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**368 G**  
OWNER'S MANUAL

This User Manual is considered a permanent part of the Motorcycle and should be given to the new owner of the vehicle when the vehicle is resold.

The vehicle information in this User Manual is the latest production information before printing. Guangdong Tayo Motorcycle Technology Co.Ltd. reserves the right to modify the content and design of this manual at any time, and does not assume any responsibility for it.

The content of this User Manual is updated quickly, and the final website shall prevail, and the PDF file of this manual is available for download on the official website.

The vehicles illustrated in this User Manual are for reference only, and everything is based on your actual vehicle.

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# Precautions

Thank you for choosing ZONTES brand motorcycles. We design, test and manufacture this model of motorcycle for you with advanced technology, providing you with interesting, fun and safe driving. Once you are fully familiar with the essentials in this manual, you will find driving a motorcycle an exhilarating sport and a real joy of driving

For your driving safety, please note the following:

- Please be sure to read this User Manual carefully;
- Please refer to the suggestions and operating procedures in this manual;
- Please carefully read this manual and the safety tips pasted on the motorcycle body.

- The illustrations in this manual are based on the 368G in the high-seat version. Please refer to the actual product.

## Vehicle model, engine model

Vehicle	Engine model
368G	ZT1P79MP

# Precautions

## Safety Precautions:

The safety of your and others life is very important. Be sure to obey the traffic rules and drive safely. To help you drive safely, we provide detailed instructions and other relevant information on body stickers and in this manual to protect you or others from potential hazards.

This manual has safety warning symbols **⚠** and the following three warning words: danger, warning, and caution.

The following signal words and logos appear in this note.

The meaning of the three warning words on the book and in your motorcycle is shown below:

### **⚠ DANGER**

- Failure to follow the hazard warning, it will result in serious casualties.

### **⚠ WARNING**

- Failure to follow warnings, it may result in serious casualties.

### **⚠ ATTENTION**

- Failure to follow the cautionary instructions will result in damage to the motorcycle and property.

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## Driver safety

Drivers and passengers must wear appropriate protective gear at all times, including: certified helmets, gloves, long-sleeved shirts/jerseys, trousers/cycling pants, and boots that cover bare feet/cycling boots.

### ⚠ WARNING

- Do not wear any loose clothing that may entangle the vehicle or hang on branches and bushes.

## Helmet and eye protection

A certified helmet can mitigate head and brain injuries, and in the event of an accident, using a helmet can greatly reduce the risk of brain injury. The helmet you choose should meet the standards of your country or region and be the right size. A helmet with face protection is a better choice because it will protect against impacts from the front at the same time, including insects, flying stones, dust, scattered parts, etc., allowing you to make timely judgments about what is happening on the road and drive the motorcycle safely.

Semi-protective helmets do not provide the same protection for the face and jaw, so if you are wearing a semi-protective helmet, you should use a removable face shield and goggles.

## Gloves

Finger gloves are effective in protecting hands from wind, sun, heat, cold and splashes. Well-fitting gloves help you stay on top of your way and reduce hand fatigue. Conversely, if the gloves are too bulky, it will be difficult to operate the vehicle.

In the event of an accident or rollover, a pair of sturdy reinforced motorcycle gloves can better protect your hands.

## Long-sleeved shirts/jerseys

Wear a jacket/long-sleeved shirt and pants or a full cycling suit. High-quality protective gear is more comfortable and prevents adverse environmental factors from distracting you. In the event of an accident, high-quality protective gear made of strong materials can mitigate or even prevent injury.

## Boots

Always wear protective gear that protects your feet and bare feet; When the engine or exhaust gas is running, it will heat up and become very hot, which may cause burns.

## ⚠ DANGER

- For your life safety, please avoid driving motorcycles at high speed in heavy rain, wind, ice and snow.

## Carbon monoxide poisoning

When the engine is running, it produces carbon monoxide, a colorless, odorless, odorless gas that can cause headaches, dizziness, drowsiness, nausea, confusion, and eventually death when inhaled.

In confined or unventilated spaces, the lethal level of carbon monoxide can last for hours or days, leaving your body quickly unable to support yourself and unable to save yourself, if you feel carbon monoxide poisoning, leave the area immediately, get some fresh air and go to the hospital.

## ⚠ WARNING

- Running a motorcycle's engine in a confined or semi-confined space may result in a rapid build-up of toxic carbon monoxide gas.
- Limit the engine of the motorcycle to running in a well-ventilated outdoor area.

## Load

Accessories with extra weight, or accessories that easily block wind such as wind deflectors, backrests, saddles, cushions, suitcases, etc., should be installed as low as possible, close to the body and close to the center of gravity. Poor installation will shift the center of gravity and bring danger, the key point of installing accessories is: pay attention to left and right balance and firm stability. Poorly installed fittings or poorly designed accessories can cause maneuvering difficulties and endanger driving safety.

When loading, the cargo should be fixed in a low position as much as possible, as close to the motorcycle as possible. If the goods are not fixed correctly, the center of gravity will be raised, which will make the motorcycle difficult to control and seriously affect the driving safety. The size of the cargo affects the air resistance and affects the handling of the motorcycle. Please balance the items on the left and right sides of the motorcycle and secure the cargo.

The total weight of the driver, occupants, accessories and cargo must not exceed the limit of the maximum load.

### MAX load:

180 kg

### ⚠ WARNING

- It is recommended not to install a tail box for the high seat version, and if you need to load the tail box, the weight should not exceed 10kg, and the speed should not exceed 110km/h.

### Genuine Zontes accessories

Choosing accessories for your vehicle is an important decision, and genuine parts are only available on our website and dealers, which are designed, tested, and approved for use on our vehicles.

Companies that are not affiliated with Zontes are also manufacturing parts and accessories for use in zontes vehicles or providing other modifications. Zontes is not responsible for testing these products that are not manufactured and manufactured by Zontes company, and Zontes does not endorse and do not recommend the use of accessories that are not sold by Zontes, even if they are sold and installed by Zontes's dealers.

## Driving

After starting the car, if you need to let the vehicle move, you need to put on the first gear and slowly release the brake handle so that the vehicle can drive smoothly; When the speed increases so that the vehicle can maintain balance, put your feet on the pedals.

### ⚠ WARNING

- It is forbidden to wear any loose clothing that may entangle the vehicle or hang from branches and bushes.
- Do not let the engine speed be too high when going uphill, otherwise, it is easy to damage the internal parts of the engine.
- Do not turn off the ignition and slide when going downhill, so as not to reduce the life of the catalyst in the muffler.

## Riding skill

If you are driving this type of vehicle for the first time, we recommend that you practice on non-public roads until you are familiar with the control and handling methods of the motorcycle. Driving with one hand is dangerous, so keep your hands firmly on the steering handlebars and keep your feet on the resting pedals. Under no circumstances should you take your hands off the handlebar.

The road surface is wet and smooth, the tires have little friction, and the braking ability and cornering ability are naturally reduced, so it is necessary to slow down in advance. Crosswinds are usually most likely to occur at tunnel exits, in valleys or when large vehicles are overtaking from behind, so you have to be careful to slow down.

Follow traffic rules and speed limits.

### ⚠ WARNING

- Because the chassis of the low-seat version is low, do not bend to the extreme, which will make the vehicle easy to rub against the ground.

### ⚠ DANGER

- This motorcycle is equipped with an interlock switch for the ignition circuit and the starting circuit. The engine can only be started with the side bracket retracted and the brake lever tightened.
- When the motorcycle rolls over, the dump switch will cut off the power supply, stop the fuel supply and ignition, and turn off the motorcycle, and the fault indicator will light up. To restart the motorcycle, turn off the ignition switch, wait for 1 minute, turn the ignition switch back on, and start the engine.

## Engine start

Engine start: When the vehicle is unlocked and powered on, check if the ignition switch is in the  position.

## When the engine is in a cold state

1. Collapse the side parking racks.
2. The throttle control handlebar is in the idle position.
3. Pinch the brake lever first, and then press the electric start button  to start.

## When the engine is difficult to start in the cold state

1. Collapse the side parking racks.
2. Pinch the brake lever and turn the accelerator open  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 multiple starts, the cylinder may have been flooded, and the cylinder cleaning procedure is executed: open the throttle fully and press the start button for 3 seconds.

## DANGER

- The colder the weather, the longer the engine needs to warm up. The engine is fully warmed up and then driven, which can reduce the wear and tear of the engine.

## When the engine is in a hot engine state

1. Collapse the side parking racks.
2. The throttle control handlebar is in the idle position.
3. Pinch the brake lever first, and then press the electric start button to start.

## When the engine is difficult to start in a hot engine state

1. Collapse the side parking racks.
2. Pinch the brake lever and turn the accelerator open  opening, and then press the electric start button to start.
3. When the engine is still difficult to start after multiple starts, the cylinder may have been flooded, and the cylinder cleaning procedure is executed: open the throttle fully and press the start button for 3 seconds.

## ! ATTENTION

- Engine start: When the vehicle is unlocked, the whole vehicle is energized, check whether the kill switch is in  position at this time.
- The colder the weather, the longer the engine needs to warm up. The engine is fully warmed up and then driven, which can reduce the wear and tear of the engine.

## ⚠️ WARNING

- Make it a habit to put away the side parking rack when starting, return the throttle to the end, and hold the left brake lever tightly before starting to avoid rushing forward and out when starting in case of a mistake. Only by stowed away the side parking rack and holding the rear brake lever handle tightly can the vehicle be started.
- It is strictly forbidden to start the motorcycle when there is a lack of fuel or oil!

### Braking and parking

- 1.Turn the throttle control handle forward so that the throttle is fully returned.
- 2.Use both the front brake handle and the rear brake handle to brake.
- 3.If the motorcycle is to use the side parking rack to stop on a gentle slope road, try to make the front side of the motorcycle uphill to avoid overturning due to the rotation of the side parking rack.
- 4.Turn the ignition switch on the right handlebar to the ignition gear and the engine will stop working.
- 5.Turn the steering handle to the far left, press the " ⚙ " button for 2-3 seconds, the vehicle will automatically lock the steering handle, and the vehicle will be powered off.
- 6.Swing the direction and make sure the steering knob is locked.

## ⚠️ DANGER

- If the speed is too high, the braking distance will be increased accordingly. Make sure that the vehicle or object in front of you is close enough to you to brake the motorcycle, otherwise it will cause a rear-end collision.
- It is dangerous to use only the front or rear brakes, this braking method can cause slippage and loss of control. On slippery roads and where you are turning, use the braking system carefully and gently. Emergency braking on uneven or slippery surfaces can cause the motorcycle to lose control.
- Emergency braking when cornering will cause the vehicle to lose control, so brake before turning and reduce the speed of the vehicle.
- The temperature of the muffler is very high when the engine is working and just after it is stopped, so do not touch it to prevent burns.
- Braking only with the rear brake will cause the braking system to wear out at an accelerated rate while braking distances are getting longer and longer.
- The surface temperature of the muffler and its decorative cover is high after riding, so please do not touch or rely on it to avoid burns or even fire.

## ABS

This model is equipped with an anti-lock braking system (ABS) front wheels and rear wheels can prevent the wheels from locking up for a long time during emergency braking.

## ⚠ ATTENTION

- ABS does not reduce braking distance. In some cases, ABS may result in longer braking distances.
- ABS does not work when the speed is less than 10km/h. When braking, the brake handle will have a springy feel, which is normal.
- Be sure to use the recommended front/rear tires to ensure proper operation of the ABS.
- When you lift the rear wheel off the ground and turn the rear wheel, the ABS indicator may illuminate and the ABS system turns off. Every time you lift the rear wheels off the ground and turn the rear wheels, be sure to restart the power of the whole vehicle to allow the ABS to return to its normal state.

## ⚠ ATTENTION

• If any of the following conditions appear in the indicator light, there is a serious problem with your ABS system. At this time, please slow down and go to the special dealer of ZONTES as soon as possible to check.

1. The indicator light is solid or flashing while riding.
2. When the speed is higher than 5km/h, the indicator light will not go out.
3. The ABS indicator light is on, and the brake is working as usual, but it does not have anti-lock function.

## TCS

1.The TCS (Traction Control System) of this vehicle defaults to an open state, meaning that after each engine shutdown and restart, the TCS automatically returns to the open state.

2.The TCS function is displayed on the meter with a "T" icon. When the "T" light is on, it means that the TCS function is off; When the "T" light goes out, it means that the TCS function is on.

## Turn on or off TCS

Turn off:

- (1) The vehicle is in the state of turning on and ignition.
- (2) Press and hold the TCS button.
- (3) If the "(T)" light is on, the TCS function is turned off.

Turn on:

- (1) The vehicle is in a position of being on.
- (2) Press and hold the "TCS" button on the right hand handlebar switch.
- (3) If the "(T)" light is off, it means that the TCS function is on.

## ! ATTENTION

- When you need to drive intensely, please turn off the TCS function in advance, otherwise it will affect the driving experience.

1. When the main bracket refuelling door is supported, the vehicle is stuck in the mud, sand or other soft road surface, when the rear wheel rotates at a speed of more than 5km/h and the time exceeds 3 seconds, the TCS will be automatically turned off. At this time, the TCS switch is no longer working, and the TCS must be turned off and then turned on to return to the on state.

2. When ABS intervenes during riding, the TCS function will automatically turn off, and then the "(T)" light will turn on; After the ABS exits, the TCS function will automatically turn on again, and then the "(T)" light will go out.

3. When the ABS function is abnormal, TCS will automatically turn off, and then the "(T)" light will turn on. After the ABS function returns to normal, turn off and turn on again, the TCS function will be restored, and then the "(T)" light will go out.

4. Turn on the vehicle and turn on the kill switch, TCS will perform a self-test, and the "(T)" light will be on for 1 second and then off.

## **Motorcycle run-in**

The right run-in of a new motorcycle can extend the life of your motorcycle and get the most out of your new motorcycle. The correct way to run in is listed below.

## **Engine run-in**

The table below recommends the maximum engine speed during the break-in period:

### **First 1000 km:**

Lower than 4700 rpm

### **Between 1000-1600 km:**

Lower than 5500 rpm

### **Over 1600 km:**

Lower than 8800 rpm

## **Engine RPM**

In order to protect the engine parts, the engine speed limit is 8800rpm, when the engine speed reaches the limit speed, the speed will be automatically adjusted near the limit speed, and the speed will fluctuate, which is a normal phenomenon.

## **Tire run-in**

Like the break-in of the engine, new tires need to be properly run-in to guarantee better performance. During the first 150 kilometers of using new tires, gradually increase the angle of inclination of the corners to break in the ground surface of the tires for better performance. Avoid hard acceleration, sharp turns and hard braking during the first 150 kilometers with new tires.

### **! DANGER**

- If the tire is not properly run-in, it will cause the tire to slip and lose control. After changing your tires, drive with extra care. Follow this section to properly run in the tires and avoid hard acceleration, sharp turns and emergency braking for the first 150 kilometers of the tires.

## **Avoid long term full throttle riding**

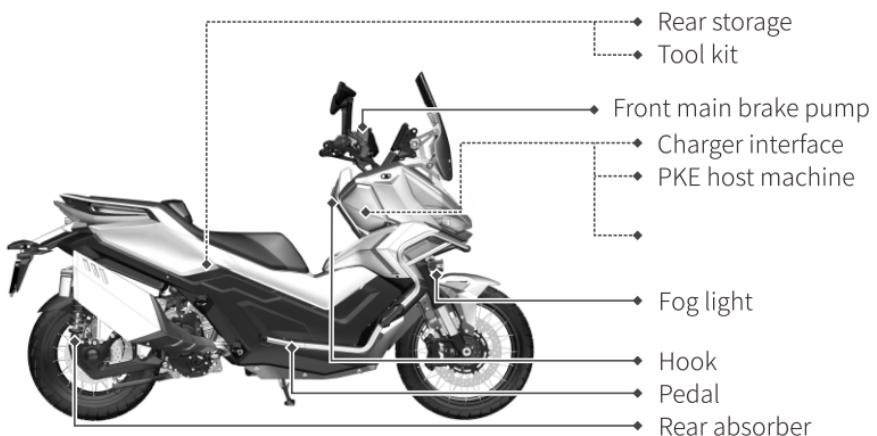
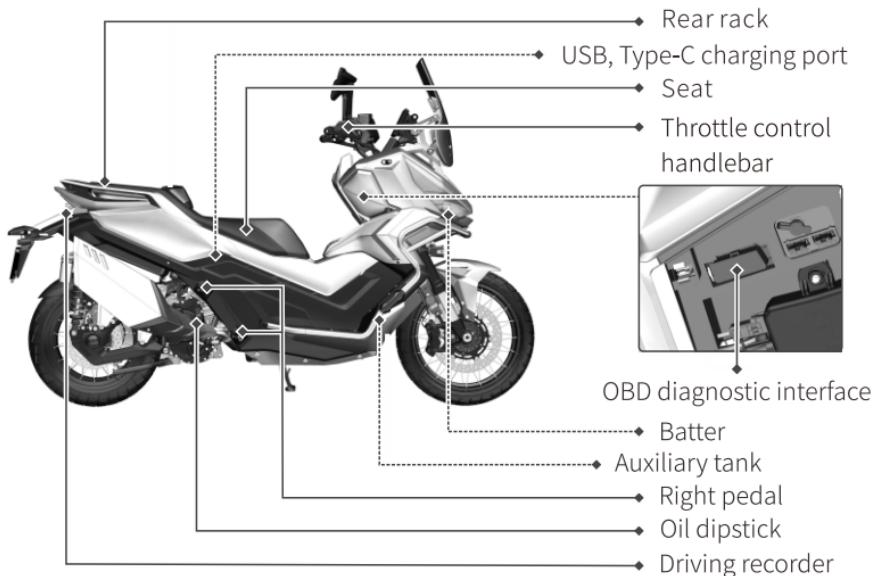
Avoid running full throttle for long periods of time, and don't overload the engine for the first 1,600 km as the engine is brand new. During break-in, the parts within the engine grind and polish themselves to achieve the correct running clearance. During this time, it is important to avoid running full throttle for long periods of time, or any conditions that cause the engine to overheat.

## **Circulate engine oil before riding**

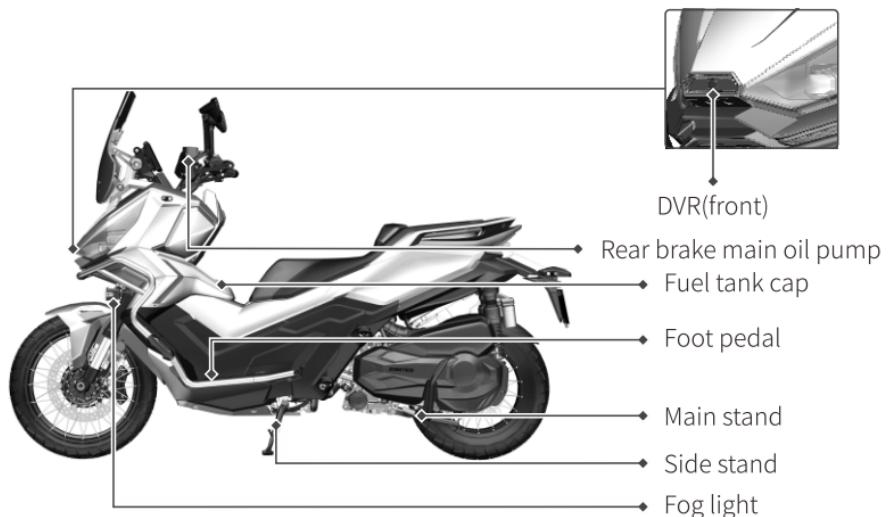
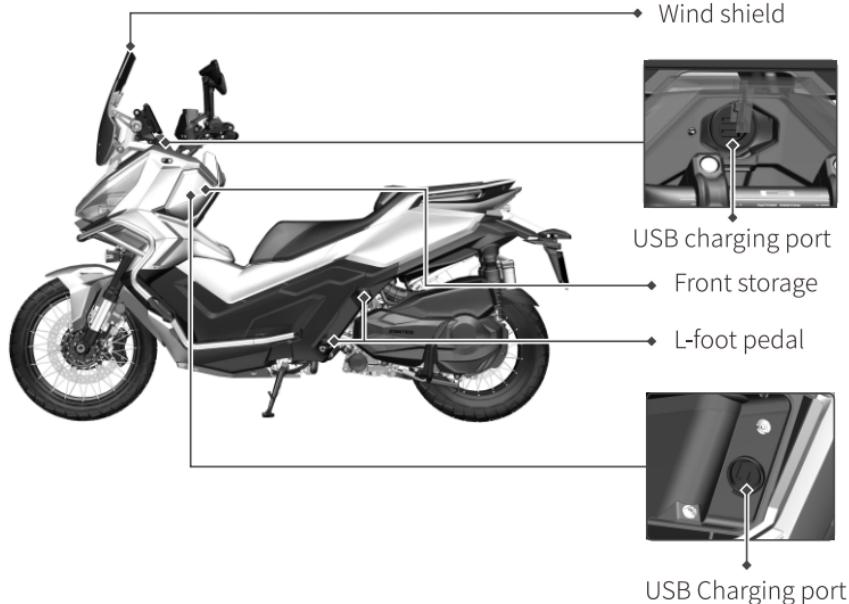
Whether in a hot or cold state, the engine should be allowed sufficient idle time before starting, to allow the oil to flow to all lubricated parts.

# Component Installation Location

## Component Installation Location



# Component Installation Location



# Left and Right Handlebar Control Systems

## Left and right handlebar switches

### ① TCS switches

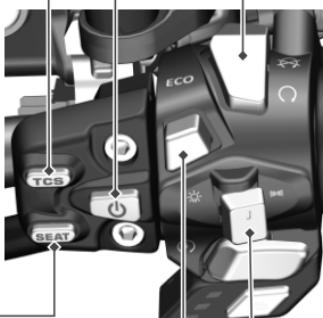
Used to enable and disable the TCS function, the default TCS function is on; When you press and hold the TCS switch, turn off the TCS function, and press and hold the switch again to turn on the TCS function

### SEAT switch

Press briefly to open the seat lock.

### ECO button

Press the ECO button, the meter E indicator lights up, open the economic mode; Press the ECO button again, the Meter S indicator lights up, and the sports mode is turned



### ④ Power on button

Short press: The vehicle is powered on.  
Long press: The vehicle is powered off.

### Flame-out ignition switch

Q This switch is a kind of rocker switch, when dialed in the "Q" position, the circuit is turned on, and the motor can start. If the switch is toggled in the "X" position, the starting circuit is completely cut off, and the motor cannot be started (this method can be turned off urgently).

### Light switch

Position: When the engine is working, the left and right handle switches are lit together: backlight, headlamp, front lamp, rear lamp, and license plate light.  
Position: The front position light, the rear position light, and the license plate light are lit together.

## Left and right handlebar switches



### Electric start button

Press this button to turn on the starting circuit, you must retract the side stop bracket when starting, confirm that the engine stop switch is in position, and hold the brake lever tightly before starting.

### ATTENTION

- Start the engine continuously, and the starting time should not exceed 5s each time, because a large amount of discharge will make the circuit and the starting motor abnormally heated; When it still can't be started after several test openings, you should stop to check the oil supply system and starting circuit system.

### Electric hot handlebar button

Press to turn on the electric heating handlebar function. (Details)

This function is only available for models with heated handle.



### Horn button

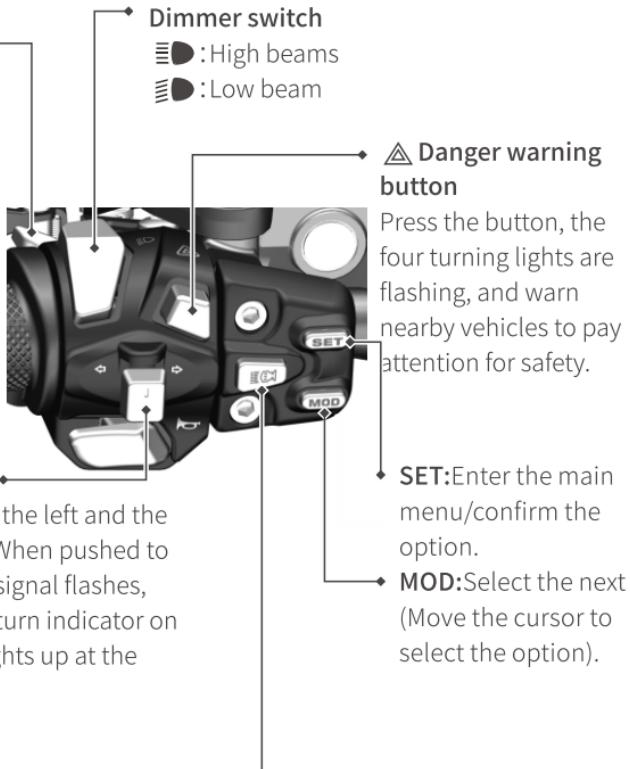
Press the button and the horn sounds.

# Left and Right Handlebar Control Systems

## Left and right handlebar switches

### Overtaking warning lights

When accelerating to overtake, press this button to warn the vehicle ahead.



### Turn signal operation

The switch is pushed to the left and the left turn signal flashes. When pushed to the right, the right turn signal flashes, and the corresponding turn indicator on the instrument panel lights up at the same time.

### Fog light switch

Short press to turn on fog lights, then short press to turn off fog lights. Do not turn on the fog lights for a long time while idling, as it may cause voltage alarms.

# Left and Right Handlebar Control Systems

## Electrically heated handlebars \*

When the main switch of the vehicle is turned on, and the voltage is less than  $13.1V \pm 0.1V$ , the built-in protection circuit of the heating controller works, the red indicator light flashes, and there is no heating output.

When the main switch of the vehicle is turned on, and the voltage is greater than  $13.1V \pm 0.1V$ , the indicator light is completely off. At this time, press the heating button, output 5 levels of heating adjustment, and the corresponding indicator light appears 5 levels of display; When the input voltage is lower than  $13.1V \pm 0.1V$ , the controller switch can be automatically cut off, and the red indicator flashes.

When the input voltage is unstable, all indicators flash. When the voltage is restored, the controller switch will automatically return to the unstable state.1

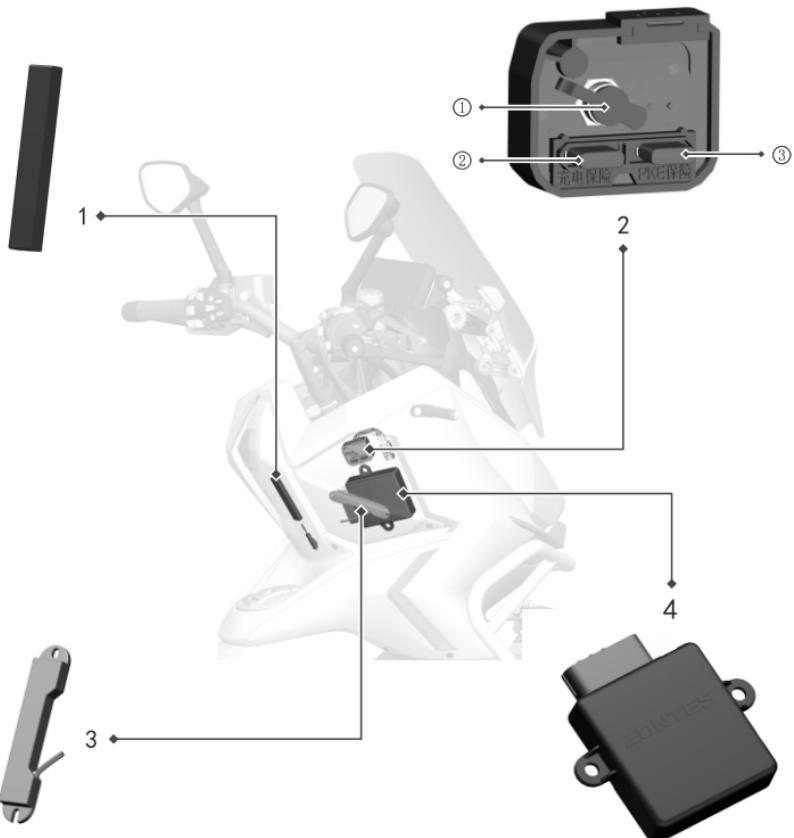
When the electric heating handle is turned on, please do not idle for a long time. Voltage alarm may occur or the handle is heated but not working.

Instructions	Description of the operation	Icon
Key-to-key operation	Short press is effective, cycle control. Short press the button to output in turn: fifth gear→ fourth gear→ third gear→ second gear→ first gear→ off.	
Battery voltage protection	When the battery voltage is less than $13.1V \pm 0.1V$ , the red indicator flashes.	
Fifth gear	Press the— button, the controller outputs the fifth gear, LED1, LED2, LED3 (red, red, red) is fully lit and outputs 100% voltage.	
Fourth gear	Press the button twice, the controller outputs the fourth gear, LED1, LED2 is fully bright, LED3 is half bright, and the output voltage is 80%.	
Third gear	Press the button three times, the controller outputs the third gear, LED1, LED2 is fully bright, LED3 is off, and the output voltage is 60%.	
Second gear	Press the button four times, the controller outputs the second gear, and the LED1 is fully lit. LED2 is half-bright, LED3 is off, and the output voltage is 40%.	
First gear	Press the button five times, the controller outputs the first gear, and the LED1 is fully lit. LED2, LED3 is off, and the output voltage is 20%.	
Turn off	Press the button six times to turn the controller off.	

\* This function is only available for models with heated handle.

# Passive Keyless Entry System

## Passive Keyless Entry System



3D antenna sensing area



5

## PKE (Keyless Entry System) Instructions for Use:

- Low-frequency transmitting antenna (Figure 1)
- Charging port holder (Fig. 2)
- Non-electric inductive antenna (Figure 3)
- 3rd generation PKE host (Figure 4)
- Proximity key (Fig. 5)

## Explanation of PKE Accessories (Figure 2)

- ① DC Interface for Battery Charging
- ② Charging Fuse
- ③ PKE Fuse

## Use of inductive keys

The motorcycle is equipped with two induction keys, one of which should be kept in a safe place for backup.

The two proximity keys are affixed with barcode stickers, which correspond to the number of the barcode stickers on the PKE host. The PKE main unit automatically recognizes a key that is close to the vehicle and does not need to be activated. At any one time, there is at most one induction key in operation.

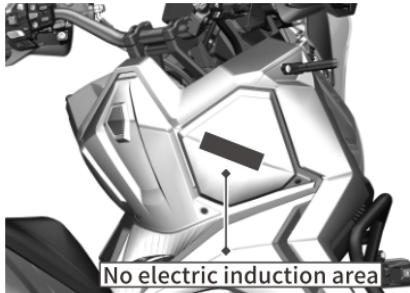
### ATTENTION

- There are two LEDs on the induction key, green and red, and the LED will flash when the vehicle detects the key. The LED flashes green when the battery of the sensor key is fully charged, and red when the battery is low (the red and green key lights will flash once at the same time when the key battery is just installed). Subject to the capacity limit of the key battery, the service life of the CR2032 button battery is about 18 months.
- It depends on the usage of each person). If your proximity key is not sensitive or the proximity key indicator flashes red, consider replacing the key battery.

## The Use of Fuel Tank Locks and Cushion Locks

- (1) In the shutdown state, press the corresponding button when the key is detected.
- (2) When the vehicle is turned on and the ignition is stationary, press the cushion lock button to open the cushion lock.

## Non-Electric Induction Start Mode



When the inductive key battery is low or there is no key battery, it can be powered on through the non-electric induction mode. The specific steps are as follows:

When the vehicle is turned off and the faucet lock is in the locked state, long press the "P" button on the right-hand handle and hear the first "beep" sound.

Within 5 seconds, place the key sensing area (Fig. 5) against the non-electric sensing area.

# Passive Keyless Entry System

## ATTENTION

- You can also first place the key sensing area (Fig. 5) close to the non-electric sensing area, and then perform the above steps.
- The key will no longer be detected after the non-electric induction is turned on, and please pay attention to the shutdown when leaving the vehicle.

### PKE Power-On

Short press the "P" button, the turn signal flashes twice, the handlebar lock automatically unlocks, and then you will hear two beeps as the circuit is turned on.

## ATTENTION

- If the faucet lock is not unlocked successfully, it may be that the handle pins the faucet lock lock shaft, gently turn the handlebar to let the locking shaft move freely, or the battery power is too low to unlock, please check whether the battery level is normal. When the faucet lock unlocks the lock, there is 30 seconds to allow to open the fuel tank lock and cushion lock, at this time, the short press "P" button does not work, long press the "P" button or automatically exit this mode after more than 30 seconds.

## DANGER

- When using non-electric induction or Bluetooth mode should be forced to turn on, be sure to turn the direction handle to the far left and confirm that the faucet lock cylinder has been retracted before using the vehicle.

## ATTENTION

- If, after checking the battery level is normal, you short press the "P" button and the vehicle cannot be powered on but the main unit beeps once, please check the key battery level and try using the non-electric induction start mode (see the description of the non-electric induction start mode for specific operations). If the battery level is normal and the main unit does not beep, please check whether the main fuse, charging fuse, and PKE fuse (Figure 4) of the vehicle are normal. Be sure to replace any fuses with ones of the same specification.
- When the battery is empty, please complete the charging and unplug the charger before trying to power on.

## PKE Shutdown

After the vehicle is stopped and the engine is turned off, place the handlebar to the far left, press and hold the "P" button (hold for  $\geq 2$  seconds and then release). The turn signal will flash twice, the handlebar lock will automatically engage, and the buzzer will beep once, indicating the vehicle is powered off.

## ATTENTION

- After shutting down, please check the handlebar lock status. If the handlebar is not locked, place the handlebar to the far left and the vehicle will automatically lock. If the handlebar is not placed to the far left before shutting down, do not push or let the vehicle slide, as this could cause the handlebar to lock and lead to danger. When pushing the vehicle or sliding downhill, ensure the PKE is turned on (handlebar lock is unlocked).

## ATTENTION

- It is recommended to replace the key battery once a year.
- Vehicle should try not to be equipped with electronic devices that affect key signals, such as GPS, driving recorders, wireless chargers, etc.
- Keep the key away from interference sources such as mobile phones, power banks, and Bluetooth headphone charging cases; Try not to keep it with meal cards, NFC cards, car keys, metal pendants, etc. Do not wear protective cases made of metal, conductive or magnetic materials.
- If there is a strong interference source near the vehicle affecting the key signal, the vehicle can be unlocked by emergency start method, mobile phone remote and Bluetooth control.

# Passive Keyless Entry System

## PKE Fault Prompt

When an abnormal condition is detected in the vehicle, the vehicle will alert the owner with a buzzer sound of varying lengths and a fault code, which means as follows:

Item	Alert Sound	Fault Code	Alarm Description
START button stuck	One long, two short	8002	If a button is detected as stuck after each startup, an alarm will sound once after 10 seconds.
Seat lock button stuck	Two long	8005	If a button is stuck during startup, an alarm will sound once and perform an action after 10 seconds: If it becomes stuck after startup, the alarm will sound once and perform an action within 10 seconds.
Abnormal high-frequency reception	Two long, one short	8006	If an abnormal high-frequency reception of the PKE main unit is detected during each normal startup, an alarm will sound once (only once, non-electric induction startup and APP startup do not check this item).
No paired remote	Two long, three short	8008	If no paired remote control is detected when pressing the red startup button each time, an alarm will sound once.
Low battery in remote	Three long	8009	If an abnormal signal from the transponder battery is detected during each normal startup, an alarm will sound once (only once, non-electric induction startup and APP startup do not check this item).
Handlebar lock open abnormal	Five short	8010	If an abnormal unlock signal is detected during each startup, an alarm will sound once (only once).
Handlebar lock close abnormal	Five short	8011	If an abnormal lock signal is detected during each startup, an alarm will sound once (only once).

# Passive Keyless Entry System

Item	Alert Sound	Fault Code	Alarm Description
Abnormal low-frequency transmitting antenna	Three long and one short	8012	Each time an abnormal low-frequency transmitting antenna is detected during normal startup, an alarm will be triggered once (only once, not detected during power-off induction startup and APP startup).
Remote control out of detection area	Eight short	8014	After a normal startup, if the PKE main unit cannot receive the transponder response signal while operating, it will alarm and shut down (non-electric induction startup and APP startup do not check this item).

# Instrument Panel

## Instrument mode selection

The instrument has four modes: city, wilderness, competition, and leisure, and can be switched according to environmental usage scenarios and personal preferences. The factory default is wilderness mode, as shown in the figure, only the wilderness interface is used for a brief description of the instrument.

As the instrument function is updated, the content may change, please refer to your actual motorcycle .



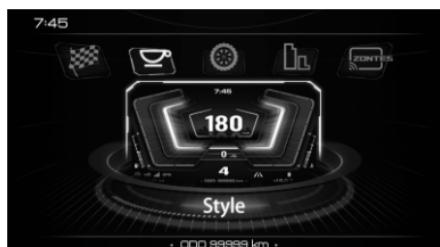
Adventure



City



Sport



Style

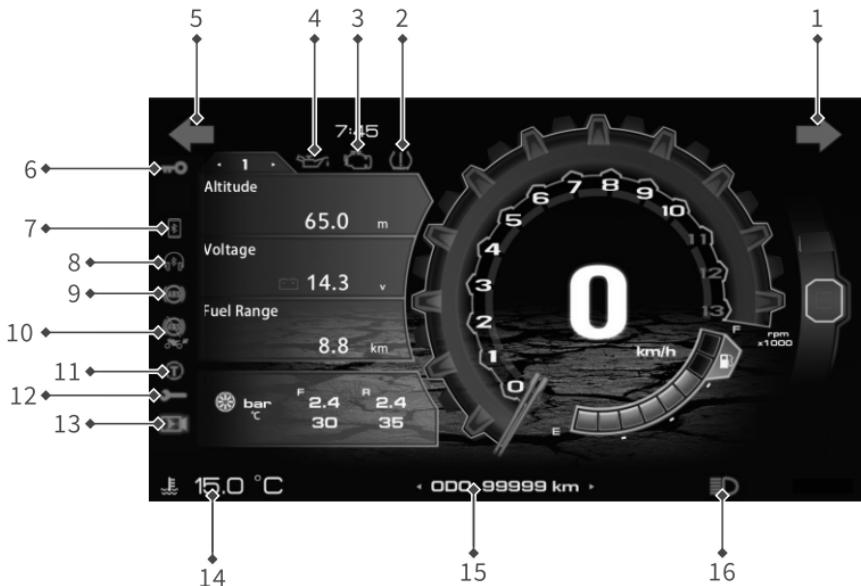


Connection

## ⚠ WARNING

- When the engine is turned off, do not operate the instrument function for a long time. This can cause the battery to run too low or run out.
- Basic operation: You can use the switch on the left handlebar to operate and set various functions of the instrument.

## Indicator and alarm lights



1. Right Turn Signal Indicator "➡"
2. Tire Pressure Warning Light "(!)"
3. Engine EFI Fault Warning Light "(!)"
4. Oil Pressure alarm light "(!)"
5. Left Turn Signal Indicator "⬅"
6. Key Number "🔑"
7. Mobile Bluetooth "📱"
8. Headset Bluetooth "Bluetooth"
9. ABS System Warning Light "ABS"
10. Rear Wheel ABS Off Indicator "ABS"
11. TCS Warning Light "(!)"
12. Maintenance Reminder Light "🔑"
13. Dashcam Indicator Light "VIDEORECORDER"
14. Water Temperature Warning Light "TEMP"
15. Odometer "ODO:999999"
16. High Beam Indicator "HIGH BEAM"

## Direction Indicator Light



When the turn signal switch is activated, this indicator light starts flashing.

## Tire Pressure Warning Light "(!)"

When there is an abnormal tire pressure or temperature, the light will flash as a warning, indicating that maintenance is required.

## Engine EFI Fault Warning Light



After the engine is started successfully, the EFI fault indicator lamp is off during normal operation. If the EFI fault indicator lamp is on at this time, it indicates that the EFI system is faulty.

## ⚠ ATTENTION

Continuing to ride the motorcycle when the EFI system indicates a fault may cause damage to the motorcycle. Please have the EFI system inspected by a ZONTES flagship store or authorized dealer.

### Oil Pressure alarm light “”

After the motorcycle is turned on, the oil pressure warning light will turn on, and after the engine is started, it will turn off. Only after the oil pressure warning light goes out can the motorcycle continue to ride.

The alarm light stays on after the engine starts, indicating insufficient engine oil pressure. Please turn off the engine immediately, otherwise it may cause engine damage. When the oil pressure is insufficient, check the oil level according to the standard and replenish an appropriate amount of oil. If the oil level is at a normal level and the warning light is still on, please turn off the engine and contact the Shengshi flagship store or dealer for assistance.

## ⚠ WARNING

- When you accelerate quickly, make sharp turns, or go up or down long slopes, the oil warning light will appear. Please pay attention to the oil level and make sure you can ride normally when the oil level is normal.

## ⚠ WARNING

- If the engine oil is insufficient, continuing to ride will seriously damage the engine. Please add the appropriate amount of engine oil in time!

### Mobile Bluetooth “”

Lights up when connected to your phone's Bluetooth.

### Headset Bluetooth “”

It lights up when the headphones are connected to Bluetooth.

### ABS Warning Light “”

When the vehicle is powered back on, the ABS indicator light is on and would turn off when the vehicle reaches a speed of about 5km/h. If the lights are always on while driving: (please see pages 1-7 for details).

### Turn off the rear wheel ABS indicator “”

When the driving control-ABS function is set to "turn on the front wheels and turn off the rear wheels ABS", the indicator light comes on; restarting the vehicle will turn on the front and rear wheel ABS by default.

## ⚠️ WARNING

- If the ABS warning light does not go off after the speed reaches 5km/h, or if the warning light is on when driving, please pay special attention to avoid wheel locking during emergency braking.

## ⚠️ ATTENTION

- If the warning light does not work as described above, or the warning light is on when riding, the ABS may fail, please send it to the Zontes flagship store or dealer for repair.

### TCS system indicator “”

Lights up when the ignition turns to the “” position. It goes off at speeds of about 5 km/h (3 mph).

## ⚠️ WARNING

- If the TCS warning light does not go off after reaching 5km/h, or if the warning light is on while driving, take special care to avoid side slip of the rear wheels.

## ⚠️ ATTENTION

- If the warning light does not work as described above, or if the warning light is on when driving, the TCS may fail. Please send it to the Zontes flagship store or dealer for repair.

# Instrument Panel

## Oil level warning light “”

Refer to the Scheduled Maintenance Schedule - Engine Oil.

### ⚠ WARNING

- When the maintenance reminder light is on, it means that the motorcycle has traveled a certain mileage and needs to replace the engine oil to maintain the engine. Continuing to drive the motorcycle without maintenance will damage the engine and transmission system.
- When the maintenance indicator lights up, turn off the engine and check the engine oil level to determine whether the oil level is correct and whether the engine oil needs to be replaced.

## Dash Cam Indicator “”

Please see the subsequent DVR instructions.

### ⚠ ATTENTION

- After the motorcycle is turned on, it takes a certain amount of time to search for satellite signals for positioning, and the GPS is displayed in red at this time.

## Water Temperature Warning Light



After turning on, the water temperature is displayed in real-time, and the water temperature indicator starts to alarm when the temperature reaches between 117 ° -122 °. The cooling system needs to be checked.

## Coolant temperature

Coolant temperature

Approximate display range:

60°C to 120°C;

“---” is displayed below 60°C.

Between 110 °C and 120 °C: The coolant temperature indicator is on and the coolant temperature value is flashing.

The coolant high temperature indicator lights up and “120°C” flashes.

## ODO Meter

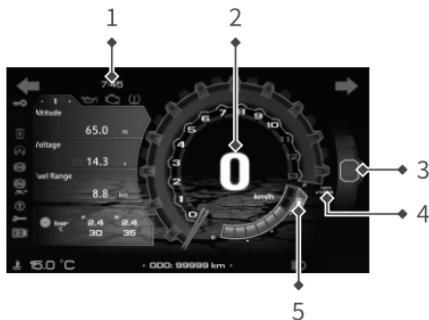
“ 999999 km”

Total mileage.

## High Beam Indicator “”

The high beam indicator comes on when the high beam of the headlights is used.

## Instrument Display



1. Clock
2. speed
3. E/S MODE “**E/S**”
4. Tachometer
5. Fuel gauge “**■**”

### Clock (24-hour system)

### Speed

### E/S Mode “**E/S**”

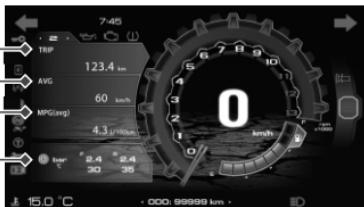
“**E**” indicates the economic mode,  
“**S**” indicates the sport mode.

### Tachometer

### Fuel gauge “**■**”

The remaining Fuel level when the first bar starts flashing at the beginning: about 1.5L, and the low fuel level indicator lights up at the same time.

# Instrument Panel



1. Altitude
2. Voltage
3. Cruising range
4. Tire pressure display

## Altitude

(Displayed only in Wilderness Mode):  
Display range -999m to 9999m, beyond which the boundary value is displayed.  
After replacing the instrument or re-energizing the vehicle, the altitude value needs to be corrected slowly during driving. Depending on the strength of the GPS signal, the correction time will vary. It is normal for the altitude value to jump during the correction process.

## Voltage

Detect voltage < when the engine is not started 12.5V Display Symbol Flashing Alarm (Flashing Frequency 1Hz,  $\geq 12.5V$  automatic alarm).  
Detect voltage < when the engine is started 13V Display Symbol Flashing Alarm (Flashing Frequency 1Hz,  $\geq 13V$  automatic alarm).

If you find that the voltage is greater than 15V, you must stop using the vehicle immediately, and please hand it over to the flagship store or dealer to inspect the motorcycle.

## Cruising range

Indicates the mileage that can be driven on the remaining fuel.  
Calculations are made based on average fuel consumption and fuel volume.

## Tire pressure display

Tire pressure and temperature display bar.



1. Subtotal mileage
2. Average speed
3. Average fuel consumption

## Subtotal mileage

## Average speed

Displays the average speed after the average speed is reset. Display range: 0-199km/h; Initial display: displays "---"; When the subtotal mileage is less than 0.2km: displays "---"; On the main interface, long press the "MOD" return key to reset the average speed.

## Average fuel consumption

Displays the average fuel consumption after the subtotal mileage reset. Average fuel consumption will be calculated based on the values on the subtotal odometer. Display Range:

0.0-9.9L/100km, when the average fuel consumption is reset: show "---"; When you reset the subtotal odometer, the average fuel consumption is reset. On the main interface, long press the "MOD" return button to reset the average fuel consumption.

# Instrument Panel

## Menu structure

Main interface	Level 1 menu	Level 2 menu	Level 3 menu	Level 4 menu
Instrument	Instrument	Clock setting	In-line calibration	
			Set manually	
		Bluetooth settings	Turn off Bluetooth	Turn on Bluetooth
			Mobile phone connection	
			Headset connection	
			Delete connection	
		Unit settings	The Metric System	
			Imperial Units	
		Language settings	Chinese	
			English	
		Backlight settings	1.....5 gears	
			Automatic	
Format switching	Format switching	Athletics		
		Leisure		
		Wilderness		
		City		
		Screen casting		
Vehicle Information	Vehicle Information	Vehicle information	Reset	Yes
		Maintenance information		
				No

## Menu structure

Main interface	Level 1 menu	Level 2 menu	Level 3 menu	Level 4 menu
		Tire pressure setting	Tire pressure monitoring : [Turn on] Unit:[kPa]	Tire pressure monitoring : [Turn off] Unit:[psi] Unit:[bar]
			Front-wheel learning Rear wheel learning	
DVR	Recording settings		Start recording Only turn off the recording Turn off recording (delete all recordings and photos)	
	DVR display		Foresight Back-sight	
	DVR playback		Foresight playback Back-sight playback Take a photo	
Ride control	ABS		Turn on the front and rear wheel ABS Turn on the front wheels Turn off the rear wheel ABS	

# Instrument Panel

## Clock Settings

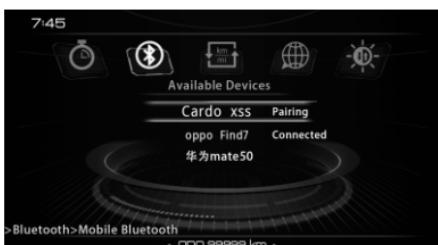
Online calibration: Automatically synchronize the time of GPS every time you turn on, and manually set the year, month, day, hour and minute operation according to the local time: Enter the manual setting, set it in the order of "year", "month", "day", "hour" and "minute", when the value flashes, use "SET" or "MOD" until the value you need is displayed, short press the "SET" button to confirm and switch.



## Bluetooth settings

Pairing: Before two Bluetooth devices can establish a connection to each other, they must recognize each other. This process of mutual recognition is called pairing. Once the device is recognized, it will be stored and therefore must only be paired on first contact.

Pairing Prerequisites:  
The device's Bluetooth function must be turned on; the device must be discoverable by other devices.



## Unit settings

Switch between metric or imperial unit formats to facilitate your reading habits.



## Language settings

Change the system language.



## Backlight settings

You can choose one of the 5 backlight brightness levels or choose Auto-Adjust (That means it automatically adjusts the brightness based on the photoelectric sensors).



## Vehicle Information

Display ECU, PKE, LCM, ABS, DVR and tire pressure current faults and remaining service mileage, version number and other information.



## GPS indicator “GPS”

Green indicates that the positioning signal is good and the vehicle can be positioned normally.

Yellow indicates that the positioning signal is strong and average, and the positioning may be biased.

Red indicates that the positioning signal is poor and the vehicle cannot be located.

## 4G signal light “”

4G signal strength indication, the better the signal, the closer the icon is to the full bar.

## Key number “”

It means that the number of the key currently used corresponds to the key code in the Zontes smart APP, for example: the No. 1 key corresponds to the **【0】** key code in the APP; The No. 2 key corresponds to the **【1】** key code in the APP; And so on, each motorcycle can have up to 4 keys.

# Instrument Panel

## Maintenance information

You can check the remaining maintenance mileage in the vehicle information, and short press "SET" in the remaining maintenance mileage option, you can choose to reset and enter the next maintenance cycle.



## Tire pressure information

When the tire pressure monitoring setting is turned on, the tire pressure and temperature are displayed every time the vehicle is turned on "--", the actual tire pressure value is transmitted only after the minimum speed of 30 km/h is exceeded for the first time(The TPMS sensor only sends a signal to the vehicle after the minimum speed has been exceeded).

Tire pressure unit setting: Short press the "SET" button to switch the kPa/psi/bar unit to facilitate your reading habits Tire Pressure Learning: (1)Let the valve of the front (rear) wheel of the motorcycle rotate to 12 o'clock, and park for more than 5 minutes, and then operate the instrument to enter the tire pressure learning mode, that is, the instrument is powered on→ enter the menu→ tire pressure setting interface→ turn on the tire pressure monitoring → set the front (rear) wheel to the "learning" state. (2)Continue to deflate the corresponding front (rear) wheels until the instrument displays the sensor ID, the current tire pressure and tire temperature values, and the instrument displays the "learned" status. At this time, re-inflate to the rated tire pressure value, and the instrument updates to display the inflated value, which is the learning success.

(3)After the front (rear) wheel learning is successful, the interval is more than 1 minute, and then the instrument is operated to learn another wheel, so as to avoid the situation of front and rear cross learning. If the learning is not successful, repeat the above operation.

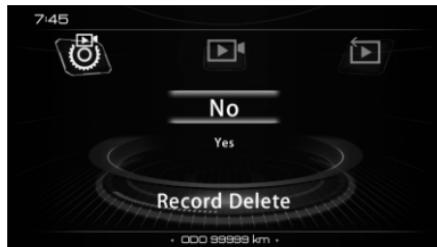


## DVR

Short press the "SET" back button on the main interface, you can take a photo, take a photo before and after and store it, and you can view the captured photos in DVR playback. You can choose to start recording, turn off recording only, and turn off recording (delete all videos and photos) from the recording settings, where turning off recording (deleting all videos and photos) will be formatted and stored, which will lose all videos and photos, which is irreversible.

The meter has built-in 128G EMMC storage, does not support memory card expansion, after starting recording, a video file is stored every 1 minute, when the storage is full, the new video file will automatically overwrite the old file.

You can view the current camera through the front and rear view in the DVR display, and calibrate the camera picture. Open the ZONTES smart APP, scan the QR code of the projection interface and connect to the instrument successfully, you can download the video files and photos you need.



# Instrument Panel

Operation	DVR status	Icon displays	Frequency of flashing	Icon
Start recording	Normal recording	Light is not on	-	
	Recording exceptions	red light flashes	1Hz	
Turn Off Recording Only	Turn Off Recording	Light is on	-	
Turn Off Recording(Delete all the videos and photos)	Turn off recording	Light is not on	-	
Capture	Take a photo of the front and back	Flash once	-	

## DVR fault code

Number	Fault codes	Description of the fault code
1	1001	The front camera is powered abnormally
2	1002	The rear camera is powered abnormally
3	1003	The front camera signal is abnormal
4	1004	The rear camera signal is abnormal
5	1005	Storage exceptions

## First maintenance

The initial 1000 km maintenance is a must-follow item to keep the vehicle in the safest and most efficient condition. It is the duty of the owner/driver to ensure safety.

### ⚠ WARNING

- Failure to perform normal maintenance or proper troubleshooting before riding may lead to serious injury or fatal accidents.
- Always follow the inspection, maintenance recommendations and maintenance periodic table provided in this User Manual.
- If you are not familiar with vehicle maintenance, please leave it to a ZONTES dealer for maintenance.

## Maintenance safety

Please read the service instructions before each service to ensure that you have the necessary tools, parts and skills. We are unable to alert you to every danger that may arise when performing maintenance. Only you can decide whether you should carry out maintenance repairs or not.

## Please follow these guidelines for maintenance:

- Extinguish the engine and dial the key.
- Place the motorcycle on a stable and flat ground with a side bracket or support it with a maintenance bracket.
- Wait for the engine, muffler, brakes and other high-temperature components to cool down before starting operation, otherwise burns may occur.
- Start the engine only under specified circumstances and in a well-ventilated environment.

### ⚠ DANGER

- Brake discs, calipers, and brake pads may become very hot during use. To avoid possible burns, allow the brake components to cool down before touching.

## Routine first maintain

Maintenance at the initial 1000 km is very important work. During this time, all engine parts have been run-in. Therefore, in this overhaul, the parts should be readjusted, all the fasteners should be tightened, and the oil contaminated by the wear debris of the parts should be replaced. Carefully performing your first 1000 km overhaul will ensure that your motorcycle performs at its best and extends its lifespan.

## ! ATTENTION

- Pay attention to check whether the regular maintenance of each time is fully in accordance with the tips of this manual and carried out carefully. The initial 1000 km of maintenance should be carried out in accordance with the methods described in this section. Special attention should be paid to the "dangers" and "warnings" in this section. Replacing an unsuitable part can lead to accelerated wear and tear on the motorcycle and can shorten the life of the motorcycle. When it comes to replacing parts for your motorcycle, choose to use our genuine parts.
- Waste generated in the maintenance process, such as cleaning agent, waste engine oil, etc., should be properly disposed of and should not cause pollution to the environment.
- The minimum maintenance required is specified in the maintenance table. If your motorcycle is often used in harsh environments, maintenance should be more than specified in the table, and if you have questions about the maintenance interval, please consult our qualified repair unit.

## Regular maintenance table

① Check (clean, lubricate, adjust or replace if necessary) ② :Replace ③ :Fastening ★:Annotation

Item	Pre-ride check	Frequency*1						Annual Check	Regular replacement
		X1000km	1	4	8	12	16		
Engine oil	★	①	R	R	R	R	R	①	★ Note1
Oil filter	★		R		R	R	R	①	
Air filter (filter element)	★★★		①	R	①	R	R		★ Note2
Tire	★		①	①	①	①	①		Check tire pressure and tread wear
Brake fluid	★		①	①	①	①	①		Replace every 2 years
Internal mechanism of faucet lock	★★★		①	①	①	①	①		★ Note3
Wheel spoke	★★		①	①	①	①	①		Check for looseness or detachment
Front shock absorber	★★		①	①	①	①	①		★ Note4
Rear shock absorber	★★		①	①	①	①	①		
V-belt	★★	①	①	①	①	①	①		Replace every 2 years
Bolts and nuts in steering mechanisms	①		①	①	①	①	①		
Secondary water tank level	①		①	①	①	①	①		Replace every 3 years or 30000 kilometers
Brake pad wear	①		①	①	①	①	①		Check for wear and tear
Fuel level									Start check
Idle speed	①		①	①	①	①	①		
Free angle of throttle grip	①	①	①	①	①	①	①		30000 kilometers replacement
Electronic seat cushion lock,									Clean and lubricate every 4000 kilometers
Electronic fuel tank lock									

## Regular maintenance table

● Check (clean, lubricate, adjust or replace if necessary) R : Replace T : Fastening ★ : Annotation

Item	Pre-ride check	Frequency*1						Annual Check	Regular replacement
		X1000km	1	4	8	12	16		
Muffler	★		●	●	●	●	●	●	★ Note5
Free angle of throttle grip	★		●	●	●	●	●		Free angle: $\pm 0.5^\circ$
Gearbox oil	★		R	R	R	R	R		★ Note6-7
Drive wheel, driven wheel	★		●	●	●	●	●		Check for leaks
Fuel line	★		●	●	●	●	●		15000 kilometers to replenish butter
Bearings in the steering mechanism	★		●	●	●	●	●		
Vehicle fasteners, bolts, nuts	★★		T	T	T	T	T		
Wheel, axle sleeve and oil seal of rear rocker arm	★★		●	●	●	●	●		Check for wear and tear
Spark plug	★★		●	●	●	●	●		
Brake hose	★★		●	●	R				Check for leaks
Valve clearance	★★		●	●	●	●	●		★ Note8
Air filter oil pipe			Check and adjust every 40000 kilometers						
Radiator pipe			●	●	●	●	●		
Brake system			●	●	●	●	●		Check the oil level in the cup

★ : This service is provided by dealers or qualified repair units. If the owner has suitable tools, service information, and a certain understanding of the machinery, they can implement it themselves.

★★ : For safety reasons, such projects should be provided by dealers or qualified repair units.

★ Note 1: The first maintenance shall be carried out after the first 1000 kilometers or 3 months (whichever comes first), and the second maintenance shall be carried out when the actual mileage of the instrument reaches 6000 kilometers. Regular maintenance shall be carried out every 6000 kilometers or 15 months (whichever comes first) thereafter.

★ Note 2: When driving in particularly humid or dusty areas, frequent maintenance work should be carried out.

★ Note 3: Check, clean, lubricate, and maintain every 10000 kilometers (6000 miles). For detailed maintenance operations, please refer to the official website's " generation faucet lock ".

★ Note 4: Maintain the shock absorber every 20000 kilometers (12000 miles) by replacing the oil seal, dust seal, and shock absorber oil.

★ Note 5: If the motorcycle is hit or scratched by external force while reversing, it is necessary to carefully check the appearance, installation point firmness, and whether the muffler buffer rubber is deformed, and whether there is any air leakage after the engine idles. Internal abnormal noise or severe appearance damage usually require replacement, and the suspension ears, brackets, buffer rubber, bolts, and damaged parts involved must be replaced before continuing to ride.

★ Note 6: ① It is recommended to use Shell Jiadu S3 V220C2 extreme pressure grease or high-temperature resistant No.2 grease of the same viscosity for maintenance and lubrication of the driving wheel and driven wheel bushings every 10000 kilometers to ensure riding comfort. ② Transmission system; If there is a significant decrease in driving speed, it is recommended to maintain and inspect the CVT transmission system at any time, and replace it in advance if necessary.

★ Note 7: The warranty for CVT system failure caused by quality issues of parts is 1 year or 6000 kilometers, and any warranty beyond one of them will be invalid. The normal wear and tear of parts generated during vehicle use is not within the scope of the three guarantees, and sensory phenomena that do not affect mechanical performance, such as sound and vibration, are not within the scope of the three guarantees.

★ Note 8: Valve clearance (engine cooling state) inlet: 0.8~0.12mm, exhaust: 0.18~0.22mm

Check if the front disc brake caliper bolts, front shock absorber bottom cylinder bolts, upper and lower connecting plate bolts, upper connecting plate decorative nuts, disc brake disc and sprocket bolts (nuts), rear axle nuts and split pins, rear rocker arm nuts, and side bracket flameout switch bolts are loose. Check if the rear axle opening pin is abnormal. Check if the retaining rings on both sides of the main bracket are complete.

## Pre-drive inspection

If you do not inspect your motorcycle well before riding and do not properly maintain it, you will increase the chance of accidents and damage to your motorcycle. Always inspect your motorcycle before using it to make sure it is safe to operate. Refer to the Maintenance section of this Owner's Manual.

**Please check the following before riding a motorcycle:**

### Steering system

- Flexible steering
- No hindrance to movement
- No play or looseness

### Accelerator

- Correct throttle cable clearance
- Smooth operation and smooth throttle return

### Brakes

- The brake handle operates normally
- The brake fluid is above the "LOWER" line of the brake cylinder
- No "spongy feeling" of brake failure
- No dragging (braking)
- No brake fluid leakage
- Brake disc/pad wear must not exceed the specified range

### Shock absorber

- No foreign matter attached to the surface, no oil leakage, smooth operation

### Fuel

- Sufficient fuel for the planned distance

### Engine oil

- Check whether the engine oil level is sufficient. Follow steps 1 to 5 on page 6-18. The engine oil level should be between the upper and lower limits of the dipstick scale.

### light

- Headlights, taillights/brake lights, instrument lights, turn signals, front position lights, license plate lights can light up normally.

### Indicator

- High beam indicator lights and turn indicator lights can light up normally.

### Horn

- Functioning normal

### Brake switch

- Functioning normal

## Ignition switch

- Function normal

## Side stand/ignition interlock switch

- Operating normally

### ⚠ ATTENTION

- Failure to be familiar with the control components may cause loss of vehicle control, resulting in an accident or personal injury.
  - Please read the user manual carefully to familiarize yourself with all the control components. If there are control components or functions that you do not understand, please consult a ZONTES dealer.

### ⚠ WARNING

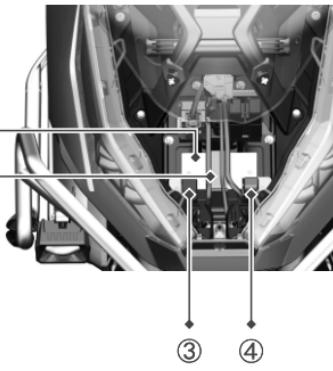
- Installing non-genuine ZONTES parts may make your motorcycle unsafe, which may result in an accident in which you are injured or even killed.
- Always use ZONTES original genuine parts or replacement parts designed and certified for your motorcycle.

## Gel battery

The battery is located under the front hood of the vehicle. Please remove the battery in the following order.



1. Remove the two expansion pins on the head cover and remove the head cover.



- ①Battery
- ②Battery strap
- ③Battery positive wire (red)
- ④Battery negative wire (black)

2. Move away the black protective cap and remove the negative extreme (-), remove the red protection cap and remove the positive extreme (+).

### ATTENTION

- When reinstalling the battery after removing the battery, pay attention to straighten out the surrounding wiring harness, especially pay attention to the positive position of the battery and other red wires to avoid touching the frame and batteries and other metals, and fully install the battery in the battery box.
- When the battery is re-installed, the vehicle is powered off during starting or riding, the battery is dormant and restarted, the idle speed is abnormal, and the safety is re-inserted and removed, etc., pay attention to the reset of individual EFI hardware. The steps are as follows: Open the electric door lock switch and engine flameout switch, pinch the rear brake handle to start the engine, 10 seconds later, turn off the engine flameout switch, 10 seconds later open the engine flameout switch, and repeat twice.

## Battery installation:

1. Check the battery appearance before the battery installation. The shell should be free of scars and cracks.
2. First connect to the positive (+) polar line (red wire), and then connect the (-) pole. Note: Do not connect the positive and negative electrodes, otherwise it will damage the stabilized stamping rectifier.
3. After tightening the bolt, apply butter or Vaseline on the bolts, nuts, and terminals to avoid poor contact with rust.
4. Put the battery in the battery box and fix it with straps. Check the battery without shaking.

## Cleaning the battery

1. Remove the battery.
2. If the terminals have just started to corrode and are covered with a white substance, clean them with warm water and wipe them clean.
3. If the terminals are severely corroded, use a wire brush or sandpaper to clean and polish. Wear safety glasses.

## Replace the battery

When replacing a battery, you should confirm the battery model and verify whether it is consistent with the original battery model. The battery specifications are relatively matched when the motorcycle is designed. If a different type of battery is used, the performance and life of the motorcycle may be affected, and it may cause circuit failure.

## Use and Maintenance

1. Each electric start time should not exceed 5 seconds. If it fails to start for several consecutive times, check the fuel supply system and the starting and ignition systems.
2. The following situations will cause the battery to be over-discharged or under-charged, thereby shortening the battery life:
  - Frequent electric starting;
  - Short riding time and short driving distance;
  - Long time without ignition;
  - Adding additional electrical components, such as high-power spotlights, audio, GPS and other electrical equipment.
3. When the starting motor turns weakness, the lights are darker, the horn sound is hoarse, and the black screen of the instrument is restarted with the instrument, the battery should be supplemented immediately.
4. When the motorcycle is not used for a long time, the battery should be removed and stored separately, or the connection line of the battery should be disconnected. Please replenish the battery before the motorcycle stops use, and replenish the power every three months.
5. Precautions for charging:
  - When charging, please use the special charger configured by the company for charging. You can use the vehicle to bring your own charging port or remove the battery to charge alone.
  - Do not charge the battery. Excessive charging will cause the battery leakage, drum bag and even burst, causing different degrees of danger.

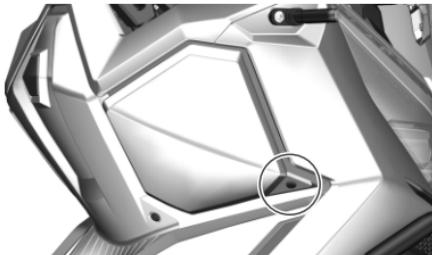
## ⚠ ATTENTION

1. Do not try to open and modify the battery in any way.
2. Avoid using or storage battery near high temperature and light fire, otherwise the battery and vehicles may be damaged.
3. Do not install the positive and negative pole of the battery, otherwise it may cause damage to the battery and vehicles.
4. Please use the supporting screws and nuts to connect the battery terminal firmly, otherwise it may cause damage to the battery and vehicles.
5. During the use or charging process, if the battery is found to be odor, fever, deformation, shell fades, and all other abnormal conditions, please stop using and immediately remove the battery out of the motorcycle.
6. The battery is standard for the vehicle. Do not use it for other uses other than the starting motorcycle.
7. Install external equipment such as anti-theft device, GPS, fog lights, etc. on batteries and vehicle circuits, adding qualified brand products, and connecting to the reserved interface in our company, do not change the wires without permission, otherwise It will cause bad possibilities for the work of our vehicle circuit system, and at the same time cause the battery to over-discharge.

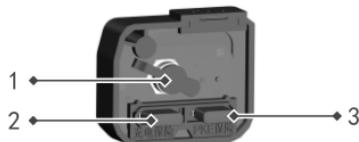
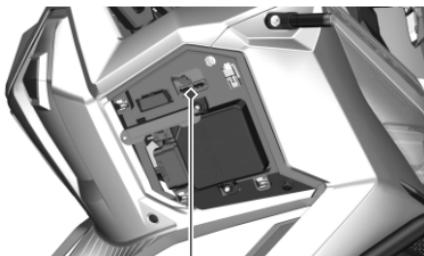
8. Do not destroy the battery. The electrolyte in the battery is harmful to the skin and eyes of the human, and it should avoid splashing the skin, eyes and clothes. Once you contact skin and eyes, wash with a lot of water immediately and go to the hospital for treatment.

# Maintenance

## Chargingport



1. Disassemble a swelling nail on the outer lid of the right front box and remove the outer lid of the right front box.



1. Battery charging DC interface
2. Charging fuse
3. PKE fuse

### Charger Instructions

When the vehicle is not ridden for a long time or the battery cannot be started due to other reasons, please follow the steps below to recharge the battery:

1. Remove the right storage box cover on the right side of the vehicle.
2. Plug the DC output plug of the charger into the DC charging port of the battery.
3. Plug the charger input AC socket directly into the household 110-220V power supply. When the charger lights up green, charging is complete and unplug the charger.



Motorcycle starting battery charger

### LED Indicator Lights

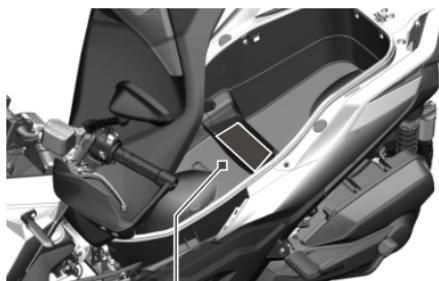
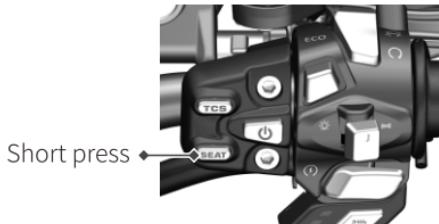
Red light	Charging Mode
Green light	Fully charged

### ATTENTION

- Please purchase a professional charger from Zontes, which is available in Zontes Mall or dealers; it is forbidden to use other chargers that have not been inspected and qualified to charge the battery.

## Toolkit

Short press the "SEAT" button on the left handlebar to open the seat and you will see the tool kit.



Toolkit

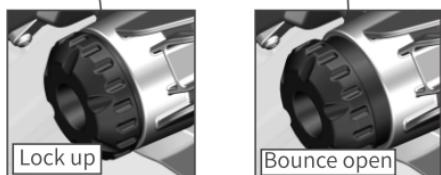
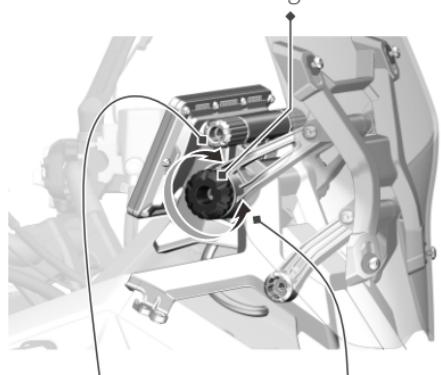
## Front storage box hook

Press the hook up or down and rotate 180° to see it.



## Windshield glass

Windshield glass handle



Rotate the handle counterclockwise about 60° to pop it open



Press the handle to the bottom and rotate it 60° clockwise to lock it

The windshield is divided into 5 levels from low to high. The adjustment method is as follows (see the diagram above), (locked state) rotate the locking handle counterclockwise about 60°, and the locking handle pops open (pop-open state). Rotate the swing arm up and down (see the figure below) to drive the windshield to rise or fall. After adjusting to the desired position, press the locking handle hard to the bottom, and then rotate the locking handle clockwise to lock it in place, completing the adjustment of the windshield height.

# Maintenance



Low order



High order

## Muffler

### Muffler maintenance and care

The muffler of this vehicle is equipped with a catalyst, which can effectively reduce the emission of harmful substances into the atmosphere during the operation of the motorcycle.

To make this device work effectively, please refer to the regular inspection table in the "Maintenance" section. To increase the service life of the muffler and avoid malfunctions such as muffler rust and reduced catalyst conversion efficiency caused by abnormal use and maintenance. Please be sure to comply with the following:

- It is forbidden to throttle at high speed for a long time.
- It is forbidden to drive at low speed with heavy load for a long time.
- It is forbidden to add anti-rust oil or engine oil to the muffler.
- It is forbidden to directly rinse the muffler with cold water when the motorcycle is hot.
- It is forbidden to coast with the engine turned off.
- It is forbidden to use inferior engine oil.
- Use unleaded gasoline.
- Clean the dirt on the surface and tail of the muffler in time.
- Keep the engine in good running condition, and perform regular maintenance and inspection. Avoid poor engine combustion, which may cause secondary combustion of exhaust gas in the exhaust pipe and cause catalyst sintering failure.
- When installing the muffler, be sure to install the muffler gasket correctly.
- When installing the muffler decorative cover, be sure to install heat insulation pads at each screw point to avoid the muffler high temperature from burning the decorative cover or causing fire hazard.

### ⚠ WARNING

- Please note that the following and similar matters, if violated, may cause damage to parts or vehicles, or even injury or death to riders.
- When driving, the side parking frame must be put away to avoid the vehicle tipping over when turning, causing casualties to riders.
- It is necessary to check whether the brake system works normally when driving. If there is any problem, please repair it immediately.
- Non-professionals should not pull out the fuel pipe to discharge fuel, so as not to encounter open flame damage to the vehicle; Don't let The muffler of the motorcycle should contact with foreign bodies to avoid causing fire, and the use and storage environment of the motorcycle should not have fire hazards.
- When parts need to be replaced for vehicle maintenance, the company's pure parts must be used. The use of non-pure parts, especially electrical parts, may damage the motorcycle or even burn the vehicle.
- Please do not add accessories at will, especially electrical parts, if improper wiring or electrical load is too large, it may burn the vehicle.

## Spark plug

### Check the spark plugs

The spark plug is an important part and should be removed regularly for inspection according to the maintenance schedule. The condition of the spark plug indicates the condition of the engine. The ceramic insulator around the middle electrode of the spark plug should be light brown (the ideal color for normal vehicle driving). If the spark plug appears significantly different colors, it may be caused by the poor operation of the engine.

If the spark plug electrode has corrosion, excessive carbon accumulation or other deposits, it should be replaced as soon as possible.

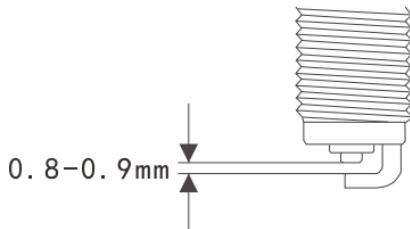
1. Use a hard wire or steel needle to remove the carbon deposit attached to the spark plug, and then adjust the spark plug gap to between 0.8 and 0.9 mm with a ruler.
2. When removing the attached carbon deposit, observe the two colors on the porcelain tip of the spark plug at the same time, which tells you whether the standard spark plug is suitable. The used normal spark plug ignition area is light brown, if the insulator is burning white, electrode ablation, use cold type spark plug is more appropriate.

### Zontes specified spark plug:

NGK/LMAR8A-9

### Replace the spark plug

1. Remove the spark plug cap.
2. Remove the spark plug with the spark plug wrench
3. Check the spark plug.



### Spark plug gap:

0.8-0.9mm

### Install the spark plug

Clean the surface and contact surface of the spark plug washer and wipe the dirt from the spark plug threads.

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

### Locking torque:

Spark plug:

13N.m

## ⚠ WARNING

· Incorrect installation of the spark plug can damage the engine cylinder head. Installing the spark plug with excessive torque or causing the threads to be twisted can also damage the engine cylinder head, so install the spark plug carefully. If you do not have a torque wrench when installing or replacing a new spark plug, tighten it 3/8 turns (135°) after tightening it until there is resistance. If you use an old spark plug, tighten it 1/12 turn (30°) after tightening it until there is resistance, but the spark plug should be tightened to the specified torque as much as possible.

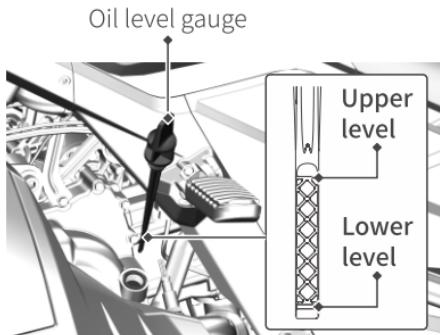
## Engine oil

Whether the engine can be durable, it is important to choose high-quality oil and regularly replace new oil. Regular inspection of the oil level and regular oil changes are two important tasks that must be carried out in the maintenance project.

### Check the oil level

Follow these steps to check the oil level of the engine oil.

1. Stop the motorcycle on a flat ground and prop up the main support so that it is in an upright position.
2. Start the engine and idle for 3 to 5 minutes (when the temperature is below 10 °C, the idle running time is appropriately extended).
3. Turn off the engine and wait 3 to 5 minutes.
4. Pull out the oil gauge counterclockwise, wipe it with a dry cloth or napkin that does not remove scraps, and insert it into the original position (Do not screw in), and then take out the oil gauge to observe the oil level, the oil level should be between the lowest and the highest oil level line.
5. If the oil level is lower than the minimum mark, add the recommended oil to the correct height.



### ⚠️ WARNING

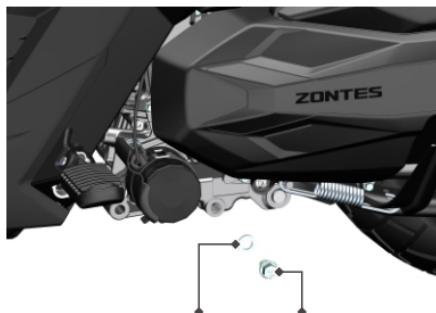
- When there is too much or too little engine oil, running the engine can damage the engine; Park the motorcycle on flat ground and check the oil level through the dipstick scale, which must be between the lowest and highest oil level markings. When checking the fuel level, make sure that the bike is upright, and that the bike is slightly tilted to either side may cause a check error.

## Change engine oil

### Replace the oil

Change the engine oil at the end of each maintenance cycle. Replacing the oil should be carried out in the case of the heat engine, so that the old oil can be discharged more thoroughly. The steps are as follows:

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



1. Gasket

2. Engine drain bolt

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

6. Pour 1.55 liters (or 1.75 liters if the oil filter has been replaced) of new four-stroke motorcycle oil with a viscosity of SAE 5W-40/10W-50/10W-40 and an API SN rating or higher into the oil filler opening. Then, install the oil dipstick and O-ring, and tighten securely.

### ⚠️ WARNING

- Failure to use the specified oil may damage the engine.

7. Start the engine and let it idle for a few minutes to check for any leakage at the disassembled parts. If there is any oil leakage, immediately shut down the engine and inspect the cause.

8. Allow the engine to idle for 5 minutes, then shut it down for 3 minutes. Check the oil level of the engine through the oil dipstick scale line. Adjust if necessary.

### ⚠️ DANGER

- When the engine is running, do not open the oil filler cap to prevent high-temperature oil from splashing and injuring people.

## DANGER

• Running the engine with too much or too little engine oil will damage it. Park the motorcycle on a flat ground and check the oil level through the oil dipstick scale. The oil level must be between the minimum and maximum oil level marks. When checking the oil level, make sure the motorcycle is upright, as any slight lean to either side may lead to a wrong check.

## Tightening Torque:

Engine Oil Drain Bolt:  
25N.m

## Replacing the Oil Filte

(Please ensure proper recycling and disposal of used oil and oil filters)

- 1.Place an oil pan under the oil filter located on the left crankcase.
- 2.Loose the straps and remove the oil filter protective cover.

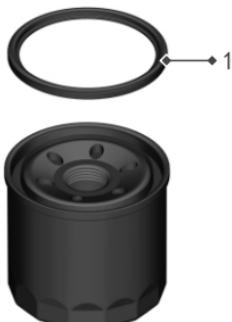


3.Use an oil filter wrench to remove the oil filter.

4.Wipe clean any residual oil and impurities with a clean paper towel.

5.To install the new oil filter:

- a.Apply a thin layer of engine oil to the sealing ring before installation.
- b.Tighten the oil filter with a torque of 20N.m.
- c.After installation, start the engine and check for oil leaks.



1.Oil filter seal ring

## DANGER

- Before installing the oil filter, please carefully check whether the sealing ring is properly installed in the groove and confirm whether the sealing ring is damaged. If there is any damage or trimming, it should be replaced in time, otherwise it will lead to oil leakage.

### Recommended Oil

Oil (SN5W-40/1L)

### Engine Oil Replacement Capacity

For Oil Replacement:

1.55 L

For Oil Filter Replacement:

1.75 L

### Tightening Torque:

Engine Oil Drain Bolt:

25N.m

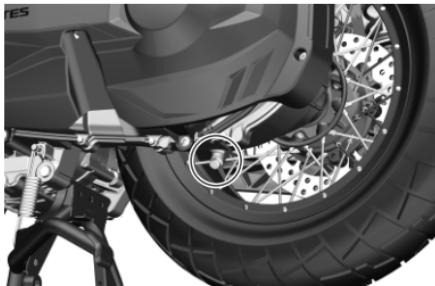
Oil Filter:

20N.m

## Gear case oil

### Replace the gearbox oil

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



1. Start the engine, ride the vehicle for a few minutes, let the gear oil temperature rise, and then stop the engine.

2. Prop up the main support and park the vehicle.

3. Place an oil basin under the oil drain bolt of the gearbox to collect the used gearbox oil.

4. Remove the gear box filler nut and O-type Ring.

5. Remove and lower the oil bolts and gaskets to discharge the oil from the gear box.

6. Install the drain bolt and gasket, and then tighten the bolt to the specified torque (tightening torque: 20 N.m).

7. Add the recommended gearbox oil to the specified capacity. (Designated capacity: 200 milliliters; Recommended gearbox oil: four stroke motorcycle oil API SN grade or higher, SAE 5W-40/10W-40/10W-50; Warning: Be careful not to let foreign objects enter the gearbox, make sure there is no oil on the outer tire and wheels.

8. Install the fuel filler nut and O-ring, and then lock the nut.

9. Check the gear box for oil leakage. If oil leaks, check the cause.

### Tightening Torque:

Gearbox oil drain bolt  
20N.m

## Coolant (antifreeze) usage

### Recommended coolant:

Mobilube Antifreeze

### Total amount of coolant (antifreeze):

1540ml (240ml with auxiliary water tank)

### Cooling liquid

While the engine is cooling, check the coolant level in the storage tank.

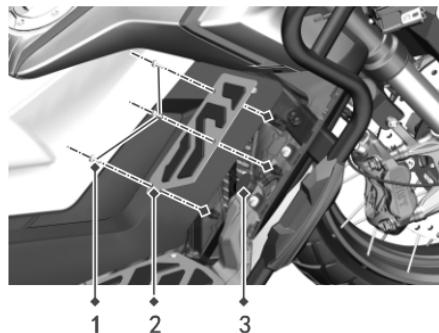
1. Place the motorcycle on a stable and flat ground and lift the main support to keep the motorcycle upright.
2. Check whether the coolant level in the storage tank is between the upper and lower level marks.



**1. Liquid Level Mark (H)**

**2. Level Mark (L)**

3. Check whether the coolant level in the storage tank is



### 1. Bolts

### 2. Right front pedal rubber pad press block

### 3. Coolant sub tank cover

### ⚠️ WARNING

- Only remove the coolant sub-tank cover. Do not remove the tank cover when the engine is very hot.

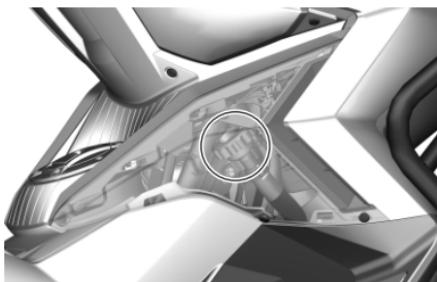
4. If the total amount of coolant is below the bottom level mark (L), use the 3# hex to remove the 3 5x12 bolts and the right front pedal rubber pad to see the coolant sub-tank cover.

5. Open the coolant sub-tank cover and add antifreeze between the liquid level line.

### ⚠️ ATTENTION

- If water needs to be added, only distilled water can be used as a temporary substitute. Other water may cause adverse effects such as corrosion of the engine cooling system.

6. Put back the coolant sub-tank cover, 3 bolts and right front pedal rubber pad press block.



Coolant main tank cap

## ATTENTION

- Pull up the main support when the vehicle is cold; check to ensure that all pipelines and pipe clamps are assembled normally; loosen the vent bolt at the thermostat (right side of the engine) by 4-5 turns (leave 1-2 teeth to prevent the bolt from falling off); remove the right decorative cover of the fuel tank lock, unscrew the water filler cap, slowly add antifreeze, and manually screw back the bolt without tightening when the antifreeze continues to seep out of the vent bolt; Continue to add antifreeze until the water filling port is full; start the vehicle, idle, slightly add oil, after the instrument temperature rises two scales (above 60 degrees), 4000-5000 rpm, about 10 s, repeat several times, exhaust, and add antifreeze at the water filling port at the same time; touch the radiator in front by hand, and it is normal if the temperature rises obviously; Tighten the air release bolt, tighten the water filler cap, and complete the exhaust.

## Engine coolant (antifreeze)

Coolant (antifreeze) consisting of a concentrated solution of a coolant (antifreeze) mixed with distilled water in a proportion suitable for aluminum radiators. If the outdoor temperature does not reach below the freezing point of the coolant (antifreeze), the coolant (antifreeze) can be used. When adding or replacing coolant (antifreeze), use a coolant (antifreeze) that is based on ethylene glycol and is suitable for use with aluminum radiators.

## DANGER

- Swallowing or inhaling coolant (antifreeze) is harmful to human body. When using, do not eat, drink or smoke. Thoroughly wash any exposed skin, such as hands and face, after each operation. If swallowed, immediately contact a poison control center or hospital; if inhaled, immediately go to a ventilated environment with fresh air; if accidentally splashed into the eyes, immediately wash the eyes with plenty of running water and seek medical advice/consultation. Keep coolant (antifreeze) away from children and pets.

## Coolant change

The coolant should be replaced regularly according to the regular maintenance table in the user's manual. For this work, please send it to the dealer of ZONTES to replace the coolant.

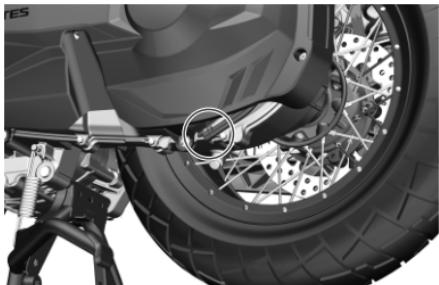
## Filter element of air filter and engine air inlet

The air filter and the filter element of the engine air inlet 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 decrease. If the filter element of the engine air inlet is blocked by dust, the air intake resistance will increase, which will reduce the heat dissipation of the belt and affect the service life of the belt. Please check the air filter and the inlet filter element according to the following steps.

### ⚠ WARNING

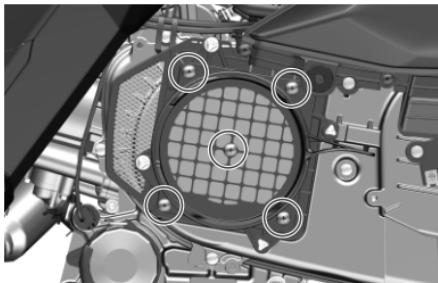
• Replace the air filter every 6000km. The filter element of the engine air inlet should be replaced every 4000 km. The filter element of the air filter and the filter element of the engine air inlet should be cleaned regularly according to the provisions of the periodic maintenance table; if you often ride in humid or dusty areas, you should service the filter element more frequently, and you must check the waste oil pipe of the air filter frequently.

- If driving in dusty conditions, increase the frequency of cleaning or replacing the filter element.
- It is dangerous to run the engine without installing the air filter. Without the blockage of the filter element inside the air filter, the flame of the engine will spray back from the engine to the air intake chamber of the air filter. Dirt can enter the engine and cause damage to the engine. Do not run the engine without an air cleaner element.



# Maintenance

1. As shown in the figure above, check whether the waste oil pipe of the air filter accumulates dirt or water. If dirt or water is found, remove the clamp in the figure below with a caliper, pull out the black plug, and reinstall the plug after draining the waste oil and sewage.

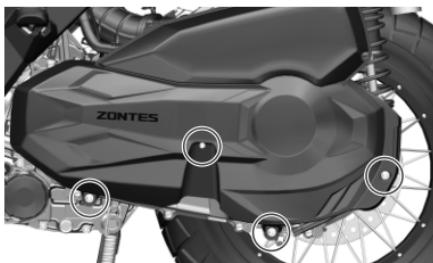


## ⚠ WARNING

- If there is excessive dirt in the check hose, be sure to check the air cleaner element for excessive dirt or damage and replace it if necessary.

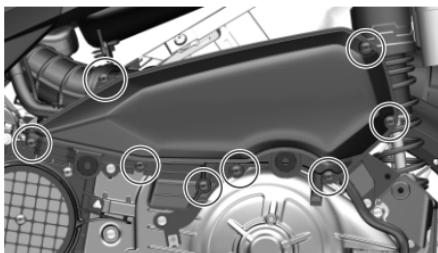


2. Remove 2 expansion nails.

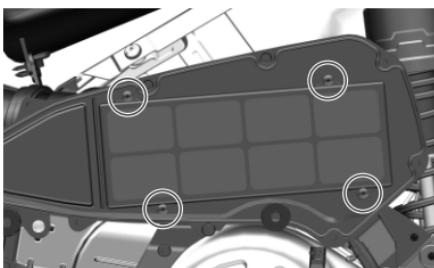


3. Remove 4 bolts and take down the left engine cover.

4. Remove 5 screws, remove the filter element of the engine air inlet and replace it with a new one.



5. Remove the 10 screws in the figure above and remove the air filter cover.



6. Remove 4 screws, take out the filter element, and blow away the dust on the filter element from the clean side with a high-pressure air gun.
7. Check whether the air filter element is damaged and replace it with a new one if necessary.
8. Replace the parts in reverse order.

### ⚠ ATTENTION

- If the filter element of the air filter is not installed in the correct position, dust will enter the engine around the filter element and damage the engine. Make sure that the filter element is installed in the correct position. In addition, when washing the motorcycle, do not let water enter the air filter. If there is water entering the air filter, it can be drained by pulling out the oil pipe. Be sure to ensure that there is no water in the air filter before using the motorcycle.

### ⚠ ATTENTION

- Observe the removed filter element, and blow off the pollutants from the clean side with a high-pressure air gun. Be sure to replace the filter element if it is seriously polluted or damaged.
- Install and recover the whole vehicle in reverse order.

# Maintenance

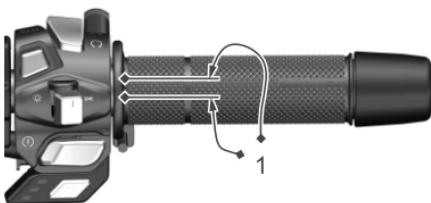
## Engine idle check

Check the idling speed of the engine. If necessary, please go to the dealer of ZONTES to check and debug.

### Engine idle speed:

$1600 \pm 100$  r/min

## Check throttle grip free clearance



1.Throttle grip free clearance

### Throttle grip free clearance:

2.0-4.0mm

## Side parking rack



### Side parking rack

When the side parking frame is propped up, the side parking frame flameout switch sends a signal to the controller, and the controller controls the engine to flameout. At this time, pressing the start switch will not respond. To start the engine, stow the side stand.

### ⚠ ATTENTION

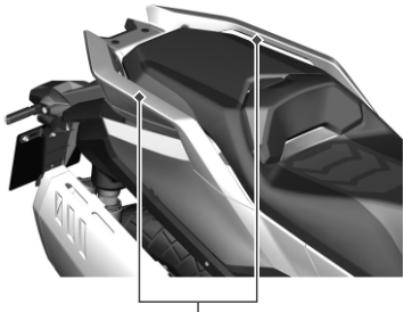
- Check whether the side bracket can be operated freely. If the side parking frame operates stiffly or "squeaks", clean the pivot area and lubricate the pivot bolt with clean lube.
- Check the spring for damage or loss of elasticity.

## Rear armrest (rear shelf)

Do not exceed the maximum load limit.

**maximum load:**

10 kg



Rear armrest (rear shelf)

## Handlebar position adjustment

The factory default handlebar is installed in the rear position (Fig. 1), and the handlebar can be installed 25mm forward by reversing the handlebar cushion block (Fig. 2).

### The specific steps are as follows:

1. Remove the 4 fixing bolts of the handlebar (Fig.3 encircled position);(3 encircled position);
2. Remove the 2 fixing bolts at the bottom of the upper connecting plate.(Fig. 4, encircled position);(Fig. 4, encircled position);
3. Reverse the handlebar cushion block for installation and restore it.

Back position



Fig.1

Forward position



Fig.2



Fig.3



Fig.4

### ATTENTION

• When restoring, 2 fixing bolts at the bottom of the upper connecting plate are first coated with thread fastening glue, and then tightened with a torque of 60N.m.

The upper connecting plate is connected with 2 M8 bolts of the front shock absorber and 4 bolts of the handlebar cushion block according to the torque of 25N.m.

# Maintenance

## Fuel tank cap

The fuel tank is located in front of the seat. When opening the external fuel tank cap, confirm whether the engine shutdown switch is closed. The fuel tank cap can be opened only after the vehicle is powered on and the instrument is turned on. The fuel tank cap can be opened by buckling the small cover plate.



## Fuel type:

Unleaded gasoline only

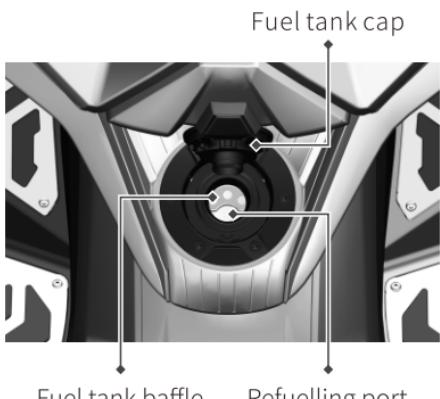
## Fuel octane rating:

Your motorcycle is designed to use 95 or more. Designed for a high research octane number (RON).

## Fuel tank capacity:

17.5L (Oil consumption: 3.5 L/100km)

When refueling, adjust the angle of the refueling gun to make it extend into the fuel tank from the refueling port before refueling. Do not put the nozzle of the refueling gun against the baffle of the fuel tank to refuel, so as to avoid oil splashing.



Fuel tank baffle      Refuelling port

## ATTENTION

- When washing the vehicle, do not use high-pressure water to wash the fuel tank cap to prevent water from entering the fuel tank.
- If the fuel tank cap is stuck and cannot be opened, press down the fuel tank cap and try to open it after the whole vehicle is shut down and restarted.
- When refueling, do not touch the nozzle of the fuel gun to the bottom shell of the fuel tank to avoid fuel leakage caused by damage to the fuel tank.

## DANGER

- Do not add excessive fuel to prevent the spilled fuel from flowing to the high-temperature engine. Refuel until the oil gun jumps. The oil level shall not exceed the bottom of the fuel tank. Otherwise, the fuel will overflow after being heated and expanded, and the motorcycle parts will be damaged.
- When refueling, turn off the engine, make sure that the flameout switch is turned off, and do not approach the open fire.
- Take some precautions when refueling, otherwise it will cause fire or inhale fuel vapor. Refuel in a ventilated place. Make sure that the engine has been shut down, avoid fuel spillage, prohibit open flames, and make sure that there are no sources of heat and fire around. Avoid breathing fuel vapors. Keep children and pets away when refueling.

## Adjust the suspension

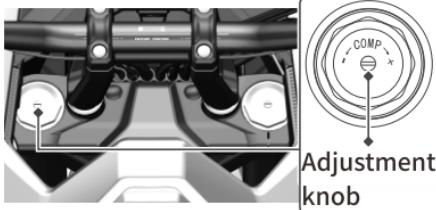
### Front suspension adjustment

1.The front shock absorber compression damping adjustment knob (COMP) can be rotated with a straight screwdriver, and the adjustment range is 20 gears.

The factory position of the standard version is to turn the knob to the end in the "-"direction, and then turn it to the "+" direction for 10 gears.

The factory position of the low-seat version is to turn the knob to the end in the "-"direction, and then turn it to the first gear in the "+" direction.

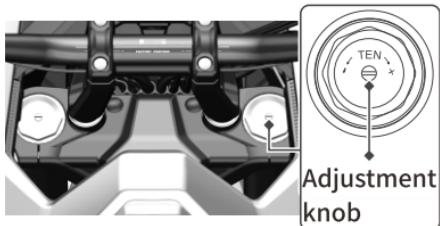
Rotate in the "+"direction to increase the compression damping (stiffen) and rotate in the "-" direction to decrease the compression damping (soften).



2.The front shock absorber recovery damping adjustment knob (TEN) can be rotated with a straight screwdriver, and the adjustment range is 20 gears. The factory position of the standard version is to turn the knob to the end in the "-"direction, and then turn it to the "+" direction for 10 gears.

The factory position of the low-seat version is to turn the knob to the end in the "-"direction, and then turn it to the first gear in the "+" direction.

Rotate in the "+"direction to increase the recovery damping (stiffen) and rotate in the "-" direction to decrease the recovery damping (soften).

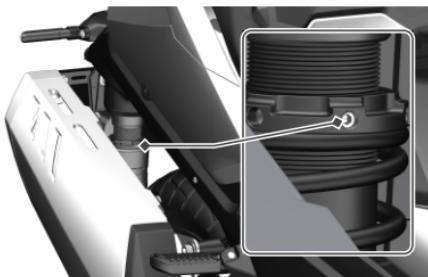


### ATTENTION

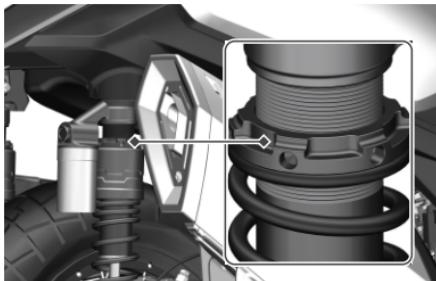
- Do not turn the regulator beyond its limits.

## Rear suspension system adjustment

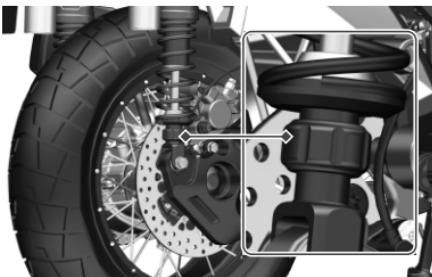
1.To adjust the spring pretightening force, first use a No.3 allen wrench to loosen the locking screw of the precompression adjusting seat, and then rotate the precompression adjusting seat to adjust the spring pretightening force. The two rear shock absorbers need to be adjusted synchronously.



2.Looking down from the top of the shock absorber, rotate the pre-compression adjusting seat clockwise, and the spring pre-tightening force increases (becomes hard).The spring preload is reduced (softened) by rotating the spring counterclockwise. Tighten the locking screw after adjustment, and continue to tighten 1/2 to 3/4 turn when resistance is felt.



3.The adjustment knob for restoring the damping of the rear shock absorber can be rotated by hand. The adjustment range is 7 gears. The standard position is to rotate the knob to the end in the "+" direction and then rotate it to the fourth gear in the "-" direction. Rotate in the "+" direction to increase the restoring damping (stiffen), and rotate in the "-" direction to decrease the restoring damping (soften).



### ATTENTION

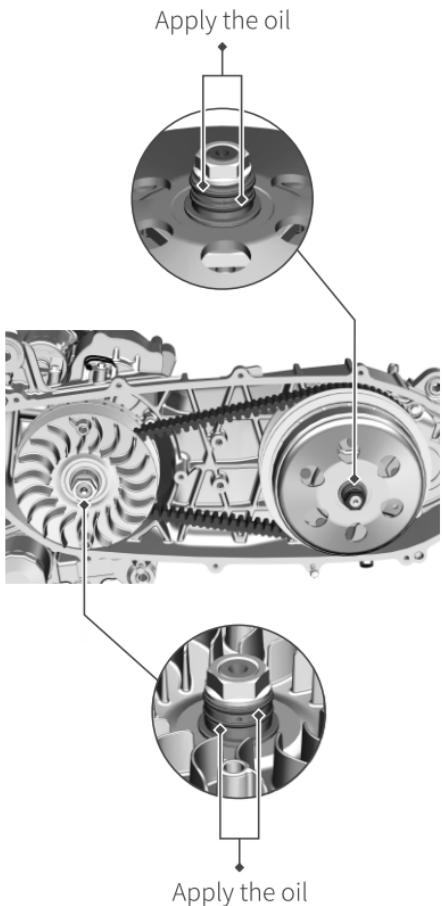
- Do not turn the regulator beyond its limits.

## V-belt

Please refer to the designated dealer or repair shop for regular inspection and replacement according to the provisions of the maintenance schedule.

### ATTENTION

- Before installing the left crankcase cover, it is recommended to apply a thin layer of oil on the surface of the O-ring at the two bushings to facilitate the smooth installation of the left crankcase cover (when the oil is applied too much, please wipe off the excess oil with a dry cloth to avoid the oil throwing on the belt and causing slippage!).



## Tire (inspection/replacement)

### Check tire pressure

Check your tire pressure before each unpaved ride and when you return to the road from your unpaved ride. If you're only riding on the road, check the pressure at least once a month or when you notice a lack of tire pressure. Check the tire pressure after the tire has cooled down.

### Recommended tire pressure:

Front wheel:

230kPa

Rear wheel:

230kPa

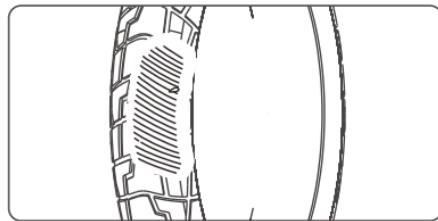
### Injury examination

Inspect the tire for cuts, cracks, exposed fabric or tire lines, or nails or other foreign objects embedded in the side or tread of the tire. Also check the sidewall of the tire for any abnormal bulges or bulges.



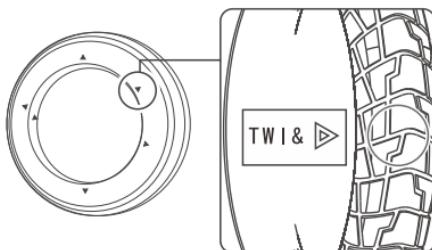
### Abnormal wear and tear checks

Inspect the contact surfaces of the tires for signs of abnormal wear.



### Check the wheel grain depth

Check the tread wear indicator markings. If the wear indication markings are visible, replace the tires immediately. In order to ride safely, the tires need to be replaced when the minimum wear depth is reached.



## Replace the tires

Please have your tires replaced at an authorized repair shop of ZONTES.

For recommended tires, tire pressures and minimum tread depth, please refer to "Technical Specifications".

Whenever you change your tire, follow these guidelines:

- Use recommended tires or equivalent products of the same size, construction, speed class and load capacity.
- After the tires are installed, use the original ZONTES original balance weight or equivalent equipment to balance and position the wheels.
- Do not install an inner tube inside the tubeless tire of this motorcycle. Too much heat can cause the inner tube to burst.
- This motorcycle can only use tubeless tires. Rims are designed to use tubeless tires, and when accelerating or braking hard, the tires with inner tubes can slide on the rims, causing rapid air bleats.

### DANGER

- Installing unsuitable tires can affect operation and stability, which can lead to accidents, injury or even death for you.
- Be sure to use the size and type of tire recommended in this User Manual.

## Check the rims and valves

Before each ride, check whether the rim is damaged and whether the spokes are loose. In addition, the valve position should also be checked.

### ⚠ WARNING

- The use of over-worn or improperly inflated tires can lead to accidents, resulting in serious injuries or deaths.
- Please follow the relevant tire inflation data and maintenance guidelines in the User Manual.

## Wheels

### Rims and spokes

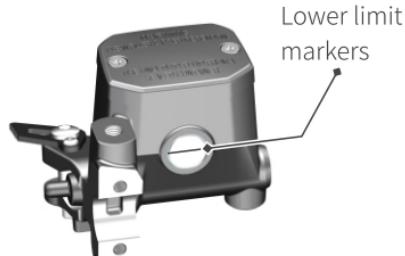
In order to ensure the safe operation of the motorcycle, it is necessary to ensure that the wheels are absolutely rounded and that the spoke tension is appropriate. Loose spokes and wheel loss of roundness can cause instability at high speeds and may cause loss of control of the vehicle (wheels do not need to be removed when performing the maintenance work recommended in the service schedule), as follows:

1. Check the rim and spokes for damage.
2. Tighten the loose spokes according to the standard torque; It is recommended to be handled by a special repair shop of ZONTES.
3. Rotate the wheel slowly to see if it "wobbles". If it is found to be wobbly, the rim is not round or "absolutely" round. If the shaking is obvious, please hand it over to the ZONTES special maintenance shop for maintenance.

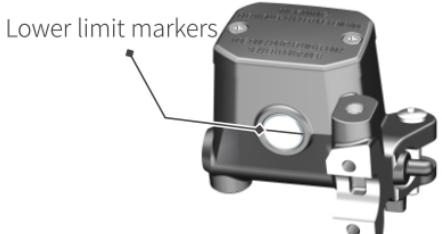
## Brake

### Check the brake fluid

1. Place the motorcycle vertically on a stable, flat surface.
2. The front wheels check that the brake fluid reservoir is placed horizontally and that the fluid level is between the lower and upper limit level markings. The rear wheels check that the brake fluid reservoir is placed horizontally and that the fluid level is between the lower and upper limit level markings.
3. If the brake fluid level in any of the storage tanks is below the lower limit level mark, or if the free stroke of the brake lever exceeds the standard, the brake pad wear must be checked. If the brake pads are almost not worn, there may be a leak and please refer it to a special repair shop for repair.



Rear disc brake main pump

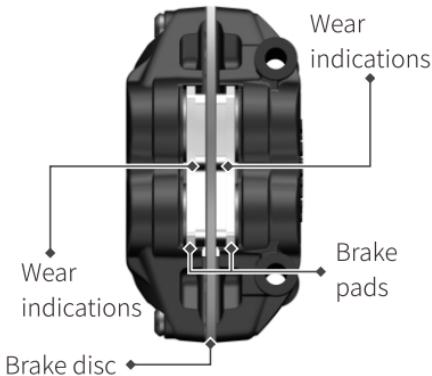


Front disc brake main pump

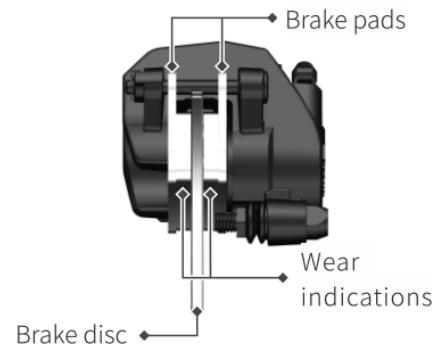
## Check the brake pads

Check the condition of the brake pad wear indication marking. The front wheels need to be replaced if the brake pads are worn to the bottom of the indication markings. The rear wheels need to be replaced if the brake pads are worn to the indication mark.

## Front disc brake caliper



## Rear disc brake calipers

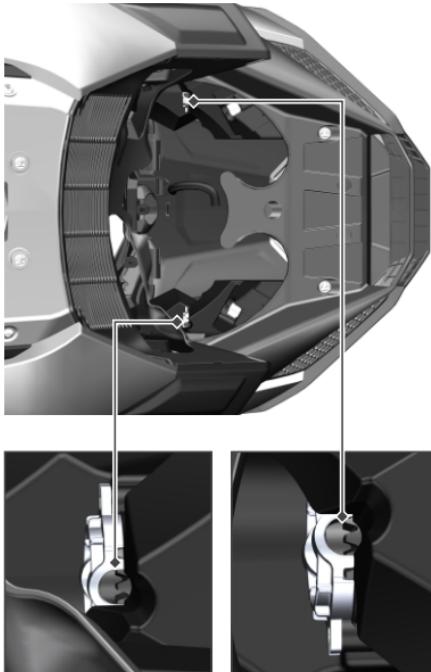


The front wheels check the brake pads from the front of the brake caliper (Be sure to check the left and right brake calipers).

The rear wheel checks the brake pads from the right rear of the motorcycle. If necessary, please hand over the brake pads to the ZONTES special repair shop, and the brake pads must be replaced in pairs at the same time.

## Lighting adjustment

1. The headlights have two independently adjustable adjustment positions on the left and right, which are visible from the bottom of the front of the motorcycle. (Height adjustment of both left and right headlights).



2. Use a  $6 \times 150 - 200$  Phillips screwdriver, insert the dimming hole, turn it down counterclockwise, and increase it clockwise.

When dimming, you need to turn the handlebar to the corresponding direction to reserve more space for easy operation.

**For more detailed steps, please watch the video on the official website.**

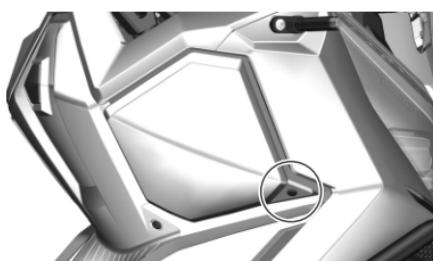
## Installation of electrical devices

The original motorcycle has been equipped with a spotlight modification interface, an immobilizer plug and an OBD diagnostic interface.

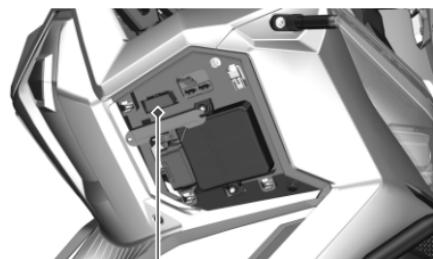


Spotlight retrofit interface

Remove the hood and see the spotlight modification interface.

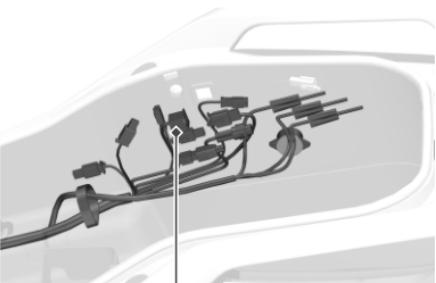


Immobilizer plug



OBD diagnostic interface

The OBD diagnostic interface is located under the cover of the right front cargo box, remove one expansion nail on the outer cover of the right front cargo box, remove the cover of the right front storage box, and the OBD interface can be seen.



The immobilizer plug is located on the right side of the rear tail skirt, and the rear storage compartment is visible when it is removed.

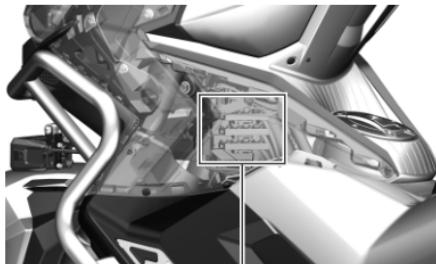
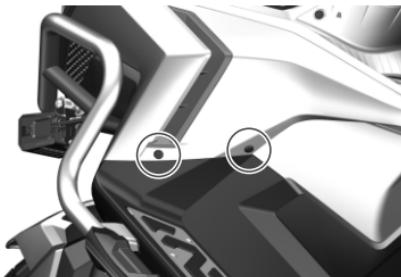
## ⚠ WARNING

- It is forbidden for GPS, fog lamps and other electrical equipment to draw power directly on the positive and negative poles of the battery.
- It is forbidden to wire electrical equipment close to the surrounding area of the battery.
- The installation of electrical equipment must be more than 300mm away from EFI ECU, relay combination, and PKE controller.
- Unauthorized line breaking, modification, and installation positions do not meet the requirements, and the consequences caused by them shall be borne by consumers.
- The total power of external electrical equipment shall not exceed 60W; Do not use spotlights when idling.

# Troubleshooting

## Fuse position

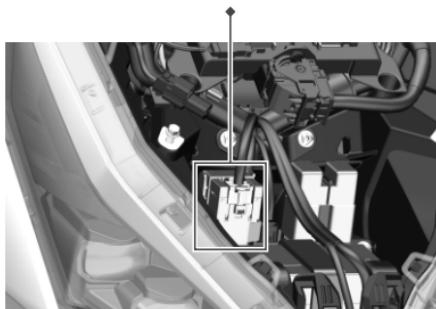
The fuse is located under the left tank quick-release and is visible when the two expansion pegs are removed.



Fuse

The starter relay is located under the hood, which can be seen by removing the hood with reference to the gel battery.

Start the relay



## Fuse

The main fuse and a spare fuse are located on the starting relay, ECM fuse, normal power supply fuse, ABS motor fuse, ABS ECU fuse, oil pump fuse, starting fuse, ABS fuse, auxiliary fuse, other fuses and four spare fuses are located in the fuse box.

- The main fuse protects all circuits.
- ECM fuses protect electrical devices such as ECM, ECM relays, and oil pump relays.
- Constant power supply insurance protection fan, instrument, immobilizer connector.
- ABS motor fuse protects ABS motor.
- ABS ECU fuse protects ABS ECU.
- Oil pump fuse protects oil pump circuit.
- Start the fuse to protect the starting circuit.
- ABS fuse protects ABS controller.
- Auxiliary fuse protection auxiliary components (position lights, turn signals, tail lights, brake lights, license plate lights, horns, overtaking lamp).
- Other fuses protect the off-hand handle switch(except faucet lock switches), meters, windshields, immobilizer joints).

## ⚠ DANGER

- Do not use other fuses other than the specified specifications or direct lap joints. Failure to do so can have a serious impact on the electrical system, and can even cause a fire or burn the vehicle and lose engine power, which is very dangerous.

## ⚠ ATTENTION

- Pay attention to the selection of fuses with specified rated currents. Do not use substitutes such as aluminium or iron wire. If the fuse is frequently blown for a short period of time, the electrical system is faulty. The maintenance unit should be overhauled immediately.

# Troubleshooting

## Troubleshooting

Troubleshooting content can help you find the cause of common problems.

### ⚠ WARNING

- Improper maintenance and adjustment may damage the motorcycle without determining the cause of the malfunction. Such damage is not covered by the warranty. If you are not sure how to operate correctly, please consult our maintenance department.
- Before troubleshooting, consult our maintenance department. The maintenance department will try to solve the problem for you. If the engine cannot start, follow the following inspection to determine the cause.

### Fuel system inspection

If the instrument panel engine fault indicator lights up, it means there is a problem with the fuel injection system. Send the motorcycle to our maintenance department.

### Lack of engine power

When the engine power drops significantly or the maximum speed drops significantly compared to the original, it may be that the fuel system is blocked and the engine is not working properly. Please immediately go to the maintenance unit of our dealer for inspection.

### ⚠ DANGER

- Do not use other fuses other than the specified specifications or direct lap joints. Failure to do so can have a serious impact on the electrical system, and can even cause a fire or burn the vehicle and lose engine power, which is very dangerous.

### Engine not working

The engine starts successfully. During operation, if the orange EFI fault signal light comes on, indicating an EFI fault, it means that there is something wrong with the EFI system. Please contact our after-sales store to check the EFI system.

### ⚠ WARNING

- Fuel system blockage may be caused by unclean gasoline and other reasons.
- For new vehicles or vehicles that have run out of fuel, please do not turn on the shutdown switch. Be sure to turn on the shutdown switch after refueling, otherwise the fuel pump will run idle without oil, which will seriously affect the life of the fuel pump.

## Catalyst

Catalysts can effectively reduce the pollutants emitted by your vehicle and protect the environment we depend on for survival; since the life of the catalyst is designed under the premise that the vehicle normally uses unleaded gasoline, it is forbidden to use leaded gasoline in your motorcycle, because lead will make the reduction components of the catalyst conversion system ineffective. The normal operation of the engine is also very important to the catalyst. If the engine is not effectively ignited or there is no sufficient heat dissipation for a long time, the exhaust gas will gather and burn at the catalyst, causing the catalyst to overheat, which will permanently damage the catalyst's conversion ability. It is forbidden to maintain the engine at a high speed for a long time.

## Carbon deposit cleaning

To minimize carbon deposits, the following recommendations are made:

1. If the vehicle is ridden for a long time at short distances or for a long time at less than 5,000 rpm, it is recommended to clean the carbon deposits every 5,000 kilometers or every 6 months. If the vehicle is often ridden at more than 5,000 rpm and the vehicle is fully warmed up, the cleaning mileage can be extended to every 10,000 kilometers or every 12 months.

2. If the vehicle has difficulty starting, remove the spark plug and clean it in time, and perform the cylinder cleaning procedure: squeeze the rear brake handle, fully open the accelerator and hold it for 3 seconds, then press the start button for 3 seconds.

**There are several ways to clean carbon deposits:**

1. Scavenging to clean carbon deposits. During riding, when conditions permit, increase the throttle appropriately to increase the engine speed to above 7000, and ride for a cumulative total of no less than 2 minutes. This can effectively clean the carbon deposits through high-speed scavenging.

## Troubleshooting

2. Use a regular big brand fuel saver to clean carbon deposits and add it according to the instructions. However, frequent use is not recommended, as frequent use may cause damage to the fuel supply pipeline.

3. Use throttle body cleaning agent to clean carbon deposits. Remove the stepper motor from the throttle body. Do not remove other sensors by yourself, otherwise it will cause abnormal vehicle idling. If you need to disassemble and troubleshoot, please contact after-sales guidance. Spray a small amount of throttle body cleaning agent inside the throttle body and around the valve plate, and use a clean rag to clean the carbon deposits on the head of the stepper motor.

## EFI Precautions

1. Before installing the battery on a new vehicle, check that the wiring harness connectors of the electronic fuel injection components are firmly and reliably connected, including that the oxygen sensor is installed and gasoline is added.

2. When installing the battery, you need to use tools to firmly install the positive and negative poles of the cable on the positive and negative poles of the battery respectively. Do not tighten it by hand.

3. Please keep the fuel in the tank at least 3 liters, otherwise it will affect the normal operation of the electronic fuel injection system. Please refill the fuel as soon as possible when the fuel level is 1 bar.

4. When reinstalling the battery, starting or riding the vehicle with power failure, battery sleep restart, abnormal idling, replugging the fuse and other similar situations, please pay attention to the reset of the individual hardware of the electronic injection. The steps are: open the electric door lock and the engine shutdown switch, support the main bracket and squeeze the brake, start the engine and refuel to more than 3000rpm, release the accelerator and then close the shutdown switch and electric door lock, and power on after 5s.

5. If the vehicle has been stationary for a long time (parking time is greater than 3 hours), please ensure that the fuel pump has completed pressure accumulation before starting it for the first time (that is, power on the vehicle, turn on the shutdown switch, and wait until the humming sound in the fuel tank stops) before starting it.

6. If the engine still cannot be started after repeated attempts, the cylinder may be flooded. Perform the cylinder cleaning procedure: fully open the throttle and press the start button for 3 seconds.

7. If the battery voltage on the instrument flashes, it means the battery voltage is too low. Please charge the battery in time. Too low a voltage may cause the electronic fuel injection components to not work properly, or the components to be unable to start or to start with difficulty, or insufficient power, etc.

### DANGER

• For new vehicles or vehicles that have run out of fuel, please do not turn on the shutdown switch. Be sure to turn on the shutdown switch after refueling, otherwise the fuel pump will run idle without oil, which will seriously affect the life of the fuel pump.

# Troubleshooting

## ⚠ WARNING

- Do not plug or unplug the cable plugs of various components at will, and do not clean the cable plugs of the EFI components with water.

## ⚠ ATTENTION

- The fault light does not light up during engine operation, but flashes after the engine is turned off. This is a historical fault and has no impact on the entire vehicle. It will disappear on its own later.

## ⚠ ATTENTION

- During engine operation, the fault light is not on, and the fault light flashes after the ignition is turned off, which is a historical fault and has no impact on the whole vehicle, and will disappear by itself in the future.

1. During the operation of the engine, if the EFI fault indicator of the instrument is on, it indicates that there is a fault in the EFI parts that needs to be eliminated.

You can directly read the fault code the fault information page in the instrument menu, or read the fault code in the ZONTES intelligent APP.



ZONTES intelligent APP QR code

## Instrument fault light off conditions:

- Manually clear historical faults and reset the ECU: Power on the vehicle and turn the ignition switch on and off for more than five times (on-off counts as one time). If the ignition switch is turned on and the fault light does not light up, it means that the ECU reset is successful.
- Use the diagnostic instrument to clear the fault code: After the vehicle is powered on, remove the right panel, connect the diagnostic instrument to the diagnostic interface in the storage box, and clear the fault code according to the operating steps of the diagnostic instrument.

## ⚠ WARNING

- The fault light is not on during engine operation, but flashes after the engine is turned off. This is a historical fault and has no impact on the vehicle. It will disappear automatically in the future.

# Troubleshooting

## Fault codes

SN	Fault codes	Fault code description
1	P0030	Oxygen Sensor Heater Control Circuit Open Bank 1 Sensor 1
2	P0031	Oxygen Sensor Heater Control Circuit Low Bank 1 Sensor 1
3	P0032	Oxygen Sensor Heater Control Circuit High Bank 1 Sensor 1
4	P0038	Oxygen Sensor Heater Control Circuit High Bank 1 Sensor 2
5	P0037	Oxygen Sensor Heater Control Circuit Low Bank 1 Sensor 2
6	P0036	Oxygen Sensor Heater Control Circuit Open Bank 1 Sensor 2
7	P0053	Oxygen Sensor Heater Resistance Bank 1 Sensor 1
8	P0054	Oxygen Sensor Heater Resistance Bank 1 Sensor 2
9	P0130	O2 Sensor Signal Circuit Shorted to Heater Circuit Bank 1 Sensor 1
10	P0131	Oxygen Sensor Circuit Low Voltage Bank 1 Sensor 1
11	P0132	Oxygen Sensor Circuit High Voltage Bank 1 Sensor 1
12	P0134	Oxygen Sensor Circuit No Activity Detected Bank 1 Sensor 1
13	P0133	Oxygen Sensor Circuit Slow Response Bank 1 Sensor 1
14	P0138	Oxygen Sensor Circuit High Voltage Bank 1 Sensor 2
15	P0137	Oxygen Sensor Circuit High Voltage Bank 1 Sensor 2
16	P0136	Oxygen Sensor Circuit Low Voltage Bank 1 Sensor 2
17	P2232	Oxygen Sensor Signal Circuit Shorted to Heater Circuit Bank 1 Sensor 2
18	P0420	Catalyst System Efficiency Below Threshold Bank 1
19	P0122	Throttle/Pedal Position Sensor/Switch "A" Circuit Low
20	P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High
21	P0105	Manifold Absolute Pressure/Barometric Pressure Circuit
22	P0106	Manifold Absolute Pressure Sensor Circuit Range/Performance
23	P0107	Manifold Absolute Pressure Sensor Circuit Low
24	P0108	Manifold Absolute Pressure Sensor Circuit High
25	P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance Bank 1
26	P0112	Intake Air Temperature Sensor 1 Circuit Low Bank 1
27	P0113	Intake Air Temperature Sensor 1 Circuit High Bank 1

## Fault codes

SN	Fault codes	Fault code description
28	P0116	Engine Coolant Temperature Sensor 1 Circuit Range/Performance
29	P0117	Engine Coolant Temperature Sensor 1 Circuit Low
30	P0118	Oxygen Sensor Heater Control Circuit High Bank 1 Sensor 2
31	P0119	Oxygen Sensor Heater Control Circuit Low Bank 1 Sensor 2
32	P0201	Oxygen Sensor Heater Control Circuit Open Bank 1 Sensor 2
33	P0261	Oxygen Sensor Heater Resistance Bank 1 Sensor 1
34	P0262	Oxygen Sensor Heater Resistance Bank 1 Sensor 2
35	P2300	O2 Sensor Signal Circuit Shorted to Heater Circuit Bank 1 Sensor 1
36	P0301	Oxygen Sensor Circuit Low Voltage Bank 1 Sensor 1
37	P0322	Ignition/Distributor Engine Speed Input Circuit No Signal
38	P0444	Evaporative Emission System Purge Control Valve Circuit Open
39	P0458	Evaporative Emission System Purge Control Valve Circuit Low
40	P0459	Evaporative Emission System Purge Control Valve Circuit High
41	P0480	Electric Fan Output Stage A Open
42	P0691	Electric Fan Output Stage A Low
43	P0692	Electric Fan Output Stage A High
44	P0627	Fuel Pump "A" Control Circuit Open
45	P0628	Fuel Pump "A" Control Circuit Low
46	P0629	Fuel Pump "A" Control Circuit High
47	P1098	DUMP Control Circuit Low
48	P1099	DUMP Control Circuit High
49	P0508	Idle Air Control System Circuit Low
50	P0509	Idle Air Control System Circuit High
50	P0511	Idle Air Control System Circuit Open
52	P0650	MIL Control Circuit Open
53	P0563	System Voltage High Voltage

# Maintenance and storage

## Storage

### Storage

If your motorcycle is not in use for a period of time and requires special maintenance, this requires some special materials, equipment, and technology. For the above reasons, it is recommended that you choose our company's maintenance unit to complete these maintenance work.

### Motorcycle

Wash your motorcycle thoroughly. Park your motorcycle with a side parking rack and park it on flat ground. Turn the handlebar to the left, press and hold the red power-on button on the handlebar, the whole vehicle will be powered off, and the front lock will be automatically locked.

### Fuel oil

The fuel from the fuel tank is discharged into the container by siphon or other suitable method.

### Engine

1. Remove the spark plugs, pour a tablespoon of new oil into each spark plug hole, reinstall the spark plugs, and allow the engine crankshaft to spin a few times.
2. Drain the oil thoroughly and add the new oil.
3. Cover the air intake of the air filter and the exhaust of the muffler with a rag containing new oil to prevent moisture from entering.

### Battery

1. Refer to the section on batteries to remove the battery.
2. Clean the surface of the battery with neutral soapy water and remove rust from the terminals and wiring joints.
3. Store the battery indoors above zero degrees Celsius.

### Maintenance

Please use our company exclusive charger to charge the battery every three months.

### Tire

Adjust the tire pressure to the specified air pressure.

### Motorcycle

1. Spray the rubber protectant on the surface of the resin and rubber parts.
2. Spray anti-rust paint on the surface of the part without surface treatment.
3. Apply the painted surface with automotive wax.

## Re-enable the method

### Re-enable the method

- Clean the motorcycle thoroughly.
- Wipe to remove the air filter inlet and muffler exhaust port.
- Drain the engine oil. According to the relevant content of this user manual, replace the oil filter and add new engine oil.
- Remove the spark plug. Let the engine turn a few times. Reinstall the spark plugs.
- Reinstall the battery by referring to the section on batteries.
- Confirm the motorcycle is lubricated normally.
- Perform the inspection in accordance with the section on pre-driving inspection in this user manual.
- Start the motorcycle according to the relevant contents of this user manual.

### Prevent corrosion

It is important to take good care of the motorcycle and avoid rust so that it will look like a new motorcycle after many years.

### Key points for preventing corrosion

Factors that lead to rust damage: accumulation of salt, dirt, moisture, chemicals on salty roads. The surface of the painted part is damaged by small stones or gravel, or scratched by bumps. Salty roads, sea breezes, industrial pollution, and high humidity can all contribute to corrosion.

### How to prevent rust

1.Clean your motorcycle at least once a month. Try to keep your vehicle clean and dry.

2.Remove dirt from the surface of the motorcycle. Substances such as salt, chemicals, asphalt, tree sap, bird droppings, and industrial emissions from salty roads can damage your motorcycle. Remove these contaminants as soon as possible. If it is difficult to clean with water, clean it with a detergent. The detergent must be used in accordance with the detergent product requirements.

3.Clean up the damage to the motorcycle as soon as possible. Carefully inspect the surface of the motorcycle's painted parts for damage. If you find any burrs or scratches, repair them immediately to avoid further damage. If burrs and scratches run through the entire surface of the part, please have it repaired by a repair unit designated by the company.

4.Keep the motorcycle in a dry, ventilated place. If you often wash your motorbike in the garage and you park inside, the garage can get wet. High humidity increases rust. If the air is not circulated, wet motorcycles can rust even in hot environments.

# Maintenance and storage

5.Cover the motorcycle. Avoid the noon sun on the motorcycle, if it is exposed to the paint, plastic parts will be discolored, and the instrument will fade. The use of a high-quality, breathable cover protects the motorcycle from ultraviolet rays in the sun and reduces the deposition of dirt and air pollution on the motorcycle. Our dealers can help you choose the right cover for your motorcycle.

## Clean the motorcycle

**Please follow the instructions below to clean your motorcycle:**

1.Wash away dirt and mud from the surface of the motorcycle with cold water. You can clean it with a soft sponge or a soft brush, using other materials will scratch the exterior parts. 2.Wash your motorcycle thoroughly with a mild detergent or car soap, gauze or soft cloth. Gauze or soft cloth should be soaked frequently with the cleaning agent. If you have used your motorcycle on a salty road or near the sea, wash it with cold water immediately after use. Be sure to use cold water, which will accelerate corrosion.

### **WARNING**

- Avoid spray cleaning and avoid water flowing to the following locations: ignition switches, spark plugs, fuel tank caps, fuel injection systems, brake fluid cylinders.
- Do not use high-pressure water to clean the motorcycle, throttle body and injectors, and water tank.

3.After cleaning the dirt on the surface of the motorcycle, rinse off the residual cleaning agent with running water.

4.After rinsing, wipe the motorcycle clean with a damp soft skin or cloth and place it in a cool place to dry.

6.Carefully inspect the painted surface for damage. If there is any damage, repair the damaged surface with repair material as follows:

- Wash the damaged area and let it dry.
- Wash the damaged area and let it dry.
- Dry the repaired place thoroughly.

7.Regularly inspect the surface of the small tank for cleanliness, if it indicates a significant build-up, you need to clean the surface with cold water and a soft brush. Be careful not to damage the surface heat sink.

## ⚠ ATTENTION

•After washing the motorcycle or driving after rain, water mist will appear in the headlights. Turn on the headlights and the water mist will gradually dissipate. Start the engine to supply power to the headlights, remove the water mist, and avoid over-discharging the battery.

## ⚠ WARNING

•Do not use alkaline or acidic cleaning agents to clean motorcycles, and do not use gasoline, brake fluid or other solvents that will damage motorcycles. Wash only with a soft cloth and warm water with a mild detergent.

## ⚠ WARNING

•Motorcycle cover paint surface avoid cleaning with the following cleaning agents.

•Engine surface cleaning agent (head water), range hood washing liquid, bathroom cleaning agent, carburetor cleaning agent, chain cleaning agent, cleaning products containing bleaching ingredients, try to avoid contact with disc brake oil, strong acid, strong alkali, to avoid corrosion.

## Wax the motorcycle

- After cleaning, waxing and polishing is recommended, which can not only protect the parts, but also make the parts more beautiful.
- Use high-quality car wax and polish.
- When using car wax and polish, pay attention to the precautions for the use of car wax and polish products.

## Inspection after cleaning

In order to prolong the service life of the motorcycle, lubricate the motorcycle according to the section on lubrication.

## ⚠ DANGER

It is very dangerous to drive a motorcycle when the brakes are wet. Wet brakes don't provide the stopping power that dry brakes do. This can be unexpected. After washing the motorcycle, test the braking system at low speed. If needed, operate the brakes a few times to allow the brake pads to dry.

## Transportation

The fuel must be drained before transporting the motorcycle. Fuel is extremely flammable and can cause explosions under certain conditions. When draining, storing or refilling fuel, open flames are strictly prohibited and the operation must be performed in a well-ventilated place after the engine is stopped. The order of draining fuel is as follows.

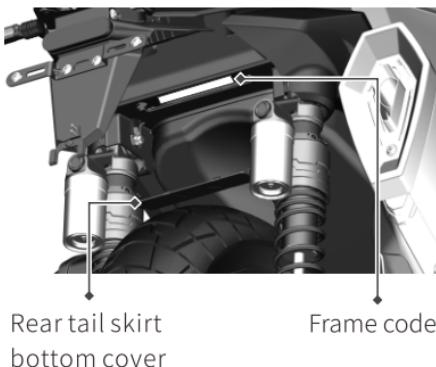
1. Stop the engine and turn off the electric door lock switch.
2. Use siphoning or other appropriate methods to drain the fuel in the fuel tank into a suitable container.

### **WARNING**

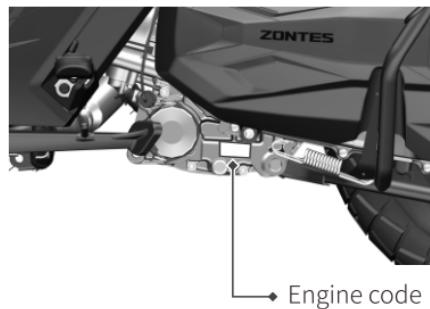
- When transporting a motorcycle, be sure to drain all the fuel from the fuel tank. Transport the motorcycle in normal driving condition to prevent fuel leakage.

## Number

The frame and engine codes are unique and are used to identify your motorcycle and are required when registering your motorcycle. When ordering spare parts or entrusting special services, this number enables the dealer to provide you with a better service. Please record these numbers and keep them in a safe place.

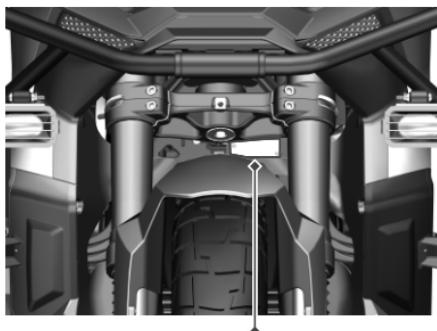


Remove the bottom cover of the rear tail skirt to reveal the frame size.



## Nameplate

Nameplate is fixed at the bottom of the front of the frame.



# Specification sheet

## Dimensions and curb weight

length	2230mm
Width	925mm
Height	1370/1470mm
Wheelbase	1560mm
Ground clearance	180mm (High version) 155mm (short version)
Seat height	795mm (High version) 770mm (short version)
Whole motorcycle dry mass	191kg
Curb weight of the whole motorcycle	203kg

## Crane system

Steering angle	37°
Tire specifications	
Front tire	110/70-17
Rear tire	150/70-14
Ignition method of electrical system	Inductive discharge type
Spark plug model	LMAR8A-9
Battery specifications	12V, 12Ah
Fuse specifications	10A/15A/25A

## Engine

Single-cylinder, horizontal, four-stroke, water-cooled, 368cc	
Cylinder number	1
Cylinder diameter	79mm
Stroke	75mm
Displacement	368
Compression ratio	11.8:1
Start mode	Electric start
Lubrication method	Pressure splash
Power	28.5kW
Clutch	Dry, automatic centrifugation
Gearbox	Automatic infinitely variable gear
Primary gear ratio	0.73-2.5
Final gear ratio	7.471
Drive form	Belt driven
Economical fuel consumption	3.5L/100km
Top speed	129km/h

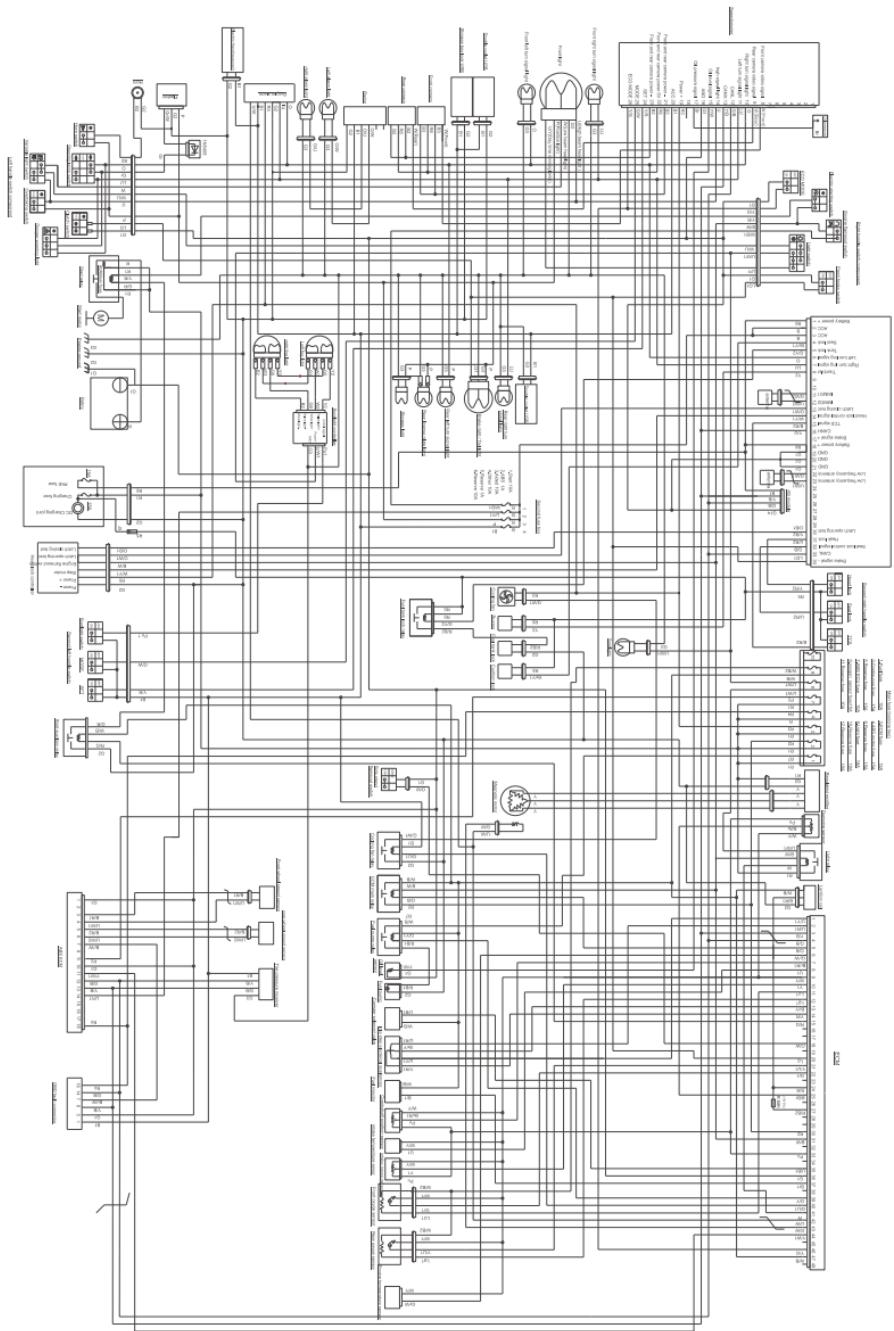
## Luminaire power

Low beam	17W/12V
High beam	24W/12V
Front position lights	3.4W/12V
Front turn signal	2.2W/12V
Rear position lights	1.8W/12V
Brake lights	6.3W/12V
Rear license plate lights	0.4W/12V
Rear turn signal	2.2W/12V
Front fog lights	21W/12V

## Volume

Fuel tank effective volume	17.5L
Engine oil capacity	2000mL
When the engine changes the oil regularly and the oil filter is changed at the same time	1750mL
When the engine is regularly, changed with oil and the oil filter is not changed	1550mL
Gearbox oil capacity	230mL
The gearbox is replaced regularly	200mL

# ZT368T-G CIRCUIT schematic English version





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