

## Preface

Thank you for purchasing a LETEN motorcycle. This motorcycle combines LETEN's advanced engineering design, has been rigorously tested, and reflects LETEN's ongoing efforts to achieve excellent reliability, safety and performance. Please read this manual carefully before driving to fully understand the proper operation and limitations of the motorcycle's control systems and features. While this manual contains essential safety guidelines, it is not intended to provide technical or skill-based instruction for safe riding. LETEN strongly recommends that riders complete motorcycle operator training programs to meet the psychological and physical requirements required for safe operation.

To ensure extended motorcycle lifespan and reliability, proper maintenance as outlined in this manual is essential. Owners seeking detailed guidance on LETEN motorcycles may obtain the service manual from any authorized dealer. The manual provides comprehensive disassembly and maintenance instructions. For self-repairing owners, it's crucial to have a certified mechanic with specialized tools specified in the manual.

Keep this instruction manual on the motorcycle in case you need to refer to it.

This instruction manual shall be considered part of the motorcycle and shall be provided with the motorcycle at the time of sale.

All rights reserved. No part of this publication may be reproduced without prior written consent. This publication contains the latest information at the time of printing. However, as products are constantly improved, we cannot guarantee that your instruction manual will apply to the latest products. In this case, please ask your product distributor for the latest instructions.

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## **XII. Introduction of accessories and oil**

■ The following warning signs appear in this manual. When you see the following warning signs, please follow these safety driving and maintenance procedures.

 Hazard This symbol indicates a potential hazard that may cause serious injury or death.

 Warning This symbol indicates that it may cause damage to the vehicle.

 Note This symbol illustrates more effective and convenient driving points

 **D a n g e r**

This product is only suitable for people with similar vehicle driving license to drive this vehicle reasonably and carefully. Note the following matters:

Illegal modification of this vehicle is strictly prohibited;

Users must comply with local laws and regulations;

Modification of this product's devices or electrical components will affect noise, emissions and vehicle performance.

Due to the improvement of the vehicle, the actual condition of the vehicle may not be completely consistent with this manual. Please take the actual vehicle as the standard. Any change will not be notified in advance.

## Loading, Accessories and Modification Information

You can obtain the genuine parts, accessories and other products that have been authorized for use from the authorized distributor, and a professional will show you how to install and use them.

Always use LETEN original parts and accessories approved by us. If you choose non-LETEN original parts, improper installation accessories or improper loading, it will affect the performance of the vehicle and even cause violations of regulatory requirements. Please note that you must be responsible for your own safety and the safety of others.

### PAY ATTENTION TO

- All components and accessories included with this vehicle have passed rigorous safety, practicality, and compatibility certifications. We take full responsibility for these certified products, but do not guarantee the functionality of unauthorized parts or accessories. That's why we strongly recommend using LETEN original factory parts and installing only those approved accessories.
- Whenever you plan to replace a component, comply with all legal requirements. Ensure that your motorcycle does not violate national laws, regulations and specifications for road vehicles and their use.

### DANGER

Weight, number of passengers and installation accessories.

- Incorrect loading or inappropriate modification of the vehicle, inappropriate installation of accessories or improper maintenance can cause safety hazards; before driving, please make sure that the vehicle is not overloaded and comply with these instructions.
- Unauthorized modification of electronic control system and other performance components will lead to motorcycle damage and accidents.

The change of motorcycle weight has great influence on the dynamic performance of the whole vehicle, so you must accept the load weight, the number of passengers and the installation accessories specified by us.

Weight, number of passengers and installation accessories.

## Pre-driving checks

Failure to perform proper pre-motorcycle inspections increases the risk of accidents and damage. Please check the following:

### ➤ Steering system

-Steering, steering, no jamming.

-The steering column does not move or loosen.

### ➤ Throttle

-The throttle cable clearance is correct.

-The throttle operation is smooth and no sticking.

### ➤ Arrester

-The control handle can be operated normally.

-brake fluid in the correct position of the brake oil cup.

-The pressure point is clear during braking.

-Brake disc and friction pad are free from water stain and oil stain.

### ➤ Shock absorber

-Press can be smoothly returned to position.

### ➤ Tyre

-Tire pressure is correct.

-Tire tread depth is not excessively worn.

-No cracks or wounds on the tread.

### ➤ Motor oil

-The oil level is correct.

### ➤ Coolant passage

-The coolant is in the correct position.

-No coolant leakage.

### ➤ The light of a lamp

-Headlights/ front position lights, taillights/ brake lights, turn signals, license plates can be normally lit.

### ➤ Pilot lamp

-Turn the high beam and turn signal with the handle. Both instrument indicators should work properly.

-Engine fault indicator light, water temperature alarm light, no flashing or constant light after engine start.

➤ Suona

- normal function.

➤ Side stand

-Can be normally retracted.

➤ Rearview mirror

-Sitting on the vehicle, keep the vehicle vertical, and clearly observe objects within a 4m range of the rear end of the vehicle from the rearview mirror at 10m away.

-If not, adjust the rearview mirror Angle.

## Driving Precautions

1. All riders must fully understand the unique requirements of motorcycle operation. Improper riding positions—such as excessive body displacement from the vehicle's centerline during motion or sudden movements—may compromise control. Riders should maintain stable positioning without interfering with the driver's maneuvers. Additionally, animals are strictly prohibited from being carried on motorcycles.
2. To reduce the impact on the motorcycle's center of gravity, all luggage carried on the motorcycle must be as low as possible; the weight of the luggage must also be evenly distributed on both sides of the motorcycle. The luggage should not extend too far out from the back of the motorcycle.
3. The luggage must be securely fastened to the motorcycle. Before driving, make sure that the luggage is securely fastened and that it cannot be moved. If the luggage feels unstable while driving, check its fastening again and adjust it if necessary.
4. Do not carry excessive or bulky luggage. Overloading will inevitably affect handling and power performance.
5. Do not install accessories or carry luggage that reduces motorcycle performance. Ensure that all modifications do not affect any light system, ground clearance, braking performance, lean angle, handling performance, tire compression stroke, front fork working stroke, or other related motorcycle driving performance.
6. Weight on the handlebars or front fork will affect steering performance and can cause unsafe driving factors.
7. The fairing, windshield, backrest and other large components will affect the stability and handling of the motorcycle, they not only add weight, but also reduce power performance when the motorcycle is moving. The installation of large components that lack design verification may affect driving safety.

8. This vehicle can not be modified into a side three-wheeled motorcycle, and can not be used to tow trailers or other vehicles. We will not be held responsible for any damage or injury caused by the user's own modification of this vehicle.

Maximum load: not more than 150Kg (including driver, luggage and accessories).

## Road Traffic

- Get on the bus from the left and sit cross-legged on the seat cushion.
- Close the side bracket, pinch the control handle, press the start button, and start the vehicle.
- Adjust the motorcycle vertically to the ground and straighten the direction to keep the wheels forward.
- Slowly turn the throttle control lever towards acceleration and the motorcycle starts to move.
- You must wear a helmet, gloves, riding boots, motorcycle-specific protective clothing and long pants before driving. These are also necessary for short rides.
- If you are riding fast, be aware that the following factors will adversely affect your handling.
  - Loose clothing.
  - Overweight and unbalanced loads will have a detrimental effect on your driving handling.

Even a small amount of alcohol or some drugs that affect the nerves can adversely affect your perception and reaction. Do not drive a motorcycle after drinking or taking drugs that affect the nerves.



PAY ATTENTION TO

The motorcycle is equipped with a side bracket off fire switch. When the side bracket is lowered,

the engine shuts off immediately.

 DANGER

Before the vehicle starts, make sure that the side bracket is retracted to the upper limit position, otherwise the side bracket may touch the ground and cause the car to crash when turning left.

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## Braking and Parking

- When braking, reduce speed by returning the oil first and using front and rear brakes.
- When the speed is low enough, the brake stops completely.
- Front brake When braking, because the body leans forward and the front shock absorber is pressed down, more of the weight of the vehicle will be transferred to the front wheel in an instant, so the braking of the front wheel will be more reliable, so when using the brake, the braking force of the front brake is greater than that of the rear brake, making it easier for the vehicle to stop.
- Disc brakes will be wet and reduce braking performance when driving in water, rain, or after washing the car. It is recommended to ride when dry.



## warn

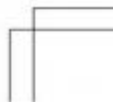
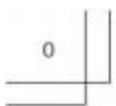
- After a long time of driving, when you need to stop, because the engine and muffler temperature is very high, please pay attention to park the vehicle in a place that children can not reach, so as to prevent children from touching the engine or muffler, and be scalded.
- Do not park the vehicle on soft ground to prevent the vehicle from overturning and damaging the vehicle.
- If the motorcycle is parked on a gentle slope, let the front of the car face the uphill side to avoid the side bracket turning and causing the car to roll over.
- Do not park or drive the vehicle on flammable materials, such as hay, grass, cardboard, etc. The three-way catalyst in the muffler works at a high temperature, which is easy to ignite these flammable objects and cause danger.

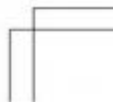
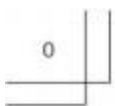
### III. Main Technical Parameters

Vehicle parameters	
Length x Width x Height	2055mm×845mm×1140mm
Wheel base	1340mm
seat height	790mm
Ground clearance	186mm
Mass of vehicle in running order	149Kg
Mass of vehicle in running order, together with rider	224Kg
Maximum technically permissible mass declared by the manufacturer	299Kg
Front:	99Kg
Rear:	200Kg
Maximum design speed	114Km/h
Maximum gradability	≥20%
Brake ratio	Follow R78

engine system	
Engine type	Single cylinder/ four stroke/ water cooled/ DOHC/ four valves
Cylinder diameter × stroke	63.5×59.4mm
displacement	188ml
reduction ratio	11.3:1
Intake valve clearance	( 0.10~0.15 ) mm
Exhaust valve clearance	( 0.20~0.25 ) mm
spark plug gap	0.7mm~0.9mm
Spark plug model	CR8E NGK
Maximum net power/revolutions	14kW/8250rpm
Maximum torque/revolutions	16.5N ·m/6500rpm
idling speed	( 1500±100 ) r/min

Fuel consumption	≤2. 5L/100Km (WMTC working condition)
Fuel tank capacity	9L
Coolant capacity	1.15L
<b>Suspension/Braking system</b>	
Former shock absorber type	Hydraulic damping type
Post-resistance type	Spring shock absorber (high airbag shock absorber)
Front rim specifications	MT2.15X17
Rear wheel rim specifications	MT2.50X17
Previous tire specifications	90/90-17M/C 49S
Latter tyre specifications	110/80-17M/C 57P
Former braking type	Single disc, double piston, floating clamp, floating disc/pan diameter 260 m
Late braking type	Single disc, double piston, floating clamp, fixed plate/plate diameter 220m
ABS	Dual-channel anti-lock braking system

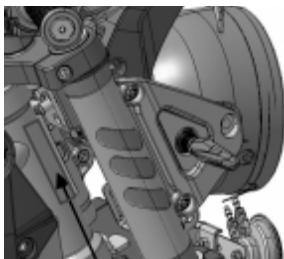




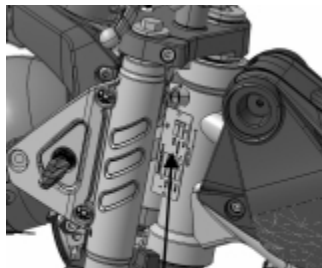
## IV. MOTORCYCLE STRUCTURE

### Vehicle Identification

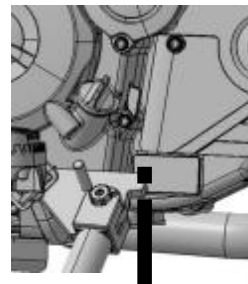
Vehicle identification code (VIN) and vehicle product label engine model and factory number



Vehicle Identification Code (VIN)



Vehicle product signage

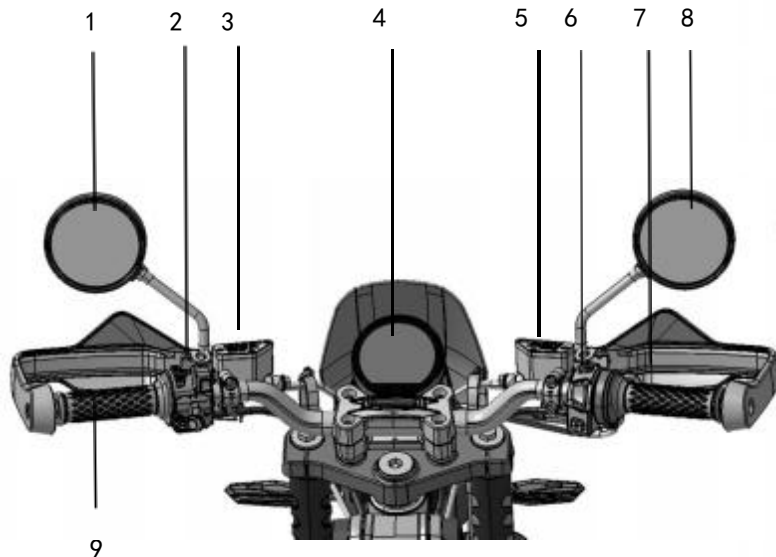


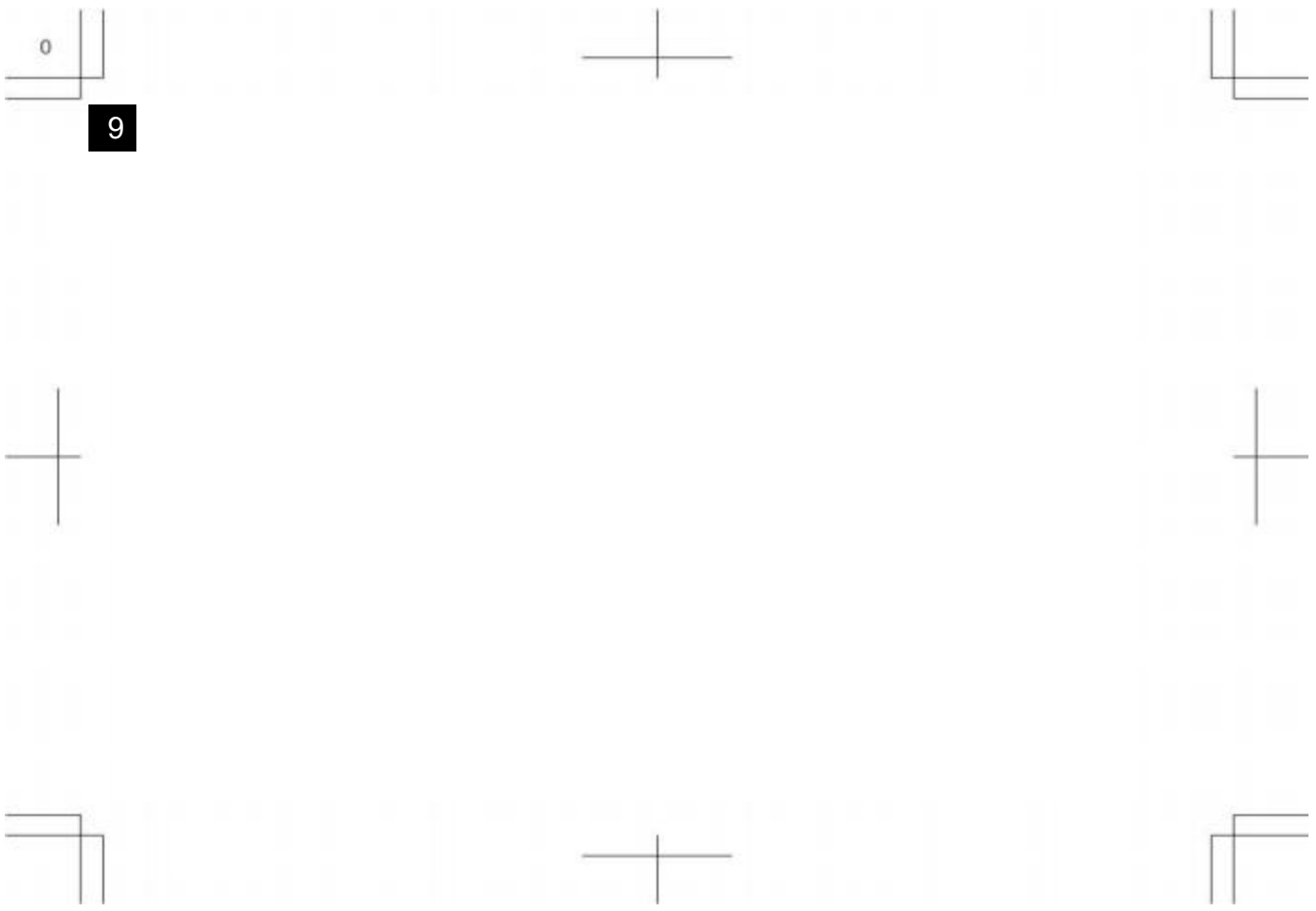
Engine model and factory number



## Vehicle Head

1. Left rearview mirror
2. Left gate switch
3. Back brake fluid cup
4. Instrument
5. Front brake fluid reservoir
6. Right brake handle switch
7. Oiler
8. Right rearview mirror
9. Left hand put





left side of the vehicle

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1. Front seat cushion

2. Back seat

3. Rear taillights

4. Rear registration plate lamp

5. Rear turn signal

6. Left side foot pedal

7. Main support

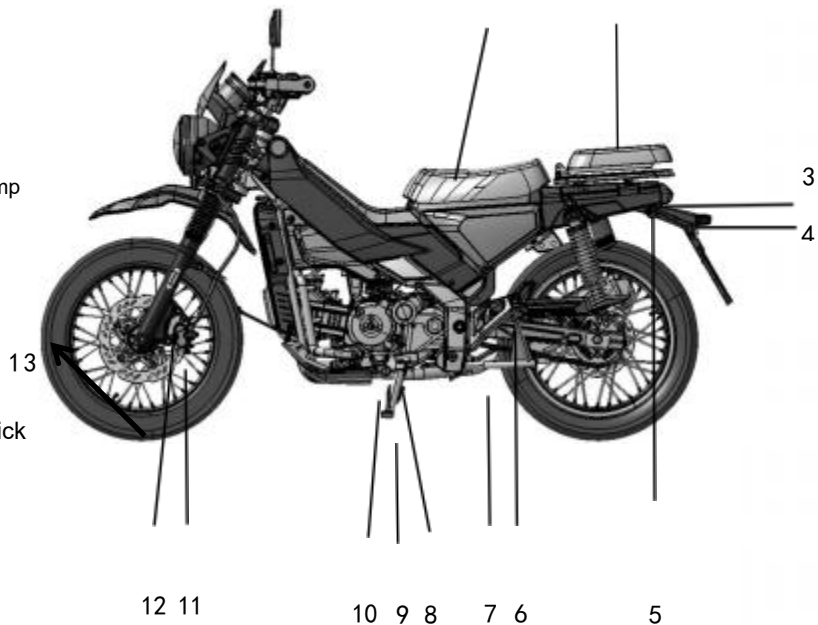
8. Oil filler port and oil dipstick

9. Side stand

10. Left main pedal

11. Front brake pump

12. Left reflector



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13. Front teeth circle

10

## Right Side of Vehicle

1.Rear armrest

2. fuel tank

3. radiator filler

4. Front right turn signal

5. headlamp

6.Lamp, headlight adjustment bracket

7.Right reflector

8.Front brake disc

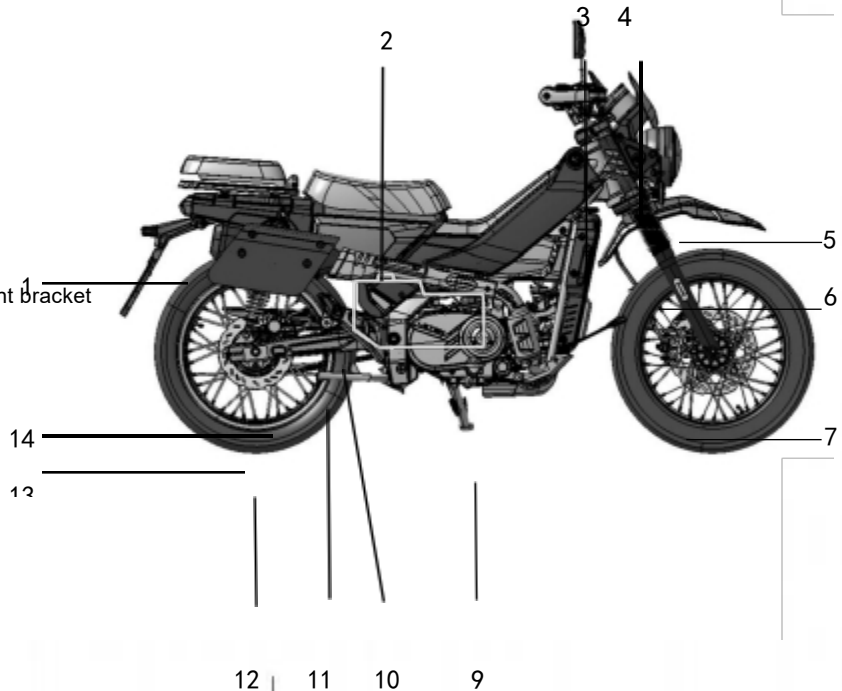
9.Right front pedal

10.muffler

11.Right side foot pedal

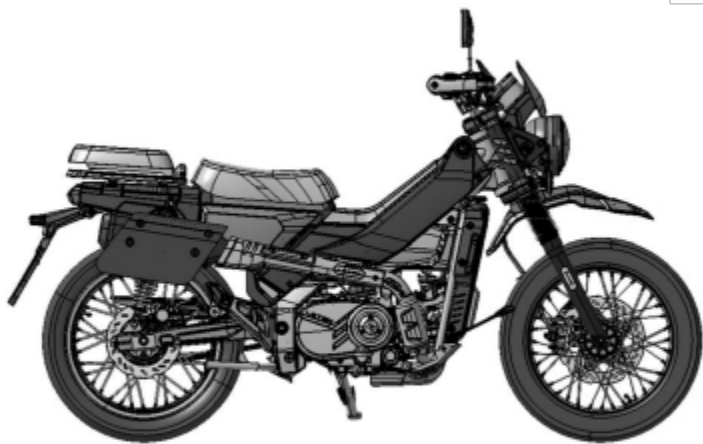
12. Rear disc brake

13.Rear wheel gear ring



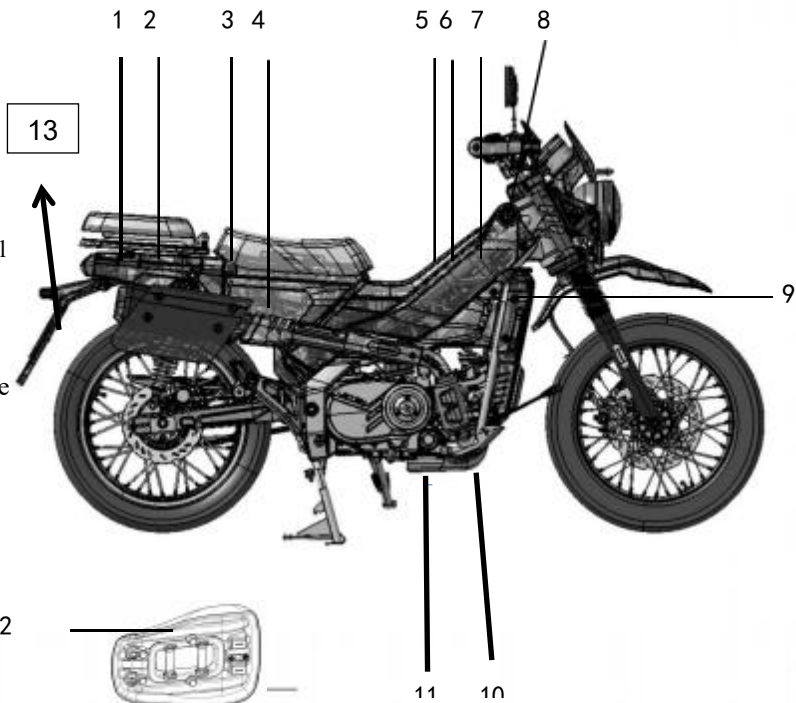
## 14. Rear disc brake lower pump

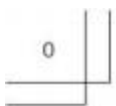
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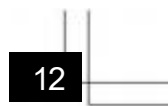
## Under the Seat

1. Pressure regulator
2. Electronic controller ECU
3. Battery, fuse box, OBD interface
4. Starting relay
5. ABS control unit, ignition coil
6. Antenna, Car T-BOX
7. Carbon tank solenoid valve
8. Whole car power button
9. Radiator
10. Lambda sensor
11. Secondary oil filter
12. Kit
13. After reflectors

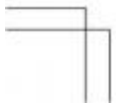




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## V. OPERATIONS

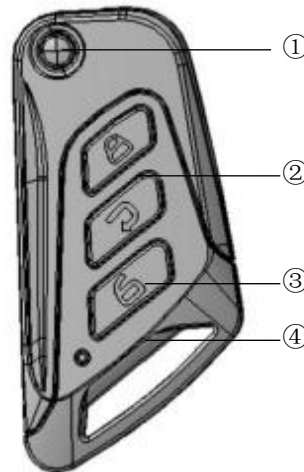
### Full Vehicle Lock

- remote key

The vehicle is equipped with two remote keys. The remote key contains a mechanical key; please keep one of the remote keys separately as a backup.

- Induction mode usage: Remote key is within 1 meter around the low frequency antenna. Press the power button for 5S, and the whole car is powered on and the instrument is initialized. The whole car is turned on without key start state.
- Vehicle start: Fold the side bracket, pinch the brake handle (pinch the front brake handle, pinch the rear brake handle or pinch both), and press the right brake handle start button at the same time to start the engine normally.
- Use of mechanical key: Press the mechanical key button, the mechanical key pops out, insert it into the seat pad lock hole, and rotate clockwise to open the front seat pad; pull out the mechanical key, press the button to fold it back manually.
- Key Functions of Remote Control Key: ① Mechanical Key Activation Button:

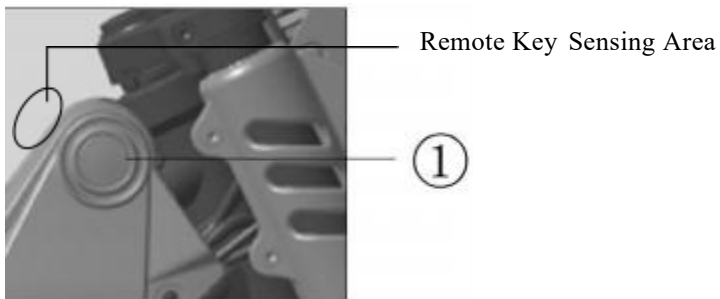
Pressing this button releases the mechanical key, which can be manually retracted by pressing it again. ② Locking Button: Pressing this button locks the front door, causing the turn signal to flash once. ③ Vehicle Search Button: Pressing this button triggers five consecutive flashes of the turn signal. ④ Unlocking Button:



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Pressing this button releases the front door lock, with the turn signal flashing twice. ⑤ Remote Indicator Light:





### ① Whole car electric button:

When the vehicle is not powered on, short press the button to unlock the electronic head lock. When the vehicle is powered on, the backlight of the button is always on.

After the whole vehicle is powered on, short press the button to power off the whole vehicle, and the backlight of the button will be turned off.

After the whole vehicle is powered on, press the button for a long time to power off the whole vehicle. The backlight of the button will be turned off and the electronic front lock will be locked.

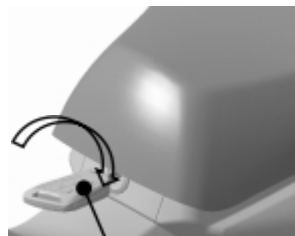
Note: When the remote key is low in power, please replace the battery inside the remote key (battery model 2032) immediately. You can also attach the remote key to the position of the low-frequency antenna. Press the power button of the vehicle to unlock and power on. The sensing unlocking distance is less than 1 meter, and the remote control distance is less than 25 meters

## Open front seat cushion

Insert the key into the seat lock, turn it clockwise, and press gently on the rear end of the seat to open the front seat.

## Close front seat cover

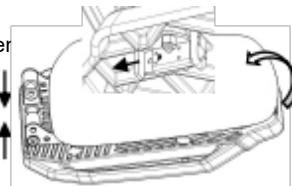
Insert the front end of the seat cushion into the limit groove and press the rear end of the seat cushion. The seat cushion lock tongue is inserted into the seat cushion lock hook. The seat cushion is closed and the key is removed.



Remote Key

## Open the rear seat cushion

- ① Lock the rear seat cushion tongue to the left until the rear seat springs open.
- ② Press the rear seat lock handle in the direction of the arrow and rotate the rear seat counterclockwise until it is locked.



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## Close rear seat cushion

- ① Press the rear seat lock handle in the direction of the arrow until the lock is released, and rotate the rear seat clockwise until it is flat.
- ② Gently press the rear end of the seat cushion until it is locked by the seat cushion lock.



## Open the fuel tank cap:

- Open the front seat cushion;
- Rotate the tank cover counterclockwise until it stops, then remove the tank cover lock to lock:

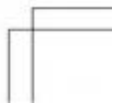
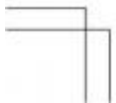
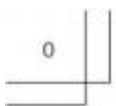
Turn the steering wheel to the far left position. Press the lock button on the remote key to lock the front of the car. The turn signal will flash once.

## Direction lock:

Press the lock button of the remote key, the front lock is locked, the turn signal flashes once.

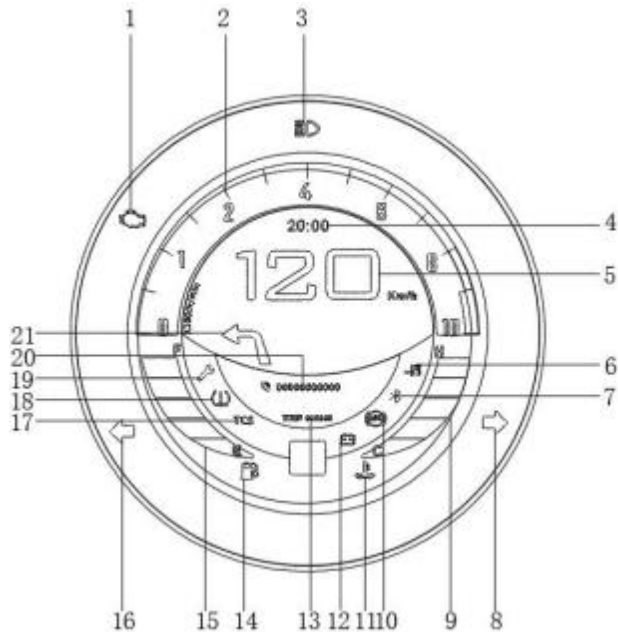
## Direction lock unlock:

Press the unlock button of the remote key, unlock the front lock, and turn the turn signal on and off twice.



## TFT meter (for some models only)

- 1.Engine fault alarm light
- 2.engine speed indicator
- 3.High beam indicator
- 4.time display
- 5.Speed display
- 6.Smart key failure
- 7.Bluetooth connection display
- 8.Right turn indicator
9. Coolant temperature gauge
10. ABS fault light
- 11.Coolant temperature alarm light
12. Battery low voltage alarm light
- 13.Total vehicle mileage
- 14.Fuel low oil level alarm light
- 15.Fuel oil level display
- 16.Left turn indicator
- 17.TCS Switch indicator light



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18. Tire pressure warning light

19. Maintenance indicator light

20. Call tips

21. Navigation display

After the vehicle is powered on, the instrument performs self-test:

The display screen lights up for self-test and displays the current vehicle status.





warn



Please do not use high-pressure water to directly rinse the instrument. Please do not use gasoline, alcohol and other organic solvents to wipe the instrument, otherwise it will cause local cracks or discoloration of the instrument.


indicator "←", "→"

When the steering switch button of the handle assembly is pushed to the left or right, the indicator light "←" perhaps "→" illuminate.

Engine fault alarm light"  "

When the engine management system of the motorcycle fails, the alarm light is on  Light up.

Turn the ignition switch key to"  "Position when, indicator light"  "On; engine starts up,


indicator light"  "Immediately extinguished.






warn


If the indicator light is found after the engine starts. When the indicator light is illuminated or flashing, continuing to use the motorcycle may cause problems such as failure of engine ignition and cessation of fuel supply. If the indicator light is found during motorcycle operation. "If the light is constantly on or flashing, stop using the motorcycle immediately and consult the authorized dealer as soon as possible.

## ABS fault alarm light


When the ABS anti-lock braking system of the motorcycle is faulty, the indicator light  "illume .


When the vehicle is powered on, the indicator light  "Pointing on slow flash; after the vehicle moves, the indicator light  "Immediately extinguished.

 danger

If the indicator light is found while the motorcycle is moving  "If the motorcycle is bright or flashing, continuing to use the motorcycle may cause abnormal braking or even locking of the wheels. Please stop using the motorcycle immediately and consult the authorized dealer as soon as possible.

## Far light indicator

Push the front light switch on the left handlebar assembly upward to the top. The indicator light  "illume .

Press the left gate handle assembly overdrive light switch, indicator light  "It will also light up until you turn off the switch.

 pay attention to


Check the oil level regularly to see if it is normal. The only way to check if the oil level is normal is by checking the oil level on the dipstick.

## Tire pressure display and alarm light (for some models only)

The front tire pressure is less than or greater than 1.8bar and 2.9 bar, the alarm light is on, the tire pressure is greater than 1.8bar and less than 2.9 bar, the alarm light is off.

When the rear tire pressure is less than or greater than 1.8 bar, the alarm light is on; when the tire pressure is greater than 1.8bar and less than 2.9 bar, the alarm light is off.

If the tire pressure value position does not display the value and the alarm light is on, it indicates that the tire pressure monitoring system is faulty, and should be checked at the after-sales maintenance point.

 Pay attention to

**It is necessary to use the original factory specified model tire pressure sensor.**

To replace the tire pressure sensor, you need to go to LÉTENg after-sales maintenance point to re-match the tire pressure sensor

## TCS indicator light "TCS"

After the vehicle is powered on, the TCS indicator light is in slow flashing state.

When the vehicle speed is greater than 8 Km/h, the indicator light is extinguished.

After the TCS is turned off, the TCS indicator light "TCS" will stay on.

TCS is enabled by default after each vehicle re-energization.

When TCS is on, during the ride, when the rear tire skids, TCS will actively reduce engine torque to reduce tire skidding.

When the TCS is working, the TCS indicator light "TCS" will flash rapidly.



warn

When TCS is on, if the TCS indicator light "TCS" is constantly lit during cycling, it indicates that TCS function is faulty. Consult LETENg authorized dealer for treatment as soon as possible.

TFT meter (for some models only)

Instrument on/off status: After startup, the instrument displays the information mode of the last setting.

Instrument backlight: the instrument automatically adjusts the backlig

Bluetooth connection: After the phone is connected to the instrument through Bluetooth, the instrument can realize call prompt. (Display the number and name of the caller)

Speed: the speed of the engine. (r/min-number of revolutions per minute — the number of circles the engine crankshaft rotates per minute)

Speed: The speed at which a vehicle travels. (Km/h-kilometers per hour, or mph-miles per hour)

Water temperature: the current coolant temperature value. (Unit °Cc, display range-48°C~ 143°C, coolant temperature alarm light

on when coolant temperature is greater than or equal to 112°C)

Fuel oil level: shows the current remaining fuel oil leve


When the fuel gauge is shown as a bar, the oil level alarm light will turn yellow, indicating that you need to fill up the fuel as soon as possible.



ycle

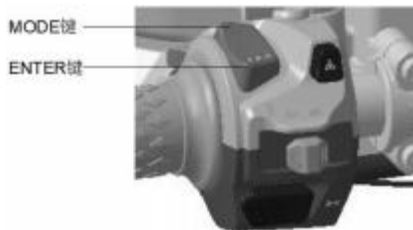
 danger

In the process of driving a motorcy-

 pay attention to

The fuel level indicator may occasionally flash or remain steady when the remaining fuel level is low. This is normal and can be safely ignored. If the warning light turns yellow during operation, it indicates that the remaining fuel in the tank will provide enough fuel for 25km of driving.

## Instrument Operation Instructions (for Some Models Only)

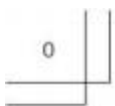


Instrumentation interface:

1. Press the MODE button to enter the interconnection mode interface.
2. Switch back and forth between the total mileage of the long press MODE and the small mileage.
3. Press Enter to enter the Settings screen.
4. Press Enter key to reset the "trip" mileage.

Settings interface:

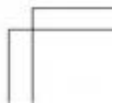
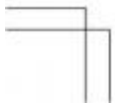
1. Press the MODE key to change the current selected item. Select the next item is mainly used to switch the selected setting item in the current interface.
2. Long press the MODE button to set the tire pressure in the learning mode; other interfaces will exit the setting menu and return to the instrument interface.
3. Press Enter. If you are in a list item, enter its submenu; if you are in a setting item, change the setting parameters. Mainly used to change the setting items selected in the current interface.
4. Press Enter to return to the previous page menu.



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## Installation Instructions for Yilian Cycling APP

### I. Switching to the interconnection mode

WIFI projection screen :

Hold down the MODE key to switch to the interconnection mode, and hold down the ENTER key to exit the interconnection page to the instrument page.

### II. The Connection Process of Mobile Phone Interconnection

cellphone APP:

You need to download the "Yilian Cycling" app on your mobile phone. Please download it from the app market according to the corresponding mobile phone system, or download it according to the address: [http://www.carbit.com.cn/down6/642/643/\\_ylqx?modelid=33205&sn=Ut3F&action=128](http://www.carbit.com.cn/down6/642/643/_ylqx?modelid=33205&sn=Ut3F&action=128) or scan the code to download



Android phone interconnection steps:

1. Download and install the Yilian Cycling app on your phone, enter the main interface of the app (as shown in the figure), and click the link marked with the car icon in the red box.



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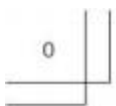


2. After entering the interface below, scan the QR code generated by the instrument.

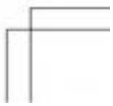


3. After scanning the QR code, you will automatically enter the interface below. Open location and WIFI through the app, and then click the "Connect" button.





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4. After verification, it will automatically enter the following interface, and the app will automatically enter the connection state and interconnect with the instrument.

5. After the App successfully communicates with the meter through WIFI, a picture interface will pop up in about 5-10s, indicating that the Yilian Cycling App and the meter have established communication. The app needs to confirm whether the interconnection is connected with the user again, and click "Connect immediately" to connect with the meter.





已连接到仪表，是否互联？  
连接后请重启APP再进行连接

取消 (Alt)

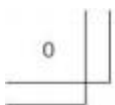
立即互联

6. After the connection is successful, the following interface pop-up window will pop up in the app interface. At this time, the instrument has been successfully connected with the mobile app, and you can see that the instrument has displayed the navigation map.

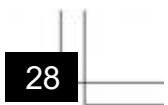


7. The main interface of the App will provide various interconnection functions as shown in the figure below. If you need the corresponding function, click the corresponding icon to operate. For example, click the navigation icon to enter the navigation interface.

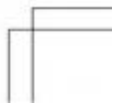
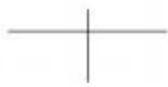




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8. After entering the following interface, you can choose the desired 9. As shown in the figure below, the app will enter the navigation interface.

The specific address of the navigation, click here in the figure below .



10. The navigation screen is also synchronized with the instrument immediately, realizing the instrument navigation.

11. The same goes for other features on the Yilian cycling APP It can be synchronized to the meter.

## Apple mobile Internet steps:

1. Download and install the Yilian Cycling app on your phone. Go to the main interface of the app as shown in the figure below, and click the red icon marked in the upper left corner.



2. After entering the interface below, please ensure that mobile phone WIFI and mobile phone positioning are turned on, and click "Invisible connection" as shown in the red marked area below.



3. "Unsentive connection" will pop up the wifi search box and automatically search, as shown in the figure below (left). If the prompt shown in the figure below (right) appears, please ensure that the meter provides location permission.

4. Select a WIFI name starting with DIRECT to connect to the WIFI. After successful connection, the connection function will be displayed on the app.



Figure (left)

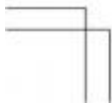


Figure (right)



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5. After the App successfully communicates with the meter through WIFI, a picture interface will pop up in about 5-10s, indicating that the Yilian Cycling App and the meter have established communication. The app needs to confirm whether the interconnection is connected with the user again, and click "Connect immediately" to connect with the meter.



已连接制仪表, 是否互联?  
取消后请重启APP再进行连接

取消 (4s)

立即互联

6. After the connection is successful, the following interface pop-up window will pop up in the app interface. At this time, the instrument has been successfully connected with the mobile app, and you can see that the navigation map has been displayed on the instrument.



7. The main interface of the App will provide various interconnection functions as shown in the figure below. If you need the corresponding function, click the corresponding icon to operate. For example, if you click the navigation icon, you will enter the navigation interface.

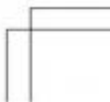
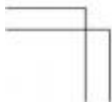


8. After entering the following interface, you can select the specific address of the desired navigation, and click here in the figure below



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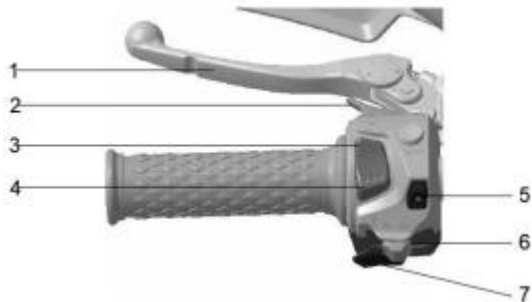
9. As shown in the figure below, the app will enter the navigation interface.

10. Navigation screen is also immediately synchronized on the instrument, enabling instrument navigation



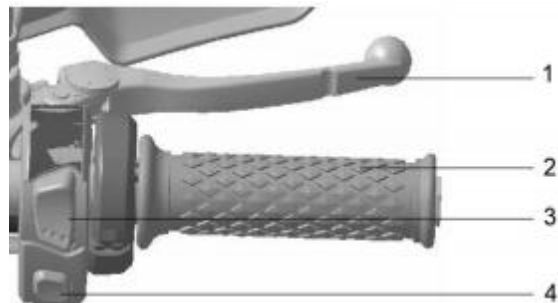
11. In the same way, other functions on the Yilian Cycling APP can also be synchronized to the dashboard

### Turn the Left Combination Switch



1. Post-production handles
2. Near and far light/overtake switch
3. MODE key
4. Enter key
5. Emergency light button
6. turn signal switch
7. horn button

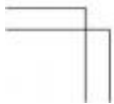
### Turn the Right Combination Switch




1. Front control handle
2. Throttle control handle
3. Off/On/Power Start switch
4. light switch

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35





### **horn button " "**

When pressed "  The horn blared when the button was pressed.

### **turn signal switch**

When the steering switch of the left gate handle assembly is pushed to the left "  ", the vehicle's left front and rear turn signals are lit at the same time, the left turn indicator on the instrument "  "Also lit up.


When the steering switch of the left gate assembly is pushed to the right "  ", the front and rear turn signals on the right side of the vehicle are lit at the same time, and the right turn indicator on the instrument is "  "Also lit up.


When the steering switch of the left gate assembly is pressed inward, the turn signal is turned off and the steering indicator on the instrument is also turned off.


### **Emergency light button" "**

The emergency light button is turned on when pressed for the first time and turned off when pressed for the second time.

### **Power on/off switch**

When the electric start/engine off switch on the right gate handle is pressed to "  Position, engine electric start operation.

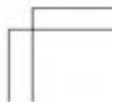
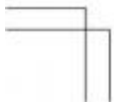
When the electric start/engine off switch returns to "  "Position when the engine is in normal operation.

When the engine is in operation, press the electric start/engine off switch to "  At that moment, the engine immediately shuts off. The electric starter shutdown switch is the fastest and easiest way to shut down the engine.

### **Front control handle**

0

Hold the brake handle, front wheel brake, and brake lights are on.



## **ENTER key**

Press the key to enter the Settings interface.

## **Post-production handle**

Pinch the control handle, brake the rear wheel, and simultaneously illuminate the brake lights

## **Hand heater switch (for some models only)**

This car can be heated by turning the handle heating switch button on and off.

The indicator light is on when it is lit and off when it is extinguished.

After the vehicle is powered on, the heating gear is turned off by default. When the engine is not running, pressing the heating button will only see the indicator light on, but there is no actual heating. The heating will be carried out only when the engine is running.

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## Instrument key (for some models only)

Short press the MODE button to enter the mobile phone Internet page or Bluetooth connection interface; short press the ENTER button to enter the instrument Settings page.

## USB Power Port (For Some Models Only)

The vehicle is equipped with a USB power interface, output specifications: 5V 2A. The waterproof protective rubber cap of the USB power interface features a Logo. Lift the rubber cap upward to use the USB power interface.



USB power port



- ◆ The plug and cable should be provided by the user. After use, the waterproof protective cap should be closed to prevent water and dust from entering the USB power interface, which will affect the service life.
- ◆ To maintain the service life of the battery, please stop using the 12 V socket and USB interface function after the engine is turned off.

## ABS System

- 1、 Normally when braking and decelerating, first loosen the throttle, grip the steering wheel, and then brake.

2、 Before the turn, you need to brake and slow down in advance. When passing the turn, try to keep a constant speed, if necessary, you can brake slightly, do not emergency braking.

3 、 When you encounter bad road conditions such as icy road surface, road water accumulation, etc., please slow down in advance and drive carefully.

4 、 Anticipate road conditions in advance and avoid emergency braking as much as possible.

5 、 In case of emergency, the throttle should be loosened quickly and the steering wheel should be gripped tightly for full braking.

 pay attention to

For models with ABS function, there will be a relatively obvious and certain frequency of active rebound phenomenon on the brake handle when braking at full force. This is normal. Please do not panic and hold the steering handle tightly!

 danger

When slowing down at high speed, if only the front or rear brake is used, the vehicle is prone to

skidding and loss of control. The front and rear brake must be used simultaneously and evenly.

## TCS Traction Control System

The slip rate difference is determined according to the speed difference, and the wheel speed of the front and rear wheels is compared. The stability margin of the rear wheel is then determined. If the slip rate limit is exceeded, the engine control system adjusts the engine torque.



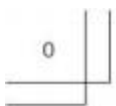
pay attention to

TCS in some special road conditions and some specific operations:

If the front wheels lose ground contact at extremely high acceleration, TCS will reduce engine torque until the front wheels regain contact with the ground. It is recommended that in this case the throttle lever be pulled back slightly to re-enter a stable riding position as quickly as possible.

Never suddenly accelerate the throttle on a smooth surface. Engine torque can cause rear wheel slippage, which can lead to unstable riding conditions. This situation cannot be controlled by TCS. On very soft ground (e.g., sand or snow), TCS control intervention may significantly reduce the driving force on the rear wheels, so that the vehicle cannot be freed. In this case, it is recommended to temporarily disable TCS.

In addition to special road conditions such as this, TCS should always be kept on to ensure driving safety.

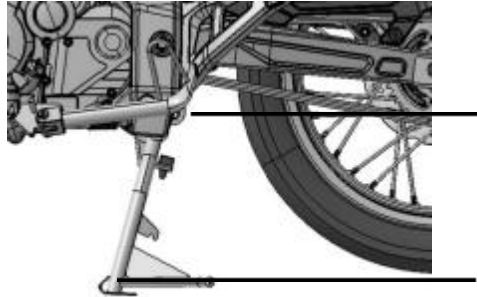


40



## Side Bracket and Main Bracket System

This motorcycle parking design has a side support system, main support system.



side stand

main support



warn

1 、 If the ground is soft or uneven, the car will not be able to park smoothly. Therefore, please park the motorcycle on a firm, flat road surface.

2 、 If you must stop on the slope, please turn the front of the car upward, which can reduce the possibility of side bracket rotation and reverse.

3 、 The side bracket is designed more for the weight of the vehicle itself. Therefore, after parking, please do not lean against the motorcycle, otherwise the side bracket will be deformed by exceeding its maximum strength.

## Engine Start

- ① The side bracket is in the folded state.
- ② Check whether the remote key is within 1 meter of the vehicle.
- ③ Turn the ignition switch to "🔑" position .
- ④ After the above conditions are met, grip the brake handle

and press the electric start button with your right hand.🔑

"(At this time, there is no need to turn the fuel filler).

After starting the engine, let the engine continue to run at idle to fully warm up.

This vehicle is designed to prevent ignition misoperation, the engine can only be started under the following conditions:

- The ignition switch is in the on position🔑 " .
- Close the side support.
- Hold the brake handle for safety.




Motorcycle emissions contain carbon monoxide, a colorless, odorless, but highly toxic gas. Do not idle the engine for a long time in poorly ventilated areas or indoors without ventilation equipment to avoid the risk of poisoning.



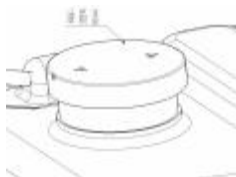
The colder the weather, the longer the engine needs to warm up. Proper preheating ensures better lubrication and reduces engine wear. Avoid letting your bike idle for extended periods, as poor heat dissipation can cause overheating and damage internal components. In cold conditions, gently rotate the throttle while pressing the electric starter button to assist starting. Engine lubrication only works when running. Never push your motorcycle for long distances while the engine is off. After starting the engine, check the instrument panel for any abnormal persistent or flashing lights. If detected, immediately shut down the engine and perform necessary checks.

## Fuel Filling

 This warning "sign" warns you to fill up the fuel

Note: Insufficient fuel will cause the engine to fail to ignite or abnormal engine operation. If you continue to ignite, it may cause the fuel pump to overheat and damage the oil pump.

Please do not use up the fuel in the tank, try to fill the fuel before the fuel level alarm light is yellow.



fuel tank lock



oil filler



Tank volume: 9 L



warn

- Fuel oil will corrode the paint surface. If fuel oil is attached to the paint surface, it should be wiped off immediately.
- Fuel expands at high temperatures, and overfilling the tank can cause excessive internal pressure in the tank, causing deformation or fuel spillage.
- When filling fuel, do not fill the tank too full, just level the bottom surface of the anti-oscillation ring at the bottom of the tank.

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danger

When refueling the fuel, turn off the engine and do not approach fire or heat source.

## VI. When a Fault Occurs

### **Coolant Temperature Is Too High**



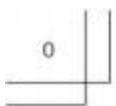
This warning light is on to warn that the coolant temperature is too high and the engine is overheating. In this case, if you continue to ride, the engine may be damaged. At this time, you must follow these steps: Stop immediately, pull over to the side of the road, and support the main bracket.

- Check whether the radiator fan is working. If the radiator fan is not working, it is a radiator fan fault or line fault, and you need to go to a nearby professional maintenance point for troubleshooting.
- If the radiator fan is working, turn off the engine while the radiator fan is working. Check the coolant after the engine has cooled down: check whether the coolant is sufficient. If the liquid level is below the minimum scale line, make up the coolant.
- If the radiator fan works properly and there is enough coolant, the coolant warning light still lights up while riding, you should also go to a nearby professional maintenance point for troubleshooting.

### **Coolant Is Insufficient**

If the coolant is insufficient or the radiator surface is severely blocked by mud and sand, the following temporary treatment is recommended:

- Reduce the load on your vehicle or reduce your speed.





This warning light is on, warning that there is a fault in the engine system. When the warning light is on, if you continue to ride, the engine may stall and the fuel supply system may stop supplying fuel.

At this time, please turn off the ignition switch and then restart. If the warning light is off, you can continue to ride; if the warning light is not off, you need to go to a nearby professional maintenance point for fault diagnosis.

## The Engine Cannot Be Started

- The side bracket is open.
- Brake not tightened.
- Whether the fuel pump is working.
- Whether the battery is sufficient.
- Is it in a low temperature environment, if so, please start with a little throttle.
- The battery is undercharged.



Improper maintenance and adjustments may damage your motorcycle and prevent troubleshooting. Such damages are not covered under LETENG's Three Guarantees policy. If you're unsure how to perform the correct procedures, contact an authorized dealer.

- The oil is too sticky, determine whether you need to change the oil.

## The Engine Is Weak

- Whether the air filter element is clean.
- ➤ Is the fuel filter clogged.
- Whether it is at high altitude.

## Corrective Maintenance

The content of the fault maintenance can help you find the cause of general problems. Of course, this is only some basic judgment, if it can not be ruled out, please send the motorcycle to the LETEN authorized dealer for treatment.

Recall Management When a vehicle has serious defects, it shall cooperate with the Company to implement recall in accordance with the relevant requirements of motor vehicle recall.

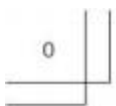
## VII. ACCREDITATION

### Break-in of New Car

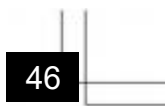
The break-in period has a great impact on the service life and fuel consumption of the motorcycle, so please read the instruction manual carefully before use (in the first 1000Km trip, correct use of the motorcycle will enable you to ensure the performance of the vehicle and get the pleasure of driving).

### Engine Break-In

- Whether in hot engine state or cold engine state, the engine should be allowed to idle for a sufficient amount of time before starting, so that the oil flows to all lubricated parts.
- During the break-in period, 0-500Km, the speed should not exceed 50Km/h, 500-1000Km, the speed should not exceed 70 Km/h.
- During the break-in period, when the engine is running at a fixed low speed (light load), it will aggravate the wear of parts and poor fit, so do not run for a long time at light load and uniform speed.
- During break-in, the engine speed should be changed frequently and not run at a certain speed for a long time.



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## Tire Break-In

- The new tire surface is smooth, and it is easy to have a dangerous ride at high speed or in the curve. In order to achieve maximum grip of the tire, the break-in process is necessary.
- In the first 200Km, you can ride low speed bends to wear the tires until the crown is worn at all angles.
- The bulges on the tire crown are a risk of causing accidents. The way to avoid the bulges on the tire crown is to wear the tire down.

## Braking System Break-In

During the initial 500Km period, the new brake discs are still in their original state and therefore do not reach their optimal friction surface. During break-in, you can use a larger force to grip the handle.

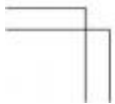


danger

To get the best ride, avoid sudden acceleration, sharp turns and emergency braking during the first 200Km of using new tires.

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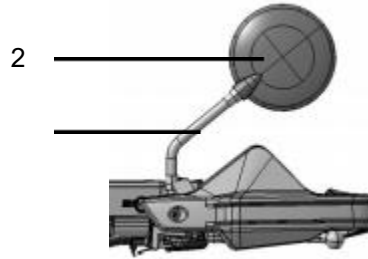


## VIII. Adjustments

### Adjusting the Rearview Mirror

Adjust the rearview mirror to the correct position according to your height and driving posture.

The rearview mirror body 1 and rearview mirror housing 2 can be adjusted by hand. After adjusting the mirror body, the nut should be tightened.



warn

Sitting on the vehicle, keep the vehicle upright so that objects within a 4m range of the rear end of the vehicle can be clearly observed from the rearview mirror.



danger

Do not adjust the rearview mirror while driving, otherwise it will reduce your control of the vehicle.

## Adjust the Throttle Control Handle

- The throttle control handle controls the engine speed.
- Turning in your direction is acceleration, turning against it is deceleration.
- Adjust the throttle cable clearance.
  - Remove the glue sleeve 1
  - Loosen the locking nut 3
  - Rotate regulator 2 to adjust the clearance of the throttle cable to the appropriate distance.
  - Locking nut 3
  - Reinstall the rubber sleeve 1



1 2 3



warn

After adjusting the throttle cable clearance, ensure that the fuel gauge can be automatically returned and the steering wheel is turned to the left and right limits, and the idle speed should not be increased.

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## Adjust the Front Light Height

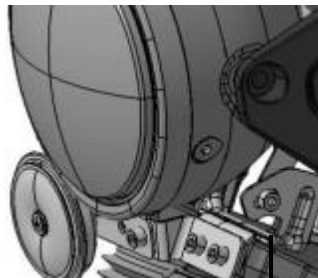
- Headlights should be maintained at a reasonable height range as shock absorbers adapt to different loads.
- In order to ensure the safety of nighttime driving, the beam inclination angle of the headlight is adjusted to meet the requirements of different loads on the height of the vehicle light.

--The height adjustment bracket of the light is installed below the rear of the headlight. Loosen the locking bolts 1 on both sides with a tool (see right).

--The headlights rotate counterclockwise and the lights are lowered.

--The headlights rotate clockwise and the lights rise.

--After the light height is adjusted, tighten the locking bolts on both sides.



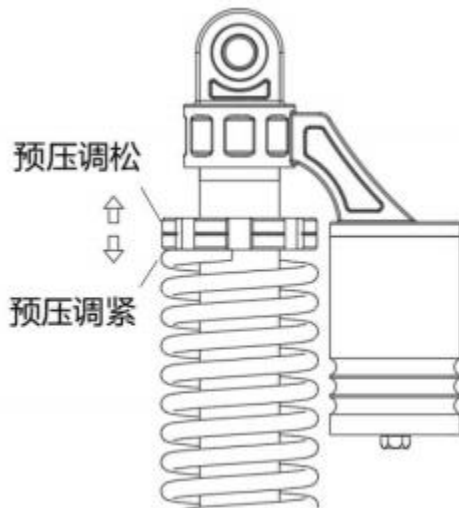
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If you are not sure the correct height value of the light, please consult a LETEN authorized dealer.

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## Post-Shock Adjustment

You use a slotted nut wrench to adjust the nut up and down, to the position you feel comfortable with, if you are satisfied with the shock absorption effect you can not adjust



0

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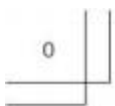
## IX. Inspection, Maintenance and Upkeep

### Fuel Oil

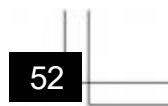
The fuel consumption parameters you see when purchasing a vehicle represent the motorcycle's comprehensive fuel consumption, which differs significantly from your daily driving practices. Therefore, in actual driving, you may find that the actual fuel consumption is higher than the parameters. The following steps will help you reduce fuel consumption as much as possible while maintaining proper driving:

- Drive gently and smoothly to reduce the frequency of sudden braking during driving. Starting and accelerating will consume more fuel.
- Driving in the city is bad for fuel consumption, and frequent stops and starts mean frequent starts of the engine.
- Avoid using a cold car for short distances. Because the motorcycle consumes more than twice as much fuel in the first kilometer after starting as it would under normal conditions, because the engine has not yet reached its optimal working temperature.
- Underinflated tires increase rolling resistance on the wheels, which increases fuel consumption.
- Proper maintenance of your motorcycle in accordance with the maintenance cycle is also an important part of fuel savings.

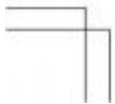
As you learn more about the vehicle and gain control, you may often do some quick acceleration and quick deceleration operations. This operation will increase fuel consumption compared to the previous soft, smooth driving, which is actually caused by the change in your driving style.



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骑乘注意事项

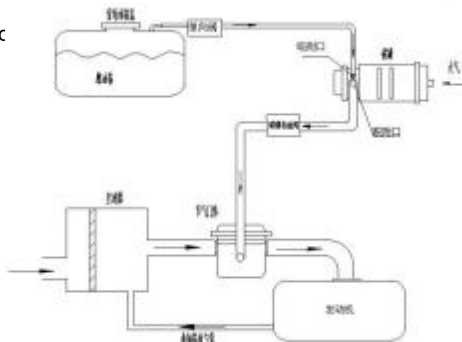
## Fuel Evaporation

If the fuel evaporation system malfunctions, contact LETEN Service Center for repairs. Never modify the fuel evaporation system, as this may violate emission regulations. After disassembly and maintenance, ensure all pipeline connections are secure with no leaks or blockages at joints, and confirm hoses show no signs of compression, tearing, or damage. Fuel vapor from the tank is released into the charcoal chamber through suction pipes. When the engine stops, activated carbon in the chamber adsorbs the vapor. During operation, the vapor is released into the combustion chamber via the throttle assembly's vent pipe, preventing direct emissions that could pollute the environment.

The fuel tank suction line also serves to balance the internal air pressure. When the tank's internal pressure drops below atmospheric pressure, the system vent pipe and suction line can compensate for this pressure. Therefore, it's crucial to ensure all pipelines remain unobstructed by blockages or compression. Proper installation of the anti-toppling valve must be maintained; otherwise, it may cause damage to the fuel pump, fuel tank deformation or cracking, or other component failures

The fuel evaporation control system works according to the following

- 1、 When the oil tank gasoline is heated, the fuel vapor evaporates and is adsorbed by the carbon tank at the end of the tank through the check valve.
- 2、 The vehicle tilts over more than 60 °, and the check valve is closed, so that gasoline cannot flow to the carbon tank through the check valve.
- 3、 Fresh air flows from the AIR end (air supply end) of the tank to the PURGE end, bringing oil vapor into the throttle and passing through the intake pipe to the engine for combustion.



Schematic diagram of fuel evaporation control system connection

## Three-Way Catalyst

The motorcycle exhaust system is equipped with a three-way catalyst, which can reduce the harmful components of the engine exhaust. The poor operation of the engine will damage the three-way catalyst, so the following behaviors should be followed:

- Regular maintenance must be carried out in accordance with the provisions of the "Quality Guarantee and Maintenance Manual".
- If the engine runs unstably, please contact the authorized dealer of LETEN as soon as possible.
- When the fuel alarm light is on, replenish the fuel as soon as possible, too low oil level will cause irregular fuel supply.
- Do not start the engine by pushing a cart or trailer.
- The ignition switch can only be turned off at idle.



Please add unleaded gasoline to avoid clogging the three-way catalyst and causing exhaust emissions that do not meet the standards.



Do not drive the motorcycle or park it on flammable materials, such as hay. Because the temperature of the three-way catalyst is very high when it works, it is easy to ignite these flammable materials.

## Driver's Tool

The car accessories are attached to the base plate of the front seat cushion. Lift the front seat cushion to see the tool bag. After use or after rain, they should be cleaned and dried accordingly.

## Maintenance of Rotating Parts

To drive safely, maintaining good lubrication of working parts is necessary to delay the service life. The daily inspection of lubrication points is as follows:

- Make the handle shaft.
- Main support shaft.
- Side bracket shaft.

## Storage Battery

**Battery maintenance** The battery of this model is lithium battery, which does not need regular maintenance during the use cycle, but the charging condition should be checked regularly.



pay attention  
to

Lubrication point is recommended to use lithium based grease for  
lubrication.



pay attention  
to

If conditions permit, it should be charged for 30 minutes before the first use, which can effectively extend the service life of the battery.

## Charging of Accumulators

When the ignition lock is closed, if the terminal voltage of the battery is less than 12.3V, the user is advised to charge the battery.

- Use a DC regulated power supply or use a specified charger to charge the battery, and strictly follow the charger instructions.
- The charging voltage is DC (14.5±0.5) V, and the charging current does not exceed 1 C.
- Charging time 2 hours to 4 hours.
- Overcharging the battery will shorten the service life of the battery, please do not overcharge.
- Before charging the battery, be sure to disconnect from the vehicle circuit.
- Frequently check whether the battery electrode terminal and cable joint are clean, if they have been corroded or oxidized, they should be cleaned in time.
- When the vehicle is frequently used, its charging system automatically recharges the battery. However, if the vehicle is only occasionally used or the riding duration is short, the battery may experience insufficient charge. The battery generates self-discharge, with the rate varying depending on the battery type and ambient temperature. As environmental temperature rises, the discharge rate increases. For example: for every 15°C increase in ambient temperature, the self-discharge rate doubles.
- In very cold weather, if the battery is not properly charged, it is easy to cause the electrolyte to freeze, which can cause the battery to rupture and the metal plate deformation, so charging the battery can improve the anti-freezing ability.
- When not using the motorcycle for a long time, disconnect the negative terminal connection of the battery. Otherwise, the electronic parts in the electrical circuit will gradually drain the power.


 pay attention to

Keep the battery away from heat sources and sparks. Wiping the battery with a dry cloth will cause static sparks. Therefore, wipe the battery with a wet cloth to avoid static sparks.

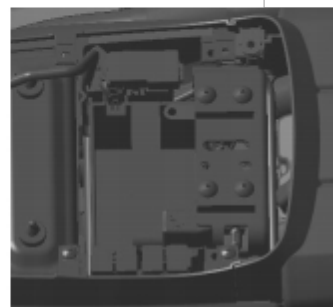
- When the motorcycle is not used for more than one month, the battery should be charged once a month. The battery is easy to fail naturally when it is not charged for a long time.
- Please dispose of waste batteries or waste electrolyte properly, do not cause environmental pollution.

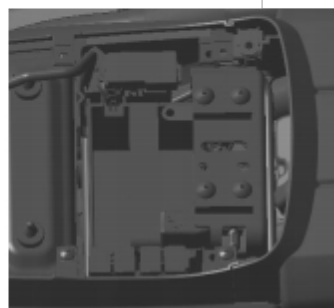
## Battery Disassembly

- Before disassembling the battery, the vehicle power supply should be turned off.
- When removing the battery, remove the negative terminal first and then remove the positive terminal.
- When installing the battery, install the positive terminal first, and then the negative terminal.
- After each battery reinstallation, the vehicle should be repowered first and wait for 30S until the electronic equipment is initialized before starting the engine.

 pay attention to

Do not invert the battery, which will cause the internal electrolyte to seep out of the





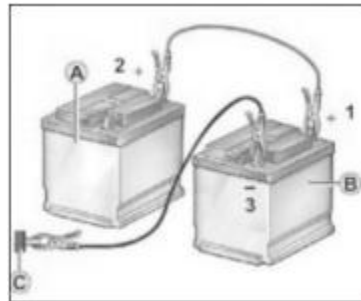
## External Power Supply

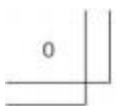
- When the battery power is not enough to start the engine, you can use an external power supply to start.
- When starting with an external power supply, a special spring wire clamp with completely insulated ends should be used to prevent short circuit and fire caused by contact between wires.

Battery A is the vehicle power supply, battery B is the external power supply.

Connect the positive terminal 1 of the external power supply B to the positive terminal 2 of the vehicle's power supply A. The negative terminal 3 of the external power supply should be connected to the motorcycle's metal frame C for grounding.

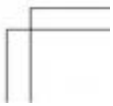
Before removing the starter wire from the external power supply, let the engine run for a few minutes. Then disconnect the negative lead and ground wire first then disconnect the positive lead.





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## Air Cleaner

The air filter is located above the engine. Air filter overflow pipe maintenance

- The transparent overflow pipe of the oil-gas separator below and in front of the air fi

If there is oil collection, the oil should be poured out and clea

- Loosen the pipe clamp and remove the transparent overflow pipe or overflow pipe plug (at the front and lower overflow pipe);

- Pour out the oil, wipe or clean the overflow pipe;

- Install the overflow pipe, stopper and clamp back to their original position. Check and ensure that the overflow pipe is not loose.

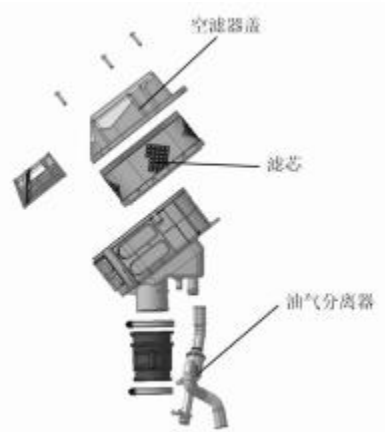
- If the air filter element is blocked by dust, the intake resistance will inc

The output power of the engine will decrease and the fuel consumption will increase.

- In dusty conditions, the frequency of inspection and replacement and cleaning of the air filter element should be increased. The air filter element should be replaced

- Remove the screw of the air filter cover and remove the air filter cover as a whole;

- Take out the air filter element, check the air filter element, if there is obvious dust or oil pollution, replace the filter element;



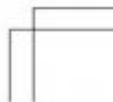
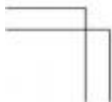
ne will



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➤ Install the filter element correctly in its original position;

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Gently fasten the air filter cover and tighten it with screws.

► If the air filter element is not properly installed, causing dust to enter the engine around the filter element, it will damage the engine. Please make sure that the filter element is properly installed and in place.

### **Air filter element cleaning**

-Blow the dust and other obligations on the surface of the filter element with compressed air;

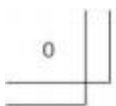
Check whether the filter element is deformed or abnormal;

The remaining assembly process is the same as the filter element replacement.

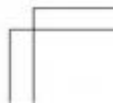
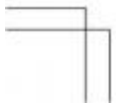


warn

When driving in dusty conditions, the air filter element should be changed or cleaned frequently, rather than waiting for maintenance.  
A broken air filter housing, filter element and a failed gasket allow dust and mud to enter the engine, which can damage the engine.



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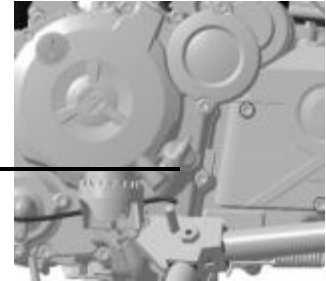
## Motor Oil

### Check engine oil level height

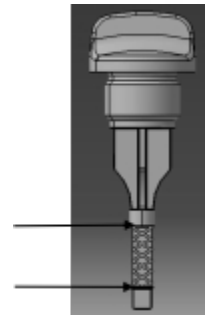
- The oil level check and oil injection are on the right side of the engine cover, as shown in the right figure.
- Check the oil level:
  - Engine is cold.
  - Then make sure the car is upright.
  - The oil gauge is tightened.
  - Remove the oil gauge to check the oil level.
- The correct oil level of the oil should be between the upper and lower scale lines of the oil gauge.
- If the oil level is higher than the upper scale line, a certain amount of oil needs to be released.
- If the oil level is below the lower scale line, some oil needs to be injected.
- Whether the oil is discharged or injected, the oil level should be checked again according to the above oil level checking method after the operation.

### Engine oil maintenance

Oil can ensure the effective lubrication of engine parts, in addition to help the engine cool down, play a cooling role, and oil can also help the engine seal, so the maintenance of oil is very important.



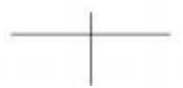
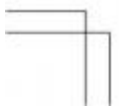
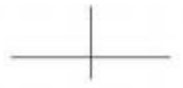
oil rule



Liquid level upper limit liquid

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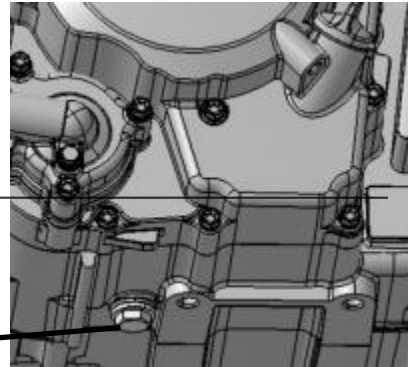
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## Method of oil discharge:

- If the oil level is too high, remove the oil drain bolt with a socket wrench. The oil drain bolt is at the bottom of the engine.
- After releasing a moderate amount of oil, please reset and lock the oil bolt.

Low oil level can damage your engine. Similarly, high oil levels can also cause engine failure. Make sure to keep the oil level within the proper range.



⚠ pay attention to

The volume of engine oil increases with rising temperatures, and the oil level changes accordingly. While slightly higher temperatures in hot engines and slightly lower levels in cold engines are normal, these variations should be monitored. When checking the oil level, ensure the vehicle is upright with the body

perpendicular to the ground. Allow at least 10 minutes for oil drainage to ensure complete release.

## Change engine oil

- Change engine oil at each maintenance cycle.
- Change the oil when the engine is hot so that the old oil can be removed more thoroughly.
- How to change the oil:
  - Use the main frame to keep the motorcycle upright.
  - Unscrew the oil filler cap counterclockwise.
  - Place a drain pan under the drain bolt. Remove the drain bolt with tools and drain the old oil.

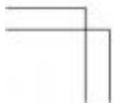
Lock the drain bolt before filling with new oil.



When the oil drain bolt is reinstalled, the oil drain bolt and sealing washer need to be replaced. If the oil drain bolt and sealing washer are still installed after being removed, it is easy to cause oil leakage at this position.

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## Add engine oil

- Confirm that the oil filter element has been replaced and the oil filter element cover is assembled.
- The drain bolt and sealing pad have been replaced and assembled.
- Add new oil to the crankcase filling port, 1.1L.
- Start the engine and let it idle for more than 2 minutes.
- Turn off the engine and wait at least ten minutes. Remove the dipstick to check the oil level. The motorcycle must be level and vertical when checking the oil level. Insert the dipstick into the oil filler cap until it contacts the dipstick (do not tighten). If the oil level is below the lower mark, add oil until it reaches the midpoint between the upper and lower marks.

 pay attention to

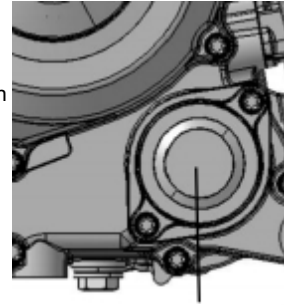
Engine oil should be changed while the engine is warm (avoid hot oil). Recommended specifications: crankcase oil grade 10W/40-SJ or higher. Recommended oil quantity: 1.1L (1.2L for filter replacement, 1.3L after engine overhaul). Proper disposal of used oil and filters must be handled in an environmentally friendly manner.

 warn

Oil grade mismatch or inferior oil will cause damage to the engine, will damage the parts of the electronic injection system, will shorten the service life of spark plugs and muffler catalyst, so please do not use it.

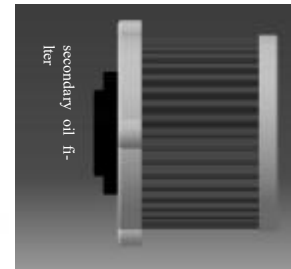
## Change of Oil Filter

- Change the engine oil filter at each maintenance cycle.
- The oil fine filter should be replaced while the engine oil is released.
- Use a rack to hold the motorcycle upright with the front and rear wheels flat on the ground.
- Put a piece of oil absorbent paper or cotton cloth under the engine oil filter cover to prevent oil from leaking out and contaminating the engine surface when removing the oil filter cover.
- Remove the oil filter on the right side of the engine with a tool.
- Drain all the oil from the filter element.
- Change the oil filter.



Oil filter cap

⚠pay attention to



Check the integrity of the sealing ring on the oil filter cover and replace it if necessary. Replacing the wrong oil filter will damage the engine and must use force Teng's original parts.

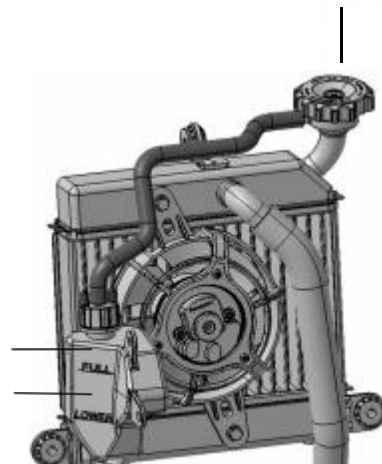
# Coolant Liquid

## Coolant maintenance and inspection

Coolant can take away and dissipate the heat of the engine's high temperature parts, so that the engine keeps its normal working temperature.

- Check the coolant level and replenish coolant at the cooling tank.
- engine misses .
- Because the coolant itself expands when heated, the coolant level should be checked in cold condition.
- Ensure the body is vertical.
- Observe the liquid level height of the cooling tank position, the liquid level height should be between the lower limit and the upper limit.
- If the coolant is below the lower limit, remove the radiator and add coolant.
- The coolant level is too high, and the coolant expansion will be caused by temperature rise during use. Therefore, the coolant will be sprayed out from the overflow pipe due to the high coolant level. In order to avoid scalding, please do not add too much coolant.
- If the coolant is frequently replenished, it indicates that there is a fault in the cooling system. In this case, please go to the authorized dealer of LETEN for treatment.

Refill port



superior limit

lower limit



warn

If you find that the cooling tank has been completely dried out in use, do not replenish coolant by yourself, because at this time, it is necessary to eliminate the gas that may have entered the cooling system. At this time, please go to the authorized dealer of LETEN for treatment.

## Coolant replacement

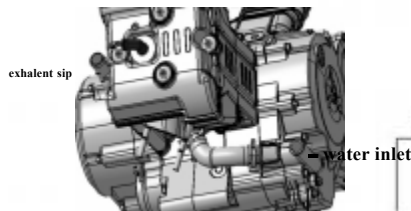
### ➤ Coolant discharge:

- Use the main bracket to keep the motorcycle upright.
- Place a liquid collection tray under the engine.
- Remove the drain bolt. Since the entire cooling system is interconnected, all coolant will be discharged from this drain.
- After the old coolant is completely drained, install the drain bolt back.

### ➤ Coolant filling:

- Coolant should be added from the radiator and cooling tank:
- Open the radiator tank cover and add coolant.
- Observe whether the coolant is full from the radiator tank cover. Add the coolant and pinch the inlet and outlet water pipes with your hand to discharge the gas until it is full, then close the radiator tank cover.
- After closing the radiator tank cover, start the engine and run it for 30 seconds to fill the coolant in all areas that need cooling.
- Turn off the engine and open the radiator tank cover again after the engine is cooled. Check whether the coolant in this position is full. If there is a drop, add it to full. Cover the radiator tank cover and repeat the process until it is confirmed completely filled.

Finally, remove the black rubber cover of the cooling tank filling port and fill the coolant between the specified upper and lower limits; add After the annotation, the black rubber cover must be assembled in place, and ensure that the outer end of the rubber cover is well coupled with the box opening.



Do not add tap water to the cooling system, otherwise it will cause damage to the cooling system. Because of different formulations, different types of coolant can not be mixed with each other.


- In the case of temperatures lower than those indicated on the cooling label, coolant with higher antifreeze performance should be used.
- The coolant tested for this product is -35°C ice point glycol-free ethanol-free silicate-free coolant. It is best to purchase or replace it at a LETEN authorized dealer.

 pay attention to

To ensure coolant performance, the coolant should be replaced every two years. The recommended model is AMK8300, which contains ethylene glycol but does not contain ethanol or silicates. The temperature range is -35°C to 108°C.

Coolant filling: 1. 1L-1.2L.

Please dispose of the old coolant in an environmentally friendly way.

 danger

During the process of adding coolant, when the engine starts and the radiator water tank cover is opened again, it is necessary to let the engine cool down, otherwise the high temperature liquid in the radiator will be sprayed out when you open the radiator cover, causing scalding accidents.

## Brake Fluid

Braking fluid is an important medium to transmit braking force in hydraulic brake system. It needs to have reliable high and low temperature performance and good low temperature fluidity, as well as corrosion protection performance. Please be sure to choose the correct braking fluid.

### Check of brake fluid

- Too low a brake fluid level in the brake oil cup allows air into the braking system. This will significantly reduce braking efficiency. Check the brake fluid level regularly.
- Check the brake fluid level and replenish brake fluid at the front and rear brake fluid cups.
- When the liquid level is lower than the minimum limit (M I N), add it in time.
- Braking fluid is somewhat corrosive, and when it splashes onto paint or plastic surfaces, it corrodes the surface of those objects.



When the brake fluid needs to be replenished, opening the brake oil cup cover without authorization may cause the entry of gas and water, which will greatly reduce or fail the braking performance. In this case, please go to the authorized dealer of LETEN to replenish or replace it.



Do not mix different types and brands of brake fluid. Due to the different formula, mixing brake fluid will cause the deterioration of brake fluid properties.

### Model of brake fluid

- When the brake fluid is in moisture or impurities, it should be replaced or filtered in time, otherwise it will cause insufficient brake pressure and affect the braking effect. In the humid weather area, this point is particularly important.

- The brake fluid will deteriorate easily after continuous use for more than two years and needs to be replaced in time. The model of brake fluid: DOT4 Please dispose the old brake fluid that has been replaced in an environmentally friendly way.

# Tyre


Tires connect motorcycles to the ground, and are very important. The wrong tire condition and specifications can greatly affect motorcycle performance.

## Tire pressure

- Abnormal tire pressure will reduce the service life of the tire.
- Low tire pressure can cause difficulty in turning and increased tire wear.
- High tire pressure will cause the tire contact area with the ground to reduce, easy to slip, loss of control.
- At high speeds, the tire's valve stem tends to open due to centrifugal force. To prevent sudden air leakage, a valve stem cap is fitted and screwed onto the valve stem.
- Tire pressure is proportional to tire temperature. Therefore, tire pressure can only be calibrated at cold temperatures when the tire temperature is essentially consistent with ambient temperature.

## Check the tire wear limit

- Tires have wear marks on the tread surface.

 danger
Abnormal tire pressure can affect the handling of a motorcycle and may lead to accidents. Overloading can cause tire failure and loss of control. Check tire pressure at least once a month.

At room temperature, please check the tire pressure according to the data in the table below.

	One rider	Dual riders
front wheel	225KPa	240KPa
back wheel	225KPa	240KPa

- The tire is no longer usable when the tread wears down to the mark.
- There is a wear mark near the TWI mark on the edge of the tire. The wear mark is in the drainage groove of the tire crown and is shaped like a bump. When this bump is worn, it means that the wear exceeds the mark and the tire should be replaced as soon as possible.
- Over-worn tyres can cause them to puncture and make the vehicle unmanageable.
- When motorcycle tire tread wear is reduced to the minimum allowable depth, its operability and grip will be greatly weakened.



## Tire repair

- To repair a small hole in a tire without an inner tube, remove the tire and patch it inside. Do not use external repair methods, because centrifugal force on the tire at high speeds will loosen the repaired area.
- After tire repair, the speed should not exceed 80 km/h for 24 hours.
- If the side of the tire is damaged, or the tire is damaged more than 6mm, the tire can not be repaired and used.
- Check the tires. If there are many obvious damage, such as: breakage, scratches, or wear to the limit, the tires must be replaced.

## Tire changes

- When changing tires, do not use tires of different brands, models, patterns and different ages on the same vehicle.
- After changing the tires, the wheels need to be checked and corrected. If the dynamic balance is bad, the handling of the vehicle will be reduced, and tire wear will be uneven.
- The tire sidewall marked with the rolling direction is indicated by an arrow. The tires must be used in accordance with this specified rotation direction. This ensures optimized tire performance in preventing water slippage, improving grip, reducing driving noise, and extending wear resistance.
- The specified model of tire has been rigorously tested and verified to meet the requirements of most roads. Other tires that have not been tested cannot be guaranteed to be suitable or safe.

■ An inner tube tire is sealed at the contact between the rim and the flange.

- In order to avoid leakage, the removal and installation of tubeless tires requires special tools and specialized tire removal and installation machines. When removing and installing tires, pay attention to protect the tire pressure sensor (optional).
- Change your tires to an authorized dealer who has the tools and experience necessary.

## Safety Lever

- Before replacing the insurance plate, you must understand the cause of the fault and eliminate the fault.
- This model uses an insurance box (1).
- The specifications and uses of all insurance plates are indicated.

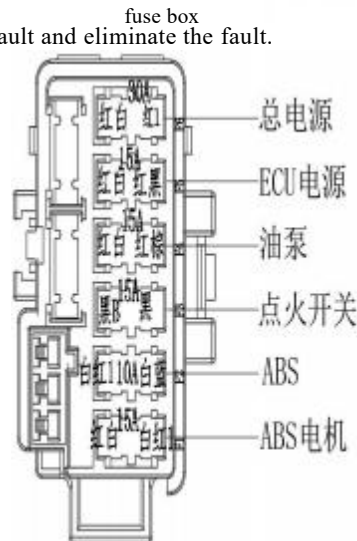
-**ABS motor** system motor fuse (15A): controls the power supply to the ABS anti-lock braking system motor. Backup fuse: 15A (internal fuse box).

-**ABS system solenoid power fuse (10A):** controls the power supply to the ABS anti-lock braking system solenoid. Backup fuse: 10A (internal fuse box).

-**Vehicle ignition switch power fuse (IGN, 15A):** Supplies power to critical components including the dashboard, lighting system, horn, starter relay, throttle lever, electronic injection main relay, ECU (Electronic Control Unit) for the fuel injection system, ECU diagnostic interface, T-BOX lock-up power supply, oxygen sensor, injectors, ignition coil, oil pump relay, and headlight relays. -Backup fuse: 15A (internal fuse box).

-**ECU power fuse (15A):** ECU, USB, instrument, OBD power supply protection. Backup fuse: 15A (internal fuse box).

-**Oil pump power fuse** pumprelay (15A): controls the supply of power to the fuel pump. Backup fuse: 15A (internal fuse box).




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**-Main power fuse (30A):** Power supply for all vehicle electrical equipment except the charging power supply, BCM and fuel injection system. Backup fuse:

30A (internal fuse box).

- After checking or replacing the fuse, it is necessary to cover the fuse box cover, otherwise it is easy to cause serious electrical failure in rainy days or after washing the car with water.

 pay attention to

If the fuse is often blown in a short period of time, it indicates that there is a fault in the electrical system. Please contact an authorized dealer immediately for treatment.

 danger

- Please use the specified size of insurance plate, do not use substitutes such as aluminum foil or wire.
- Please do not use other insurance plates outside the specified specifications or directly connect them, otherwise it will have a serious impact on the circuit system, and even cause fire or burn the vehicle.

## Brake Lining

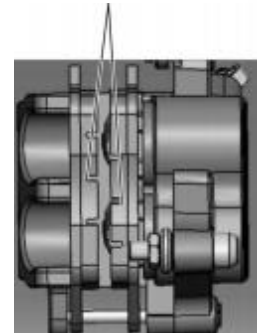
Wear of brake pads beyond the minimum permissible thickness will lead to a decrease in braking efficiency and, in some cases, may lead to damage of the braking system. For the reliability of the braking system, wear of brake pads beyond the minimum permissible thickness is not permitted.

### Replacement of brake friction pads

The correct way to replace the friction plate requires the removal of the front and rear wheels, so this work should be handled by LETEN authorized dealers.

- Both front and rear brake pads should be replaced in pairs. If only one pair is replaced, it will cause brake imbalance and cause accidents.
- After the friction plate is removed, be sure not to operate the brake handle, otherwise it will cause the brake piston to be difficult to reset, and there is a risk of brake fluid leakage.
- During the process of changing the friction pad, do not let oil or other dirt attached to the friction pad or disc brake. If it is accidentally attached, it should be cleaned up, otherwise it will cause brake slip and reduced performance.

Wear limit position of front brake and rear brake pads





After replacing the new friction pad, check repeatedly to confirm that the brake handle is effectively pressing the brake disc and that the free travel of the brake handle is correct.

## Replacement of Light Signals

- A missing signal light can put you at risk, as it helps others spot you and your motorcycle more easily. Replace a broken signal light promptly.
- Headlights, position lights, turn signals, rear/rear brake lights and license plate lights are all LED fixtures. If damaged, replace them in the repair shop. Replace signal lights according to the specifications described in the following table.

Surface Dirt, Especially Thermal Radiation from Overheating and Shorten

Electrical systems	
Battery type	12V4Ah (lithium battery)
Headlights (high/low beam)	12V 25. 2W/13. 2W
Front position light	12V 5W
Rear position light	12V 5W
rear brake lamp	12V 6. 5W
front directional	12V 2. 5W
Rear turn signal	12V 2. 5W
rear registration plate lamp	12V 3W
Single policy insurance specifications	30A, 15A, 10A

Grease, Will Interfere With the Diffusion of the Signal Lamp, Which Will Lead to the Life.



warn

When the signal light is damaged, please be sure to use the rated power and the same specification of the signal light, otherwise it will lead to overload of the circuit system or premature damage of the lamp.

## Maintenance and Upkeep Plan

The following table shows the checks to be done during each regular maintenance. The interval should be based on whichever comes first in terms of use time and mileage. Each check should be done according to the items in the table below.

project	Check before driving on page 3	Frequency * 1								annual survey	Regular replacement	Refer to page numbers
		×1000km	1	6	12	18	24	30	36			
		×1000mi	0.6	4	8	12	16	20	24			
Fuel lines					I			I		I		-
Fuel level	I											-
Air filter * 2						C				R		-
Exhaust pipe of crankcase * 3				C	C	C	C	C	C			-
spark plug					R			R		R		-
valve clearance								I				-
Motor oil	I		R		R			R		R		-
Engine oil filter			R									-
Engine idle					I			I		I		-
Coolant for radiator * 4	I				I			I		I	3 years	66

coolant passage						I		I		I		I		-
Fuel evaporation control system								I						-

**Maintenance level:**




Intermediate. Unless you have the necessary tools and mechanical skills, we recommend that it be done by a LETEN authorized repair shop.




Technical. For safety reasons, please leave it to LETEN Authorized Service Center.

**Maintenance diagram:**

I: Check (clean, adjust, lubricate or replace necessary) R: Replace

C: cleaning

project		Check before driving on page 3	Frequency * 1							annual survey	Regular replacement	Refer to page numbers	
			×1000km	1	6	12	18	24	30				36
			×1000mi	0.6	4	8	12	16	20				24
drive belt					I		R		I			-	
Braking fluid * 4		I		I	I	I	I	I	I	I	2 years	69	
Brake pad wear		I		I	I	I	I	I	I	I		74	
brake assembly					I		I		I	I		69	
Headlight beam					I		I		I	I		-	
Lights and horns		I										-	
Engine Off Switch		I										-	
Clutch friction plate wear					I		I		I			-	
side stand		I			I		I		I	I		41	
hang					I		I		I	I		-	

Bolt, bolt, fastener						I		I		I	I		-
Wheels/tires		I				I		I		I	I		70
Direction column bearing						I		I		I	I		-

explanatory note :

- \* 1: If the odometer reading is high, it should be repaired and maintained repeatedly at the intervals specified here.
- \* 2: If you ride in a particularly humid or dusty area, maintenance work should be done more frequently.
- \*3: If you ride in the rain or with the throttle on full, maintenance work should be done more frequently.
- \*4: Replacement work requires mechanical skills.

order number	Fastener position	setting position	screw thread	quantity	Torque value (N.m)
1	Disc brake pump installation bolts	Front disc pump and front left shock	M8*1.25	2	将扭 30±3 托车脱
2	Hand tool lock bolt, nut	Handbrake and steering column	M8*1.25	1	30±3
3	Front shock absorber locking bolt	Front shock absorber and steering column	M 10 *1.2 5	4	40±5
4	Front wheel axle locking bolt, nut	Front wheel and front shock absorber	M 12 *1.2 5	1	越野骑 70±5
5	Disc brake locking bolt	Front disc brakes and front wheels, rear disc brakes and rear wheels	M 8 * 1 . 2 5	8	30±3 扭矩控
6	Toothed lock bolt	Toothed ring and front wheel	M 6	4	9±1
7	Tank lock bolts	Tank and chassis	M 8	4	30±3
8	Side bracket locking bolt, nut	Side bracket and frame	M 1 0 * 1.2 5	1	50±5
9	Engine and frame, sub-frame bolts, nuts	Engine and chassis	M 1 0 * 1.2 5	3	50±5
		Engine and subframe	M 1 0 * 1.2 5	1	50±5

10	Rear shock absorber locking bolt, nut	Post shock and frame	M 10*1.25	2	40±5
11	Rear shock absorber locking bolt, nut	Rear shock absorber and rear shock absorber connector, Rear shock absorber and fork	M 10*1.25	2	40±5
12	Main foot support locking bolt	Foot pedal support and engine	M 10 * 1.5	4	50±5
13	Silencer lock cover type nut	Silencer and engine	M8*1.25	2	30±3
14	Silencer locking bolt	Silencer and flat fork	M8*1.25	3	28±2
15	Back fork lock nut	The frame is connected to the flat fork	M14*1.5	2	80±10
16	Rear wheel lock nut	Rear wheel output shaft	M16*1.5	1	100±10
17	Lock the pump bolt on the brake	Front and rear brake pumps and handlebars	M6	4	9±1
18	ABS oil pipe locking bolt	ABS tubing and anti-lock controller	M 10 *1	4	28±3
19	ABS oil pipe locking bolt	ABS tubing and front and rear brake pumps	M 10 *1.25	4	32±3

扭矩控制系统可能无法应对崎岖的路面状况或快速的油门操作。加油门时，务必考虑到路面和天气状况以及您的技术和体能。

- Pay attention to each regular maintenance, whether you follow the instructions in this manual carefully.
- The maintenance schedule specifies the minimum maintenance required. If your motorcycle is used in harsh conditions, more maintenance than specified in the maintenance schedule should be performed.
- Wind and sand weather and muddy roads during long trips should be particularly maintained after the trip.
- It is recommended that such maintenance work be done at authorized dealers.
- Waste products generated during maintenance and maintenance, such as cleaning agents and waste oil, should be properly treated to avoid environmental pollution.
- Correct maintenance and maintenance parts are the key to maintenance. If you can not confirm the source and quality of parts, it is recommended to use the original factory parts provided. Improper maintenance will cause accidents in later use.
- It is recommended that such maintenance work be done at authorized dealers.



## X. Introduction to Maintenance During Driving

### — Motorcycle Storage

- If your motorcycle has not been used for some time, special maintenance is required, which requires some special materials, equipment and techniques. For these reasons, it is recommended that you complete these tasks at an authorized dealer.
- If you wish to do this yourself, follow the following instructions:
  - Replace the oil completely.
  - Block the inlet of the air filter and the exhaust port of the muffler with a cloth soaked in new oil to prevent moist air from entering the engine.
  - Thoroughly drain the fuel from the fuel tank.
  - Remove the battery and clean the surface of the battery with neutral soapy water, while cleaning the oxide on the positive and negative motors of the battery.
  - Store the battery in an indoor room above 0°C.
  - Adjust the tire pressure to the specified pressure.
  - Thoroughly clean the motorcycle.
  - Spray the rubber protective agent on the surface of the rubber parts
  - Apply car protective wax to exterior parts of the vehicle.

Finally, cover the motorcycle with a dry cloth and stop it in a

Method of reactivation:

- Thoroughly clean the motorcycle.
- Remove the cloth from the air filter inlet and muffler exhaust port
- Change the engine oil and oil filter completely.
- Install battery.
- Start the vehicle.

### Motorcycle Protection

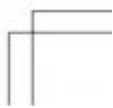
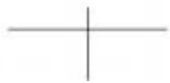
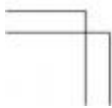
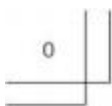
- According to the use, clean the motorcycle often and try to keep the vehicle clean and dry.
- Clean up the dirt attached to the surface of the vehicle as soon as possible, such as bird droppings, asphalt and salt.
- Try to use motorcycle cover, long time exposure to the midday sun will lead to aging and discoloration of appearance parts.

### Motorcycle Cleaning

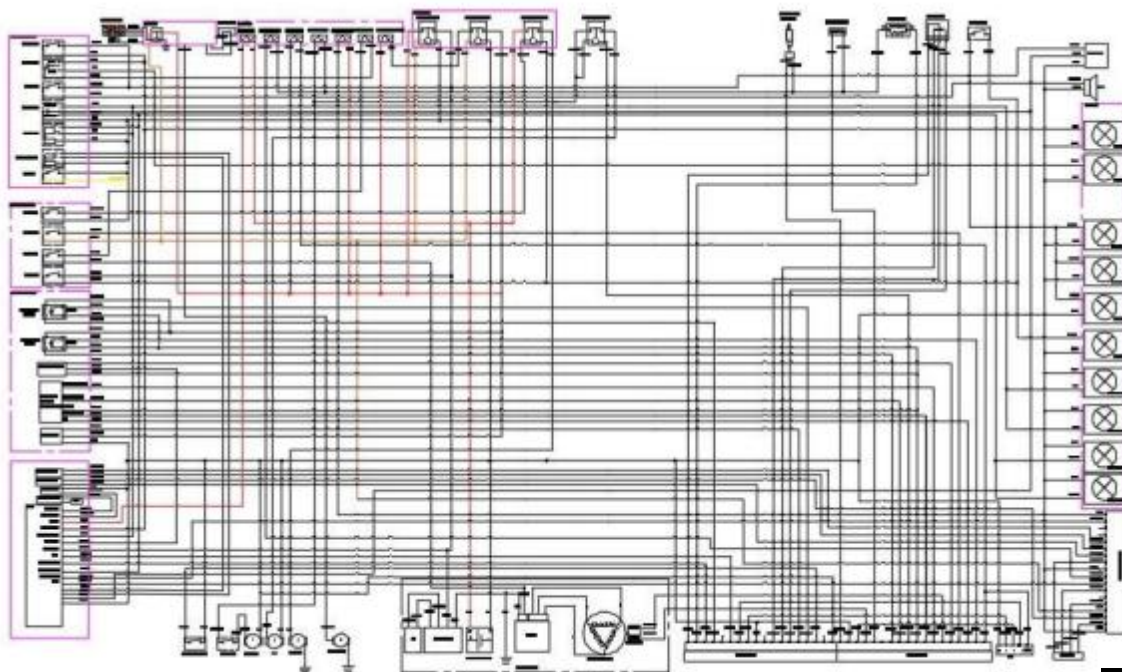
- Wash the motorcycle with cold water.
- Wash the motorcycle thoroughly with a soft cloth and neutral detergent.
- Don't spray the motorcycle with a spray.
- Do not use high pressure water to wash the motorcycle.
- It is normal for a small amount of water mist to appear in the headlights or turn signals when it is raining or after washing the car. The water mist will disappear after the lights are turned on for a while. This is because the lamps are designed with ventilation holes.



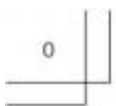
The braking capacity of a wet brake will be reduced, so test the braking system repeatedly at low speed after washing the car to dry it quickly.



## XI. Electrical Schematic Diagram







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## XII. Parts and Oil Description

### Litezon Special Accessories

#### I. Why use LETEN original parts:

The original factory motorcycle parts manufactured by Chongqing Lieteng Power Technology Co., Ltd. undergo rigorous testing, calibration, product break-in procedures, and factory inspections for reliability, safety, durability, and functionality. A comprehensive quality assurance system provides the essential support for these products.

Using LETEN original factory locomotive parts can effectively ensure the performance of locomotives and extend their service life. We recommend that users choose authorized LETEN after-sales service centers when maintaining locomotives and engines. This ensures the use and replacement of parts comply with national quality standards, guarantees maintenance quality, and maintains the continuity of the factory's three-warranty service.

#### II. Selection and identification of Lieteng original factory special parts:

1 、 Purchase and use the original factory special parts of LETENg through the official channels such as the micro mall on the LETENg motorcycle WeChat account and the LETENg after-sales service repair shop.

2 、 Identify LETEN original factory accessories.

#### 3. Consequences of random use of fake non-original parts:

1 、 In principle, the factory is not responsible for the loss of relevant parts caused by the use of non-original parts;

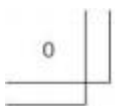
2 、 The factory shall not be liable for any quality accident caused by the use of non-original parts.

3 、 Reduce the performance of locomotives and reduce their service life.

4 、 It seriously affects the safety of locomotive use and causes serious consequences.

### **Engine Oil**

Recommended engine oil: 4-stroke motorcycle oil API SJ grade or higher, model SAE 10W-40



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