



**QJMOTOR**

---

---

---

***LTR150 | OWNER'S MANUAL***

# PREFACE

Welcome to the world of motorcycling!

As the owner, you are benefiting from the vast experience and newest technology regarding the design and manufacture of high-quality products, which have earned us a reputation for dependability.

Please take the time to read this manual thoroughly, so as to enjoy all advantages of your vehicle. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your vehicle, but also how to safeguard yourself and others from trouble and injury.

In addition, the many tips given in this manual will help keep your vehicle in the best possible condition. If you have any further questions, do not hesitate to contact your dealer. Our team wishes you many safe and pleasant rides. So, remember to put safety first!

Our company continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your vehicle and this manual. If there is any question concerning this manual, please consult your dealer.

# IMPORTANT NOTES

1. Rider and passenger

The motorcycle is designed to be used by only one rider and one passenger.

2. Road conditions for riding

This motorcycle is suitable for riding on-road.

3. Please read this operation and maintenance manual carefully. Following the break-in instructions in this manual will keep your motorcycle running stably and allow the engine to reach its full performance.

Please pay special attention to matters preceded by the following words:

**Warning:** means that casualties may be caused if the methods in this manual are not followed.

**Caution:** means that if the methods in this manual are not followed, personnel may be injured or parts may be damaged.

**Note:** provides useful information.

This operation and maintenance manual shall be regarded as a permanent part of the motorcycle. Even if the vehicle is sold to a new owner, this operation and maintenance manual shall be handed over to the new vehicle owner.

It is strictly prohibited to copy or reprint any part of this manual.

Special engine oil is used for lubricating parts of this vehicle.

## SPECIAL NOTICE

**Warning:** this motorcycle is equipped with a main fuse that must meet the standard requirements to run safely. DO NOT use fuses of incorrect specifications or other conductive objects; otherwise it will lead to damage to parts, fire, and/or a serious accident.

### **Pay special attention:**

\*When installing or replacing the battery for the first time, pay attention to distinguish between positive and negative connections. If the battery connections are reversed, please check if the main fuse is intact. However, if the fuse is intact or not, take the motorcycle to your maintenance center for inspection to prevent damage to electrical components due to the reversed battery connection. If any damaged components continue to work, they could lead to some unpredictable faults;

\*Before replacing the fuse, turn off the ignition switch to prevent accidental short circuits;

\*Do not damage the fuse bayonet when replacing the fuse, otherwise it will cause poor contact, component damage and even accidental fire.

**Loading:** DO NOT change the location of original accessories or add any that will change the vehicle handling characteristics. Adding arbitrary accessories will seriously affect

the stability and safety of your motorcycle and could lead to loss of control or operational issues. Meanwhile, according to road traffic safety laws, no unit or individual shall assemble motor vehicles or change the registered structure, structure or characteristics of motor vehicles without authorization.

QJMOTOR Motorcycle will not bear all quality problems and consequences (including loss of warranty) caused by users' unauthorized modification or installation of unauthorized parts. The user is requested to comply with the regulations of the traffic management department on the use of vehicles.

When riding your motorcycle, ALWAYS wear a motorcycle helmet that meets the national road safety standard.

## Table of Contents

<b>Safety Precautions for Operation</b> .....1	Drive safely.....15	Coolant inspection, replenishment.....21
Safe riding tips.....1	Speed adjustment is controlled by throttle control .....15	<b>Maintenance inspection</b> .....22
Wear a safety helmet.....1	Moderate driving can prolong the life of engine.....15	Replacement and replenishment of engine gear oil.....22
Protective apparel.....1	Use of front and rear braking.....15	Parts lubrication.....22
Precautions for riding on rainy days.....1	Do not brake or turn aggressively.....16	Air box drain hose.....23
Loading.....1	Drive very carefully on rainy days & wet roads.....16	Spark plug.....23
<b>Motorcycle serial number</b> .....2	Parking .....16	Engine idle speed.....23
<b>Parts Location</b> .....2	Troubleshooting.....16	Throttle body.....23
<b>Meter &amp; Indicators</b> .....3	<b>Pre-ride inspection</b> .....17	Fuel injector and fuel circuit.....24
<b>Operation Guide</b> .....7	Front and rear brake inspection.....17	Tires.....24
Key.....7	Fuel inspection and replenishment.....18	Tire pressure.....24
Ignition switch.....8	Oil inspection and replacement.....18	Headlight beam Adjustment.....25
Passive keyless entry (optional).....8	Steering stem bearing check.....20	Light Bulb (light source) Replacement.....25
Mechanical ignition switch.....9	Brake light inspection.....20	Fuses.....25
Right handlebar switch .....9	Turn signal light inspection.....20	Battery.....25
Left handlebar switch .....10	Inspection of headlights, front lights and tail light.....20	Air filter.....26
USB interface.....11	Tire inspection.....20	Catalytic converter.....27
Storage box.....11	Front and rear shock absorption inspection.....20	Carbon canister.....28
Battery.....11	Speedometer function check .....21	ABS Usage and maintenance Instruction (optional).....28
<b>Fault Mode and troubleshooting of automatic start and stop</b> .....12	Horn inspection.....21	<b>Storage Guidelines</b> .....28
<b>Starting motorcycle</b> .....13	Rear view mirror inspection.....21	<b>Specifications and Technical Parameters</b> .....29
<b>Starting note</b> .....13	License plate inspection.....21	<b>Maintenance schedule</b> .....30
<b>Setting off</b> .....14	Exhaust pipe inspection.....21	<b>Emission Control System Warranty</b> .....31
Retract the center stand or side stand.....14		<b>Reporting Safety Defects</b> .....35
Releasing the brake lever.....14		<b>California Proposition 65 Warning</b> .....36
Slowly rotate the throttle grip.....15		

## Safety Information

### Safe riding tips

1. The vehicle must be inspected before driving in order to avoid accidents and damage to the vehicle.

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 who do not have a driver's license or who are not qualified to drive.

3. In order to avoid the harm of other motor vehicles, the driver should be as conspicuous as possible. To this end, please:

- Wearing brightly colored clothing.
- Do not ride close to other motor vehicles.

4. Strictly abide by traffic rules and do not speed through traffic.

5. Most accidents occur because of speeding, so the speed must not exceed the maximum speed limit of the road section.

6. Turn on the turn signal indicators early 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.

8. Be sure to drive with both hands. Driving with one hand is extremely dangerous. The occupant should hold the safety handrail tightly and step on the pedals with both feet.

9. 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.

10. The configuration of accessories must not affect the driving safety and operating performance of the motorcycle, especially the overload of electrical systems will easily cause danger.

11. Don't run the engine in a closed space. Exhaust fumes can cause harm to people's health.

### Wear a safety helmet

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

### Protective apparel

You must be comfortable and colorful. Do not allow any loose clothing to get caught in the levers, this could cause an accident. In order to drive safely, please wear flat shoes.

### Precautions for riding on rainy days

Special attention should be paid to slippery roads on rainy days, because the braking distance is longer on rainy days. Please avoid painted street markings, manhole covers and oily pavement when driving to avoid skidding. Be particularly careful when passing through railway crossings, railings and bridges. If the road conditions can not be clearly judged, driving should be slowed down significantly.

### Loading

When the motorcycle is overloaded, there will be an abnormal sense of direction, overload may cause accidents or damage to the motorcycle, please note:

- The maximum load of the under seat storage box is 22 lbs.
- the maximum load of the front box is 3.3 lbs.
- the maximum load of the rear luggage rack is 6.6 lbs.

## Motorcycle Serial Number

Frame numbers and engine numbers are used to register motorcycles. When ordering accessories or requiring special services, this number enables the distributor to provide you with better service.

Please record the number for reference.

① Frame number: engraved at the end of the frame (under the seat).

② Product badge: riveted on the middle and lower mounting seat on the right side of the frame.

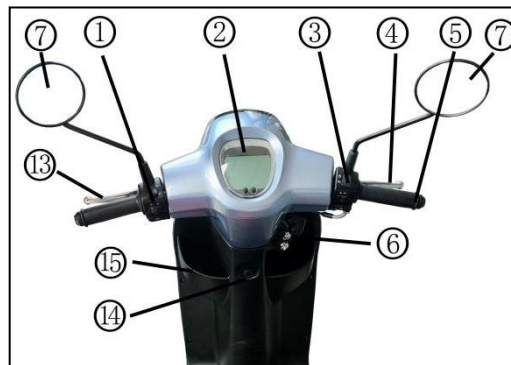
③ Engine number: engraved at the bottom of the engine on the left side of the crankcase.

Frame number: \_\_\_\_\_

Engine number: \_\_\_\_\_



## Parts Location



- |   |                         |
|---|-------------------------|
| (1) Left handlebar switch               | (10) Side stand         |
| (2) Speedometer                         | (11) Center stand       |
| (3) Right handlebar switch              | (12) Under seat storage |
| (4) Front brake lever                   | (13) Rear brake lever   |
| (5) Throttle                            | (14) Luggage hook       |
| (6) Ignition switch                     | (15) Front box          |
| (7) Rear view mirror                    | (16) Passenger footrest |
| (8) Battery position (under floorboard) |                         |
| (9) Passenger grab rail                 |                         |

**Note:** this model is equipped with either CBS braking or ABS braking.

**Note:** the pictures in this manual are for reference only, they may differ from your actual product.



## LTR150 model status



## Meter & Indicators

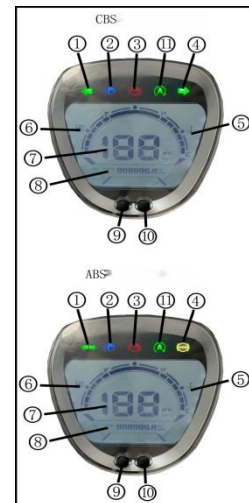
### (1) Left turn signal indicator or left and right turn signal indicator (optional)

a) If the model you choose is a non-ABS braking model: this graphic symbol is a left steering signal light indicator. When the steering signal of the left handle is hit to the left, the green turn of the instrument panel indicates that the light will flicker accordingly.

b) If you choose a model for ABS braking status: this graphic symbol is a left / right steering signal indicator. When the left hand turn signal to the left or right, the instrument panel green to the left or right turn indicates that the light will flicker accordingly.

### (2) High beam headlight indicator:

When the headlight high beam is lit, the blue highlight indicator lights up and displays the "H" sign.



### **(3) Engine failure indicator:**

When the ignition switch is switched on, the engine fault indicator light will come on and the fuel pump will cycle for 3 seconds. Start the motorcycle, if the indicator light turns off, operation is normal and without codes; if the indicator light is on, there is a stored fault code. While riding at any time if the fault indicator lights up, you should stop the engine immediately and contact your dealer to have the motorcycle inspected before further use.

### **(4) Right turn signal indicator or ABS indicator**

**(optional):** Ⓐ If the model is a non-ABS braking model: this graphic symbol is a right turn signal light indicator. When the turn signal switch is pressed to the right, the instrument panel green light turns on to the right indicating that the light will blink accordingly.

Ⓑ If the model is an ABS model: this graphic symbol is the ABS indicator light showing the working status of the ABS system, as described in the following: "ABS use and maintenance instructions" (p. 20).

### **(5) Coolant temperature display:**

Indicates the temperature of coolant in the vehicle, the

"C" position indicates a low coolant temperature, and the "H" position indicates a high coolant temperature.

### **(6) Fuel gauge:**

Represents the amount of fuel in the fuel tank. When the indicator of the fuel meter is in the E area, when the fuel level is 1 grid or less than 1 grid, the fuel indicator symbol will keep flashing, indicating that the fuel is insufficient, please refill the fuel as soon as possible.

### **(7) Speedometer:**

The speedometer indicates the current speed.

### **(8) Odometer:**

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

Small mileage (TRIP): a mileage meter that can be cleared and records the range mileage for a certain period of time. In the small mileage (TRIP) state, press and hold (9) to clear the small mileage to zero.

Total mileage (TOTAL): records the full mileage that has been driven.

The default unit is mph. You can choose whether to display mileage unit in km/h or mph by using the (9) button.

**(9) Left function button A:**

Function	Power Supply	Displayed	A (left button)	Results
Mileage function switching	one	TOTAL	<3 seconds	TRIP A
		TRIP A	<3 seconds	TRIP B
		TRIP B	<3 seconds	TOTAL
		TRIP A or TRIP B	>3 seconds	TRIP A or TRIP B zero clearance
Unit switching		TOTAL	>3 seconds	Speedometer and odometer unit miles switch

**(10) Right function button B:**

Press and hold for >3 seconds to adjust the clock (24h format).

**(11) Automatic start and stop function indicator**

The automatic start and stop control unit (SSCU) is installed in the right rear of the frame and to the lower right of the fuel tank. When the automatic start and stop control unit detects an anomaly, the indicator light will be displayed in different long and short flash patterns.

Function number	Pattern description	Detailed instructions.	Automatic start and stop indicator status
1	Start and stop function activation	1. Automatic start and stop enable switch: On 2. Engine cylinder head temperature > 149°F 3. First ride speed > 10mph and lasts 3 seconds 4. System voltage > protection voltage of electric cell Note: after the above four are satisfied at the same time, the automatic start and stop indicator light is lit and the automatic start and stop function is activated.	After the automatic start and stop function is activated, the indicator light is temporarily on until the mode is switched.
2	Automatic	When the first mode is valid, the following situations are	After the automatic stop function is

	stop	<p>met at the same time</p> <ol style="list-style-type: none"> <li>1. Engine cylinder head temperature &gt; 149°F</li> <li>2. Throttle &lt; 1.5%</li> <li>3. Speed &lt; 3mph, status duration 3 seconds</li> <li>4. System voltage &gt; protection voltage of electric cell</li> </ol> <p>Note: after the above four items are satisfied at the same time, the automatic stop function is performed. During this period, if the mode conversion function that triggers the side stand stop mode or starts and stops the enable switch has been activated, the automatic stop will temporarily fail and the first mode needs to be reactivated in order to be effective.</p>	activated, the indicator light is temporarily in a uniform flashing state until the mode is switched.
3	Automatic start	<p>When the second mode works, the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Throttle opening &gt; 2.5%, engine start automatically</li> </ol>	After the automatic start function is activated, the indicator light is temporarily on until the mode is switched.
4	Side stand switch	<ol style="list-style-type: none"> <li>1. When the side stand switch is active, and the state duration is more than 0.3 seconds into the side stand protection stop mode.</li> </ol>	After the side stand stop function is activated, the indicator light will temporarily go out until the mode is switched.
5	Fault indication	<ol style="list-style-type: none"> <li>1. Over-current: solid</li> <li>2. Over-voltage: one long and two short</li> <li>3. Hall: one long and three short.</li> <li>4. CAN communication: flashes abnormally</li> </ol> <p>Over-current, SSCU will send out instructions Over-voltage, SSCU will send out instructions Hall anomaly, SSCU will issue stop instructions)</p>	The display indicator will flash a different light pattern indicating the current fault type.
6	Under voltage and power loss protection	<ol style="list-style-type: none"> <li>1. When voltage is protected by the battery: when the charging is abnormal, the automatic stop function is temporarily interrupted, and when the battery is charged to the allowable SOC, the automatic stop function will be reactivated.</li> </ol>	The instrument TOTAL area displays the "BATT--" charging mark and continues to flicker until the battery charging protection state is switched.

# Operation Guide

## PKE Key (if equipped)

This model is selected with electronic remote control key and mechanical key.



### 1. Passive keyless entry (PKE) enabled key:

Press the PKE enable key (1) on the remote control, the turn signal lights flash once, the horn sounds and the PKE function starts; press the PKE enable key again, the turn signals flash twice, the horn sounds twice, and the PKE function is turned off. The remote control key is within 1.5 meters of the vehicle controller (that is, the remote control key is with you), and the power lock knob (A) After pressing, verify the legitimacy of the key and verify that the turn signals are on after passing. (B) 5 seconds (blue), direction lock relay suction 5 seconds, turn signals light once, horn sounds once.



After the whole vehicle is powered on, the turn signals turn off, long press the search key or press the unlock key or press the PKE enable key, the controller does not respond. Press the PKE enable key on the remote control key for 3 seconds, the turn signals flash once, the horn sounds once, and the PKE function is activated; press the PKE enable key on the remote control key again, the turn signals flash twice, the horn sounds twice, and the PKE function is turned off.

### 2. unlock key:

after the PKE function starts, press the unlock key on the remote control key, the power lock light turns on for 20 seconds, the directional lock is active for 20 seconds, the turn signals flash once, the horn sounds once, 20 seconds later, the directional lock lock stops, the turn signals flash twice, and the horn sounds twice.

### 3. search button:

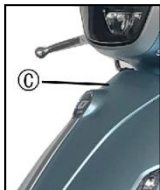
Press the search key on the remote control key and the turn signals flash five times.

### 4. key indicator:

when performing any of the above actions, the key indicator light will indicate as such.

### **Electronic remote control key emergency unlock function:**

Inside the plastic parts at the front of the front of the vehicle (figure) © is equipped with an electronic remote control key signal antenna. When the electronic remote control key is dead, with the remote control key close to the antenna position (about 1.5-2inches). The key less controller (PKE) can sense the remote control key and unlock the power supply.



### **Electronic remote control key battery replacement:**

Open the key from the middle gap on both sides of the electronic remote control key, push the button battery (5) out of the mounting seat, replace the button battery with a new specification CR 2032 3Vbattery, and pay attention to the positive (+) upward installation.



### **Power lock**

This model is available with a key less power lock or a common power lock.

### **key less power lock (optional)**

"OPEN" position, you can insert the key operation into the

upper keyhole; when the lower switch is dialed to the "SHUT" position, the upper keyhole is closed, and the upper keyhole is opened only when the "key handle switch" is redialed to the "OPEN" position.

"ON" Mark: Turning the key to the "ON" marked position, the power is turned on, the engine can be started, and the key cannot be taken out.

The "OPEN" tag. Turn the key to the "OPEN" position, and you can open the seat cushion by pressing the right SEAT button.



"OFF" Mark: Turnngin the key to the "OFF" marked position, the power is turned off, the engine cannot start, and the key can be removed.

"LOCK" Mark: Turn the switch direction to the left, press in the key to the "LOCK" marked position, remove the key, and the handlebars are locked. If you want to unlock, insert the key and turn it to the "OFF" marked position, the front steering lock is automatically unlocked.

"SEAT" position: when you turn to the "SEAT" tag, press the right SEAT identification button to open the seat.

**Note:**

After opening the seat, and you are done removing or placing items inside, be sure to return the lock switch knob to the "OFF" position to lock the seat. If the lock switch is left in the "SEAT" position, others can also open the seat, which could lead to the loss of property or your seat.

**Note:**

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

**Mechanical ignition switch**

The ignition switch has the additional function of a magnetic anti-theft device.

When you turn the lock switch of the ignition switch to the "OPEN" position, you can insert the key into the upper keyhole; when the lock switch is turned to the "SHUT" position, the upper keyhole is closed, and the upper keyhole is opened only



when the "key handle switch" is returned to the "OPEN" position.


"ON" Mark: Turning the key to the "ON" marked position, the power is turned on, the engine can be started, and the key cannot be removed.

"OPEN" Mark: Turning the key to the "OPEN" marked position, you can open the seat by pressing the right "SEAT" identification button.


"OFF" Mark: The key turns to the "OFF" marking position, the power is cut off, the engine cannot start, and the key can be taken out

"LOCK" Mark: Turn the direction of the vehicle to the left, press down the key to the "LOCK" marking position, take out the key, and the front turn is locked. If you want to open, insert the key and go to the "OFF" marking position, the front steering lock is automatically unlocked.



**Right handlebar switch****1. automatic start and stop switch**



 When the switch is in this position, it indicates that the automatic start and stop function is enabled (on).




 When the switch is in this position, it indicates that the automatic start and stop function is disabled (off).

## 2. Hazard light switch

"" Mark: When the light switch button is in the "" marked position, the left and right turn signal lights flash and blink at the same time, warning of danger.

"" Mark: When the hazard light switch button is in the "" marked position, the left and right steering lights stop flashing.

## 3. electric starting switch

"" Mark: When holding the brake lever, press the electric starting switch button, and the engine will start.

### Note:

Once the engine starts, immediately release the electric starting button, do not press the electric starting button while the engine is running; do not press the starting button for longer than 3 seconds at a time, wait at least 10 seconds between button presses, and do not attempt to start the unit if it will not start after 5 attempts, so as to prevent excessive battery discharge and use it only after eliminating any possible faults.

## 4. front brake lever



Pull the front brake lever with your right hand slowly as you brake. When the brake lever is pulled, the brake light will be turned on automatically.

## 5. throttle

The throttle is used to control the speed of the engine. When you want to speed up, you should turn the throttle rearward, on the contrary, release the throttle to achieve the purpose of deceleration.



## Left handlebar switch

### 1. headlight high and low beam switch

"" Mark: When the headlight high and low beam switch button is in the "" marked position the



high beam light is lit, while the blue highlight indicator on the dashboard is lit.

"" Mark: When the headlight high and low beam switch button is in the "" marked position, the low beam light is lit.



## 2. horn switch

When the ignition switch is in the "ⓘ" position, press the horn button and the horn will sound.

## 3. turn signal switch

Turn the switch to the "↶" position, the front left / rear left turn signal flashes, turn the switch to the "↷" position, and the front right / rear right turn signal flashes. When the turn signal is switched on, the green turn signal indicator on the dashboard flashes accordingly.

Turn off the turn signal by moving the switch back to the middle position or pressing the middle button.

### Warning:

Turn on the turn signal indicator ahead of when you want to turn or change lanes. After turning, turn off the turn signal in time so as not to affect the normal operation of other vehicles and avoid accidents.

## 4. rear brake lever

When braking, pull the left brake lever with your left hand slowly. When the brake handle is pulled, the brake light will be turned on automatically.

## USB interface

There is a (5V/2A) USB interface on the left side of the inner leg shield



of the vehicle, which can be used to charge components such as mobile phones.

## Storage box

The storage box is located directly below the seat. Press the "SEAT" button, the seat pad will be released, pull up on the seat pad to gain access. Close the seat and gently press the rear of the cushion to lock it. When a helmet is placed inside, face the opening downward for a proper fit.

### Note:

The maximum carrying capacity of the storage box shall not exceed 22lbs, and the load of the front leg shield storage shall not exceed 3.3lbs.

After placing any objects inside, please make sure that the cushion is actually locked.

Because the engine temperature is very high, low heat resistant articles, such as food and flammable items should not be placed inside.

Please do not place valuables in the storage box. When washing the vehicle, water will be present, so pay special attention to the important items in it.

## Battery

(1) This model is equipped with a



maintenance-free battery, battery specification is 12V/8.6AH.

(2) The battery is installed below the foot board.

(3) To remove the battery: turn off the ignition switch, unscrew the screws securing the battery box cover with a screwdriver, remove the battery box cover, remove the negative pole and positive pole installation bolt from the battery, then remove the battery. When installing the battery, please proceed in the reverse order of removal.

## **Fault Mode and troubleshooting of the automatic start and stop system**

1. There is no response to the start button, check the system as follows: the power supply abnormal start button signal fails / the brake button signal fails side stand to enable the relay to turn off SSCU abnormal.<sup>1,2,3</sup>

2 .The engine turns over but does not start, check the system as follows: the power supply abnormal trigger signal is abnormal, the fuel supply is

---

<sup>1</sup> side stand enable: side stand switch in side stand down state, signal pull down mode, may also be short circuited to ground

<sup>2</sup> switch enable: the stop signal is in the stop state, the signal is pulled down, and it may also be short-circuit grounding

<sup>3</sup> SSCU exception: start and stop controller hardware exception or software exception

abnormal, the ignition is abnormal, can be idle stepping motor failure / SSCU abnormal ECU anomaly.

3. If the automatic start and stop function can not be triggered, the investigation ideas are as follows: start and stop enable switch abnormal temperature / speed abnormal throttle position abnormal SSCU abnormal.

4. The starting function of the throttle is invalid, and the train of thought is as follows: the position of the throttle is too small and the relay is abnormal SSCU.

5. The stop and flameout function of the turpentine is invalid, and the train of thought is as follows: the abnormal communication speed is abnormal, the temperature is abnormal, the position of the throttle is not returned to zero, and the under voltage charging circuit of the battery is abnormal / SSCU abnormal.<sup>4</sup>

6. The glittering mode of the fault lamp is as follows: Over current: magnetic motor coil short circuit / SSCU anomaly.

Over voltage: abnormal cylinder flywheel / SSCU anomaly. Hall anomaly: Hall harness anomaly Hall sensor abnormal / SSCU anomaly.

CAN communication exception: CAN signal abnormal CAN bus abnormal SSCU abnormal ECU exception.

7. Under voltage protection: battery power loss

---

<sup>4</sup> Battery under voltage: if the battery loses power below the set value of the system, the automatic flameout function will be temporarily interrupted.

too cold charging fuse battery contact bad SSCU charging connector is not reliable SSCU abnormal

8. Suddenly flameout while driving, at the same time the fault lights flicker, check the train of thought as follows:

Over current: short circuit coil short circuit SSCU anomaly

Over voltage: abnormal SSCU charging

Hall anomaly: Hall harness anomaly Hall sensor abnormal SSCU anomaly

## Starting motorcycle

1. Check the fuel quantity and oil level before starting the engine. The fuel quantity should meet the needs of the expected mileage, and the oil level should be within the upper and lower limits of the dipstick. If the oil quantity is insufficient, please add it before you start the engine.
2. Support the motorcycle with the center stand to lift the rear wheel off the ground.
3. The power lock the master switch and go to the "⊙" position.
4. Pull the brake handle firmly and press the electric starter button on the right handlebar switch to start the motorcycle.

### Warning:

Irregular operation of the engine starting procedure may pose a danger. If the unit is not supported by the center stand when starting the engine, turning the throttle will cause the unit to suddenly take off. Use the center stand when starting the engine, and only when idling, take it off the stand. Therefore, before operation, do not rotate the throttle, so as to avoid accidents or other risks.

Do not start the engine in poorly ventilated places. Exhaust gas is toxic, the engine should be turned off when indoors.

### Note:

When you are not driving, please do not leave the engine idling for a long period. Idling for too long can overheat the engine and damage its internal parts.

### Note:

1. Attention when starting: after applying the brake, press the electric start switch slightly, the intelligent silent start and stop system will automatically start, after starting it will automatically switch to power generation mode; you do not need to hold down the electric starting button for a long time, the whole system will start automatically, for a maximum of 3 seconds, if the system fails to start in 3 seconds, you can turn the power generation start switch into starting mode again.

2. Maintenance note: if in the process of vehicle maintenance, maintenance personnel are allowed to operate the electric starting button for a long period of time, each time up to 10 seconds, with a attempt interval of more than 30 seconds between attempts.

3. Under voltage note: if the vehicle is parked for a long period of time, or the battery is in poor condition, the side stand automatic stop function is likely to be temporarily interrupted. If the system detects the battery is under voltage, the system will temporarily interrupt the automatic stop function until the under voltage fault is corrected. If the battery is very low on voltage, the vehicle cannot be started, at the same time pay attention to note #4.

4. Abnormal idle speed note: if the battery is very low on voltage, the EFI system cannot perform the idle stepper motor reset, at this time the stepper motor must be reset. First ensure that the battery is charging to the normal voltage, then turn off the key, wait 5 seconds, then attempt to start again.

If you encounter other difficult problems during use that cannot be solved, please contact after-sales service personnel or professionals.

## Setting Off

### (1) Retract the center stand or side stand

Push the vehicle forward and the center stand support will retract automatically.

If you use the side stand when stopped, lift the vehicle vertically, then gently kick the side stand back to its original position, step onto the vehicle from the left, and touch the ground after sitting on the seat to prevent falling.

#### **Use caution:**

After starting the motorcycle, the brake should be applied until you begin driving.

#### **Warning:**

Before driving your motorcycle, you must carefully check the position of the side stand. If the side stand is not in the retracted position, when making a left turn, it may cause the side stand to hit the ground and cause the motorcycle to lose its balance and cause an accident.

### (2) Releasing the brake lever

#### **Warning:**

When the brake lever is released, do not quickly rotate the throttle to avoid the danger of a sudden increase in vehicle speed, resulting in the vehicle taking off too quickly.

**(3) Slowly rotate the throttle rearward, the motorcycle will begin to move forward**

**Warning:**

Throttle control grip should not be rotated quickly to prevent the vehicle from suddenly taking off.

**(4) Drive safely**

Once the vehicle has started, check the function of the turn signals, horn, adjust the view field of the rear view mirrors, and confirm the vehicle is safe before driving.

**(5) Speed adjustment is controlled by throttle control**

Turn the throttle rearward to increase vehicle speed, rotation should be slow and smooth. When riding or going uphill, slowly turn the throttle to increase speed, and the power will increase.

To slow down or stop, release the throttle, it will return to closed automatically.

**(6) Moderate driving can prolong the life of the engine**

The first 1000mi of use is the break-in period of

the engine. Please keep it below 35 miles per hour and avoid rapid acceleration. Follow the table below:

Mileage mi	0-185	185-300	300-685	685-930
Speed mph	15-20	20-25	25-30	30-40

The gearbox oil should be replaced while the engine is hot after the break-in period.

**(7) Use of front and rear braking**

Please use the front and rear brakes at the same time when the throttle is closed.

Braking should be "slow" at the beginning, and then increased as needed, which is the ideal braking method.

**Warning:**

The speed of the vehicle is proportional to the braking distance needed. Please be sure to estimate the distance between the vehicle or object in front of you and maintain a sufficient safe distance.

Inexperienced people often only use the rear brake, the use of single-wheel braking can easily make the vehicle unstable and slip, at the same time, it will accelerate the wear and tear of the brake, use caution.

### **(8) Do not brake or turn aggressively**

Emergency braking or sharp turning is the main cause of slippage and crashes, which is very dangerous.

### **(9) Drive very carefully on rainy days & wet roads**

Wet and slippery road surfaces on rainy days, braking distances will be increased, slow down, at the same time maintain enough safe distance from other vehicles, be sure to allow appropriate braking distance.

Going downhill, return the throttle to the closed position, and implement a moderate intermittent brake application to slow down.

### **(10) Parking**

When approaching a parking place

Turn on the turn signal beforehand, observe the objects behind you in the mirror, pay attention to any passing vehicles, and slow down. Close the throttle, use front and rear brakes, brake lights will turn on to warn those behind you.

#### **When parked**

Turn off the turn signal and turn the ignition switch to the "⊗" position.

Support the center stand on a flat surface, do not hinder traffic, if the terrain is uneven, the vehicle can easily fall.

The left hand grasps the handlebar, the right hand grabs the handrail next to the saddle, step on the center stand lever, and pull the vehicle back with the right hand. When the vehicle is stable, be sure to lock the steering and remove the key in case of theft.

### **(11) Troubleshooting**

If the engine does not start properly, please check the following items:

- A. Whether there is enough fuel in the fuel tank.
  - B. Carry out several starting attempts to check whether the fuel flows to the injector.
  - C. If fuel flows to the injector, the ignition system should be checked.
  - D. Remove the spark plug and touch it to the metal crankcase of the engine and press the start button.
- Check if there is spark at the spark plug, if no spark, please bring your vehicle to an authorized dealer for repair.

**Warning:**

After reinserting the spark plug into the cap keep it far from the spark plug hole while checking spark, if the plug is too close to the opening it could ignite the fuel charge, posing a fire risk.

**Note:**

If unsure of the vehicle failure, please contact your dealer in a timely manner because they have the best technology and corresponding special tools to provide you with the best service. In particular, when your motorcycle is under warranty, do not remove the parts on the motorcycle on your own, which will affect your vehicle warranty.

**Pre-ride Inspection**

Carrying out a vehicle inspection before driving can avoid accidents caused by many faults and ensure your driving safety.

**Front and rear brake inspection**

## 1. brake lever free play

The recommended free play for the front and rear brake levers is 10-20mm.

"Free play" refers to the distance between the end of the brake handle and the braking action. The brake lever should not only have appropriate free play, but also operate smoothly and without binding.

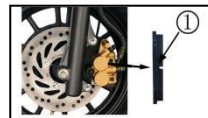
## 2. whether the braking performance is normal or not

When driving on a dry road, slow down using the brakes to see if the braking effect is good before and after. And adjust often to ensure the best braking performance.

## 3. brake fluid

This vehicle uses DOT4 brake fluid. Do not refill brake fluid using an open container, as the old liquid will absorb water from the air. Be careful not to splash brake fluid on painted or plastic surfaces, which can erode the surface of these materials.

Note that the amount of liquid stored in the brake reservoir should be checked. If the storage volume is reduced to the lower limit, the specified brake fluid should be added to the upper limit. When the brake pads are worn, the liquid stored in the cylinder is automatically injected into the oil pressure hose and the liquid level is reduced.



#### 4. front brake pads

Always check whether the wear of the brake pads has reached the limit mark 1. If the wear reaches the limit mark, new brake pads should be replaced in time to maintain the best braking performance.

##### **Warning:**

After a rear brake adjustment, the concave part of the adjusting nut should be aligned with the outer circle of the rocker arm pin in order to prevent a change in braking that could lead to an accident.

If the braking system or brake pads need to be repaired, we strongly advise you to have the work performed by your authorized dealer.

The disc braking system uses hydraulic pressure. For your safety, brake hoses should be replaced every four years and brake fluid should be replaced every two years.

After brake pad replacement do not ride right away, first pull the brake lever a few times so that the brake pads are fully seated and the brake lever returns to normal resistance, and so that the brake fluid is distributed. Also, check the braking performance by driving at slow speed while braking to ensure their proper operation.

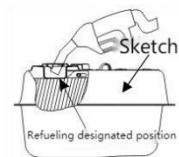
#### **Fuel inspection, replenishment**

The fuel is enough to drive as planned.

When the fuel meter is close to the E mark, it means that there is not enough fuel in the tank. Please replenish the fuel as soon as possible. The use of unleaded gasoline will allow full performance from the engine, prolong the service life of the engine, and engine failure can be avoided by using fuel that meets quality specifications.

##### **Warning:**

The engine must be turned off when replenishing fuel, the ignition switch should be turned off, and avoid any heat source and fire source.



The fuel tank should not be overfilled, and the recommended fuel volume by the factory is 90% of the fuel tank volume. When refueling, please do not exceed the specified refueling level shown above, filling beyond the specified refueling level will easily allow gasoline to overflow, cause abnormal operation of the motorcycle or cause a dangerous accident.

#### **Oil inspection, replacement**

It is very important to choose high

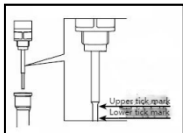




quality oil and regularly replace the oil for the performance and durability of the engine. Regular inspection of oil levels and regular oil replacement are two important tasks that must be performed during maintenance intervals.

Please check the oil level regularly and add to/change the oil as required. Start the engine and idle it for a few minutes, then turn off the engine for a minute and begin the level check:

- ① support by centerstand, remove and wipe the dipstick 1.
- ② insert the dipstick again (do not thread it in).
- ③ remove the dipstick and check whether the oil is below the lower limit. If below, please replenish the oil until at the upper limit position.
- ④ during the break in period the oil should be changed after driving 600 miles.
- ⑤ the oil capacity is 0.9L, when changing the oil the volume is about 0.8L.
- ⑥ the oil quantity should not be lower than the lower limit of the dipstick.
- ⑦ in dusty, cold, poor road conditions, the oil deteriorates more quickly, please change it more frequently.
- ⑧ Please use engine oil that conforms to or exceeds the SJ



class and is of high cleanliness and performance. The factory recommended model is SJ 10W-40. Priority should be given to the use of high performance name brand motorcycle oil. Please see your distributor to buy authentic name brand motorcycle engine oil.

**Note:**

The oil quantity should be checked regularly during the course of use, and be replenished in time when it is insufficient.

If the vehicle is tilted or parked on a slope, a correct oil level measurement cannot be performed.

Check the engine when it has cooled to avoid scalding.

**Pay particular attention to:**

During the initial break-in of 600mi, the oil should be replaced and the valve clearance should be readjusted to the required specifications (the mileage requirements for subsequent maintenance should be carried out in accordance with the maintenance schedule). At the same time, the oil level should be checked regularly. If it is low, please see your distributor to buy authentic name brand motorcycle engine oil.

The steps for oil replacement are as follows: (oil replacement should take place when the engine is warm)

(1) Support the motorcycle with the center stand on horizontal ground

(2)unscrew the dipstick with the engine off

(3)Place an oil container directly below the drain bolt at the bottom of the engine

(4)unscrew the drain bolt and drain the old oil

(5)Tilt the motorcycle back and forth several times to assist draining the oil from the engine

(6)reinstall the engine drain bolt and tighten it

(7)Add fresh oil into the engine through the dipstick hole then reinstall it. Be sure to use the oil we recommend or specify.

(8)Restart the engine, carefully check for 2-3 minutes at different speeds, to determine if there is an oil leak at the drain bolt

(9)turn off the engine, use the dipstick to check whether the oil level is between the upper and lower limits, if insufficient, add to the upper limit position of the dipstick.

### **Steering stem bearing check**

Check steering stem operation for looseness when turning in any direction.

Check if the steering feels too tight.

Check if there are any flat spots or notches in the bearings. If any abnormal operation is determined,

have your dealer inspect your motorcycle.

### **Brake light inspection**

Turn the ignition switch to the "Ⓞ" position. Operate the left and right brake levers respectively to confirm whether the brake light will turn on.

Check if the brake light lens is dirty or damaged.

### **Turn signal light inspection**

Turn the ignition switch to the "Ⓞ" position. Operate the turn signal switch to confirm whether the left and right turn signal lights and indicators are flashing before and after.

Check if the turn signal light lenses are dirty or damaged.

### **Inspection of headlights, front lights and tail light**

Check if the lights turn on after the engine starts.

Check for contamination or damage to the light lenses.

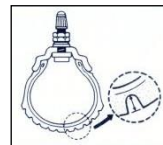
### **Tire inspection**

Check the front and rear tire pressures.

Normal tire pressure:

front wheel:  $28 \pm 2.5$ psi; rear wheel:  $31 \pm 2.5$ psi

Inspect the tires surface for metal fragments, gravel and so on in the tire groove, some should be removed before driving.



Please replace the new tire when the tire cracks or the deep wear of the tire groove reaches the limit.

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 tire should be replaced. A tire with abnormal wear can easily lead to an accident while driving.

### **Front and rear shock absorption inspection**

Add weight to the handlebar and seat, pushing up and down, check if the front and rear shock absorption is good.

### **Speedometer function check**

Check that the functions of the speedometer are working properly.

### **Horn inspection**

Turn the ignition switch to the "O" position, press the horn button, and check if the horn will sound.

### **Rear view mirror inspection**

Sit in the driving position and look in the rear view mirrors according to the normal driving position to confirm whether the rear view mirror angle is appropriate, you should be able to clearly see objects behind you, also check for damage and clean them.

### **License plate inspection**

Check if the license plate is damaged or loose.



### **Exhaust pipe inspection**

Check if the exhaust pipe is loose or the exhaust noise is high.

### **Coolant inspection, replenishment**

Recommended coolant type: 50/50 Ethylene Glycol/Water Mix

When your new vehicle leaves the factory, the coolant has been filled, to check the coolant level during maintenance view the level in the coolant reservoir. The coolant reservoir is located on the right side of the motorcycle below the seat. Liquid cooled engines rely on coolant to keep the engine temperature in the optimal range. High speed engine use without coolant will lead to engine failure. Be sure to inspect the coolant level frequently and make sure the level is between the MIN and MAX marks before driving, add it immediately if low. The coolant is a green colored liquid and special coolant is required when it is lower than the MIN mark.

To add coolant: place unit on center stand, open the seat, and the coolant reservoir can be seen on the right side of the storage box. Remove the coolant reservoir cover, rotate counterclockwise to remove the coolant reservoir cap, and slowly add coolant into the filler neck. Observe the height of the liquid level while adding coolant until the

height reaches the MAX mark.

**Warning:**

After vehicle operation, because the coolant temperature is very hot, the coolant is under extreme pressure, do not open the coolant reservoir or radiator to avoid being burned by high temperature coolant, wait for the coolant temperature to drop before adding coolant to the system.

## Maintenance inspection

In order to keep your motorcycle driving safely and performing optimally, please perform regular inspections and maintenance in a timely manner. Your dealer or service station can perform after-sales service & maintenance work for you. Please refer to the maintenance schedule for inspection frequency and service requirements.

**Warning:**

It is imperative that after the initial 600 mile service inspection that all routine maintenance must be carried out carefully and in accordance with the relevant instructions and specifications given in this manual.

### (1) Replacement and replenishment of engine gear oil

Shut off the motorcycle and wait for 2-3 minutes.

Open the filler screw and check the gear oil level.

If the amount of oil is insufficient, please add appropriate amount of



gear oil.

Replace it every six months or 3000mi.

The recommended gear oil is GL-5 class 85W/90.

The total capacity of gear oil is 140ml.

Check the gear box for oil leakage after inspection.

**Note:**

Gear oil must be added via the level check screw hole. An overfilled or under filled gearbox can affect engine performance.

Use a high quality brand of gear oil. Vehicles used in poor conditions should replace gear oil more frequently.

### (2) Parts lubrication



Proper lubrication is very important to maintain the normal operation of every part of the motorcycle, to prolong its service life and to drive safely. After driving for a long time or after being 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 figure below:

Motorcycle lubricating oil Grease

- (1) side stand support and spring hook
- (2) center stand shaft and spring hook
- (3) Rear brake rocker arm shaft (pin shaft)
- (4) Front brake lever bolt (pin shaft)
- (5) Throttle cable

### (3) Air box drain hose

The air box oil separator hose should be checked regularly, if there is oil in the oil accumulation hose, it should be cleaned in a timely manner.

To drain the air box drain hose loosen the spring clamp and slide it up, pull the stopper from the hose, and drain the oil accumulated in the hose.

After the oil accumulation is drained, reinsert the tube stopper into the oil accumulation hose, and then slide the spring clamp onto the stopper to tighten it to the hose.

### (4) Spark plug

During the first 600 mile service, and every 2500mi, the carbon deposits attached to the spark plug must be removed with a



small metal wire brush or spark plug cleaner, the electrode gap must be readjusted and the gap measured using a spark plug gap tool. The measured spark plug gap should be kept between 0.8~0.9mm.

After driving 5000mi, the spark plug should be replaced.

Spark plug model: CPR8EA

### Use caution:

The standard spark plug for this type of motorcycle is carefully selected and can adapt to most of the working ranges. Please choose according to this specified model. If you choose the wrong spark plug, it will cause serious damage to the engine.

Spark plugs should not be too tight to interleave 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 hole.

### (5) Engine idle speed

The throttle body stepper motor on the motorcycle automatically adjusts the idle speed to the appropriate range. If you need to adjust it, please contact your dealer.

### (6) Throttle body

The idle speed of your motorcycle will be reduced due to pollution of the throttle body, the throttle valve body should be cleaned once every 3100mi.

When cleaning the throttle valve body, disconnect the negative electrode connection of the battery, disconnect the sensor connector installed on the throttle valve body; remove the throttle cable, the hose connected to the air filter and intake manifold, remove the throttle valve body, spray cleaner on the inner wall of the throttle valve body, and brush off dust and carbon accumulation, etc.

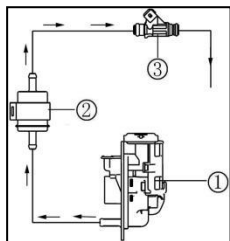
After cleaning, reverse operation, install the throttle valve body, and ensure that all components are installed in place, try to start the engine successfully.

**Note:**

Don't let impurities clog the throttle body bypass.

**(7) Fuel injector and fuel circuit**

Fuel begins at the fuel pump (1), then enters the fuel filter (2), before being delivered to the fuel injector (3) where it is mixed with air to be injected into the engine cylinder.



Follow the diagram to the right when connecting parts of the fuel system after a service or part replacement.

**(8) Tires**

Be sure to check tire pressures and tire tread depth during regular inspections. In order to ensure maximum use time and optimal safety, in addition to regular checks.

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

**(9) Tire pressure**

Insufficient tire pressure will not only accelerate the wear of the tire, but also seriously affect the driving stability. Insufficient tire pressure causes steering difficulty, if the tire pressure is too high, reduces the tires ability to grasp the ground, making it easy to slip and lose control. Tire pressure must be kept within the prescribed limits. Tire pressure adjustment should be carried out at low temperature.

Front wheel tire pressure (cold)	28 ± 2.5 psi
Rear wheel tire pressure (cold)	31 ± 2.5 psi

**Warning:**

Tire pressure and wear state are very important to the function and safety of your vehicle. Please check the wear and tear of the tread and the tire pressure frequently.

**⑩ Headlight beam adjustment**

The headlight beam can be adjusted up and down in the vertical direction. The beam height adjusting screw (1) is located on the back of the headlight. Rotating the beam height adjustment screw clockwise or counterclockwise will increase or lower the low beam light and the high beam light at the same time.

**Note:**

When adjusting the head height, the driver should sit on the seat of the vehicle and keep the vehicle in a vertical position.

**⑪ Light bulb replacement**

When replacing a broken bulb, be sure to use a bulb with the same power rating. If different watts are used, the electrical system may be overloaded and the bulb will be damaged prematurely. LED light bulbs are not easily

damaged, if the LED headlight needs to be replaced, please contact your dealer for assistance.

**Note:**

When replacing light bulbs, it is necessary to use a bulb of the same specification as the one removed. Bulbs exceeding the necessary wattage will increase the load on the electrical system, which can lead to bulb failure or other faults.

When installing a new bulb, keep it free of dust or fingerprints, as these will shorten the bulb life. Contaminates on the bulb should be removed with a clean cloth.

**⑫ Fuses**

The fuses are located next to the battery. If a fuse blows often, there is a short circuit or circuit overload. Please contact your dealer to have your vehicle inspected for repair.

**Warning:**

Do not use fuses other than of the prescribed specification or replace them with copper wires, otherwise it will have a serious adverse impact on the circuit system and can even cause fire and/or short out the lights, which is very dangerous.

**⑬ Battery**

The battery is located under the foot board. The battery equipped with your motorcycle is a valve-

regulated wet load free battery, it is sealed. DO NOT remove the pressed in top cap! If the voltage is less than 12.6V before use, the charging voltage is 14.5V, the charging limit current is 8.6A, and the charging is reduced to 0.2A (or refer to the battery instruction manual). Please install the battery in the following order:

- (1) Turn off the motorcycle ignition switch.
- (2) Remove the battery box cover and set it aside.
- (3) First connect the positive terminal (+), and then connect the negative terminal (-).
- (4) Install the positive and negative terminal protective covers over the battery terminals to prevent short circuit.
- (5) Reinstall the battery box cover.

If the motorcycle is not in use for an extended period, the battery should be removed and kept separately and charged once a month. Please remove the battery in the opposite order, first remove the negative terminal (-), and then remove the positive terminal (+).

**Note:**

If the battery wire is connected backwards, the electrical system and the battery itself will be damaged. The red wire must be connected to the positive terminal (+) and the black wire must be connected to the negative terminal (-).

Be sure to turn off the ignition 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 your motorcycle, and may lead to circuit failures. If the motorcycle is not in use for an extended period, the battery should be removed and kept separately and charged once a month.

**Warning:**

The battery will produce flammable gas when it is used and charged, do not approach open fire or spark when charging. The battery is filled with sulfuric acid (electrolyte), a strong corrosive, it is necessary to prevent bodily contact, clothes, vehicles. If electrolyte contact is made, flush with water to wash clean, such as touching the eye, immediately with a large amount of water to rinse. and seek timely medical treatment.

**❶ Air filter**

The air filter is located on the left side of the motorcycle near



the rear wheel. 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 filtration effect, this car uses the proprietary patented technology two high performance filtration mechanisms.

The filter core of the air filter is prohibited from cleaning (including the inability to blow dust with compressed air). Any cleaning may cause the function of the filter core to degrade and damage the engine. For every 5000mi of use, the filter core should be replaced, and the air filter core should be replaced in the following order:

(1) Remove the two screws attaching the plastic access cover on the left side of the body and remove the plastic cover.



(2) Remove the screws from the edge of the air box cover and remove the air box lid, and you can see the paper filter element.

(3) Remove the paper filter element.

(4) Install the new paper filter element.

(5) Install the cleaned air box lid and access panel in the reverse order removed.

It must be confirmed that the air filter element is installed

firmly in their original position and is properly sealed.

**Warning:**

When replacing the paper core filter be sure it isn't contaminated with any oil or water, otherwise these contaminants will block the filter. It is recommended to have an authorized dealer complete the air filter replacement.

**Use caution:**

If the motorcycle is driven in wetter or dustier environments than usual, or according to other driving conditions, it is necessary to shorten the interval period of filter replacement. Problems such as filter core blockage, breakage, ash penetration, obvious engine power decline, fuel consumption increase and so on, the filter should be replaced immediately, do not wait until the maintenance interval. Starting the engine without an air filter installed will cause dust to enter the cylinder and damage the engine.

**15 Catalytic converter**

In order to meet the needs of environmental emissions protection, the muffler 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 via chemical reaction.

Because the catalytic converter is very important, a

faulty catalytic converter can pollute the air and hinder your engine performance. If the silencer and other parts need to be replaced, remember to use genuine QJ motorcycle parts or entrust your dealer to replace it.

**Note:**

The catalytic converter is located inside the muffler which is a high temperature area, do not touch.

**(6) Carbon canister**

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

Activated carbon particles which can adsorb vapor are used to fill the carbon canister, which can effectively inhibit the volatilization of excess fuel vapor into the atmosphere in order to save fuel and environmental protection.

**(7) ABS usage and maintenance instructions [optional]**

After the ignition switch is turned on, the ABS indicator light on the dashboard is on, and when the riding speed reaches 5mph, the ABS indicator light will go out, when the ABS is in a normal working state; while driving, if it suddenly flashes and then lights up solid, indicating that the ABS is not working correctly.

If the ABS is not working, check that the ABS sensor and that the ABS wheel speed ring is in place and the ring gap is within 0.5~1.5mm range.

If the ABS wheel speed sensor is damaged, the ABS indicator will always be on and the ABS will not work. Because the ABS wheel speed sensor uses a magnet it may attract some metal substances, please keep the ABS wheel speed sensor clean, adhesion of foreign material will lead to ABS wheel speed sensor damage. ABS system failure, please contact your dealer for assistance.

## Storage Guidelines

If storing your vehicle for a long period of time, it is necessary to drain the fuel, clean all parts of the vehicle, and remove the battery. If storing for longer than one month, you should add about 15-20ml of oil into the cylinder and press the start button several times to spread the oil evenly. Store your vehicle out of direct sunlight and at room temperature.

Removal from storage: it is necessary to clean the vehicle, check the battery and carry out a comprehensive inspection before driving. If the vehicle is stored for more than 6 months at a time, the fuel retained in the fuel system will increase the risk of oxidation and contamination, resulting in difficulty in starting the vehicle, powerlessness or inability to start, this mainly affects the injector and fuel pump.

## LTR150 Specifications and Technical parameters

Engine code	QJ157MJ-6A, Single cylinder	
Bore×stroke	57.3mm×57.9mm	
Maximum power	13.4 hp/8500rpm	
Maximum torque	10.03 ft.lbs / 6000rpm	
Ignition mode	ECU electronic control	
Starting mode	Electric start	
Fuel Tank Capacity	1.58±.15gal	
Maximum load mass	397 lbs.	
Curb weight	265 lbs.	
Length×width×height	1900 × 710 × 1100mm	
Wheel-base	1300mm	
Tire size	Front wheel: 100 / 90-12 Rear wheel: 110 / 90-12	
Braking mode	Selection and matching	Front and rear CBS combined braking Front wheel manual disc type
		Front and rear ABS anti-lock brake system Front wheel manual disc type
Gasoline Unleaded	91, Unleaded gasoline	

## Maintenance schedule

Item \ Period		Odometer reading				
		600mi	2500mi	3700mi	5000mi	6200mi
Fuel system		I	I	I	I	I
Throttle operation		I	I	I	I	I
Air filter	(note 2)	Replacement every 2500mi				
Spark plug		I	I	R	I	I
Cooling system		I	I	I	I	I
Throttle body		Inspection every 2500mi				
Engine oil		R	Replacement every 600mi			
Brake pad wear			I	I	I	I
Braking system		I	I	I	I	I
*Transmission belt		Inspection at 3700mi Replacement at 15000mi				
**Headlight			I	I	I	I
*Clutch shoe wear				I		
*Suspension.			I	I	I	I
**Nuts, bolts, fasteners	(note 3)	I		I		
**Wheels, tires	(note 3)		I		I	I
**Steering stem bearings		I			I	I
*Front brake hose		Change once every four years				
*Front brake fluid		I	I	I	I	I
		Change once every two years				

### Schedule Key:

I: inspection, cleaning, adjustment, lubrication or replacement as appropriate

C: cleaning

R: replacement

\* Must be overhauled by the dealer, the owner provides his own qualified tools and maintenance materials, and if he overhauls himself, he should also refer to the maintenance instructions.

\*\*For safety reasons, we recommend that the project be performed by a dealer or a special maintenance station.

Note 1: if the odometer reading is high, the maintenance schedule should be repeated in accordance with the cycle specified to the left.  
 Note 2: if driving in particularly wet or dusty areas, it is best to shorten the prescribed maintenance intervals. Especially for the air filter maintenance, interval needs to be shortened, the first maintenance at 300mi, followed by each 600mi cleaning / replacement.

Note 3: when you often drive on a concave or convex road, you must maintain the tires more frequently.

## **Emission Control System Warranty**

Below is the emission control system warranty printed in the owner's manual, a copy of the owner's manual is available upon your request.

### **Your Warranty Rights and Obligations**

The California Air Resources Board, the U.S. Environmental Protection Agency, and Hua Mei Motor USA LLC. (Here in after "Hua Mei") are pleased to explain the Emission Related Components warranty on your 2023 Highway Motorcycle. New highway motor vehicles must be designed, built and equipped to meet U.S. EPA Federal and California anti-smog standards. Hua Mei must warrant the Emission Related Components on your vehicle for 7,456 miles (12,000km) or for 5 years, whichever comes first, provided that there has been no abuse, neglect or improper maintenance of your vehicle.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter and engine computer, if it is equipped. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Hua Mei will repair your vehicle at no cost to you, including diagnosis,

parts and labor.

If an emission-related part on your vehicle is defective, the part will be repaired or replaced by Hua Mei. This is your emission control system DEFECTS WARRANTY.

### **Owner's Warranty Responsibilities**

As the vehicle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Hua Mei recommends that you retain all receipts covering maintenance of your vehicle, but Hua Mei cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your vehicle to the Hua Mei dealer as soon as a problem exists.

The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. As the vehicle owner, you should be aware that Hua Mei may deny your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you use your vehicle in any type of competitive event, this warranty is immediately and completely void.

If you have any questions regarding your warranty rights

and responsibilities, you should contact contact  
Hua Mei Motor USA LLC,  
270 TRACE COLONY PARK STE B, Ridgeland, MS 39157,  
TEL: (866) 222 -1558 or (for California registered highway  
vehicles only) the California Air Resources Board at 9528  
Telstar Avenue, El Monte, CA 91731 91731-8001.

## **Emissions Warranty Coverage:**

Hua Mei warrants that each new 2023 and later Hua Mei highway motorcycle:

A. is designed, built and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board; and

B. is free from defects in material and workmanship which cause such vehicle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for the periods specified above.

I. Coverage. Warranty defects shall be remedied during customary business hours at any authorized Hua Mei dealer located within the United States of America in compliance with the Clean Air Act and applicable regulations of the

United States Environmental Protection Agency and the California Air Resources Board. Any part or parts replaced under this warranty shall become the property of Hua Mei.

Repair or replacement of any warranted part shall be performed at a warranty station, except in an emergency when a warranted part or a warranty station is not reasonably available to the owner. In an emergency, repairs may be performed at any available service establishment, or by the owner, using any replacement part. Hua Mei shall reimburse the owner for his or her expenses including diagnostic charges, not to exceed Hua Mei suggested retail price for all warranted parts replaced and labor charges based on Hua Mei recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may reasonably be required to keep receipts and failed parts in order to receive compensation, provided Hua Mei written instructions advise the owner of this obligation. The lack of availability of parts or the incompleteness of repairs within a reasonable time period, not to exceed 30 days also constitutes an emergency.

II. Limitations This Emission Control System Warranty shall not cover any of the following:

A. Repair or replacement as a result of

(1) Accident,  
(2) Misuse,  
(3) Repairs improperly performed or replacements improperly installed,

(4) Use of replacement parts or accessories not conforming to Hua Mei specifications which adversely affect performance and/or

(5) Use in competitive racing or related events.

B. Inspections, replacement of parts and other services and adjustments required for required maintenance.

C. Any vehicle equipped with an odometer or hour meter on which the odometer mileage or hour meter reading has been changed so that actual mileage cannot be readily determined.

### III. Limited Liability

A. The liability of Hua Mei under this emission control system warranty is limited solely to the remedying of defects in material or workmanship by an authorized Hua Mei dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the vehicle or transportation of the vehicle to or from the Hua Mei dealer. Hua Mei shall not be liable for any other expenses, loss or damage, whether direct, incidental,

consequential or exemplary arising in connection with the sale or use of or inability to use the vehicle for any purpose. Some states do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitations may not apply to you.

B. No express emission control system warranty is given by us except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the express emission control system warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in line of all other remedies. Some states do not allow limitations on how long an implied warranty lasts so the above limitations may not apply to you.

C. No dealer is authorized to modify this Hua Mei Limited Emission Control System Warranty.

### IV. LEGAL RIGHTS.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

V. THIS EMISSION CONTROL SYSTEM WARRANTY IS IN ADDITION TO THE STANDARD LIMITED WARRANTY FOR ALL VEHICLES.

## VI. ADDITIONAL INFORMATION.

Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. However, Hua Mei is not liable for these parts. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the motorcycle is delivered to an ultimate purchaser.



## Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying QJMOTOR.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or QJMOTOR.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at: 1-888-327-4236 (TTY: 1-800-424-9153); Go to <https://www.nhtsa.gov/report-a-safety-problem#index>; or write to: Administrator, NHTSA 1200 New Jersey Avenue, SE, Washington, DC 20590.

You can also obtain other information about motor vehicle safety from <https://www.nhtsa.gov/report-a-safety-problem#index>

## California Proposition 65 Warning



### **WARNING:**

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).



Part Number: 02401K140003