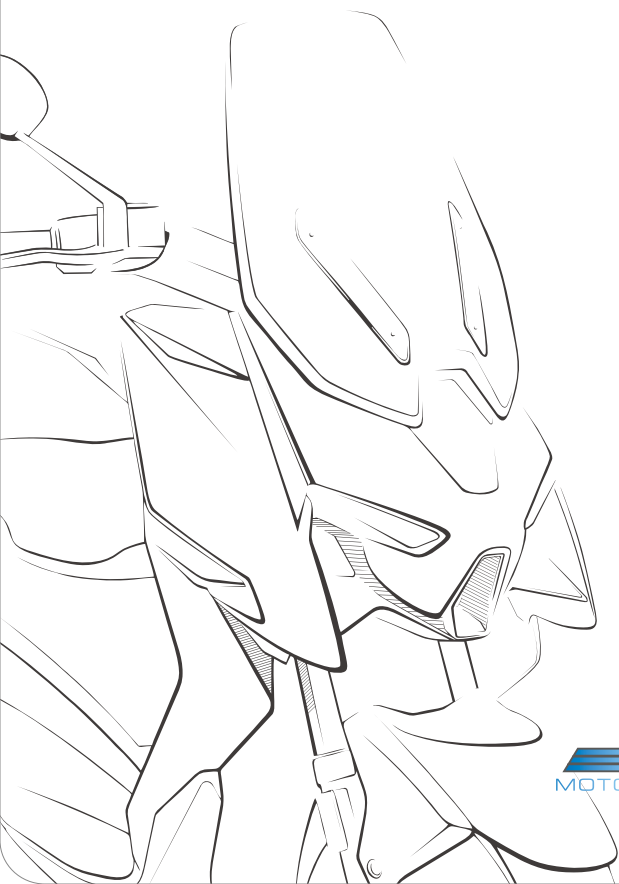




BIOM
MOTORCYCLE MANUAL

Preface

Thank you for using ZONTES brand motorcycles. We use most advanced technology to design, test and produce the type of motorcycle, to provide you with joy, fun and safe driving. When you are fully familiar with all the essentials in this manual, you will feel riding a motorcycle is one of the most exciting sports, at the same time, can feel the real pleasure of driving.

This manual summarizes the right repair and maintenance methods of motorcycle. As long as in accordance with the provisions to do, your motorcycle will be durable. ZONTES distribution unit has trained technical personnel, with the complete tools and equipment, to provide you with high quality and service at any time.

The contents of this manual are updated quickly, and the official website shall prevail. The PDF version of the manual can be downloaded from the official website.



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User instruction

There are all kinds of accessories on the market can be assembled on your motorcycle, and we cannot directly control the market quality and applicability of attachment. The inapplicable attachments will endanger the safety of the riding personnel. The selection of accessories and installation, therefore, must be especially careful. Though we can't examine the applicability of accessories for sell on the market, but your distribution unit can help you to choose high quality accessories on the market, and can be installed correctly.

DANGER

Attachment installed incorrectly or modified motorcycles will change handling of the motorcycle, this will cause an accident. Never use inappropriate attachments, to ensure that attachments are installed correctly. All accessories and parts should use pure part of the company.

You should be properly installed accessories and spare parts, if you have any questions, please relate this company designated shop of distribute of engage by special arrangement or special repair shop.s company shop of distribute of engage by special arrangement or special repair shop.

Wind deflector, chair back, saddle bags, luggage, etc., are all laid attachments, easy to cause the instability of driving. Especially in the side wind or with large vehicles encountered. If the attachment installed wrong or poorly designed attachments, would endanger the safety.

Additional electrical accessories can make the electrical system overload, serious overload may damage the wiring, make the engine stalling when driving, and even destroy vehicles.

When transporting goods, they should be fixed in the low position as far as possible close to the motorcycle. Fixed goods incorrectly can lift the center of gravity which is very dangerous. It can make the motorcycle hard to control. The size of the goods will affect the air drag and motorcycle maneuverability. Please balance the left sides of the motorcycle, and fixed the goods.

Modification

Motorcycle modification or removal device cannot guarantee the original motorcycle driving safety, and it is illegal. The user will lose the rights of quality guarantee if they modify the motorcycles..

Safe driving instruction

Driving a motorcycle is a very interesting and exciting sport activity. It also requires special precautions to ensure the safety of drivers and motorists. Preventive measures are as follows:

Examination before driving

Read carefully "before they check" section of the instruction, and check item by item according to the instructions, we must never forget that it can guarantee the safety of drivers and train personnel.

Familiar with your motorcycle

Your driving skill and mechanical knowledge, is the foundation of safe driving. First practice at where there are fewer cars, until you can fully familiar with the mechanical performance and operation method of motorcycle. Remember that! Practice makes perfect.

Realize your own driving skills

At any time drive within the scope of your own skilled. Know your skills limit and not to be reluctant so as to avoid accidents.

Rainy day traffic alert

Rainy day driving should be paid attention to, keep in mind the braking distance is twice as many as sunny days. Drive away from the road marking paint, manhole covers, and oil on the road to avoid slippage. When you drive on the railway crossing, bars and Bridges, you have to be careful. In the case of a negative judgment road, you should slow down.

Speed limit

Any time don't let the speed to be too high, and don't let the noise of engine speed is too high, from the outside.

Strategy during driving

Most of the motorcycle accident are turning cars bumped into people who driving a motorcycle in front. Wise driving strategy is to make the other driver seeing you; even in the broad road you also should pay attention to during the day. Wear smart clothing with safety reflective materials. Don't get in the other driver's blind spot.

Special warning

WARNING

If the weight distribution of accessories or goods attached on vehicle changes, the stability and operability of the vehicle may be adversely affected. In order to eliminate the possibility of an accident caused by it, the weight of the rear rack should be limited to be less than 10kg, and the weight of the side box should be limited to be less than 10kg. Please do not overload and modify the rear rack without permission.

Code positing



Vehicle identification code and engine number is for the registration of motorcycles, when ordering parts or entrust the special service, this number can make distribution unit provide a better service for you.

①The motorcycle identification code is engraved on the frame under the seat cushion ②The 3C nameplate is fixed on the bottom of the front riser of the frame. ③The engine code is stamped on the bottom left side of the engine.

Please write down the number in the space below for your reference.

Vehicle identification number:

Engine number:

Maintenance of muffler

This motorcycle muffler with catalyst can effectively reduce the operation process of motorcycle emissions of harmful substances into the atmosphere. To make the device work effectively, please refer to "maintain" the preventive maintenance in the section table.

In order to improve the service life of the muffler, and avoid faults caused by not-normal-use and maintenance of the mufflers rust, catalytic conversion efficiency decrease, please be sure to comply with the following items:

- Long time in high speed boom throttle is prohibited
- It is forbidden to drive at low speed with heavy load for a long time.
- Add muffler rust-proof oil or oil is prohibited
- Hot state muffler is washed with cold water directly is prohibited
- Slide when shut down is prohibited
- Use inferior oil is prohibited
- Use unleaded gasoline
- Keep clear the dirt of muffler to the rear and the surface

• Keep the engines running on good condition, regular maintenance and inspection. Avoid failure Leads to engine combustion exhaust gas in the exhaust pipe to cause secondary combustion catalyst sintering failure.

- Installing a muffler, be sure to properly installed muffler gasket.

⚠ DANGER

Driving must pack up side racks, so as not to turn to when overturned vehicles, riding personnel casualties.

Rear brake system must be checked to see if it is working correctly before driving. If there is problem, please repair immediately

Driving is not allow to tie the helmet on the helmet pothook, to avoid helmets be involved in the wheel to make the vehicle turned over to cause casualties.

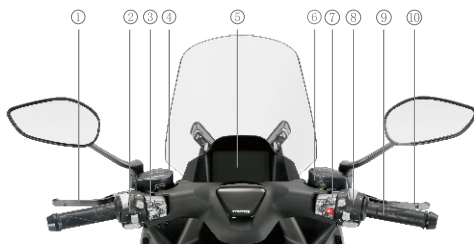
⚠ DANGER

Non-professional personnel do not pull the fuel pipe to discharge fuel, to avoid meeting flame and damaged vehicles; don't let the motorcycle muffler to touch other matter to avoid fire: motorcycle usage and storage environment cannot have fire hazard.

Vehicle maintenance need to replacement parts, have to use the pure part of the company, the use of pure components, electrical components in particular, it might damage the motorcycle, and even destroyed vehicles.

Please don't add attachments at your will, especially the electrical components, if improper wiring or electrical load is too large, it could destroy vehicles.

Installation of component parts

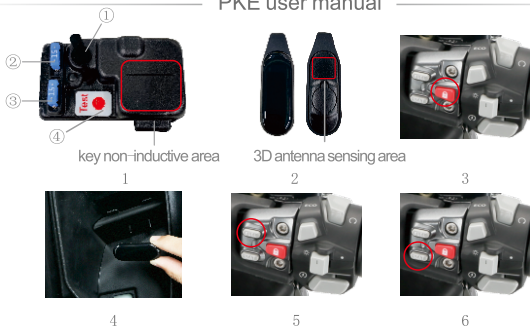


- ① Rear disc brake handle ③ Left hand handle auxiliary switch ⑤ Meter
② Switch on left handle ④ Left disc brake main pump ⑥ Front disc brake main pump
⑦ Right hand handle auxiliary switch ⑨ Accelerator control handle
⑧ Switch on right handle ⑩ Front disc brake handle



- ⑪ Rear disk brake ⑫ Muffler ⑬ Front disk brake ⑭ Side bracket ⑮ Main bracket

PKE user manual



PKE (Passive Keyless Entry) system user manual:

The PKE system is divided into two parts: the controller host (Fig. 1) and the key fob (Fig. 2). When the key fob is equipped with a button battery and is close to the effective sensing range of the motorcycle, the PKE system can be started normally.

PKE host (Figure 1) function description:

①battery charging DC connector,②charging insurance,③PKE insurance,④Test button (function is the same as the red button in Figure 3).

1. Using the key fob

The motorcycle is equipped with two key fob, one of it should be kept for backup.

The key fob has a serial number that matching to the PKE controller host. The PKE controller can automatically identify any matched key fob that close to the vehicle.

⚠ ATTENTION

There are two LED lights of green and red on the key fob, when the battery of the key fob is sufficient, the green light will flash every 3 seconds when the host is turned on. When it is battery low, it will flash red. The battery can be used normally for 0.5-1 years. If your key fob is not sensitive and it's indicator flashes red, please consider replacing the battery (the key fob has a sash to open on the back cover, you can replace the battery when you open it, and the battery is a 1225 button battery).

2. Turn on the PKE:

Short press the red power-on button on the right handlebar switch (Picture 3), turning signal will double flash twice, the steering lock will be automatically unlocked, then the buzzer "di" 1 sound to prompt, the electric circuit is connected.

⚠ ATTENTION

If the faucet lock is not unlocked successfully, it may be that the handle locks the connected lock shaft, gently turns the handle to allow the lock shaft to move freely, or the battery may be too low to unlock, please check if the battery is normal.

⚠ ATTENTION

If the battery power is normal, short press the red power button, the motorcycle cannot start up, but the main machine will give a "beep" prompt, please try to use the induction key to start up without electricity (see the following instructions for specific operation). If the battery is normal and the host does not give a "beep", please check whether the PKE insurance (the insurance position is as shown in FIG. 4) is normal. If the insurance is replaced, please be sure to replace the insurance of the same specification (15A).

When the battery is dead, please try to turn it on after charging.

After the PKE is turned on:

The motorcycle is in engine-on or riding state, the red power-on button, fuel tank lock open button (Picture 5) and cushion button are invalid (Picture 6). The tank lock and seat cushion lock can only be opened when the motorcycle is parked and not in engine-on state.

⚠ ATTENTION

During driving, if you find that the double flash signal is on along with some special noise, it means the key fob is lost, please stop the motorcycle but do not turn off the engine, you can continue to ride after returning to the original road to find the lost key fob. The trigger timing for key fob is: when starting for the first time after driving or stay waiting for more than 90 seconds.

PKE user manual

3. Turn off the PKE:

After stopping and parking the motorcycle, put handlebar to the left, turn off the engine, long press the red power-on button on right handlebar, the turning signal will double flash twice, the steering lock will be locked automatically, then the buzzer "di" 1 sound to prompt, the electric circuit is disconnected.

ATTENTION

After turning off the motorcycle, please check if the steering lock is locked. If the steering lock is unlocked, please put the handlebar to the left, the motorcycle will be locked automatically.

If the handlebar is not put to the left and turn off the motorcycle, it is forbidden to push the motorcycle or let the motorcycle slide, in case to put the handlebar to the left to lock the head lock, it is dangerous.

When pushing the motorcycle or let the motorcycle slide from the hill, make sure the PKE is turned on (the steering lock is unlocked successfully)

"TEST" button on the PKE controller host (Picture 1)

function is the same as the red button in Picture 3. Short press and long press to open and shut down, it is used to detect whether there is a problem with the PKE, and to eliminate the start-up abnormality caused by the handle switch.

key fob: batteryless power-on mode

When the key fob's battery is exhausted, long press the red power button or "test" button when the motorcycle is turned off. When the motorcycle sound a "Bi", the controller can be turned on when put the key fob close to the sensing area (Picture 1, 2, 4) near the host.

Emergency mode

In the case that the motorcycle cannot be started normally and the "key fob batteryless power-on mode" can not be started, the emergency mode can be used, the specific operation sequence:

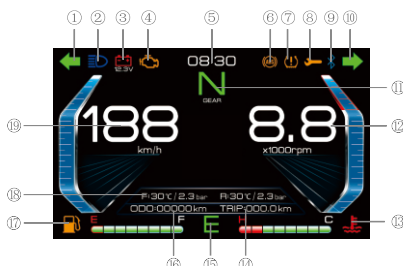
1. Open the key fob battery cover and take off the button battery.
2. Short press the red power-on button or the PKE host "TEST" button.
3. After short pressing the red power-on button, put the button battery back into the key fob within 10 seconds. At this time, the motorcycle is powered into emergency mode.

PKE Host buzzer sound

The PKE host buzzer prompts the user to detect an abnormal condition by a combination of long and short "Bi" other prompt sounds. The specific meanings are as follows:

TEST button stuck	One long and one short	The button is detected to be stuck after each power-on, and the alarm is once within 10 seconds (only once)
START button stuck	One long and two short	The button is detected to be stuck after each power-on, and the alarm is once within 10 seconds (only once)
Learning key stuck	One long and three short	The button is detected to be stuck after each power-on, and the alarm is once within 10 seconds (only once)
Fuel tank lock button stuck	One long and four short	After the button is stuck and then turned on, and the alarm will be activated once in 10 seconds. After the turn on and then stuck, and the alarm will be triggered once within 10 seconds.
Cushion lock button stuck	Two long	After the button is stuck and then turned on, and the alarm will be activated once in 10 seconds. After the turn on and then stuck, and the alarm will be triggered once within 10 seconds.
High frequency reception abnormality	Two long and one short	When the TEST button is turned on, it detects that the PKE host has received a high frequency reception error, and the alarm is once (only once).
Loss of induction key pairing	Two long and three short	Induction key pairing lost alarm once every time it is turned on (only one alarm)
Induction key is low battery	Three long	Abnormal signal of sensor key battery is detected when starting with TEST key, and alarm is given once (only once)
Steering lock open abnormal	Five short	An unlocking in-position signal is detected every time the power is turned on, and the alarm is once (only once)
Steering lock is abnormal	Five short	The lock-in-place signal is detected abnormally every time the power is turned off, and the alarm is once (only once)
Low frequency transmitting antenna is abnormal	Three long and one short	The lock-in-place signal is detected abnormally every time the power is turned off, and the alarm is once (only once)
Induction key away from detection area	Eight short	The lock-in-place signal is detected abnormally every time the power is turned off, and the alarm is once (only once)

TFT Instrument



The meter consists of four different interfaces which are leisure, racing, street and simplicity version, respectively. The interface can be switched and selected according to personal preference. A brief description of the meter is made with the leisure interface shown in the picture below.

Front view figure arrow: 1 Left turn lights; 2 Distance light lamp; 3 Battery fuel gauge of voltage prompt lable; 4 Emergency light; 5 clock; 6 ABS anti-lock braking system light; 7 Tire pressure indicator light; 8 Maintenance indicator light; 9 Bluetooth; 10 Right turn signals light; 11 Gear display; 12 Engine speed record; 13 Water temperature; 14 Tripmeter; 15 E/S model; 16 Odometer; 17 Fuel level gauge; 18 Driving information; 19 Speedometer;

⚠ WARNING

Do not use high pressure water washing instrument directly.

Do not use dishcloth with organic solvent such as gasoline, kerosene, alcohol, brake fluid to wipe the instrument. Otherwise, the instrument may cause local cracks or discoloration due to exposure to organic solvents.

Short press the "🔴" button of meter, then the meter will perform the process of self-test.

1. Left turn light

When the turn signal switch to the left, the left turn signal light will be flashing.

2. Distance light lamp

When using the high beam headlights, indicator light will be lighter.

3. Battery voltage prompt

When the engine is off, if the detection voltage is less than 11.9V, the display symbol will alarm in the way of flashing this flashing frequency is 1Hz. When the detection voltage is greater than 12.1V, the alarm will be canceled automatically.

When the engine is on, if the detection voltage is less than 12.6V, the display symbol will alarm in the way of flashing this flashing frequency is 1Hz. When the detection voltage is greater than 12.8V, the alarm will be canceled automatically.

When the low voltage indicator of the battery flashes, it means the voltage of the vehicle is lower than the set value. If the indicator is continuously on for a long time, it means that it is an abnormal phenomenon. Please contact our company for after-sales inspection. After the inspection, if the battery is dead, charging the battery will make it back to normal. If the battery is damaged, the battery needs to be replaced.

⚠ ATTENTION

If the voltage is higher than 16V, you must stop using the vehicle immediately and contact after-sales service point of the company for inspection.

4. Fuel injection error signal light

When the vehicle turns on the electric door lock switch and the flameout switch, it is normal for the electronic injection fault signal light to be on when it is not started, if the electronic injection signal light is not on, please do not start the vehicle. When the engine starts successfully, if the orange electrojet fault signal lights up and the electrojet fault is reported, it indicates that the system is abnormal.

⚠ WARNING

When the fuel injection system is showing error, it will break the fuel injection system when you still drive the motorcycle. Please contact the after-sales dealership shop to check the fuel injection system.

5. Clock

The clock display in the 24 hours system.

⚠ ATTENTION

If the battery is removed or battery lost electricity, it will be shown from "00:00" clock.

TFT Instrument

6. ABS anti-lock braking system singal light

ABS working situation.

7. Tire pressure indicator light

When the tire pressure and temperature are abnormal, it will flash an alarm and need maintenance and inspection.

8. Maintenance indicator light

The first indication is 1000km. After every 5000km, the maintenance reminder will flash, and long press SET to clear it. 200km in advance each time, it will flash for 5 seconds after power-on to indicate maintenance.

⚠ WARNING

When the oil indicator light is on, it means that the motorcycle has already traveled to a certain mileage. Therefore, It is necessary to change the oil to maintain the engine. Otherwise, If you continue to drive the motorcycle without maintenance, the engine and the transmission system will be damaged.

When the oil indicator light is on, please turn off the engine firstly, and then check the oil level to confirm whether the oil capacity is correct or not, and whether the oil needs to be replaced or not.

9. Bluetooth

The indicator light will be on when the phone is connected to Bluetooth, and will be off when disconnected.

10. Right turn signal light

When press the right turn signal right to the right, it will be flashing.

11. Gear display(Scooter has no gear position)

The motorcycle is using international gear, and there are six gear display which is 1,N,2,3,4,5,6 shown on the instrument.

12. Engine tachometer

Displays the engine speed, which means the number of revolutions of the engine shaft per minute.

13. Water temperature

After the power is turned on, turn off the engine switch of the handle. After the EFI is powered on, the water temperature state is displayed. One grid indicates that the water temperature is lower than or equal to 60 ° C, 61-70 ° C shows two grids, and 71-80 ° C shows three grids, 81- 90 ° C shows four grids, 91-100 ° C shows five grids, 101-110 ° C shows six grids, 111-120 ° C shows seven grids, and 121 ° C above shows eight grids. When the water temperature is greater than 111 ° C, the water temperature indicator will start to alarm and the cooling system needs to be checked.

14. Tripmeter

There are two functions in the display area of the screen, which are the TRIP MODE and the ODO MODE.

The TRIP MODE records accumulated mileage per drive, long press MOD key to clear zero, the maximum recorded value is 999.9.

15. E/S model

"E" is for fuel economy, "S" is for motion pattern.

16. Odometer

The ODO MODE records the driving mileage in total from the beginning to the present. The recorded information cannot be cleared, and the maximum recorded value is up to 999999.

17. Fuel level gauge

The fuel level gauge shows the amount of fuel remaining in the fuel tank. The fuel level gauge shows 8 segments, indicating that the fuel tank is full. When the remaining fuel is low, the fuel indicator flashes, and fuel should be added as soon as possible.

⚠ WARNING

When the motorcycle is parked by using side stand, fuel gauge can't accurately show. Put the motorcycle into normal driving status, after we turn on the red power-on button, we don't need to start the engine, and we have to wait about half minute to let it accurately show; or shut down the red power-on button, turn it on again, the fuel level gauge will demonstrate correct oil level information immediately.

18. Driving information

The record displays motorcycle information such as fuel consumption, average speed, cruising range, tire temperature and air pressure. The average fuel consumption is displayed when the motorcycle is stationary, and the instantaneous fuel consumption is displayed after the motorcycle is started.

19. Speedometer

Speedometer shows the speed is how many kilometers per hour (/miles).

TFT Instrument



1 Old TFT instrument menu



2 New TFT instrument menu

As shown in figure 1&2: Main menu

Menu operation: Short Press the SET button on the main interface to enter the main menu. Long Press the SET button at any time to return to the main interface, or the screen can automatically return to the main interface without any operation for 8 seconds. Short press the MOD button, then the cursor will moves downwards, short Press SET button to enter the secondary menu or set options.

①Interface style

The four interface styles are leisure, racing, street, and simplicity, respectively .

Short press MOD button to move the cursor to select the option, short press SET button to confirm the option, then it will automatically return to the previous level.

②Clock Setting

The clocks and minutes are set individually in digital bits. When entering the clock setting, press digit setting from left to right, short press MODE key to increase digits, loop around, short press SET key to determine the current digit key, and then switch to the lower digit setting. After the last digit setting is completed, short press SET key to determine, and the interface will automatically return to the upper menu.



3



4

As shown in figure 3: ③Instrument backlight brightness adjustment

Press the MOD key to change the backlight brightness gear (auto, 1, 2, 3, 4, 5) and press the SET key to confirm the selection.

Automatic transmission: the old instrument has the darkest backlight when the headlight switch is turned on, and the backlight is the brightest when the headlight switch is turned off, automatically switching between two brightness levels; the new instrument automatically adjusts the backlight brightness and darkness according to changes in the light sensing environment.

④Unit setting

Short press the SET button to alternately switch the unit display, and the speed unit can be switched between mph and km/h. Correspondingly, the mileage unit can be switched between mile and km.

⑤Language setting

Short press the SET button to switch language between Simplified Chinese and English.

⑥Bluetooth connection

Short press SET button to turn on and off Bluetooth.

As shown in figure 4: ⑦Malfunction information

Current fault code, historical fault code, software version number.

TFT Instrument



As shown in figure 5: Tire pressure monitoring function

The tire temperature and pressure data can be viewed on the main interface by short-pressing MOD to switch driving information or entering the "Main Menu-Tire Pressure Settings".

There are three pressure units: Psi, Kpa and Bar. Short press the SET button to switch, short press MOD to confirm and jump to the next item.

Tire pressure function description:

1. Tire pressure and temperature alarm

When the instrument receives that the tire pressure temperature information from the sensor exceeds the limit value, the instrument interface displays the corresponding tire pressure temperature alarm text, and the tire pressure indicator flashes (1 Hz).

2. Low voltage alarm

When the tire pressure sensor detects that the battery voltage value is lower than 2.6V, the interface shows that the sensor battery is low, the alarm will not disappear until the new sensor is re-matched, and the tire pressure indicator flashes (1Hz).

3. Air leakage alarm

When the sensor detects the change of tire pressure (decompression), it will prompt a leak alarm and the tire pressure indicator will flash (1 Hz).

4. Unlearned alarm

When the meter does not match the sensor and the tire pressure setting interface displays "Not Learned", the main interface displays "Not Learned Alarm" and the tire pressure indicator flashes (1 Hz).

5. Sensor loss alarm

When the chip that receives the signal from the sensor is not received, the meter shows that the sensor is missing and the tire pressure indicator flashes (1 Hz).

Remove alarm: The alarm disappears after receiving valid data.

6. Sensor failure alarm

When the meter receives the sensor chip fault information, the interface displays the sensor fault alarm and the tire pressure indicator flashes (1 Hz). At this time, the sensor needs to be replaced, otherwise the tire pressure information cannot be displayed normally.

7. System failure alarm

When the chip that receives the signal inside the instrument fails, the instrument interface displays a system failure alarm and the tire pressure indicator flashes. At this time, the instrument needs to be replaced, otherwise the tire pressure information cannot be displayed normally.

8. Learning matching function

Run the motorcycle to greater than 30km/h and then stop, and perform the following operations within 15 minutes(Please follow the new TFT instrument instructions below):

① First adjust the motorcycle meter to the learning mode, that is: power on the meter → enter the menu → tire pressure setting interface → operate the instrument button to set the front (rear) wheel to "learning..." and wait for the tire pressure sensor to learn information.

② Continue to inflate or deflate the corresponding front wheel or rear wheel until "Success" is displayed.

③ When the meter receives the matching signal from the tire pressure sensor, after the match is successful, the text "Learning..." on the tire pressure setting interface will be displayed as "success". At this time, the meter can receive the tire pressure temperature information of the sensor.

If the learning is unsuccessful, you need to repeat the above operation and increase the time of inflation and deflation.

The instructions of the usage of Zontes intelligent App

Landing:

Login with your Zontes intelligent App account.



Apple system mobile operation:

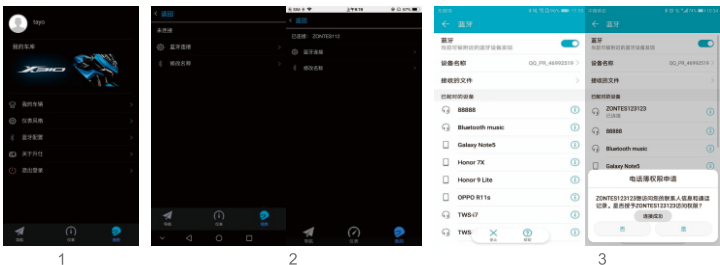
As show in picture 1, When log in successfully, go to My Page. When the Bluetooth is not open, it will remind you to open it on your phone. If it is not open, when use Bluetooth related functions such as navigation in the future, the user need to open the Bluetooth in the mobile phone system settings.

As show in picture 2, After opening the mobile phone system Bluetooth, it will remind you of opening APP Bluetooth service.

As show in picture 3, When open the Bluetooth, it will jump to the Bluetooth search page. The Bluetooth name will not show up, because it is the first time to search for Bluetooth. Then the Bluetooth name will appear as an unknown device, connect the Bluetooth by choosing the unknown device. If it is the motorcycle's speedometer bluetooth, it will the prompt the connection is successful, or it will disconnected automatically. (If the connection is not successful, please select another item to connect ,until the connection is successful).

As show in picture 4, When the connection is successfully, it will prompt to connect motorcycle speedometer's Bluetooth again. At this time, you need to go to the mobile setting system Bluetooth interface to connect to speedometer's bluetooth. After successfully connecting the motorcycle speedometer Bluetooth, you can use navigation and other functions. Attentions: When entering the system Bluetooth interface and selecting the motorcycle speedometer Bluetooth, two Bluetooth device names with the same name will appear, as show in picture below, one displays is connected, the other is unconnected. Then choose the unconnected Bluetooth device and connect it.

As show in picture 5, When it is successfully to connect the motorcycle speedometer Bluetooth, enter APP again, the APP will connect the motorcycle meter Bluetooth which is connected last time automatically. After the connection is successful, the prompt of the Bluetooth connected to the mobile phone system interface will be popped up. When entering the system Bluetooth interface and selecting the motorcycle speedometer Bluetooth, two Bluetooth device names with the same name will appear, as show in picture follow, one displays is connected, the other is unconnected. Then choose the unconnected Bluetooth device and connect it.



The instructions of the usage of Zontes intelligent App

Android phone operation:

As show picture 1, When log in successfully, go to My Page. If cancel to open Bluetooth at first, it needs the open the Bluetooth with hands.

As show in picture 2, Click on Bluetooth configuration, go to My Page, and click the Bluetooth connection again. If it is the first time connection, it will display unconnected on the top. If it connected before, then the speedometer will display. Modify the Bluetooth name: If the Bluetooth is connected, it will pop up a dialog with a name, then modify the Bluetooth name.

As show in picture 3, Click and connect the Bluetooth, enter the Bluetooth search connection interface. Click the Bluetooth you need to connect, there will be questions and tips. If you need to ask the questions, please click the Ok, or allow Bluetooth to get phone alert.

Motorcycle speedometer connection Bluetooth success tag:

Mobile phone APP connects with motorcycle speedometer Bluetooth successfully, there is a blue icon appearing on the upper right corner on the speedometer (as show in picture 4). After connection is successfully, Bluetooth-related functions such as navigation can be used.



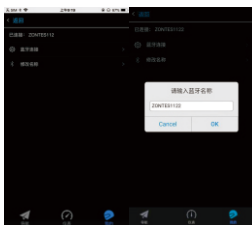
4



5

2. Interpretation of the instrument interface

The number 0.1km circled in red in the figure 5: indicates the distance from the next intersection.
Navigation icon: indicates the navigation direction of the next intersection.



1



2



3



4

Modify the Bluetooth name:

Enter the Bluetooth settings interface (As show in picture 1), there are functions of the modify motorcycle speedometer Bluetooth name, it will be used until the APP connects with motorcycle speedometer Bluetooth successfully.

APP meter interface

① APP meter interface (As show in picture 2):

1 To exit the meter interface, it needs to click for a long time.

2 If the slide switch style is turned on in the meter style setting interface, you can slide the left and right to switch the meter display style.

3 As long as the mobile APP Bluetooth is connected to the car's instrument, the APP's instrument interface will display the data of the car's instrument.

② APP speedometer interface style setting

Click to enter the speedometer style interface (Picture 3), as shown in the picture, you can select the speedometer display style.

My vehicle (As show in picture 4):

My vehicle page is mainly used to display customer's motorcycle information.

Mobile interconnection operation instructions

Android system:

1. On the home screen, press SET to enter the secondary menu, select "Mobile interconnection" to enter the wireless screen, and scan the QR code at the upper right corner of the screen to download "Driving Partner".

2. The mobile phone interconnection defaults to the Android system. If it is an IOS, please press the SET button, then press the MOD button to switch to the IOS system, and finally press the SET button to confirm the switch.

3. Turn off the WLAN, set the mobile network sharing place, and set the account and password of the hotspot(the account and password should be the same as those displayed on the meter. Note that the English letters of the account only have lowercase "o" and no uppercase "O", enter Errors will cause the connection to be unsuccessful), then turn on the hotspot, and you can check whether it is connected to the corresponding device on the connected device side. (AP frequency band is set to 5GHz)

4. After the hotspot is successfully connected, open the "Driving Partner" APP, and you can enter the Yilian screen projection interface on the meter. By clicking on the mirror image screen, you can project the application on the mobile phone to the meter.

5. If the connection is unsuccessful for a long time, please turn off the mobile WIFI, keep the hotspot on the mobile phone, turn off the meter and wait for 30s, then turn it on again, and wait for automatic connection.

6. Long press the MOD button to exit the connection and return to the home screen.

Wireless projection interface



Hotspot settings



Successful screen projection interface

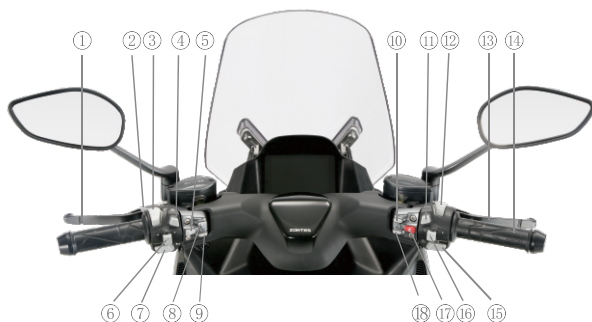


1. Set the meter to IOS system mode, short press the SET button on the mobile phone interconnection interface, then short press the MOD button to switch to the IOS system, and finally short press the SET button to confirm.

2. Enter the mobile phone settings--Wi-Fi--select the account with the same name displayed on the instrument and input the password "88888888". Wait for the successful connection, and then open the Driving Partner APP to realize the interconnection.



Left/Right handle control system



1. Rear wheel brake handle

When braking the rear wheel, you need to hold the brake handle on the left firmly. Since the motorcycle uses disc hydraulic brakes, the gripping force does not have to be too large when braking. When the rear brake handle is held tightly, the brake light will automatically light up.

2. Overtaking warning lights

When speeding up, press the button warning the cars in front or behind.

3. Dimmer switch

High beam&low beam operation

When the dimmer switch on  position, the distance light is flashing. At the same time on the surface of the dashboard in light is lit will switch to  dipped headlight will be turn on and distance light is turn off. At the same time the high beam indicator on the dashboard surface lights up. When

4. Danger warning button

Press the button, the four turning lights are flashing, and warn nearby vehicles to pay attention for safety.

5. Wind block switch

Every time press the bottom, there will be one complete shift from the windshield open to closed.

6. Horn button

Press the button, the horn will ring.

7. Turn signal operation

When turn the switch to the left , the left turn light is flashing. When turn the switch to the right , the right turn light is flashing. The indicator light on the instrument surface also flashes at the same time.

WARNING

Whenever the road before changing lanes or turning, we must get into the habit of starting turn signals first. When gear changing lanes or turning is finished, they must be turn off.

8.SET: Enter the main menu/confirm the option.

9.MOD: Select the next (Move the cursor to select the option).

10. Fuel tank lock switch

When the engine does not start, press "Fuel" button, the fuel tank cover will be opened automatically.

Left/Right handle control system

11. ECO button

Press the ECO button, the indicator E of the instrument lights up, and E represents the economy mode; press the ECO button again, the indicator S of the instrument lights up, and S represents the sport mode.

ATTENTION

In any case, E and S modes can be switched freely.

12.Engine flameout switch

This switch is installed on the right hand switch assembly, is a kind of wave plate card, shaft in wave plate center. Dial in  position, the circuit connected, the motor can start.

If the switch in  position, starting circuit completely cut off, the motor can't start. It's an emergency way to shut down the switch.

13.Front brake controller

When braking the front wheel, hold the brake handle on the right side. When braking the front wheel, we must grip on the right side of the front wheel brake. Because using the vehicle hydraulic brake disc, the brake holding force doesn't need to be large. When you hold front brake handle, brake lights will light up automatically.

14.Throttle control handle

Throttle control handle is used to control the engine rotating speed. When turn towards to the user's side is acceleration; On the other hand, turn towards to the opposite user's side is reduction.

15.Electric start button

Press this button to turn on the starting circuit. When starting, you must retract the side parking rack, confirm whether the engine stop switch is in the 1 position, and hold the brake handle to start.

WARNING

When continue starting the engine, consecutive start time not more than five seconds at a time. Because a large number of start can make some abnormal heating to circuit and start motor. If you still can't start it a few time, you should stop and check the oil supply system and start the circuit system. (Please refer to "troubleshooting" section.)

16. Light switch

☆ Position: When the engine is working, the left and right hand switches backlight, front light, front position light, rear position light, and nameplate light are all on together.

- Position: front position light, rear position light and nameplate light are all on together.

17. Red power-on button

When the host is in the sleeping version, press the "START" button in short time to wake up the host. After detecting the response signal of the key and the signal of the handle bar lock, the whole vehicle will START up.Press the "START" button in long time, the host will enter into sleep version, and the whole vehicle will be shut down.

18. Seat cushion lock switch

When the engine is not starting with the seat cushion locking, press the switch to open the seat cushion lock.

ATTENTION

If the seat is not installed into position, the seat will glide which and will lead to the driver to lose control of the motorcycle. Make sure the seat cushion is locked in the correct position.

For details of the operation of MOD button and SET button, please refer to the main menu of the meter.

front storage boxes and rear storage box

This model is equipped with 2 front storage boxes and 1 rear storage box, the specific location is shown in the figure.



① Left front storage box ② Left front storage box switch ③ Right front storage box switch ④ Right front storage box



⑤ Seat cushion ⑥ Rear storage box ⑦ Cushion lock

Instructions:

1. Left front storage box

Open: After the motorcycle is powered on, press the left front storage box switch ② to open.

Close: Push the left front storage box until it closes tightly.

2. Right front storage box

Open: directly press the front right storage box switch ③ to open.

Close: Push the right front storage box until it closes tightly.

⚠ WARNING

There are PKE fuse, PKE charging port, OBD connector in this position

3. Rear storage box

Open: After the bike is powered on, press the "SEAT" button on the auxiliary switch of the right-hand handle, and the seat lock will be visible.

When using the front storage box and the rear storage box, please keep the following points in mind:

1. Be sure to close all storage boxes, storage boxes and seat cushions before starting.

2. The rear storage box is close to the engine, which may cause the temperature in the storage box to rise. Please do not put any flammable, explosive or non-high temperature resistant items in the rear storage box.

3. In order to prevent moisture from spreading in the storage box or storage box, please wrap the wet articles with plastic bags before putting them in.

4. When washing the car, water may enter the storage box or storage box. Please wrap the contents in a plastic bag or take it out in advance.

5. Do not put valuable or fragile items in the storage box.

6. There may be some helmets that cannot be placed in the rear compartment due to their size and shape.

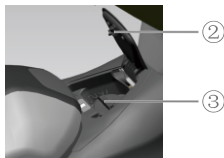
⚠ WARNING

The load limit of the left front storage box is 1kg, please do not exceed the limit.

The load limit of the right front storage box is 0.5kg, please do not exceed the limit.

The load limit of the rear compartment is 5kg, please do not exceed the limit.

Fuel tank



The fuel tank is located under the middle of the fuel tank cover. When opening the outer fuel tank cover, ensure whether the engine stop switch is in the off state, press the fuel tank switch button ①, the cover ② automatically opens, and open the fuel tank cover ③ counterclockwise. When installing the cover, proceed in the reverse order.

⚠ DANGER

Not excessively fill in oil, so as to avoid overflow of fuel flow to the high temperature engine. Fuel oil level height shall not exceed the fuel tank as shown at the bottom of the mouth, or fuel will overflow after the heat expansion, and will damage the motorcycle parts.

To turn off the engine when refueling, make sure the turn off switch is shut down. Do not close to fireworks.

Oil gun against excessive stretch into the fuel tank, so as not to damage the fuel sensor.

When you fill in the fuel, you should have some prevention measures, otherwise it will cause fire or fuel vapor into the eye. When you fill in the gas, go to the open air. Make sure the engine has been closed to avoid oil spills. No smoking, make sure no heat or fire source around. Avoid fuel vapor into the eye. When Refueling, keep children and pets away.

⚠ ATTENTION

Do not use high pressure water to rinse when washing the car fuel tank cover to avoid water to get in the fuel tank.



Rear shock absorber spring

The preload force of the rear shock absorber can be adjusted according to the rider, load-bearing conditions, driving style and road conditions. Five gears can be adjusted, only need to stabilize the side rack of motorcycle, use appropriate tools to turn the pre-compression adjuster to the required position, adjust the damping clockwise to harden, and adjust the damping counterclockwise to soften.

Side stand

When the side parking rack is supported, the side parking rack flameout switch sends a signal to the controller, and the controller controls the engine to flameout. At this time, pressing the start switch will cause no response. To start the engine, the side parking racks need to be closed.

Notes for fuel, engine oil and coolant/antifreeze

Fuel oil

The pure 95# or more unleaded gasoline must be used. The pure 92# unleaded gasoline can only be used in a short time in case of emergency, otherwise the engine lifetime will be shortened.

If there are tapping based on experience, you can use level higher gasoline or use other sellers of gasoline. Because there are differences between different brands.

Engine oil

Use high quality SM or above level four-stroke engine oil can prolong engine life. Please choose ZONTES API SN level or higher level of "four stroke motorcycle engine oil", It is on sale in all ZONTES shops.

⚠ WARNING

The unleaded gasoline, poor quality fuel oil and engine oil can damage the system components, and it will shorten the service life of catalyst in spark plugs and muffler. Unclean fuel oil can block the oil-way, resulting in abnormal engine working, don't use that kind of oil.

⚠ WARNING

Please properly deal with waste engine oil, do not prevent the environment. We suggest that you will put waste oil into a sealed container to a local recycling center. Don't put them into the dustbin or directly into the ground.

Engine coolant/antifreeze

The coolant/antifreeze we use is suitable for the aluminum radiator. The coolant/antifreeze is a mixture of coolant/antifreeze concentrate and water. If the outdoor temperature is higher than the freezing point of the coolant/antifreeze, it can be used. When you add or cool the coolant/antifreeze, please use alcohol as the foundation.

⚠ DANGER

It is bad for health if you swallow or absorb the coolant/antifreeze. Therefore, when you use it, please don't eat and drink. After every work, please clean your hands, face or any skin parts demonstrated. If you swallow it mistakenly, please go to the hospital immediately. If you absorb it mistakenly, please breathe more fresh air in the environmental in where there is full of fresh air. If the coolant/antifreeze runs into your eyes mistakenly, please watch your eyes with large amount of water at once. Also, keep the liquid away from kids and pets.

⚠ WARNING

The coolant/antifreeze which splash out is possibly do harm to the surface of the motorcycle. Please be careful when you refill the coolant/antifreeze. If it splash out, please clean it immediately.

Distill water for coolant/antifreeze

If you need to add water, please use the distill water. If you use other kinds of water, it would probably do harm to the cooling system.

coolant/antifreeze

coolant/antifreeze can prevent routing and lubricate the coolant/antifreeze pump. Therefore, if the outdoor temperature is higher than the freezing point of the coolant/antifreeze, it can be used.

⚠ ATTENTION

Please refer to the instruction of coolant/antifreeze product when you use it.

When adding coolant/antifreeze, ensure that the engine is cold. Do not open the tank cover of the hot engine, which may cause danger!

After the tank is filled with coolant/antifreeze, do not close the tank cover and loosen the thermostat outlet bolt (loosen 4-5 turns, remember not to fully unscrew it), start the engine idling (Appropriate fueling) for a period of time, and tighten the outlet bolt after the coolant seeps in the bolt. At this time, air is discharged from the water inlet. After the air is discharged, add more coolant/antifreeze. Once, until there is no air discharge from the water inlet, it feels hot when touching the radiator with your hand, it can be considered that the water tank has been filled up before the water tank cover can be closed.

The tank coolant/antifreeze is added between "L" and "H".

The volume of coolant/antifreeze

coolant/antifreeze volume (total volume): 1640ml.

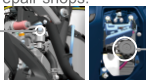
⚠ ATTENTION

Please choose the suitable coolant/antifreeze according to the driving air environment.

Gearbox oil

Use engine oil as gear box oil. Please choose ZONTES motorcycle four-stroke engine oil, which is available at all authorized dealers and repair shops.

Woutlet bolt



Water tank cover

Running-in of new motorcycle

The correct new running-in can prolong the service life of the motorcycle, it can also give full play to the performance of the new motorcycle. Below is a list of running in right way.

Engine running-in

recommended maximum engine speed

First 1000 kilometers	below 4700 turns/minute
Up to 1600 kilometers	below 5500 turns/minute
Over 1600 kilometers	below 8800 turns/minute

Engine speed

In order to protect the engine components, the engine speed limit is 9000 rpm. When the engine speed reaches the limit speed, the speed will be automatically adjusted near the speed limit, and the speed will fluctuate, which is normal.

Running-in of tires

Like engine running-in, the adaptation of the new tires need to be correct to ensure the best performance. In use within the first 150km new tires, we should gradually increase the turning Angle to connect the ground surface in order to achieve the best performance of the tire. In the use of new tires within the first 150km, we should avoid nasty acceleration, a sharp turn, and emergency braking.

DANGER

If a tire is in bad adaptation, it will cause the skid, or out of control. After replacement of tires, do be careful with driving. In accordance with this section in tires, in the first 150km, we should use wheel tires to avoid nasty acceleration, a sharp turn, and emergency braking.

Avoid prolonged full throttle operation

Since the engine is in a brand new condition, do not over-apply load during the first 1600 kilometers. During the running-in period, the parts in the engine will self-wear and polish each other to achieve the correct operating clearance. During this period, it is necessary to avoid prolonged full throttle operation or any conditions that cause the engine to overheat.

No matter in hot or cold machine status, before starting, you should let the engine had good idle running time in order to make the oil flow to all lubrication part.

Routine first time examination

The initial 1000 kilometers of maintenance is one of the most important work. During this period, all engine parts should have good running-in. In the case, maintenance and repair should put all the parts to readjust, tighten all fasteners, replace parts abrasive dust pollution of the oil. Repair, about 1000 kilometers seriously for the first time, will guarantee your motorcycle to play the best performance and prolong its service life.

WARNING

According to the instruction for use in the inspection and maintenance of an execution section for 1000 kilometers Maintenance and repair. Please pay special attention to the danger and warning content of this section.

Inspection before driving

If it's not well check before driving the motorcycle, and there is no proper maintenance, it will increase the risk of accidents and the risk of motorcycle damage. Always check the motorcycle during daily usage, make sure it is safe to run. Refer to the instruction manual inspection and maintenance of the chapters.

If the motorcycle use inappropriate tires, or operating motorcycle not correctly, or tire pressure is not correct, you will lose control of the motorcycle. have to use in this instruction manual provisions size and specifications of the tires. Always in accordance with the requirements of the inspection and maintenance section to keep proper tire pressure.

Keep proper wheel pressure

Inspection content	Key points for inspection
Steering system	Active steering, no block for moving, no working loose
Accelerator	Correct accelerator inhaul space, smooth operation; smooth holding for accelerator
Brake	Normal operation on braking controller and braking pedal; braking liquid above The LOWER line of the braking liquid cylinder; no feeling of inactive braking; no brake drag and brake liquid leak; braking plate wear within range
Shock absorber	Smooth and active controlling
Fuel oil	Enough planning distance oil level
engine lubricant	Is the amount of oil sufficient
Lamplight	Normal working for all kinds of light in the motorcycle
Indicator light	Distance light, turn signal right working normally
Horn	Working normally
Brake switch	Working normally
Shut down switch	Working normally

The importance of these tests can never be neglected. Complete all of the inspection before driving and necessary repairs.

DANGER

When you do the inspection, engine running status is more dangerous for you to inspect. If your hand or clothes are moving parts involved in the motorcycle, it will cause serious damage to you. In addition to check the engine flame out switch and power to run the engine, shut down the engine when you perform other checks.

Driving essentials

DANGER

As you drive the motorcycle for the first time, we suggest you had better look for practice on the un-public road, until you are familiar with this motorcycle control method.

Driving with only one hand is the most dangerous, we should driving in both hands firmly in the grip and both feet on the foot. No matter any situation, no hands are allow to be away from the line.

When turning, try to lower the speed to safe speed.

Road surface is moist and smooth, tire friction will be small, braking ability and the ability to turn the naturally decrease, so you must lift the speed.

Horizontal wind is usually the most likely to happen in the tunnel, valleys or large vehicles from behind when overtaking. You must be calm and lower your speed.

Obey the traffic rules and speed limits.

Engine start

After the motorcycle is unlocked, the entire motorcycle is powered on, and at this time, check whether the flameout switch is in the  position.

WARNING

The motorcycle is equipped with an interlock switch for an ignition circuit and a starting circuit. The engine can only be started under the following conditions:

Put away the side parking frame and hold the brake handle firmly.

When the dump switch rolls over the motorcycle, it will cut off the power supply, stop fuel supply and ignition, and turn off the motorcycle, and the fault indicator will light up. To restart the motorcycle, turn off the flameout switch. After 1 minute, turn on the flameout switch again and start the engine.

When the engine is cold

1. Close the side parking rack.
2. The throttle control handle is in the idle position.
3. Pinch the brake lever first, then press the electric start button  to start.

When the engine is difficult to start in a cold state

1. Close the side parking rack.
2. First squeeze the brake lever, turn on the throttle 1/8 opening, and then press the electric start button  to start.
3. After the engine is started, let the engine continue to run until it is fully warmed up.
4. When the engine is still difficult to start after several starts, the cylinder may have been flooded, execute the cylinder cleaning procedure; fully open the throttle and press the start button for 3 seconds.

WARNING

The colder is the weather, the longer time the engine needs to preheat. After fully preheat, you can reduce the engine wear and tear.

When the engine is in a warm state

1. Close the side parking rack.
2. The throttle control handle is in the idle position.
3. Pinch the brake lever first, then press the electric start button  to start.

When the engine is difficult to start in a warm state

1. Close the side parking rack.
2. First squeeze the brake lever, turn on the throttle 1/8 opening, and then press the electric start button  to start.
3. When the engine is still difficult to start after several starts, the cylinder may have been flooded, execute the cylinder cleaning procedure; fully open the throttle and press the start button for 3 seconds.

DANGER

Get in the habit of retracting the side parking frame when starting, return the throttle, and hold the brake handle before starting. To avoid making mistakes, rush forward when starting. Only by retracting the side parking frame and holding the brake handle can the motorcycle be started.

Do not start motorcycle without fuel and engine oil.

Driving

After starting, if you need to move the motorcycle, please release the brake and slowly increase the accelerator; when the motorcycle speed increases so that the motorcycle can maintain balance, then put your feet away on the pedals.

ATTENTION

This motorcycle is equipped with an interlock switch for side parking racks and ignition. When the side parking frame is raised, the engine will stop running.

WARNING

Do not allow the engine speed to be too high when going uphill, otherwise, the internal parts of the engine may be easily damaged.

Do not turn off when going downhill, so as not to reduce the life of the catalyst in the muffler.

Brake and Park

- (1) Turn the throttle control handle forward, and make the throttle fully return.
- (2) Remove the two expansion nails and remove the battery cover assembly.
- (3) If the motorcycle is to be parked on a gentle slope with the side rack, try to keep the front of the motorcycle on the uphill side to prevent the side rack from turning over and overturning.
- (4) Turn the turn off switch on the right handle bar to the turn off gear position, the engine will stop.
- (5) Turn the handle bar to the left for most extent, press the " " button for 2-3 seconds, the handle bar will be locked and the electricity will cut off completely.
- (6) Swing the handle bar to make sure the handle bar is locked.

DANGER

High speed will extend the braking distance accordingly. Make sure the front vehicle or object to have proper distance with you to make your motorcycle braking. Otherwise it may cause collision.

Use only front and rear brake is very dangerous, the braking method causes skid and out-of- control. In the wet pavement as well as turn place, be careful gently use the braking system. In the uneven road surface or smooth roads, to have emergency braking, you can make the motorcycle out of control.

Emergency braking when the motorcycle is turning can make the motorcycle out of control. In this case, brake before the turning to reduce speed.

When the engine is working or just stalling soon, the temperature of the muffler is high, please do not touch to prevent burns.

Only use rear brake to brake will make brake system accelerated wear and tear so that the braking distance is longer and longer.

WARNING

If you use other anti-theft lock, such as u-lock, brake disc, chain lock anti-theft lock; you have to remove the anti-theft lock before driving.

Inspection and maintenance

Maintenance schedule

The table below is the inspection for each regular maintenance should be done, the interval period should be used in months or mileage depending on which one reached first. Each check should be carried out in accordance with the project in the table below.

If your motorcycle has been used in harsh conditions, namely the continuous driving in large throttle or worked in wind sand, it should have special maintenance to keep the reliability of the motorcycle after driving. The repair units can provide you with further advice. Especially, shock absorber and wheel steering system are key parts, and they require specialized technology and careful maintenance. To be safe, we recommend the work best done by a qualified repair units.

DANGER

Initial 1000km maintenance is the must-follow project, it can make your motorcycle always reliable and have superior performance.

When the engine is working and just stalling, the temperature of the muffler is high, please do not touch to prevent burns.

Improper maintenance or problems after maintenance will cause an accident. To keep your motorcycle in good condition, it request the company qualified maintenance unit complete with mark project. Refer to this section, if you have any mechanical maintenance experience, you can maintain the unmarked items; if you are not sure how to deal with the work, let your repair units to complete the maintenance.

WARNING

Pay attention to the maintenance regularly to see whether full compliance with the prompt or not carefully. The initial 1000km maintenance, shall be carried out according to the method described in this section. "Dangerous" and "Warned" in this section should pay special attention to. Replacing the wrong parts can lead to motorcycle accelerated wear and tear, and shorten the service life of the motorcycle. When the motorcycle needs to replace parts, you can only use pure part of the company.

Waste in the maintenance process, such as cleaning agents and waste engine oil should be properly handled so as not to damage to the environment.

Regular maintenance table

Inspection cycle	Inspection item	kilometer months	First 1000 First 3	Each5000 Each15	Each10000 Each30
Air filter (filter)			—	Check	Change
engine air inlet filter			—	Check	Change
Muffler bolt, nut			Fastening	—	Fastening
Check valve clearance (cold) In 0.08-0.12mm / Out 0.18-0.22mm			—	—	Check
Ignition plug			—	—	Check
Engine oil			Change	Change	—
Engine oil filter			Change	—	Change
Throttle body			Check	—	Check
Throttle digging line gap			Check	Check	—
Idling			Check	Check	—
Fuel evaporative pollutants control system			—	—	Check
Radiator rubber hose			—	Check	—
Fuel pipe			—	Check	—
V belt			—	—	Check
			Replace every 20,000 kilometers		
Brake			Check	Check	—
Brake liquid pipe			—	Check	—
			Change once every four years		
Brake liquid pipe			—	Check	—
			Change once every two years		
Tires			—	Check	—
Knuckle mechanic			Check	—	Check
Front fork			—	—	Check
Rear shock absorption			—	—	Check
Body and the engine installation of bolts and nuts			Fastening	Fastening	—
coolant			—	Check	—
			Change once every 4 years or 40000km		
Gearbox oil			Change	—	Change

Initial maintenance for the first 1000 km or 3 months (whichever comes first), every 5,000 km or 15 months (whichever comes first) Regular maintenance.

Inspection and maintenance

⚠ ATTENTION

According to the project inspection table, if necessary, to further cleaning, lubrication, adjustment or replacement operations.

In poor road conditions and high power conditions for a long time, you should increase the inspection frequency.

Toolkit

Open the seat cushion and place the tool kit on the back of the seat cushion, as shown in the figure.



Toolkit

Fuel tank disassembly instruction



1



2



3



4



5



6



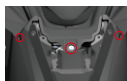
7-1



7-2



8



9

The Disassemble steps of the fuel tank:

1. Open the seat cushion, loosen the three nuts, and remove the cushion.
2. Loosen the fastening bolts of the left side cover, gently remove the left side cover, and remove the right side cover in the same way.
3. Loosen the three bolts and gently remove the left part of the fuel tank cover from right to left; remove the right part of the fuel tank cover in the same way.
4. Remove the two expansion nails and remove the battery cover assembly.
5. Loosen the two bolts at the front of the storage box and the two bolts, remove the two expansion nails in the middle of the fuel tank cover, lift the storage box from the back and pull it back for a certain distance without removing it.
6. Loosen the four bolts in the middle of the fuel tank cover, remove the left and right expansion nails at the connection with the rear cover; open the fuel tank outer cover, loosen the fuel tank cover fixing bolts, remove the fuel tank cover and the middle of the fuel tank cover, and finally tighten the fuel tank cap on the fuel tank port.
7. Loosen four bolts and remove the windshield.
8. Remove the two expansion nails and take out the instrument sun visor.



10



11



12



13-1



13-2



14-1



14-2



15-1



15-2



16-1

9. Remove two expansion nails, loosen one bolt, and remove the front cover.
10. Loosen two bolts and remove the front panel.
11. Remove one expansion nail, loosen two bolts and one self-tapping screw, and loosen the left turn signal; in the same way, loosen the right turn signal.
12. Loosen three bolts and remove the front left panel; remove the front right panel in the same way.
13. Use a single batch to pry and remove the front left pedal rubber pad pressing plate and the front left pedal rubber pad from the reserved position, and loosen the two bolts; do the same on the right.

Inspection and maintenance

14. Remove one expansion nail and two bolts, and remove the left decorative cover of the front storage box panel; remove the right decorative cover in the same way

15. Pry and remove the rear left pedal rubber pad presser plate and the rear left pedal rubber pad from the reserved position with a straight batch, loosen eight bolts and three expansion nails, and remove the left pedal and left pedal decorative cover; similarly method remove the right pedal and the decorative cover of the right pedal.



16-2



16-3



17



18



19



20-1



20-2

16. Loosen the front part of the enclosure downwards, and then pull the enclosure bottom out back. Please pay attention to the three limit structures in the picture.

17. Open the left and right storage boxes, loosen the six bolts, and remove the front storage box panel as a whole.

18. Remove the two expansion nails fixing the air deflector of the cooling fan, and take out the air deflector of the cooling fan.

19. Unplug the high-pressure oil pipe, carbon canister adsorption pipe and oil level sensor connector on the oil tank.

20. Loosen the four bolts of the left and right pedal support plates, loosen the fuel tank cover, loosen the four bolts that fix the fuel tank, and rotate the fuel tank 90 degrees and pull it out from the left side of the frame. (Before disassembling the fuel tank, ensure that the internal gasoline volume cannot exceed half of the maximum capacity of the fuel tank. Excess gasoline needs to be drawn out to ensure safety; after dismantling the fuel tank, it is necessary to tighten the fuel tank cap in time to prevent gasoline volatilization or spilling out due to the fuel tank dumping. Be careful when disassembling, So as not to scratch the surface of the fuel tank).

⚠ WARNING

The fuel tank is in the correct position.

The pipe connection is correct.

When installing the fuel pipe, prevent foreign matter from entering the fuel pipe.

Before installing the fuel tank, check that the fuel vapor adsorption pipe is not bent or compromised.

Lubricating point

In order to ride safely, it is necessary to keep the working parts well lubricated, which can keep the operation smooth and extend the service life. After using in harsh conditions, after the bike is exposed to rain, after washing the bike, it should be lubricated. The lubrication points are as follows:



⚠ WARNING

Lubrication might damage the switch. Don't use grease or oil to lubricate the switch.

- ① Rear brake handle push head and handle shaft (GZ high vacuum silicone grease).
- ② Side parking frame shaft and spring hook (G grease).
- ③ Front brake handle push head and handle shaft (GZ high vacuum silicone grease).

Storage battery



gel battery

The battery is located under the driver's seat cushion, please connect the positive and negative poles and install the battery straps for the first time.

Disassemble the battery in the following steps:

- a. Turn off the motorcycle power switch.
- b. Remove the cushion.
- c. Poke black protective cap, remove the negative extreme (-), push aside red protective cap, remove the positive extreme (+).

⚠ WARNING

When the battery is reinstalled, the motorcycle is powered off during starting or riding, the battery is restarted after sleep, the idling speed is abnormal, and the fuse is re-plugged, please pay attention to reset the individual hardware of the EFI. The steps are: turn on the switch Lock and the engine flameout switch, support the main bracket and squeeze the brake, start the engine and refuel above 3000rpm, release the throttle, then close the flameout switch and electric door lock, and then power on after 5s.

Replace the battery, please note the following:

When you replace battery, you shall confirm the battery type and verify the models are consistent with the original battery. the specification of the battery in motorcycle design is considered as the relative match. if switch to a different type of battery, it could affect the performance and life of the motorcycle, and is likely to trigger circuit fault.

⚠ WARNING

If you don't drive your motorcycle for a long time, please remove the battery and charge it per month. Battery should be checked regularly, if the voltage is lower than 12V, we suggest for battery charging. Battery charging will shorten the life of the battery. Don't let the battery over charge. Please charge the battery when you use the professional lithium battery. The charging voltage should not be over 15V.

Please properly deal with waste battery and waste electrolyte, don't damage to the environment.

We suggest that you will recycle waste battery and waste electrolyte to a local recycling center.

Don't discard it in the dustbin or discarded directly on the ground.

⚠ WARNING

Please purchase and use our special charger to ensure the extension of the service life of the battery. There are lead-acid battery chargers for sale in Zontes shop. Users who need them can go to Zontes shop to purchase the corresponding chargers according to the batteries equipped with the model.

It is not allow to use the unqualified charger to charge the original battery.

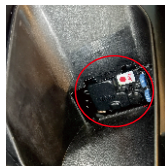
Charger Manual

When the battery feed cannot be started due to the long time of not cycling or other reasons, please recharge the battery as the following steps:

- a. Open the right cover of Figure 1 and remove the PKE fuse.
- b. Plug the DC output plug of the charger into the PKE charging port;
- c. Charger input AC seat directly into the home 110-220V power supply, after charging is completed, unplug the charger and plug it back into PKE insurance.



Picture1



Picture2

LED indicator

Green light	Standby Mode
Red light	Charging Mode
Red light becomes Green light	Full Charging



Picture3

⚠ ATTENTION

Lithium battery needs to be charged with lithium battery charger, please buy our special charger, the chargers are available in Zontes shop, it is forbidden to use other unqualified chargers to charge the battery

Air filter and engine air inlet filter

The air filter and the engine air inlet filter are located on the left side of the rear wheel. If the air filter is blocked by dust, the air intake resistance will increase and the output power will increase. If the engine air intake filter element is blocked by dust, the air intake resistance increases, which will reduce the heat dissipation of the belt and affect the life of the belt. Follow the steps below to check and clean the air filter and engine air inlet filter.

WARNING

The air filter element and the engine air inlet element should be replaced every 10000 km. The primary air filter element and the engine air inlet element should be cleaned regularly in accordance with the provisions of the Regular maintenance table. If you often ride in humid or dusty areas, you should check the air filter element more frequently. Be sure to check the air filter drain pipe as often as necessary.

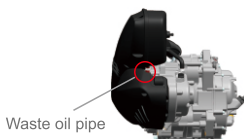


Figure 1

Air filter waste oil pipe

As shown in Figure 1, check the waste oil pipe behind the air cleaner box for dirt or water. If you see dirt or water, remove the hose from the snap ring for cleaning, and then reinstall the hose. Note: If there is dirt or water in the inspection hose, be sure to check whether there is too much dirt or damage in the air filter element, and replace it with a new one if necessary.

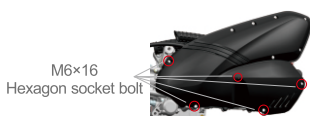


Figure 2

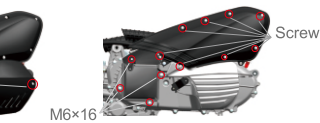


Figure 3

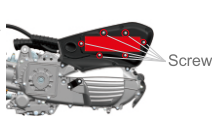
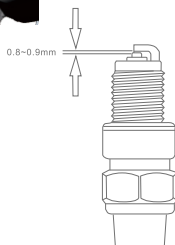


Figure 4

Clean or replace the air filter and the engine air inlet filter

1. As shown in Figure 2, remove 5 bolts and remove the left cover of the air engine.
2. Blow away the dust on the dust-proof sponge with a high-pressure gun, and if it is severely damaged or dropped, buy a new one to replace it.
3. As shown in Figure 3, remove the 4 bolts marked 2 and remove the engine air inlet cover, then remove the engine air inlet filter.
4. Use a high-pressure gun to blow away the dust from the engine air inlet filter element from the clean side.
5. As shown in Figure 3, remove the 8 screws and remove the air filter cover.
6. As shown in Figure 4, remove the 6 screws and remove the air filter.
7. Use a high-pressure gun to blow away the dust of the air filter element from the clean side.
8. Check whether the air filter is damaged, and replace it with a new one if necessary.
9. Put the air filter element back into the air filter.
10. Tighten the screws and install the air filter cover.
11. Check whether the air inlet filter is damaged, replace with a new one if necessary, and put the cleaned engine air inlet filter back to the left cover of the engine.
12. Install the engine air inlet cover and install the bolts.
13. Install back to the left engine cover as shown in Figure 2.

Spark plug



Disassembly the spark plug
Follow the steps below:

1. Disassembly the spark plug cap, be careful not to use strong force, or you may break the spark plug.
2. To remove the spark plug with the spark plug wrench.
3. Check the spark plug.

Spark plug inspection

According to the maintenance schedule, the spark plug should be removed for inspection regularly. The condition of the spark plug can indicate the condition of the engine. The ceramic insulator around the middle electrode of the spark plug should be light brown (the ideal color when the motorcycle is running normally). If the spark plug has a significantly different color, it may be caused by poor engine operation.

If the spark plug electrode is corroded, excessive carbon deposits or other deposits, it should be replaced as soon as possible.

Spark plug installation

Before installing the spark plug, use a feeler gauge to measure the spark plug gap. If necessary, adjust the gap to the specified value.

Clean the surface and contact surface of the spark plug gasket, and wipe off the dirt on the spark plug thread.

If there is a lot of carbon deposits, use a hard wire or steel needle to remove the carbon deposits attached to the spark plug.

Install spark plug

Torque: 14N.m

WARNING

Incorrect installation of the spark plug can damage the engine cylinder head. Excessive torque to install the spark plug or random threading will also damage the engine cylinder head, so install the spark plug carefully. If there is no torque wrench when installing the spark plug, one way to estimate the correct torque is to tighten it by hand and then rotate it 1/4 to 1/2 turn. However, the spark plug should be screwed to the specified torque as soon as possible. Dirt will enter the engine through the spark plug installation hole and damage the engine. After removing the spark plug, you must cover the spark plug mounting hole with something.

Engine Oil



Maximum oil level
(about a quarter of a section)
Lowest oil level mark

Whether the engine can be durable or not, it is important to choose high-quality oil and change new oil regularly. Regular inspection of the oil level of the engine oil and regular replacement of the engine oil and oil filter element are two important tasks that must be carried out in the maintenance project.

Check the oil level of the engine oil

Follow the steps below to check the engine oil level.

1. Park the motorcycle on a flat ground and prop up the main support to make it upright.
2. Start the engine and run it at idle speed for 3 to 5 minutes (when the temperature is lower than 10°C, the idle running time is appropriately extended).
3. Turn off the engine and wait for 3 to 5 minutes.
4. Unscrew the oil dipstick counterclockwise, wipe it clean with a lint-free dry cloth or napkin, insert it in place (do not screw it in), and then take out the dipstick to observe the oil level. The oil level should be between the minimum and maximum oil level marks between.
5. If the oil level is lower than the minimum mark, add the recommended engine oil to the correct height.

WARNING

When the engine oil is too much or too little, running the engine can damage the engine. Stop the motorcycle on the flat ground and check the engine oil level gauge. The oil level must be between the lowest and the highest lines. When checking the oil level, make sure that the motorcycle is standing upright and slightly incline to either side may cause the inspection error side may cause the inspection error.

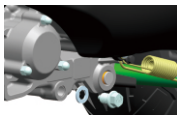
Oil changing

At each maintenance cycle, replace the engine oil. The engine oil should be replaced when the engine is warm, so that the old engine oil can be discharged more thoroughly. Proceed as follows:

1. Start the engine and run it at idle speed for 3 to 5 minutes (when the temperature is lower than 10°C, the idle running time is appropriately extended).
2. Place an oil pan under the engine to collect used oil.
3. Remove the oil dipstick and O-ring, then remove the engine oil drain bolt and gasket, and drain the oil in the crankcase.
4. Check whether the O-ring is damaged and replace it if necessary.

WARNING

It is recommended to change the oil at an authorized dealer or repair shop, or under the guidance of professionals. Please properly dispose of the waste engine oil, so as not to pollute the environment. We recommend that you put waste oil in a sealed container and send it to your local recycling center. Do not dump it into the trash can or directly onto the ground.



5. Install the engine oil drain bolt and gasket, and tighten the oil drain bolt to the specified torque. (Tightening torque: 25 N.m)

6. Add 1.7 liters from the fuel filler (if the oil filter element is replaced, add 1.75 liters). The viscosity is SAE5W-40/10W-40/10W-50. The new API SN level or higher "ZONTES" motorcycle four-stroke engine Oil, then install the oil dipstick and O-ring and tighten.

WARNING

If you don't use the prescriptive engine oil, it might damage the engine.

7. Start the engine and idle for a few minutes, and check for leaks in the disassembled parts. If there is oil leakage, immediately turn off the engine and check the cause.

8. Let the engine run at idle speed for 5 minutes, then turn off the engine and stop it for 3 minutes. Check the engine oil level through the scale on the oil dipstick. Correct if necessary.

DANGER

When the engine is running, it is forbidden to open the oil feeler gauge to prevent the high temperature oil from splashing and hurting people.

Engine oil filter

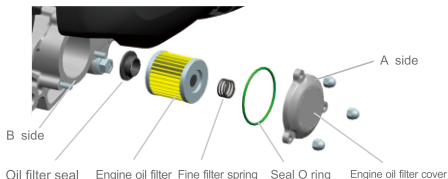
Please properly recycle and handle the used oil and oil filter.

1. Place an oil pan under the left crankcase cover.
2. Remove the 3 cap nuts on the oil filter cover and remove the oil filter cover.
3. Remove the old fine filter, the oil filter sealing ring may stick to the old fine filter, if you do not replace this sealing ring, please remove it and continue to use it, do not miss this sealing ring
4. Wipe off residual oil and impurities with a clean paper towel, check and install the filter spring and replace a new oil filter.

⚠ ATTENTION

It is very important to install the oil filter properly. Don't install the oil filter on anti-loaded and don't miss the spring and filter seals.

Please be sure to confirm carefully. Improper installation may result in serious engine damage due to oil contamination or missing



5. Install the fine filter cover: If necessary, replace the oil filter seal and the O-ring on the oil filter cover, and tighten the nut to the specified torque. (Tightening torque: 12 N.m)

⚠ ATTENTION

Before installing the fine filter cover, please carefully check whether the O-ring on the oil filter cover is damaged. When installing the fine filter cover, the O-ring should not be trimmed. If it is damaged or trimmed, please ask the dealer to replace it in time. Otherwise it will cause oil leakage. This fine filter already includes a sealing ring, it is recommended to purchase the fine filter cover O-ring together with the purchase of the fine filter.

Be sure to follow the correct procedure to install the filter cover, otherwise it will cause oil seepage.

Gear box oil

The gearbox must be checked for oil leaks before each ride. If you find any oil leakage, please go to the designated dealer or repair shop for treatment. In addition, be sure to replace the gear box oil at the intervals specified in the maintenance table.



Replace gear box oil:

1. Start the engine, ride the motorcycle for a few minutes, let the gear oil temperature rise, then stop and turn off the engine.
2. Prop up the main bracket and park the vehicle.
3. Place an oil basin under the gear box to collect the used oil.
4. Remove the oil filler nut and O-ring of the gearbox.
5. Remove the oil drain bolt and gasket, and drain the oil in the gear box.
6. Install the oil drain bolt and gasket, and then tighten the bolt to the specified torque. (Tightening torque: 20 N.m)
7. Fill the recommended gearbox oil to the specified capacity. (Specified capacity: 200ml; recommended oil: same as engine oil)
(Warning to prevent foreign objects from entering the gearbox. Make sure there is no oil on the tires and wheels.)
8. Install the fuel filler nut and O-ring, and then tighten the nut.
9. Check whether the gear box is leaking. If oil leaks, check the cause.

Throttle cable clearance



Adjustment progress:

- (1) Loose lock nut ①.
- (2) Turn the adjusting screw ② to adjust the clearance lasso, within the range of 2.0~4.0mm.
- (3) After completion of clearance adjustment, tighten the lock nut.

⚠ WARNING

After completing the clearance adjusting throttle cable, ensure the throttle hand turn automatically back to the closed position, do not make the engine idle speed by adjusting cable. It cannot appear the situation that the idling level is up when you turn the head of the motorcycle at the same time.

Idling

When you check the engine idle speed, it should be performed under the hot condition of the engine. engine idle speed range should be between 1500 to 1700RPM.

⚠ WARNING

If the idle speed of engine is beyond the scope of regulation, please let the designated company service units to check the motorcycle.

Fuel evaporative pollutants control system

The motorcycle has a control system which can prevent fuel evaporation to the atmosphere. It should be regularly (every 10000km or every 30 months) do the following.

- (1) Check whether every connection is reliable.
- (2) Check each line and the activated carbon tank ① crack or damage, please replace the damage.
- (3) Confirm every line and activated carbon tank ① whether blocking, clear or replace if necessary.

⚠ DANGER

If the fuel evaporative pollutants control system need to check and maintain, we strongly advise you to give this work to a qualified repair units to do it.

Fuel pipe

Fuel pipe

Check the fuel pipe for damage or leakage. If there is a problem, it is necessary to replace the fuel pipe.

⚠ ATTENTION

Don't rise the fuel pipe by your means.

V-belts

V-belts should be regularly inspected and replaced by designated dealers or repair shops in accordance with the maintenance schedule.

Coolant/Antifreeze

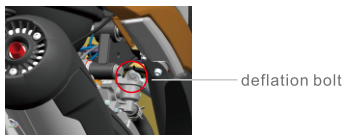
The coolant/antifreeze surface level in the main water tank should be kept between the H line and L line at any time. If the surface level drops to below the L line, please add the coolant/antifreeze according to the following steps:

1. Park the motorcycle with side stand.
2. After disassembling the right storage box, open the cover of the coolant expansion tank and add an appropriate amount of coolant. When the motorcycle is straightened, the coolant level is between the H line and the L line.



Steps to add antifreeze to the main water tank:

1. Unscrew the main water tank cover, loosen the thermostat bleed bolt, and unscrew 4-5 turns of threads;
2. Use a suitable container to add antifreeze to the water filling port; until the position of the thermostat bleed bolt is stable, the antifreeze drips out, and the antifreeze liquid level can be seen at the water filling port;
3. Tighten the main water tank cover, and tighten the thermostat bleed bolt, the bleed bolt torque is 8-10N.m;



Release the antifreeze steps:

1. Prepare the tools;
2. Disassemble the drain bolt under the water pump, and place the container directly under the threaded hole;
3. Unscrew the main water tank cover and wait for the antifreeze to drain;
4. Retighten the drain bolt, the torque value of the drain bolt is 8-10N.m;



⚠ ATTENTION

In order to correctly check the surface level of the coolant/antifreeze, we should put the motorcycle into the cooling engine condition.

If the main water tank is empty, please check and repair the cooling system immediately. After you finish fixing the cooling system, add some coolant/antifreeze inside.

⚠ DANGER

It is bad for health if you swallow or absorb the coolant/antifreeze. Therefore, when you use it, please don't eat and drink. After every work, please clean your hands, face or any skin parts demonstrated. If you swallow it mistakenly, please go to the hospital immediately. If you absorb it mistakenly, please breathe more fresh air in the environmental in where there is full of fresh air. If the coolant/antifreeze runs into your eyes mistakenly, please watch your eyes with large amount of water at once. Also, keep the liquid away from kids and pets.

Change the coolant/antifreeze

It is suggest that you change the coolant/antifreeze completely every 3 years or 30000 kilometers.

Braking system

This motorcycle front and rear wheel assembly of the disc brake. The right brake operation is very important for safe driving. Remember to regularly check the braking system, and the inspection qualified maintenance unit to complete.

⚠ DANGER

Brake is highly significant components of personal safety; you should regularly check and adjust the brake, and regular cleaning the sediment on the brake caliper, etc. to prevent obstacles to the movement of the piston.

If the brake system needs maintenance, we strongly advise you to give this work to a qualified maintenance unit. They have complete tools and skilled technology, and it is also the safest and most economical way to do the job.

No regular inspection and maintenance of motorcycle brake system will increase the risk of accidents. Confirmed before each use of motorcycle according to the brake system content. In accordance with the requirements of the regular maintenance table to maintain the braking system.

According to the following to check the braking system:

1. Check the brake cylinder liquid level position.
2. Check for leaks the front and rear brake system.
3. Check if the brake hose is leaking or broken
4. Check the brake disc and brake wear condition.
5. Operate the front and rear brake system to check whether is flexible and effective or not.

⚠ WARNING

The disc brake system is using high pressure brake. To ensure safety, the brake fluid hose and brake fluid replacement, shall not exceed this manual "inspection and maintenance" the rules of the verse.



Front brake fluid
low oil level line

Front braking fluid



Rear brake fluid
low oil level line

Rear braking fluid

Check the brake fluid level position in front and rear brake fluid cylinder. If the liquid level in the LOWER (low) below the mark, check the brake wear and brake fluid leakage.

⚠ DANGER

Don't wash brake cylinder directly with high pressure water.

If swallowed into the brake fluid, it will cause harm to people, and even deadly. The brake fluid is harmful to both skin and eye contact. Brake fluid is toxic for animals. Don't puke if swallowed into the brake fluid. Immediately contact the poison control center or hospital. If the brake fluid gets into eyes, wash your eyes, and look for a doctor for help. Wash your hands thoroughly. Keep children and pets away from the brake fluid.

⚠ WARNING

The brake fluid used in this motorcycle must not be mixed with water, dust and impurities, as well as silicic acid or petroleum-based liquids, otherwise it will seriously damage the brake system. Do not use brake fluid stored in an open container. The brake fluid left over from the last repair cannot be used. Only use DOT4 brake fluid. After the brake fluid is splashed on the painted surface or the plastic surface, it will corrode the surface of these substances, or cause the material to become brittle and break. The brake fluid splashed on the instrument dial. If the brake fluid splashes on the parts, please rinse them with clean water immediately.

Brake pad

Check that the front and rear wheel brake pads are worn to the extreme position. The extreme position refers to the bottom of the friction material groove. If it is worn to the limit position, please go to the maintenance shops and replace the front or rear brake pads in pairs.



Rear wheel brake piece



front wheel brake piece

Braking system

⚠ DANGER

If fail to brake piece inspection and maintenance, don't change in time or in the recommended replacement, it will increase the risk of accidents. If brake piece need to be replaced, please let the designated company service units to complete the job. It must accord with the method recommended by brake piece inspection maintenance.

If you drive the motorcycle after repairing the brake system or replacing the brake pads, and do not operate the front brake lever or the rear brake lever several times, the braking effect will deteriorate and an accident may occur. After repairing the brake system or replacing the brake pads, operate the front brake handle or rear brake handle several times until the brake pads can compress the brake disc, so that the front brake handle and rear brake handle return to normal hydraulic resistance.

⚠ WARNING

If you just change one pair of brake piece, it can cause the brake to not be smooth. You should replace a pair of brake at the same time.

If the location of the brake piece is wrong, please do not operate the brake handle or the brake pedal. If you operate on brake lever or the brake pedal, piston is hard to reset, and it can lead to the brake fluid leakage.

Brake disc

Front wheel

Checking the front brake disc: Use a caliper to check whether the thickness of the friction surface of the brake disc is less than 4.0 mm. If the thickness is less than 4.0 mm, a new brake disc should be replaced.

Rear wheel

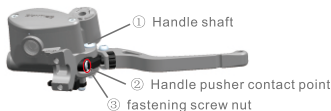
Checking the Rear brake disc: Use a caliper to check whether the thickness of the friction surface of the brake disc is less than 4.0 mm. If the thickness is less than 4.0 mm, a new brake disc should be replaced.

⚠ DANGER

When you have just replaced a new brake disc pad, do not drive immediately. Grab the brake handle several times or pedal the brake pedal several times to make the brake disc and the brake pad fit together to restore the normal grip and stabilize the brake fluid circulation.

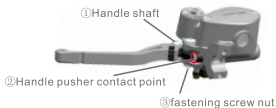
After replacing the new brake disc or brake pad, the braking distance may be longer than the original braking distance. After 300km or so, the brake disc and the brake disc can be fully meshed to achieve better. Braking effect, before this, pay attention to leave enough braking distance when driving.

Brake lever lubrication



Front brake handle

1. Unscrew the lock nut 3 with 10# plum blossom plate hand
2. Unscrew the handle shaft 1 with 5# inner hexagon, and remove the handle;
3. Wipe the handle pusher and the outer end of the piston with a clean cloth (position ② in the figure), and then evenly apply high vacuum silicone grease;
4. Wipe the handle shaft with a clean cloth, and then evenly apply high vacuum silicone grease;
5. Install the locking handle in the reverse order of the previous steps.



Rear brake handle

1. Unscrew the lock nut 3 with 10# plum blossom plate hand
2. Unscrew the handle shaft 1 with 5# inner hexagon, and remove the handle;
3. Wipe the handle pusher and the outer end of the piston with a clean cloth (position ② in the figure), and then evenly apply high vacuum silicone grease;
4. Wipe the handle shaft with a clean cloth, and then evenly apply high vacuum silicone grease;
5. Install the locking handle in the reverse order of the previous steps.

Tires

⚠ DANGER

Do not pay attention to the following matters may be accident caused by the failure of the tire. Tires connect the motorcycle and ground, so it is very important. Observe the following rule:

Check the tires and tire pressure condition, adjust the tire pressure before each use.

Avoid the motorcycle overload.

Replace tires when tire wear to limit or tire surface has crack and wounds.

Always use specifications and regulations provided in the instruction manual for the size of the tires.

After installing tires, you should balance the wheels.

Read carefully the content of the instruction.

If tire running-in is not good, it will affect the occurrence of tire slip and lose of control. When motorcycle is using new tires, you must be driving carefully. According to the running-in-section in tires, avoid braking in the situation of nasty accelerated, a sharp turn, and emergency within 150 kilometers after the replacement of tires.

Tire pressure and load

The right tire pressure and the right tire load is an important factor. Overload can lead to tire faulty and motorcycle will be out of control.

Check the tire pressure, payload in accordance with the contents of the table below before using the motorcycle. You should check and adjust tire air pressure before driving. During driving, rear tires will fever, and tire pressure will rise.

If tire pressure is too low will cause the difficulty of turning, it will also accelerates the tire wear. If the tire pressure is too high, the tire and ground contact area is reduced, it is easy to slip out of control.

Recommended tire pressure under the normal temperature condition: 260kPa .

⚠ WARNING

Regularly check the tire pressure, tire pressure is not allowed to be less than 250kPa.

When feeling tire pressure drops, check whether there is a nail in the tire, small hole, round circle round (copper) profile is damaged. Tubeless tire is gradually deflated when small hole.

Storage of Tires

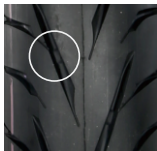
When the motorcycle is not in use for a period of time, it is necessary to adjust the tire pressure to the specified pressure.

The tire is rubber product of semi-hot melt formula, which is not suitable for outdoor weather in extremely cold, otherwise it will cause frost crack of the product. Please store it in a place with higher temperature or indoor.

Tire status and specifications

Incorrect tire status and incorrect tire size affect the performance of the motorcycle. If there is any breakage in the tire scratches, it can lead to faulty tires and make the vehicle out of control. Excessive wear of tires can make tires perforation and the vehicle out of control. Tire wear is also affect the appearance of the tire, and change the operating performance of the tire.

Check the state of tire and air pressure before each use. If there is much obvious damage on the tires, such as: damaged, scratched, or tire wear to limit position, you must replace tires.



⚠ ATTENTION

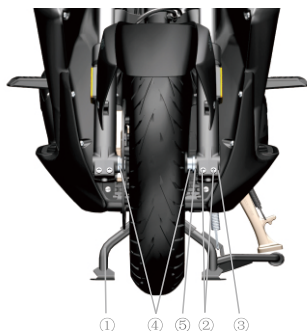
The triangle labels the wear strip position. If the wear strip touches the ground, it shows that the tires have been wear to pass the limit. You have to change the tires. When you change the tires, make sure that the size and type of the tires is accorded with the list content below. If you change it to different sizes or type, it will influence the performance of the motorcycle and may even lead to the loss of control for the motorcycle.

	front wheel	rear wheel
Specification	110/80-14	140/70-14

⚠ DANGER

It will cause problems if you use the tires which are out of the range of the standard. We really suggest you use the standard tires.

Disassembly of tires



Torque requirements:

Front wheel locking bolt ②: 20Nm

Front axle ③: 50Nm

Front wheel disassembly:

1. Lift up the main support①;
2. Loosen the two front wheel axle locking bolts②;
3. Place tools under the front shock absorber, jack up the front of the motorcycle, and let the front wheel hang in the air;
4. Rotate the front wheel shaft ③ counterclockwise and pull it out;
5. Move the front wheel forward;
6. Install the front wheel according to the reverse operation above;

⚠ WARNING

Two front wheel bushings ④The big end faces the front to absorb shock, after tightening, there is a gap of 2.5mm at the arrow position ⑤.

7. After installing the front wheel, operate the front brake handle several times to restore normal grip.

⚠ DANGER

Danger: After installing the front wheel, the incorrect position of the brake pads will affect the braking effect and may cause accidents. Before driving, operate the brake handle repeatedly until the brake pads put a certain pressure on the brake disc when the brake handle is gripped, and you can feel that the handle has restored its normal gripping force. Also, check whether the wheels turn flexible.

Disassembly of tires

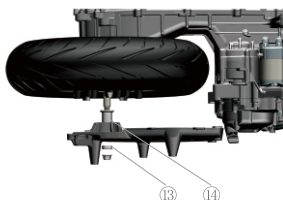


Torque requirements:

- Rear axle nut④: 125Nm
- Rear disc brake caliper fixing bolt ⑨: 24Nm
- Rear rocker arm fixing bolt ⑩: 45Nm
- Rear shock absorber locking bolt⑪: 23Nm

Rear wheel disassembly:

1. Open the main stand①;
2. Loosen the two muffer flange nuts②;
3. Loosen the three muffer fixing bolts ③, and remove the muffer. (Note: After pulling out the bolts, be careful that the muffer hits the ground)
4. Tighten the rear brake handle to lock the rear wheel, and loosen the rear wheel axle nut ④;
5. Pull out the engine right cover decorative plate ⑤, loosen the two wheel speed sensor fixing bolts ⑥, the two rear inner mud plate fixing bolts ⑦, one fuel pipe cable fixing bracket bolt ⑧, and two rear disc brake caliper fixing bolts ⑨, two rear rocker arm fixing bolts ⑩, one rear shock absorber locking bolt ⑪.



6. Loosen the disc brake oil pipeline and remove the rear disc brake caliper, take out the rear rocker arm ⑫, the rear wheel flange bushing ⑬, unplug the rear inner mud plate from the air filter, and remove it from the engine output shaft.
7. Reinstall the rear wheel in the reverse order, and check if the rear wheel rotates flexibly after installation.

⚠ WARNING

The large end of the rear wheel flange bushing faces the rear wheel.
Before tightening the rear wheel axle nut, check whether the rear wheel axle sleeve ⑭ is in the oil seal.

⚠ DANGER

Make sure to tighten the corresponding bolts and nuts according to the specified torque. If you don't know how to operate, please contact the company's after-sales maintenance organization to complete these operations.

After installing the rear wheel, after repeatedly pinching the brake handle several times, be sure to check that the rear disc brake has a certain pressure, and the brake system can work normally.

Illumination and signal

Please refer to the instruction of the front part "check before driving" for the illumination and signal inspection.



Front brake switch



Rear brake switch

Front brake switch

The front brake switch, housed in a former brake controller. When you slightly feel pressure before holding brake controller, the brake light is up.

Rear brake switch

The rear brake switch is arranged on the rear brake handle. The brake light will light up when the brake handle feels a little pressure after being gripped.

Lamp bulb change

We use imported LED light product for the front light. In that case, we don't need to change the lamp bulb during the usage life of the motorcycle since it is very durable.

Headlight beam adjustment

1. Use a 6×150-200 cross from directly below the headlight and directly behind the horn, through the dimming hole reserved on the horn mounting bracket, and align the dimming bolt serrations;
2. Looking from top to bottom, turn the Phillips screwdriver clockwise to lower the beam, and turn the Phillips screwdriver counterclockwise to increase the beam.



Horn bracket reserved 6×150-200 Phillips dimming hole screwdriver



When dimming, the Phillips screwdriver and the serration of the dimming bolt must be effectively engaged

safety position

The safety position is located in the battery box at the front of the rear storage box. For details, refer to the figure below.



Fuse wire

Main fuses, ECM fuses, constant power fuses, hydraulic unit motor fuses, hydraulic unit ECU fuses, light fuses, spare fuses are located in two main fuse blocks, starter fuses, ABS fuses, auxiliary fuses, and other fuses are located in the secondary fuse box.

1. The main fuse protects all circuits.
2. ECM fuse protects ECM, ECM relay, oil pump relay and other electrical components.
3. Constant power supply protection fan, instrument, anti-theft device connector.
4. Hydraulic unit motor fuse protection ABS hydraulic unit motor.
5. Hydraulic unit ECU fuse protection hydraulic unit ECU.
6. Light fuse protection headlights.
7. Start fuse protection start circuit.
8. ABS fuse protection ABS controller.
9. Auxiliary fuse protection auxiliary parts (position light, turn signal, tail light, brake light, license plate light, horn, overtaking light).
10. Other fuse protection deputy handle switch (except faucet lock switch), instrument, windshield, anti-theft device joint).

DANGER

Don't use not-in-specification fuse wire or other direct lap. Otherwise it will have serious absence made of circuit system, or even cause fire or burning vehicles, loss of engine power, it is very dangerous.

Accelerant

⚠ WARNING

Pay attention to the selection rules of the rated current of fuse. Do not use a substitute, such as aluminium or iron wire, etc. If the fuse wire frequently fuse in a short time, it shows the electrical system has fault. You should immediately make maintenance unit overhaul.

Accelerant

Catalyst can effectively cut your vehicle exhaust pollutant, the protection and preservation of our environment; Due to the life of the catalyst is under the precondition of normal use unleaded gasoline vehicle design, banned the use of leaded gasoline in the love of your car, because lead can make a reduction of the catalyst is also very important, if the engine is not effective when the ignition or without adequate cooling, will cause the exhaust gas gathered in catalytic combustion, catalytic overheating caused permanent damage to the catalytic conversion ability, banned in situ long maintain high engine speed.

Trouble shooting

The content of the troubleshooting can help you to find the cause of the general issues.

⚠ WARNING

Improper maintenance and adjustment can damage the motorcycle and cannot determine the cause of the problem. We can't guarantee such damage. If you are not sure how to correct operation, consult the designated company service units.

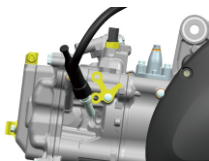
Before the troubleshooting, best to consult the company repair units. Repair units will try to solve for you.

Fuel system inspection

If instrument engine fault indicator light is on, there is something wrong with the fuel injection system. You should send the motorcycle to the designated company service units. Refer to instrument a section of the content of the engine failure indicator, it shows the interpretation.

Ignition system inspection

- 1.Remove the spark plug, and connect to the spark plug cap.
2. Place the spark plug on the engine, turn on the red power button, place the engine stop switch at the  position, support the main bracket, and hold the brake handle. Press the electric start button, if the ignition system works normally, the spark plug electrode will emit a blue spark. If there is no spark, contact our company's maintenance unit for repair.



⚠ DANGER

Do not put the spark plug fixed near the spark plug hole to make the inspection. Because of the combustible mixture in the cylinder may be ignited by a spark and fire.

In order to reduce the possibility of electric shock, and spark plug shell metal parts, with best posted near to the parts without painting.

To avoid the possibility of electric shock lead to disaster, people who have heart disease or wear heart pacemaker should avoid doing this job.

Engine inoperation

- 1.Make sure the fuel tank has enough fuel
- 2.When you successfully start the engine, in the process of engine running, it shous abnormal situation when the orange fuel injection signal light is on. In that case, please contact after-sales dealership to check your fuel injection system.
- 3.Check whether the ignition system is normal
- 4.Check the idle. The correct idle speed of 1500-1700 revolutions per minute.

Trouble shooting

DANGER

Don't make the fuel flow everywhere, the container should be income. Don't let the fuel close to high temperature of the engine and the muffler. When doing the inspection, it should be far away from the fireworks, also don't close to fire and heat source.

Engine short of power

When engine power significantly decreased or a larger decline on original top speed, it may be the blocking of the engine fuel system make the work of engine is not normal, please immediately go to the company dealers maintenance unit for inspection.

WARNING

Fuel system block is probably because of the not clean gasoline.

Carbon deposit cleaning

In order to generate as little carbon as possible, the recommendations are as follows:

1. The motorcycle rides for a short time or for a long time or for a long time under 5000 rpm. It is recommended to clean the carbon deposit every 5000 kilometers or every 6 months. If the motorcycle often rides at more than 5,000 rpm, the motorcycle's heat engine is also sufficient, and the mileage for cleaning up carbon deposits can be extended to every 10,000 kilometers or every 12 months.

2. The motorcycle has difficulty in starting. Remove the spark plug for cleaning in time, and perform the cylinder cleaning procedure. Press the start button for 3 seconds when the clutch is fully opened.

There are several ways to clean up carbon deposits:

1. Scavenging to clean up carbon deposits. During riding, when conditions permit, appropriately increase the throttle at high gears to increase the engine speed to more than 7000, and the cumulative riding is not less than 2 minutes, which can effectively clean up the deposits by high-speed scavenging.

2. Use standard brand fuel oil to clean up carbon deposits and add according to the instructions, but it is not recommended for frequent use. Frequent use may cause damage to the fuel supply pipeline.

3. Use throttle body cleaner to clean up carbon deposits, remove the stepper motor and three-in-one sensor from the throttle body, spray a small amount of throttle body cleaner into the throttle body and around the valve plate, and use a clean rag to clean up carbon deposits on the motor head.

Fuel injection attention

Fuel injection attention:

1. Before the installation of battery for new motorcycle, we should inspect that whether the connection for the fuel injection spare parts is fixed and reliable including the installation of oxygen sensor. Moreover, make sure to fill in the gas.

2. When you install the battery, you should use tools to fix the positive and negative anodes according to the positive and negative anodes of battery. Do not tie it up by hand.

3. Please keep the gas level to not less than 3 liter in the fuel tank; otherwise it will influence the normal working of fuel injection system. In that case, please refill the gas when the gas level is lower than or equal to level 1.

4. When the battery is reinstalled, the motorcycle is powered off during startup or riding, the battery is restarted when the battery is dormant, the idle speed is abnormal, and the fuse is re-plugged, please pay attention to reset the individual hardware of the EFI. The steps are: open Electric door lock and engine shut-off switch, support the main bracket and squeeze the brake, start the engine and refuel above 3000rpm, release the throttle, then close the shut-off switch and electric door lock, and then power on after 5s.

5. If the motorcycle is not driven for a long time (parking time is more than 3 hours), please make sure that the fuel pump has completed accumulating pressure before starting for the first time (that is, the bike is powered on, the flameout switch is turned on, and the buzzing in the fuel tank stops) before starting.

6. If after several tries, you cannot still start, it might be the situation that the cylinder occupied by water. We should take the clear cylinder process. Turn the throttle line all the way down to full open, and then turn on te switch for 3 seconds.

7. If the battery voltage is flashing on the instrument, it indicates that the voltage level is too low, please recharge the battery at once; low voltage will lead to the abnormal working condition of the fuel injection spare parts so that the motorcycle won't start or the power is not enough.

WARNING

For new motorcycles or motorcycles which have no fuel inside the fuel tank, please don't turn off the switch. It got to refuel some level of fuel before you turn off the switch. Otherwise, the fuel pump will rotate without fuel so as to lower the service life for the fuel pump.

WARNING

Please do not unplug the cable port of all different spare parts and do not clean it with water.

1. When the engine is running, if the EFI failure indicator on the instrument is on, it indicates that there is a fault in the EFI component that needs to be eliminated.

a. Turn the throttle to the maximum before energizing the motorcycle and keep it in the fully open position, then turn on the electric lock and engine switch. If the system detects a fault, the fault light will start to flash.

b. The fault code has 4 digits. Read the fault code according to the number of flashes. For example: P0201 flashes in the following ways: continuous flashing 10 times→pause 1 second→continuous flashing 2 times→pause 1 second→continuous flashing 10 times→pause 1 second→continuous flashing 1 time.

c. If there is more than one fault, the next fault code will flash after the fault light is off for 4 seconds. Therefore, after the fault light is off during the flashing process, waiting for more than 5 seconds and still no longer lights up, it means that the fault code has been flashed.

d. If you need to observe the flashing code again, you need to turn off the engine switch first, then turn it on again, and keep the throttle fully open.

Code	Description	Code	Description
P0030	Upstream 1 cylinder oxygen sensor heating control is open circuit	P0116	Engine coolant temperature sensor signal is unreasonable
P0031	Upstream 1 cylinder oxygen sensor heating control circuit voltage is too low	P0117	Engine coolant temperature sensor circuit voltage is too low
P0032	Upstream 1 cylinder oxygen sensor heating control circuit voltage is too high	P0118	Engine coolant temperature sensor circuit voltage is too high
P0106	Intake pressure sensor/barometric pressure sensor is unreasonable	P0122	Throttle position sensor circuit voltage low limit
P0107	Intake pressure sensor is short circuit to ground	P0123	Throttle position sensor circuit voltage high limit
P0108	Intake pressure sensor is short circuit to power supply	P0130	Signal of the upstream 1 cylinder oxygen sensor is unreasonable

Fuel injection attention

Code	Description	Code	Description
P0112	Intake temperature sensor signal voltage is too low	P0131	Signal of the upstream 1 cylinder oxygen sensor is too low
P0113	Intake temperature sensor signal voltage is too high	P0132	Signal circuit voltage of the upstream 1 cylinder oxygen sensor is too high
P0134	Upstream 1 cylinder oxygen sensor circuit signal failure	P0627	Oil pump relay control circuit is open
P0201	1 cylinder injector control is open circuit	P0629	Oil pump relay control circuit is short circuit to the power supply
P0261	1 cylinder injector control circuit is short circuit to ground	P0650	MIL lamp driver stage circuit failure
P0262	Intake pressure sensor is short circuit to power supply	P0444	Canister solenoid valve open
P0322	Speed-Sensorless pulse signal (open circuit or short circuit)	P0459	Canister solenoid valve is shorted to power supply
P0480	Fan control is open circuit	P0458	Canister solenoid valve is shorted to ground
P0691	Fan control circuit is shorted to ground	P2300	1 cylinder ignition coil is shorted to ground
P0692	The fan control circuit is short circuit to the power supply	P0628	Oil pump relay control circuit voltage is too low
P0511	Idle speed actuator control is open circuit	P1098	Dump sensor signal voltage is too low
P0563	System battery voltage is too high	P1099	Dump sensor signal voltage is too high

2. Extinguishing conditions of the instrument fault light:

Manually clear the historical fault operation: power on→turn on the engine switch→start, turn the throttle in neutral to 4000 rpm or more, hold for 10 seconds→release the throttle, turn off the engine switch, the motorcycle does not need to be powered off, wait for 10 seconds or more; the fault light will go off after repeating the above operation 4 times.

ATTENTION

When the engine is running, broken light is not on. When you turn off, the signal light is flashing. It means that is historical error and it has nothing to do with the whole motorcycle. After that it will disappear.

USB Port

Charge USB port data:

Input voltage: 12V-24V; output voltage: 5V; output voltage: 2A.

Characteristic:

1. Waterproof cover can prevent water and dust from getting inside to extend the usage life of the charger.
2. Intelligent IC design. It will automatically adjust the charging speed according to the battery volume and type.
3. With the protection of over voltage and current, we can make sure the safety of charging.

⚠ ATTENTION

USB must be covered with waterproof cover, when not in use, during raining time or washing of the bike. water is likely to cause damage to the internal components, If water enter the USB, dry before use by using a hair dryer to blow the USB port.

Please don't use when there is not enough battery volume.



Adding electrical parts

The original motorcycle has been equipped with a modified port, as shown in Figure 1, the modified port is located at the left rear of the frame. The modified port is a waterproof plug, and the engine can be powered on, and spotlights can be installed without destroying the original motorcycle route.

⚠ WARNING

It is forbidden to use GPS, spotlights and other electrical equipment to directly take power on the positive and negative poles of the battery.

Not allow electrical equipment to put wiring around the battery.

Installed electrical equipment must be kept away from the EFI ECU, relay combination, PKE controller 300mm or more

Unauthorized breakage modification and installation location do not meet the requirements, and the consequences are borne by owners

The total power of external electrical equipment shall not exceed 60W

Security device plug: As shown in Figure 2, there is an anti-theft device plug (6pin) reserved inside the left tail skirt, which can be used to install anti-theft device or GPS and other electrical devices. The wire colors and definitions are:

No	line color	Definition
1	blue and white	engine speed signal
2	red	power supply 12V
3	green	power supply 0V
4	light blue	right turn singal
5	orange	left turn singal
6	Black	ACC 12V

In addition, two red short-circuit single lines are reserved for emergency assistance.



①



②



Storage methods

Storage method

If you are not using motorcycle for a while, the motorcycle needs special maintenance, this requires some special materials, equipment and technology. For this reason, it is recommended that you choose the company service units to complete the maintenance work. If you want to complete the work, please click the following method:

Fuel

Thoroughly clean the motorcycle. Use the main parking stand to park the motorcycle on a flat ground. The handlebars to the left, long press the button of red power-on button, the motorcycle will be electrically cut off, the head lock will be also locked automatically.

Fuel

With the method of the siphon or other appropriate approach to pull out the fuel from the fuel tank into the appropriate containers.

Engine

- 1.Remove the spark plug, put a tablespoon of oil into each of the spark plug hole, reinstall the spark plug, and let the engine crankshaft rotate for several rounds.
- 2.Through dry the oil, and add new oil again.
3. With cloth containing new oil to cover the new oil filter of the air inlet and exhaust muffler to avoid

Storage battery.

- 1.Remove the battery refer to the content in battery section.
- 2.Use neutral soap water to clean surface of the battery, remove rust from the terminals and wiring connector.
- 3.Storage the battery indoor where the temperature is over 0°C.

Tires

Adjust the tire pressure to the regulated pressure.

The surface of motorcycle

Put rubber protective coating on the surface of resin and rubber parts.

The antirust paint spraying on the surface of the parts that have no surface treatment.

Use the car wax coating paint the surface.

Maintenance during storage period

Please use our dedicated charger to charge the battery once a month.gel battery charger charging: 4A × 3 ~ 5 hours (charging voltage 14.5V ~ 14.8V). The batteries can not be charged for more than 5 hours.

Restart method

- 1.Clean the motorcycle completely.
- 2.Remove dishcloth for air filter and the intake muffler exhaust.
3. Pull off all the engine oil. According to this instruction manual related content, replace the oil filter and add new engine oil.
- 4.Remove the spark plug. Let the engine turned several rounds. Reinstall the spark plug.
- 5.Reinstall the battery referring to battery content section.
- 6.Make sure motorcycle lubrication is normal.
7. Inspect the motorcycle in accordance with the content of instruction for use in the inspection section before driving.
- 8.Restart the motorcycle in accord with the instruction.

Corrosion prevention

Maintain the motorcycle carefully. Corrosion prevention is very important. In doing this, your motorcycle will look like new even after many years.

Key points to prevent corrosion

Factors that lead to corrosion:

Salt road salt, the accumulation of dirt, moisture and chemicals.

Small stones or gravel damage on the surface of the painting, or by knock against scratches.

Salt road, wind, industrial pollution and high humidity environment will lead to rust.

How to prevent corrosion

Clean the motorcycle at least once a month. Try to keep the motorcycle clean and dry at your best.

Remove dirt on the surface of the motorcycle. Salt road salt, chemicals, asphalt and materials such as SAP, bird droppings, and industrial emissions will damage your motorcycle. Remove the dirt as soon as possible. If it is hard to clean with water, use detergent to clean. When using the cleaning agent, you must comply with cleaner product requirements.

Clean up the damage as soon as possible. A careful examination of the motorcycle on the surface of the paint damage is a must. If you find any burr or scratches, immediately repair it, avoid damage more. If the burr and scratch is throughout the surface of parts, please let the designated company maintenance unit to maintain it.

Put the motorcycle in dry and ventilated place. If you often wash the motorcycle in the garage, and parked inside, the garage will become very wet. High humidity can increase the corrosion. If air does not flow, even in high temperature environment, damp motorcycle will rust.

Cover the motorcycle. Avoid the sun at noon to shine upon the motorcycle, it would lead to paint, plastic color changed or fade. Using high quality and breathable cover can avoid the sun ultraviolet radiation hit on the motorcycle, and reduce air pollution and dirt deposition on the motorcycle. Distribution unit of the company can help you choose your motorcycle cover.

Motorcycle cleaning

Clean the motorcycle

Clean the motorcycle accord with the following:

1. Use cold water to wash away dirt and mud on the surface of the motorcycle. You can use the soft sponge or soft brush to clean. You could scratch appearance parts with hard materials to clean.

2. Use neutral detergent or a car wash soap, thoroughly clean sponge or soft cloth motorcycle. Sponge or soft cloth should be frequent infiltrate cleaning agent.

If you use the motorcycle in salt road surface or the beach, after use, you should wash it in cold water immediately. You must use cold water. Hot water will accelerate corrosion.

Avoid spray cleaning, avoid water flow to the following location:

Ignition lock ,Ignition plug ,Fuel tank lock ,Fuel injection system ,Braking fluid tank

WARNING

Don't use high-pressure water to clean the motorcycle,throttle body and oil injector.

3. After cleaning the surface dirt , use water to rush residual cleaning agents

4. After rinse, wipe the motorcycle with wet soft leather or cloth, and dry in the shade.

5. Carefully check the paint surface. If it has any damage, follow these steps, use repair material to repair the damage surface:

a. Clean and dry the area of damage

b. Stir repair material and use small brush to smear lightly at the site of the injury

c. Thoroughly dry the patch

6. Regularly check the cleanliness of the surface of the small water tank. If there is serious mud accumulation, you need to use cold water and a soft brush to clean the surface. Be careful not to damage the heat sink on the surface.

WARNING

After cleaning motorcycle or rain when you drive, there will be water mist in headlamps. Open the front light, water mist will gradually dissipate. Start the engine to power the headlamps; clear water to avoid the battery discharge.

WARNING

When you cleaning the motorcycle, don't use cleaner containing alkaline and acidic detergent, do not use gasoline, brake fluid, or other solvents which can damage the motorcycle. You can only use soft cloth with neutral detergent with warm water.

Motorcycle waxing

After cleaning, it is recommended that the waxing polishing, which not only it can protect the parts, but also it makes the parts more beautiful.

Use high quality wax and polish

When using wax and polish wax and polish matters, you need to pay attention on the use instruction of the products.

Inspection after cleaning

In order to prolong the service life of the motorcycle, lubricate the motorcycle according to the

DANGER

It is very dangerous to drive a motorcycle when the brake is wet. Wet brake is unable to provide braking force such as dry brake. This can cause an accident. After cleaning the motorcycle, you can test the brake system with low speed. If needed, operate brake for several times to make brake dry.

Inspect the problem after the use of the motorcycle accord with the instruction.

Transportation

Motorcycle fuel must be discharged before transport. Fuel is easy to combust and under certain conditions it can cause explosion. When drain the fuel, storage fuel or injected fuel, it is forbidden to open fire, be sure to stop the engine, to operate in a well-ventilated place. Drain fuel as follows.

(1) Stop engine rotation, and shut down the electrical door lock switch.

(2) With the method of the siphon or other appropriate approach to pull out fuel from the fuel tank and put into the appropriate containers.

WARNING

When shipping the motorcycles, the fuel in the fuel tank must be discharged clean to prevent fuel leakage and explosion .The vehicle should be shipped in a normal riding posture to prevent oil leakage from the outlet of the reducer box during shipping.

The use instruction of storage battery

1 The start of the new storage battery

Storage battery installation

a. Before installing the battery, check the appearance of the battery. The outer casing should be free of scars or cracks, the battery cover should be well sealed, and there should be no leakage, and the terminals should be free of skewing, deformation, etc.

b. After tightening bolts on the bolt, nut, terminal butter or vaseline, to avoid poor contact rust.

2 Use and maintenance

2.1 Each electric start-up time not more than 5 seconds, if you continue trying a few times and it can't start, you should check the oil supply system and starting, ignition system.

2.2 The following conditions will cause the gel battery to be over-discharged or under-charged to shorten the battery life:

a. Frequent electric start.

b. Short riding time and short driving distance.

c. No ignition after long-time startup.

d. Install additional electrical devices, such as high-power spotlights, audio, GPS and other electrical equipment.

2.3 If the starter motor is weak, the light is dim, the horn sounds hoarse, and the ignition appears black screen restarts and other abnormal phenomena, the battery should be recharged immediately.

2.4 When the motorcycle is not in use for a long time, the battery should be removed and stored separately, or the battery cable should be disconnected. Please recharge the gel battery before stopping the motorcycle, and recharge it once a month.

2.5 Charging Precautions:

a. When charging, please use the special charger provided by our company for charging. You can use the motorcycle's own charging port or remove the battery to charge separately.

b. When charging, try to refer to the following charging instructions to avoid high-voltage and high-current charging to extend the battery life.

(1) Constant voltage charging mode

Constant voltage range: 14.40-14.80V

Initial charging current: 1.1-2.2A

Charging time: 6-24 hours

(2) Constant current charging mode:

Maximum charging current: 1.1A

Charging time: 5-8 hours

The value of (charging current) X (charging time) must be controlled within the range of 0.5-0.8 times the battery capacity value.

Note: When the usage is different from the above, the charging current must not exceed the specified charging current range, and the charging time must not exceed 24 hours.

c. Do not overcharge the battery. Overcharging will cause the battery to leak, bulge or even burst, which will cause varying degrees of danger.

3. Attention

3.1 This battery is a maintenance free gel battery. It is strictly forbidden to open or modify the battery without permission. Do not add electrolyte or water without permission. It is strictly prohibited to put it in a place with high temperature and open flame.

3.2 When using and charging gel batteries, it is strictly forbidden to approach an open flame, and avoid short-circuiting of the positive and negative electrodes and loosening of the positive and negative terminals to prevent the battery from exploding.

3.3 During use or charging, the battery has a peculiar smell, severe heat, discoloration, or deformation. Please remove the battery from the car body or the charger and stop it immediately

3.4 The gel battery is standard for motorcycles, please do not use it for other purposes than the start of the motorcycle..

3.5 The installation of external devices such as security devices, GPS, spotlights, etc. will have a certain impact on the battery and the circuit of the motorcycle. Adding qualified brand products must be selected and connected to the reserved interface of our company. Do not change the wiring privately, otherwise it will cause The circuit system of our vehicle may work abnormally and cause the gel battery to be over-discharged.

3.6 Do not drop the battery. The electrolyte contains sulfuric acid. Avoid splashing on the skin, eyes and clothes. Once in contact, please wash with plenty of water and send to hospital for treatment.

Fuel consumption

"Consumption" of powered by fuel motorcycle, refers to the vehicle with the fuel consumption at least one driving speed constant speed.

Each vehicle will be equipped with "vehicle parts list" and it is also available for you to get the electronic version from our official website.

specification table

Length.....	2010mm
Width.....	770mm
Height.....	1350mm
Wheel base	1390mm
Ground clearness	160mm
Seat height.....	770mm
Net weight.....	158kg
Full load weight.....	168kg

Engine

Type	Single cylinder ,Horizontal, four-strokes, wind and oil cooling
Cylinder number	1
Cylinder bore	72mm
Stroke	76mm
Displacement	309ml
Compression ratio	11.8:1
Start-up mode	Electric starting
Lubricating system	Splash lubrication plus pressure lubrication
Power.....	24.5kW

Transmission system

Clutch	Dry, automatic, eccentricity
Transmission	Automatic stepless speed change
Primary gear ratio	0.74-2.347
Final transmission ratio	7.589
Drive form	Belt drive

Main performance index

Fuel consumption	3.2L/100km
Maximum speed	129km/h

Travel system

Steering angle.....	43°
Front wheel specification	110/80-14 Tubeless tires
Rear wheel specification	140/70-14 Tubeless tires
Electric System ignition method	Inductance discharge type
Spark plug type	BN8RTI
Storage battery specification	12 V, 12Ah
Fuse wire specification	10A/15A/25A
Headlight specification	12V,15W/23W
Front position light specification	12V,2.8W
Turn signal light specification.....	12V,1.8W
Tail lights/brake lamp specifications.....	12V,0.4W/1.3W
Rear license plate lamp specifications	12V,0.5W

Volume

Effective Fuel tank volume	12L
Engine oil volume.....	2000mL
Engine oil, replace the oil filter at the same time.....	1750mL
Engine oil, don't change the oil filter	1700mL
Gearbox oil capacity.....	230mL
Regular replacement of gearbox oil.....	200mL

Circuit diagram(TFT)

