high gear is shifted; every time the shift lever is stepped on by the toe, the next low gear is shifted.



Because of the ratchet mechanism, it is not possible to raise or lower more than one step at a time.

## ! **Caution**

When the transmission is in the neutral position, the neutral indicator on the instrument will be illuminated, and the clutch lever should be released slowly to determine whether the transmission is in the neutral position.

## Rear brake pedal

When the rear brake pedal is depressed, the rear brake is engaged. When the rear brake is operated, the brake lamp will illuminate.



## Side stand

The side stand is located on the left side of the vehicle. Please support the side stand when parking. The side stand has the function of automatic flameout: when the side stand is in the parking state (when the side stand is up), if the engine gear is in the non-neutral position, the engine cannot be start-

ed or the engine automatically flameout after starting. Only when the side stand is retracted, the engine can be started normally.

## 🔔 **Notice**

Do not support the vehicle on a downward slope, or the vehicle may overturn. Please check the position of the side stand before driving.

## USB interface

A USB interface is configured above the keyhole in the front of the motorcycle, which can be used to charge mobile phones and other components.



## On-board tools

The vehicle tools are fixed on the passenger seat cushion bottom plate. By using the on-board tools, some repairs, minor adjustments and parts replacement can be carried out on the way.

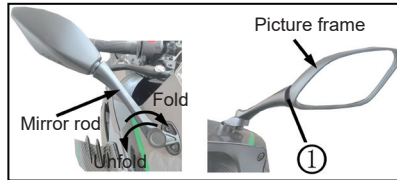
## Rollover automatic flameout

The vehicle has the function of automatic flameout

for rollover. When the vehicle rolls over or tilts to a certain angle, the engine will automatically flameout to prevent the resulting danger.

## Adjustment of rearview mirror

When the rearview mirror is in the retracted state, hold the rearview mirror lever and rotate the mirror lever outward to unfold the rearview mirror, and then rotate the mirror lever inward to retract the rearview mirror.



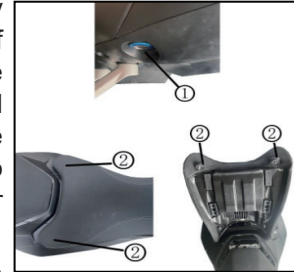
There is an adjusting ball head ① between the rearview mirror lever and the mirror frame, which can adjust the angle of the rearview mirror. Adjust the mirror frame properly until the rear view is clear.

### Notice

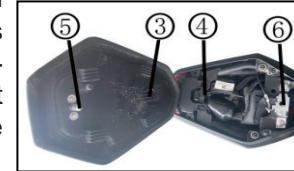
When driving the motorcycle, please unfold the rearview mirror, with the driver sitting on the driver's seat, and adjust the rearview mirror frame to ensure that the driver has sufficient rear vision.

## Seat cushion handling

Insert the key into the key hole ① at the lower left of the seat cushion, rotate the key clockwise, and pull up the front part of the passenger seat cushion to remove the passenger seat cushion.

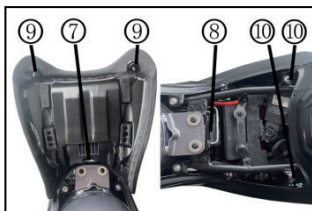


Remove the screws ② on both sides of the driver's seat cushion, pull it backwards and then lift it upwards to remove the driver's seat cushion.



To install the passenger seat cushion, push the seat cushion from the rear to the front, push the hook ③ on the back of the seat cushion into the seat cushion fixing groove ④; align the seat cushion lock hook ⑤ on the back of the seat cushion with the lock hole ⑥, press down the rear of the seat cushion, and hear the seat cushion lock click, indicating that the seat cushion has been installed.

To install the driver's seat cushion, push the seat cushion from the rear to the front, push the hook ⑦ on the back of the seat cushion into the seat cushion fixing groove ⑧; align ⑨ on both sides of the seat cushion with ⑩ and press it down, the screw hole ⑩ corresponds to the hole ⑨, install the fixing screw, and then the driver's seat cushion can be installed.



## Front shock absorber

Clockwise rotation of slotted screwdriver (H Direction) Right and left shock absorber knobs, reset resistance



The force increases and the restoring damping force decreases for counterclockwise rotation (S direction). Adjust the left and right shock absorbers to the same damping force level.

Factory adjustment is 2 turns (use a slotted screw-

driver to adjust the adjusting bolt clockwise (H direction) to the maximum limit, and then rotate it back (S direction) for 2 turns.

### **Warning**

Shock absorption adjustment requires professional skills. Please contact the local QJMOTOR service station to adjust the shock absorption. Private adjustment may cause safety accidents due to uncoordinated adjustment.

When the adjuster is rotated to the limit position, please do not continue to rotate in this direction, otherwise the shock absorber will be damaged.

## Rear shock absorber

The rear shock absorber of this vehicle is mainly composed of damping spring and hydraulic damper, which can be adjusted according to various factors such as driver's preference, vehicle load bearing and road conditions. When adjusting, the rear wheel support frame shall be used to stabilize the



vehicle and keep the rear wheel off the ground.

The damping force of shock absorber can be adjusted by rotating the adjusting nut ① at the lower end of the shock absorber: rotate the adjusting nut clockwise or counterclockwise with a slotted screwdriver, and the damping force of the shock absorber will also increase or decrease, so as to change the rebound speed of the shock absorber. The damping force adjusting nut will make a "click" sound every time it is adjusted to one gear. It has been marked when leaving the factory, and customers are advised not to adjust it by themselves.

 **Warning**

The preload of the rear shock absorber (the degree of softness and hardness of the spring) has been adjusted to the best riding condition in the factory. Damping preload adjustment requires expertise, if adjustment is required, please contact The service station of the local QJMOTOR service agency adjusts the shock absorber. Unauthorized adjustment may cause safety accidents or damage to parts due to uncoordinated adjustment.

 **Warning**

When the adjuster is rotated to the limit position, please do not continue to rotate in this direction, otherwise the shock absorber will be damaged.

## Instructions for use of fuel and engine oil

### Fuel oil

Please use unleaded gasoline. If the engine makes a slight knocking sound, it may be using ordinary grade fuel and should be replaced.

 **Notice**

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

### Engine oil

Use a high purity, high performance synthetic engine oil that meets the SN grade, factory recommended: SN 15 W-50. [The loss of engine failure caused by

the purchase of oil that does not meet the requirements will affect the vehicle warranty]. Please visit QJMOTOR dealers to buy the special engine oil for this motorcycle. The oil viscosity should be determined according to the air temperature in the driving area.

## Running-in

### Maximum speed

For any new motorcycle, during the initial 1500km running-in period, do not allow the engine speed to exceed the maximum speed during the running-in period, do not suddenly accelerate, turn or brake, and do not allow the engine speed at any gear position to exceed 80% of the maximum speed; do not operate with the throttle fully open.

### Engine speed changes

The speed of the engine should not be kept fixed, but should be changed from time to time to facilitate the matching of the parts.

During the break-in period, it is necessary to apply proper pressure to the parts of the engine to ensure

a perfect fit. But not to place excessive load on that engine.

### Avoid continuous operation at a low speed

Continued operation of the engine at a low speed (light load) will cause excessive wear on the parts, resulting in a poor fit. Engage all gears to accelerate the engine as long as the recommended maximum speed limit is not exceeded, but do not increase the throttle to the maximum during the running-in period.

### The following table lists the maximum engine speeds during break-in


Initial 800km	Below 4000rpm per minute
Reaching 1500km	Below 6000rpm per minute
Over 1500km	Below 8000 rpm

### Circulate the oil before driving

Before driving the motorcycle in the high temperature state and the low temperature state after the engine is running, the engine should have sufficient idle running time to make the oil flow to all lubricating parts.

### **Routine First Maintenance Inspection**

The maintenance for the first 1000km is the most important maintenance work for the motorcycle. All adjustments should be done well, all fasteners should be tightened, and the dirty engine oil should be replaced. Prompt maintenance for 1000km will ensure long engine life and performance.

 <b>Caution</b>
1000km maintenance shall be carried out according to the method described in the periodic maintenance section of this driving manual. The Cautions and Warnings in the Service section should be noted.

*Special note:*

After the initial running-in to 1000km, please entrust the local QJMOTOR dealer service station to replace the oil filter, replace the oil, clean the filter screen, etc. (The subsequent maintenance mileage requirements shall be implemented according to the "Maintenance Mileage Table"). At the same time, the oil level should be checked frequently. If it is neces-

sary to add oil, the special engine oil or the engine oil specified in this manual should be added.

### **Pre-driving Inspection**

Before driving a motorcycle, always check the following. The importance of these checks must not be overlooked. All the inspection items should be completed before driving.

Check the contents	Check the key points
Steering handle	1 Smooth rotation 2) Flexible rotation 3) It shall be free from axial play and looseness
Braking	1) Handle and brake pedal have correct play 2) No spongy feeling of poor braking 3) No oil leakage
Tire	1) Correct tire pressure 2) Proper tread depth 3) No cracks or wounds
Fuel level	Sufficient fuel stock to cover the planned distance

Check the contents	Check the key points
Light	Operate all lights-headlights, position lights, brake lights, instrument lights, turn signals, etc.
Indicator lamp	High beam indicator, gear indicator and turn signal indicator
Horn, front brake handle and rear brake pedal	Normal function
Engine oil	Correct oil level
Throttle	1) The throttle cable has proper play 2) Refuel smoothly and close oil quickly
Clutch	1) The wire rope has proper play 2) Smooth acceleration and deceleration
Drive chain	1) Elastic fit 2) Properly lubricate
Coolant	Coolant level check

## Drive a motorcycle

### Starting of the engine

Turn the ignition key to the "○" position, and make sure that the transmission is in the neutral position, and the neutral indicator on the instrument is on.

Press the start switch "○" on the right handle, and press the piezoelectric start switch "⊗" to start the engine when the throttle is closed.

#### **Caution**

When the transmission is in the neutral position, hold the clutch handle tightly and start the engine.

When the engine is started by electric starting, the ECU will provide the necessary fuel for engine starting according to the ambient temperature and engine conditions.

#### **Warning**

The exhaust gas from vehicles contains harmful substances such as carbon monoxide. Inhalation of these harmful substances can cause serious

**⚠ Warning**

injury and even death.

Do not start the engine in a poorly ventilated or unventilated room. Turn off the engine and power off the motorcycle if left unattended.

**⚠ Caution**

When not driving, the engine should not run for too long, otherwise the engine may overheat. Overheating of the engine can cause damage to internal engine components.

If the vehicle is not to be driven immediately, switch off the engine.

**Start**

Grasp the clutch handle, stop for a moment, and step down the gear lever to engage the first gear. Rotate the throttle control handle towards itself, and at the same time, slowly and smoothly release the clutch handle, and the motorcycle will start to move forward.

**Use a variable speed device**

The transmission enables smooth operation of the engine within the normal operating range. The driver shall select the most suitable transmission under normal conditions. Do not slip the clutch in order to control the speed of the vehicle, but rather slow down the engine to run within the normal operating range.

**Driving on a slope**

When climbing a steep slope, the motorcycle will begin to slow down and appear to be underpowered. At this time, the vehicle should be switched to a low gear so that the engine can resume its normal power output. The gear should be shifted quickly to prevent the vehicle from losing power for a short time.

When going downhill, the vehicle should be switched to low gear to facilitate braking. Be careful not to rev the engine too high.

**Use of brake and stop**

To fully close the throttle, release the throttle control grip while applying the front and rear brakes evenly and downshifting to reduce speed.

Before the motorcycle stops, hold the clutch handle (disconnected position) tightly and change to the neutral position. Observe the neutral indicator in order to identify neutral.

 **Warning**

The braking system is an important safety component. Contact your local QJMOTOR Service Organization service station for brake system repair or replacement. Improper maintenance of the brake system can adversely affect braking performance and may result in death or serious injury.

 **Warning**

Please use the front and rear brakes evenly. Preferring to use either the front or rear brake will accelerate brake wear and reduce braking performance. Driving with excessively worn brakes can result in brake failure, which can cause death or serious injury.

Motorcycles should be parked on solid, flat ground. Don't park where it obstructs traffic. If the motorcycle must be parked on a gentle slope with a side stand, the motorcycle should be put into the first gear to prevent slipping and rolling. Before starting the engine, switch back to the neutral position.

Turn the ignition switch to the "⊗" position to stop the engine. Lock the steering to prevent theft of the vehicle. Remove the key from the ignition.

## Inspection and maintenance

The following table shows the periodic maintenance time limit for the number of kilometers travelled. At the end of each time limit, inspection, inspection, lubrication and specified maintenance must be carried out in accordance with the methods described. The steering gear system, support and wheel system are critical components requiring careful repair by skilled personnel. For the sake of safety, we recommend that you entrust a dealer or service technician to check and repair.

**Maintenance schedule:** I: Check, clean, adjust, lubricate or replace if necessary C: Clean R: Replace  
A: Adjust L: Lubricate

Maintenance items	Content	Cycle	Maintenance mileage	Odometer reading (Note 2)					
				Remarks	1000km	6000km	12000km	18000km	24000km
*	Fuel path								
*	Throttle operation								
	Air filter		Note 1			R		R	
**	Spark plug					R		R	
**	Valve clearance			Every 25000 km: I					
	Engine oil			R		R		R	
	Oil filter			R		R		R	
**	Sperrdruck- / Quenchesystem								
*	Drive chain		Note 3		Every 1000km: I, L, A				
	Worn brake pads								

Content	Cycle	Maintenance mileage	Odometer reading (Note 2)					
			Remarks	1000km	6000km	12000km	18000km	24000km
Maintenance items								
**	Brake system		I, A	I, A	I, A	I, A	I, A	I, A
	Headlight beam adjustment							
	Clutch device							
	Sidestand							
*	Shock absorption system							
*	Nuts, bolts, fasteners	Note 3						
**	Wheel/rim	Note 3						
**	Steering gear							

\* Must be repaired by a dealer: the motorcycle owner shall bring his own qualified tools and motorcycle inspection materials, and shall be repaired by a person holding a mechanic's certificate. If he carries out the repair himself, he shall also Refer to the maintenance instructions.

\*\* It is recommended that this item be repaired by the distribution department or service organization for safety.

Notes: 1. Driving in dusty areas should be overhauled more. In particular, the maintenance cycle of the air filter needs to be shortened, and the first maintenance is 500km.

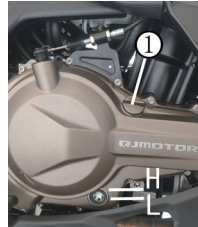
Clean/wash every 1000 km thereafter.

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

3. In order to maintain the good performance of the vehicle, it must be maintained frequently when driving on rough roads and other harsh conditions.

## Oil level and oil change

Before starting the engine, check the engine oil level. When checking the oil level, let the vehicle stand upright on the flat ground, and observe whether the liquid level is between the scale lines L and H through the oil peep window. When the engine oil level is lower than the lower scale line L, open the upper oil filler cap ① and add engine oil to the middle position of the upper and lower scale lines.



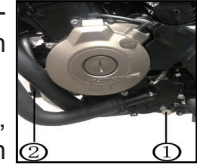
## Replace the engine oil and the oil filter

### Notice

The engine oil shall be replaced when the temperature of the engine is not yet cooled and the vehicle body is supported by the support frame (to ensure that the motorcycle is on the horizontal plane and the vehicle body is vertical), so as to ensure that the engine oil is drained quickly and completely.

The engine oil capacity is approximately 3.2 liters, or 2.9 liters when replaced.

(1) When draining the engine oil, properly place the oil drain basin ② below the oil drain position, remove the oil drain bolt ①, completely drain the engine oil in the tank, reinstall the oil drain bolt with a torque of 20 ~ 25 N. M, and replace the engine oil filter ② according to the following steps:



①. Use the special tool for removing the engine oil filter to clamp the engine oil filter and rotate it counterclockwise to remove the engine oil filter to be replaced.



②. Clean the oil filter and the engine mounting surface with a clean cloth.

③. Use a new oil filter of the same type and apply a layer of lubricating oil on the O-ring ①.

## Notice

Do not remove the oil filter O-rings, as this will cause them to be out of place, resulting in oil leaks or engine damage.

④. Install the new engine oil filter on the engine by hand until it can not be screwed by hand, and then tighten the engine oil filter by a torque wrench with a torque of 15 ~ 20 N.M.

(2) Fill the engine with engine oil that meets the specification for about 2.9 L until the oil reaches the middle position of the upper and lower scale marks.

(3) Install the oil filler cap.

(4) Start the engine, let the engine run at idle speed for several minutes, and then turn off the engine.

(5) Check the oil level again. The oil level must exceed the lower scale line and not exceed the upper scale line. At the same time, there is no oil leakage in the engine.

(6) If the engine oil is splashed, please wipe it clean.

## Spark plug

Use a small wire brush or spark plug cleaner to remove the carbon deposit attached to the spark plug at the first 1000km of driving and every 4000km thereafter, and use a spark plug gap thickness measuring piece to readjust the spark plug electrode gap to keep it between 0.7 and 0.8mm.



Recommended spark plug model: CR8E (NGK)

## Caution

Do not overtighten the spark plug or stagger the threads to avoid damaging the threads of the cylinder head. When removing the spark plug, do not allow impurities to enter the engine through the spark plug hole in the cylinder head.

## Adjustment of throttle cable

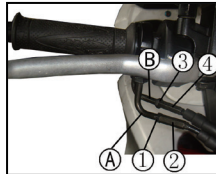
1. Check whether the throttle control handle rotates smoothly from the fully open position to the fully closed position at the left and right full steering positions.

2. Measure the free travel of the throttle control grip at its flange. The standard free travel should be 10° to 15°.



The motorcycle is equipped with the throttle cable of double-wire structure, the throttle cable ① is the throttle line, and the throttle cable ② is the throttle return line. Please follow the steps below to adjust the free travel of the throttle grip:

- (1) Remove the throttle cable dust boot
- (2) Loosen the lock nut ③
- (3) Fully screw in the adjusting nut ④
- (4) Loosen locknut ①
- (5) Turn the adjusting nut ② so that the free stroke of the throttle control handle is 10° ~ 15°.
- (6) Tighten locknut ①
- (7) Adjust the nut ④ to make the throttle handle

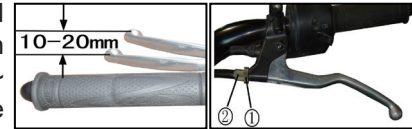


rotate flexibly.

- (8) Tighten the lock nut ③

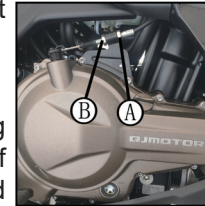
### Adjustment of clutch

The free travel of the clutch shall be 10 ~ 20mm before the clutch starts



to loosen, subject to the end position of the clutch handle. If any abnormality is found, adjust the handle end of the clutch cable as follows:

- (1) Remove the clutch cable dust boot.
- (2) Loosen the lock nut ①.
- (3) Screw in or out the adjusting screw ② to make the free travel of the clutch meet the specified requirements.
- (4) Tighten the lock nut ①.



If the handle end of the clutch cable cannot meet the requirements of the free stroke after being adjusted to the limit position, it can be adjusted by the lock nut

Ⓐ and adjusting nut Ⓑ of the cable and the engine end.

## Engine idle speed adjustment

The motorcycle is equipped with a stepper motor that automatically adjusts the idle speed to the appropriate range. If adjustments are required, contact your local QJMOTOR dealer service station.

## Throttle body

The idle speed of the motorcycle will be reduced due to the pollution of the throttle body. It is better to clean the throttle body every 5000km.

When cleaning the throttle body, disconnect the negative electrode of the battery and the sensor connector installed on the throttle valve; remove the throttle cable, the hose connected to the air filter and the intake manifold, and remove the throttle body. Spray the cleaning agent on the inner wall of the throttle body, and brush off the dust and carbon deposit with a brush.

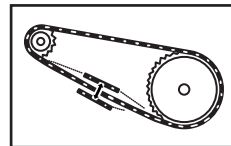
After cleaning, reverse the operation, install the throttle body, and ensure that all components are in place, and try to start the engine successfully.

### Notice

Do not allow impurities to block the bypass.

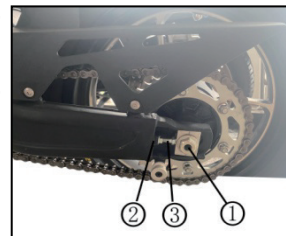
## Adjustment of drive chain:

Every 1000km, adjust the drive chain so that the chain sag is 28 to 35mm. Depending on your driving situation, the chain may need to be adjusted frequently.



Please adjust the chain as follows:

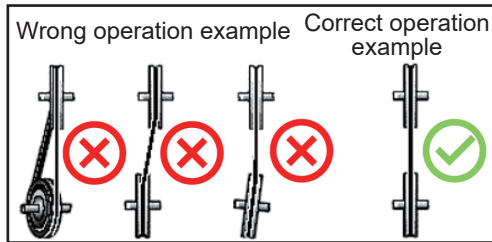
- (1) Support the motorcycle with a support frame
- (2) Loosen the rear axle nut ①
- (3) Loosen the lock nut ②
- (4) Rotate the adjusting bolt ③ to the right or left to



adjust the looseness of the chain between 28mm and 35mm.

- (5) Check the wheel alignment: In order to maintain

the correct alignment of the chain and the wheel, concave scale marks are engraved on the chain adjusters on the left and right sides of the rear wheel. Please check and ensure that the concave scale marks on both sides of the chain are at the same level of scale marks, and confirm the parallelism of the shaft and the flatness of the chain wheel, as shown in the figure below. (Note: A ruler or rope can also be used to check the wheel alignment for correctness.)



(6) Tighten the left and right lock nuts. Re-tighten the rear axle nut with a tightening torque of 100-140N.m. Check the wheel alignment again and check the looseness of the chain at the tightest position of the chain. Readjust if necessary.

### **Warning**

Misalignment of the wheels causes abnormal wear and may result in the motorcycle being driven dangerously.

### **Notice**

When a new chain is installed, both chain wheels must be checked for wear and replaced if necessary.

During the periodic inspection, the chain shall be inspected for the following conditions:

- (1) Loose pin
- (2) Damaged roller
- (3) Dry and rusty chain joints
- (4) Twisted or seized chain joints
- (5) Excessive damage
- (6) Adjust the loose chain

If the chain has the above problems, the sprockets will be very likely to cause damage to it. Inspect the

sprockets for the following:

- (1) Overworn gear
- (2) Broken or damaged gear
- (3) Loose sprocket retaining nut.

## Cleaning and lubrication of the drive chain

Clean the chain with a dry cloth and motorcycle chain cleaner. Clean the dirt on the chain with a soft brush. After cleaning, dry and fully lubricate the chain with a special lubricant for chains.

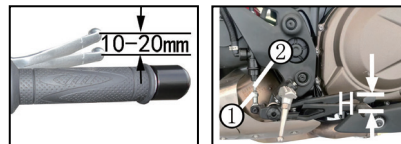
## Brake

The front and rear wheels of this vehicle are equipped with wheel disc brakes. Correct braking operation is very important for safe riding. Remember to check the brake system regularly, and this inspection should be carried out by a qualified dealer.

## Adjustment of brake

- (1) The free travel of the front brake handle end shall be 10 to 20mm.
- (2) Measure the distance that the rear brake pedal moves when the brakes begin to apply. Free stroke

H shall be 5 ~ 15mm.



Do these steps to adjust the free travel of the rear brake pedal:

- (1) Loosen the nut ①.
- (2) Screw in or out the ejector rod ② to adjust the free stroke of the brake pedal.
- (3) After the free stroke meets the specified value, tighten the nut ①.
- (4) After adjustment, the brake shall not drag.

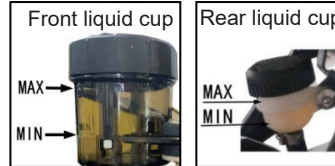
## Friction plate

The main point of checking the friction plate is to check whether the friction plate in the front and rear brake calipers is worn to the notch ① of the bottom line of the groove. If the scratch is worn, the friction plate should be replaced with a new one. If the scratch is worn, the friction plate should be replaced with a new one.



## Brake fluid

After the friction plate is abraded, the liquid in the cylinder is automatically injected into the brake hose and the liquid level decreases accordingly. The front fluid reservoir is installed above the right handle of the vehicle. If the liquid level is lower than the mark MIN of the lower limit scale line of the fluid reservoir, the specified brake fluid shall be added as appropriate; The rear fluid reservoir is installed in the middle of the right side of the vehicle. It shall be ensured that the liquid level of the rear fluid reservoir is between the MIN (or LOWER) and MAX (or UPPER) scales. If the liquid level is lower than the MIN (or LOWER) scale, the specified brake fluid shall be added. Replenishing the brake fluid should be considered a regular service necessity.



## ! Caution

This vehicle uses DOT4 brake fluid. Do not use the residual fluid from the cylinder opening and the brake fluid left over from the last maintenance, because the old fluid will absorb the moisture in the air. Be careful not to splash the brake fluid on the paintwork or plastic surface, it will eat away the surface of these substances.

## Brake system

The brake system to be checked daily is as follows:

- (1) Check the brake fluid volume in the front and rear brake fluid reservoir.
- (2) Check the front and rear wheel brake system for leakage.
- (3) Whether the brake handle and brake pedal have proper travel and are always connected reliably.
- (4) Check the wear condition of the friction plate. If the notch on the bottom line of the groove is exceeded, replace the two friction discs together.

**Warning**

If the brake system or the friction discs need repair, we recommend that you take the job to your dealer. They are fully equipped and skilled to do the job in the safest and most economical way. When the new disc friction plate is just replaced, the brake handle shall be grasped and released for several times, so that the friction plate can be fully extended to restore the normal handle support force, and the brake fluid can be stably circulated.

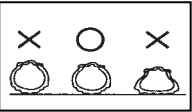
**Notice**

Check the tire pressure when the tire is "cold" before riding.

The tread depth on the tread pattern of the tire crown shall be greater than or equal to 0.8mm. If the tread depth is less than 0.8mm, the tire shall be replaced with a new one.

**Tyre**

The correct tire pressure will provide maximum stability, ride comfort, and tire durability. Check tire pressure and adjust as necessary.



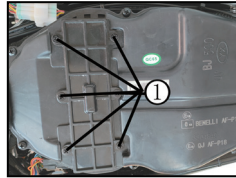
Front tire pressure	220±10 kpa
Rear tire pressure	250±10 kpa

**Warning**

Do not attempt to repair a damaged tire. Wheel balance and tire reliability may deteriorate. Improperly inflated tires will cause abnormal tread wear and threaten safety. Under-inflated tires can cause skidding, or disengaging tires, or even damaging rims, which can lead to a dangerous loss of control. It is a dangerous thing to drive a motorcycle with excessive tire wear, which is not conducive to ground adhesion and driving.

**Air filter maintenance**

The air filter should be maintained regularly, especially when driving in dusty or windy areas.



- (1) Remove the seat cushion and the fuel tank respectively.
- (2) Remove the fixing screw ① of the outer cover of the air filter element, and remove the air filter element.
- (3) Replace with a new paper filter element.
- (4) Reinstall the components in the reverse order of disassembly.

**⚠ Warning**

Do not clean the filter element of the air filter (including blowing dust with compressed air). Any cleaning may cause degradation of the filter element and damage the engine. Replace the filter element every 7000km.

When replacing the paper filter element, the filter element must not be stained with oil or water,

**⚠ Warning**

otherwise the filter element will be blocked and fail. It is recommended that you have this work done by the local QJMOTOR dealer service station.

**⚠ Caution**

If the motorcycle is driven in a more humid or dusty environment than usual, or according to other driving conditions, it is necessary to shorten the replacement interval of the filter element. If the filter element is found to be blocked, damaged, dusty, the engine power is obviously reduced, and the fuel consumption is increased, the filter element should be replaced immediately, and it should not be handled during maintenance. Starting the engine without installing the air filter will cause dust to enter the cylinder and damage the engine.

## Coolant

Coolant Type: Soft water and glycol-based engine specific antifreeze coolant compatible with aluminum radiators. Use the original antifreeze coolant. Use of other coolant/mixtures that do not meet the requirements will cause damage to the engine.



When the new vehicle leaves the factory, the coolant has been installed, and attention should be paid to the inspection of the coolant level in the expansion pot during maintenance.

When the coolant becomes turbid or reaches the maintenance cycle, please visit the local QJMOTOR dealer service station to replace the coolant in time.

When the engine is turned off and cooled, check the coolant in the expansion pot. During the inspection, make sure that the motorcycle is on the horizontal plane and the motorcycle body is vertical. The expansion pot is located under the fuel tank. Observe the coolant volume in the expansion pot

and make sure that the coolant volume is kept between the MIN and MAX marks. If the coolant level is below the MIN mark, remove the expansion pot cap plug and add coolant, or add coolant at the QJMOTOR dealership.

### **Warning**

Do not add the coolant until the engine is turned off and cooled. To avoid burns, do not open the coolant filler cap until the engine has cooled down. The cooling system is under pressure. In some cases, the coolant contains substances that are flammable and, when ignited, produce an invisible flame. Since the combustion of the leaked coolant will cause severe burns, it is necessary to avoid the leakage of the coolant on the motorcycle parts with high temperature.

Because coolant is a highly toxic liquid, avoid contact with and inhalation of coolant, and keep it away from children and livestock. If coolant is inhaled, seek medical advice immediately. If skin or eyes come into contact with coolant, wash immediately with clean water.

### **Catalytic converter**

In order to meet the requirements for environmental emissions, the muffler of this model is equipped with a catalytic converter.

The catalytic converter contains precious metals as catalysts, which can purify harmful substances in motorcycle exhaust, including carbon monoxide, hydrocarbons and nitrogen oxides, and convert them into harmless carbon dioxide, water and nitrogen through chemical reactions.

Because of the importance of catalytic converter, the faulty catalytic converter can pollute the air and damage your engine performance. If you need to replace it, please remember to use genuine parts or have them replaced by the QJMOTOR dealership.



#### **Notice**

The catalytic converter is a high temperature area. Do not touch it.

### **Carbon canister**

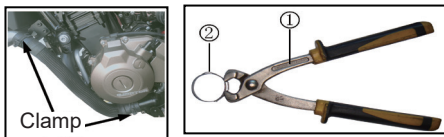
This motorcycle model is equipped with fuel evaporation control device: carbon canister.

The carbon canister is located above the crankcase of the engine, and the carbon canister is filled with activated carbon particles that can absorb vapor, which can effectively inhibit the volatilization of excess fuel vapor into the atmosphere, so as to achieve the purpose of saving fuel and protecting the environment.

### **Assembly and disassembly of radiator water pipe clamp**

After the radiator clamp is removed, special clamp pliers ① are required to reinstall the clamp ②. Otherwise, the clamp will not be assembled in place, which will cause coolant overflow and cause motorcycle failure or personal injury.

When the clamp is removed, the old disposable clamp can not be reused, and the plate clamp can be reused.



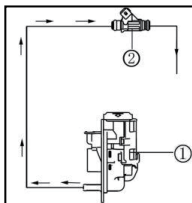
## Fuel injector and oil circuit

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

Please connect the oil inlet and return pipes as shown in the figure.

The rated working pressure of the fuel pump is 300kPa, and the working current is less than 2.2A.

The gasoline filter of the oil circuit of the vehicle is integrated in the oil pump. Do not use the fuel pump of other specifications, so as not to cause the fuel injector stuck and the oil circuit problems.



## Lubrication of parts

Proper lubrication is very important to maintain the normal operation of every working part of your motorcycle, prolong its service life and drive safely. After driving for a long time or after the motorcycle is wet by rain or washed, we recommend that you lubricate the motorcycle. See the figure below for the key points of specific lubrication and maintenance:

Y Lubricating oil for motorcycle

Z Grease

① Rear brake pedal shaft  Z

② Side stand joint and spring hook  Z

③ Shift pedal pin shaft  Z

④ Throttle cable  Y

⑤ Front brake handle pin  Z

⑥ Clutch handle (pin shaft)  Y

## Battery

The battery is located under the driver's seat cushion. The battery equipped for this vehicle is a valve-regulated wet-load free battery. It is strictly prohibited to pry open the shell. There is no need for fluid replacement before and during use.



Read and observe the following precautions before use:

**1. Check the battery terminal voltage when it is used for the first time. When the voltage is less than the 12.6 V, it is necessary to charge: charge voltage  $14.4 \pm 0.02$  V, charge limit current 11.2 a, charge until the current drops to 0.2 a (or refer to the relevant parameters printed on the surface of the battery). If the temperature of the battery is higher than  $45^{\circ}\text{C}$  during charging, stop charging immediately and charge again after the temperature drops.**

**2. The battery terminal red is positive and black is negative. Turn off the power supply during**

wiring, connect the positive electrode first and then the negative electrode; remove the negative electrode first and then the positive electrode during disassembly.

**3. Charging system test: After the vehicle is started, the battery voltage displays between 13.5 V and 15 V, indicating that the charging system is normal.**

**4. Vehicle leakage current detection: turn off the power supply of the vehicle, connect the positive or negative pole in series with the multimeter (current gear), the current is less than 3mA, and the vehicle circuit is normal.**

**5. When the motorcycle is not used for a long time, it should be recharged once a month, or the battery should be removed and placed separately, and the voltage should be detected once every three months. When the voltage is lower than the 12.6 V, it should be recharged. It is not allowed to store the battery in the state of lack of electricity.**

Take out the battery for inspection in the following order:

- a. Turn off the power switch of the motorcycle
- b. Remove the seat cushion
- c. Remove the battery pressure plate
- d. First remove the negative terminal (-) and then remove the positive terminal (+)
- e. Take out the battery gently, and install the battery in the reverse order.

 **Warning**

When reinstalling the battery, make sure that the battery leads are connected correctly. If the battery wires are connected reversely, the circuit system and the battery itself will be damaged. The red line must be connected to the positive terminal (+) and the black line must be connected to the negative terminal (-).

Be sure to turn off the power switch (key) when checking or replacing the battery.

**When replacing the battery, please pay attention to the following**

When replacing the battery, confirm the motorcycle model and verify whether it is consistent with the original battery model. The specification of the battery is considered to be the best match in the design of the motorcycle. If a different type of battery is used, it may affect the performance and life of the motorcycle, and may cause circuit failure.

 **Warning**

The battery will produce flammable gas when it is used and charged, so it should not be close to the open fire or spark when charging.

The battery contains sulfuric acid (electrolyte), which is highly corrosive, so it is necessary to prevent the human body, clothes, vehicles, etc. From contacting the electrolyte. In case of contact, wash it with water immediately. In case of contact with eyes, wash it with plenty of water immediately and seek medical advice in time. Electrolyte contact with the skin or eyes may cause severe burns.

**⚠ Warning**

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

During transportation, the storage battery shall not be subjected to strong mechanical impact and exposure to the sun and rain, and shall not be turned upside down.

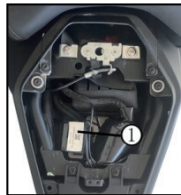
In the process of disassembly and assembly, the battery should be handled with care to prevent throwing, rolling and heavy pressure.

It is strictly prohibited to remove the insulating protective cover of the positive and negative terminals of the battery.

**Replacement of fuse**

The fuse box ① is located under the passenger seat cushion.

If the fuse blows frequently, it indicates that there is a short circuit or that the circuit is overloaded.



Please entrust the service station of local QJMOTOR dealer service station to repair in time.

**⚠ Warning**

Before checking or replacing the fuse, in order to avoid short circuit and damage to other electrical components, the ignition switch should be placed in the "off (⊗)" position.

Do not use fuses beyond the specified specifications, otherwise it will have serious adverse effects on the circuit system, even burn the lights or cause fire, and lose the traction of the engine, which is very dangerous.

**Replacement of bulb (light source)**

The headlight, front position lamp, brake lamp, rear position lamp and steering lamp of this model are all LED. LED is not easy to be damaged. If it is necessary to replace it under special circumstances, please contact the local QJMOTOR dealer service station for help. When replacing a damaged light source, be sure to use a light source with the same rated power. The use of light sources with different

wattage ratings may cause overload of the circuit system and premature damage to the light source.

## Notice

When replacing the light source, the same specification as the original vehicle must be used. The high-power light source will increase the load of the circuit system, which will easily cause battery power loss and other faults.

## Headlamp beam adjustment

The headlight beam can be adjusted up and down in the vertical direction. The beam height adjustment screw ① and ② is located on the back of the headlight. Turn the height adjusting screw ① clockwise to lower the left low beam and high beam simultaneously; turn the height adjusting screw ① counterclockwise to raise the left low beam and high beam simultaneously; turn the height adjusting screw ② clockwise to lower the right low beam and high beam simultaneously; turn the height adjusting screw ② counterclockwise



to raise the right low beam and high beam simultaneously.

## Notice

When adjusting the beam height, the driver should sit on the seat cushion of the motorcycle, with both tires on the ground, and keep the motorcycle in a vertical state for adjustment.

## ABS use and maintenance instructions

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

ABS lamp is on (not flashing), indicating that ABS is in the diagnosis state.

If the ABS lamp is off, it indicates that the ABS is in normal operation.

Flashing of ABS lamp indicates that ABS is not working (or faulty).

If it is found that the ABS indicator keeps flashing, it indicates that the ABS is not working. Please check whether the ABS connector is installed in place and whether the clearance between the ABS wheel speed sensor and the gear ring is within the range of 0.5 ~ 1.5mm.

If the ABS wheel speed sensor is damaged, the ABS indicator on the instrument panel will flash and the ABS will not work. As the ABS wheel speed sensor has certain magnetism, it may absorb some metal substances. Please keep the ABS wheel speed sensor clean and free of foreign matters. Adhesion of foreign matters may cause damage to the ABS wheel speed sensor.

For ABS system failure, please contact the local QJMOTOR dealer service station for repair.

## Storage Guide

### Storage

If the motorcycle is to be stored for a long time, certain maintenance measures should be taken to reduce the impact of long-term storage on its quality.

1. Change the engine oil.
2. Lubricate the drive chain.
3. Drain the fuel tank and fuel injection unit as much as possible.

 **Notice**

Gasoline stored in the tank for a long time will deteriorate, and such oil may cause difficulty in starting.

 **Warning**

Gasoline is highly flammable and may explode under certain conditions. Do not smoke or leave sparks nearby while draining fuel.

4. Remove the battery and store it separately in a place protected from freezing and direct sunlight.
5. Clean and dry the motorcycle. Wax all painted surfaces.
6. Inflate the tire to the appropriate tire pressure. Place the motorcycle on the block so that both tires are off the ground.
7. Cover the motorcycle (do not use plastic or coating materials) and store it in a place without heating, moisture and minimum temperature change. Do not store the motorcycle in direct sunlight.

## End of storage for use

Remove the cover and wash the motorcycle. If it has been stored for more than 4 months, change the oil.

Check the battery, charge if necessary, and then install it in place.

Carry out all pre-trip inspections. Test drive the motorcycle at a low speed in a safe area away from the road.

## Specification and Technical Parameter

Engine	QJ270MS-C, 4-stroke, liquid-cooled	
Displacement	554cm <sup>3</sup>	
Bore×Stroke	70.5mm×71.0mm	
Maximum net power	41.2 kW / 8250 rpm	
Maximum torque	54.0N·m / 5500rpm	
Drive system	Chain drive	
Clutch	Wet multi-piece	
Ignition mode	ECU electronic control ignition	
Starting mode	Electric	
Oil reservoir capacity	16.5L±0.5 L	
Curb weight	194kg	
Length x width x height (Excluding rearview mirror)	2106×776×1155mm	
Wheelbase	1420mm	
Tire	Front: 120/70ZR17 Rear: 160/60ZR17	
Brake mode	ABS braking	Front: Dish
		Rear: Dish
Type of fuel	Lead-free clean gasoline	
Maximum design speed	180km/h	