



VOGE

Far & Beyond Quality

MOTORCYCLE OPERATION MANUAL

SR3



Welcome to VOGÉ

We say thanks and express our congratulations to your correct choosing on VOGÉ.

You need to know your motorcycle as well as yourself, to safely drive under various conditions. Please carefully read this book before your first driving, which includes important information and suggestion about driving and its equipment, also the maintenance and pre-cautions. In case there are some questions about this motorcycle, the VOGÉ dealers are very glad to suggest and help you. We hope you enjoy your every minute on driving.

Important information about this book

This book includes the important information, issues need pay attention to, warning and cautions about the motorcycle, so please always keep it on the motorcycle even lend or sell to others, this is very important. The pictures or details in this book may be different with the actual motorcycle, but their description and principle are the same. This book is a part of the motorcycle, keep it always on the vehicle even sell or lend. VOGÉ improves its products all the time to make sure its high quality and safety performance, so the information in this book may not be complete same with your actual motorcycle, in this case, the VOGÉ dealers are glad to provide your correct suggestions.

The standard of execution: Q/LX 1045-2023

This user manual meets the standards: GB/T 19678.1、GB/T 9969、GB/T 40494

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I.Issues need pay attention to

This user manual has the warning marks as below, when you saw it, please follow these driving and maintenance procedure.

 **Danger** This mark indicates it may lead to bad injury even death.

 **Warning** This mark indicates it may lead to damage on motorcycle.

 **Caution** This mark means more effective and convenient point for driving.

Danger

This book fits for the driver with license only, please correctly and cautiously drive and pay attention to:

Refit at will is not allowed;

Please follow the local laws and regulations;

Any refit on this motorcycle may be bad for noise, emission and performance.

Because we keep improvements on motorcycle, so the actual motorcycle may not be complete same with !this book, please set the actual motorcycle as standard while without further information.

II.Safe driving

Loading, accessories and refit

You can get the origin VOGÉ and authorized parts, accessories and other products from our official dealers, meanwhile, the specialized workers will introduce you how to use and assemble.

Please always adopt origin VOGÉ parts or our authorized ones. The parts nor from VOGÉ factory, incorrect accessories or loading are bad for motorcycle performance even break laws, please take responsibility for your safety and that of others.

Caution

- The parts this model equipped have passed the test for safety, practicability, and matching performance, and we take responsibility for them, otherwise, we have no responsibility for the parts not from us or without our authorization. So we strongly suggest you adopt the parts and accessories from VOGÉ factory only.
- All your replacement for parts must obey local laws. Make sure your motorcycle won't break any laws and regulations

Danger

- Incorrect loading, refit, accessories and maintenance are all hidden risk, before driving, make sure there is not any overloading and obey the stipulations above.
- Refit the electrical or controlling parts at will may damage your motorcycle even lead to accident.

Change the curb weight of motorcycle may be bad for its power performance, so please surely adopt the cargo weight, passenger numbers and accessories from our suggestion only.

Checking before driving

Before driving, make the inspections as below to reduce accident or damage:

•Steering system

- Flexible turning without jamming.
- No runout or flexibility on steering stem.

•Throttle

- Correct throttle cable clearance.
- smooth operation without jamming.

•Brake assy

- The operation is normal.
- Correct brake liquid level in oil cup.
- Clear pressing point in braking.
- No water and oil residual on brake plate and friction pad.

•Shock absorber

- Press down and normally return.

•Tire

- The air pressure in tire is correct.
- The depth for tire read is within limit.
- There is not crack or damage on surface of tire.

•Oil in engine

- Correct oil level.

•Cooling system

- Correct coolant level.
- No coolant leakage.

•light

- Headlight/Front position light, Tail light/Brake light, turning signal light, rear registration plate light and lighting lamp on instrument could normally get on.

•Indicating light

- Control through switch assy, the turning signal, high beam indicating light could normally work. The oil pressure alarm light, engine malfunction light, water temperature light and fuel alarm light are not on or flashing when engine started.

•Horn

- Fine performance.

•Side stand

- Normally pick up and lay down.

•Back-view mirror

- Sit on the motorcycle to keep it upright, and could see a material with width of 4m and 10m to the tail of motorcycle from back view mirror.
- In case it could not be seen clearly, please adjust the angle of back-view mirror.

Issues need pay attention to during driving

1. Any driver must know well about the motorcycle, the incorrect sitting position or off set during driving may be bad for operation or control of motorcycle; When driving, the passenger need. stably sit on his seat without influence driver. Passenger is an animal is not allowed.
 2. Keep the luggage low to decrease the influence on focus, also the weight of luggage needs evenly spread on both sides, please avoid the luggage extend too long.
 3. The luggage must fix on the motorcycle firmly, make sure it could not move before driving, in case it is unstable in driving, please check its fixing once again, and adjust if it is necessary.
 4. Too heavy or big the luggage is not allowed, the overloading must be bad for driving and performance.
 5. The accessories or luggage may decrease motorcycle performance shall not be loaded, make sure all what you do may not be bad for lighting system, ground clearance, brake performance, side angle, operation, compression distance of tire, working travel for front shock absorber or other performance related to driving.
 6. More weight on handle bar or front fork may be and for turning, and lead to unsafe driving.
 7. Fairing cover, wind shield glass, backrest or other parts with big size may have influence on stability or operation during driving, they increased not only the weight, but also the size, which lower down the power. In case their design lack of test, they may lead to unsafe driving.
 8. Refit to tricycle with side car is not allowed, drawing for other vehicles is also not allowed, and we take no responsibility for refit without authorization.
- The maximum loading: 205kg, including driver, luggage, and accessories.

Driving on road

- Get on the motorcycle from left side and ride on
- Pick up the side stand
- Get the motorcycle upright to the ground, get the handle bar face front, keep its wheel face forward.
- Tightly hold the brake lever.
- Slowly turn the throttle grip to accelerate, while slowly releasing the brake lever, the motorcycle slowly start.
- Wear helmet, gloves, driving boots, protective wear and pans before driving even only for a short driving.
- In case you drive fast, please pay attention to the factors below which bad for your driving.
- Loose cloths
- Overload or imbalance load may be bad for your driving and controlling.
- Don't drive after drink wines, drugs even medicines, even a few alcohol or medicine is bad for your sense and reflection.

Caution

This model equipped the kill switch on side stand, lay down the side stand, the engine stopped immediately.

Danger

Before starting, please pick up the side stand to top position, otherwise, when you turning left, the side stand may touch the ground and lead to accident.

Braking and parking

- Please decelerate first when braking to reduce the speed and use the front and rear brake at same time.
- When braking, your body get front and press down the front shock absorber, so there is more weight suddenly focus on the front wheel, so the front brake is more reliable, so the front brake is more powerful than the rear one and more easily get motorcycle stop.
- When you are driving on maintain way, use the rear brake only is dangerous, under some limit conditions, the brake may overheat and damage, please use the front, rear brake sand engine coordinately to decelerate.
- Driving in water and rain, the brake plate may get wet and reduce its braking performance, be careful under this situation. Under this case, we suggest you dry it up and then continue the operation.

Warning

- After a long driving, when parking, because the engine is very hot at this moment, so keep it far away from kids to avoid hurt.
- Don't park the motorcycle on soft ground to avoid rollover even damage the motorcycle, in case parking on a gentle slope, let its head face to uphill to avoid the turning of side stand and rollover.
- Parking or running on combustibile materials such as dry grass is not allowed, because the three-way catalyzer is working under very high temperature which is very easy to light up the combustibile materials.

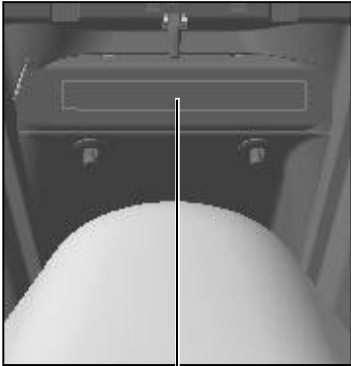
III. Main parameters

Motorcycle parameters		Rear brake type	Single plate, double pistons, floating caliper, and fixed plate/Diameter of 240mm
LxWxH	2100mmx795mmx1390mm	ABS	Double passage prevent locking-up
Wheelbase	1525mm	Engine parameters	
Seat height	780mm	Engine type	Single cylinder/4 strokes/Water cooling/SOHC/Four valves
Ground clearance	140mm	Bore x Stroke	72.0mm x 60.0mm
Curb weight	165kg	Displacement	244ml
Max. loading	205kg	Compression ratio	11.5:1
Max. Weight	370kg	Clearance of air inlet valve	(0.08-0.12)mm
Front wheel loading	72kg	Clearance of air exhaust valve	(0.13-0.17)mm
Rear wheel loading	93kg	Clearance of spark plug	0.7mm -0.8mm
Max. speed	125km/h	Specification of spark plug	CR8E(NGK)
Gradeability	≥28%	Max.net power output/Rotation speed	19kW/8250rpm
Braking deceleration	Follow GB20073-2018	Max. torque/Rotation speed	23N.m/6500rpm
Fuel consumption	≤3.9L/100km (Under WMTC working status)	Idling speed	(1700 ±100)r/min
Fuel tank capacity	14L	Gearbox type	CVT stepless speed change
Coolant capacity	1.5L	Clutch type	Dry clutch
Suspension rack/Brake system		Oil capacity	1.5L for crankcase of 5W/40- SL or above 0.25L for gear box of gear oil of 80W/90-GL or above
Front shock absorber type	Shock absorber/Fork tube φ35mm with stroke of 94.5mm	Fuel supply	EFI system
Rear shock absorber type	Straight pushing shock absorber/Stroke of 103mm	Standard emission	State standard 4th stage
Front wheel hub size	3.0x14	Power transmission system	
Rear wheel hub size	3.5x13	Total transmission ratio	5.8~18.3
Front tire size	120/70-14	Primary CVT	0.758~2.39
Rear tire size	140/60-13	End transmission ratio	7.653
Front brake type	Single plate, double pistons, floating caliper, and fixed plate /Diameter of 260mm		

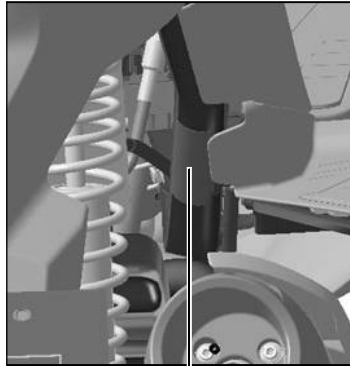
IV. structure of motorcycle

Identification for motorcycle

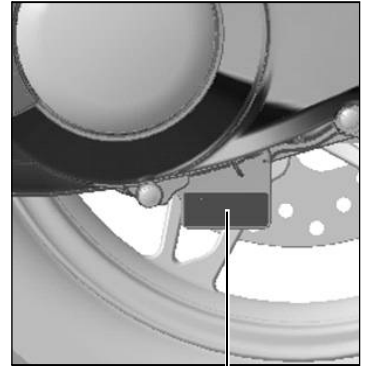
The Vehicle Identification Number (VIN) and Product number and Engine type number and Delivery number



Vehicle Identification number



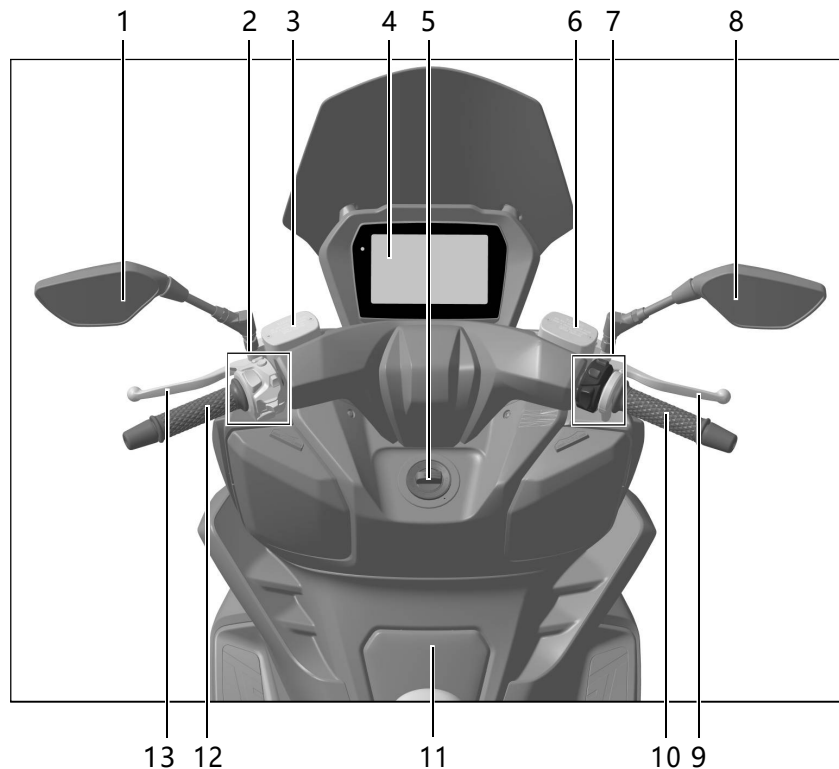
Products number



Engine type and Delivery number

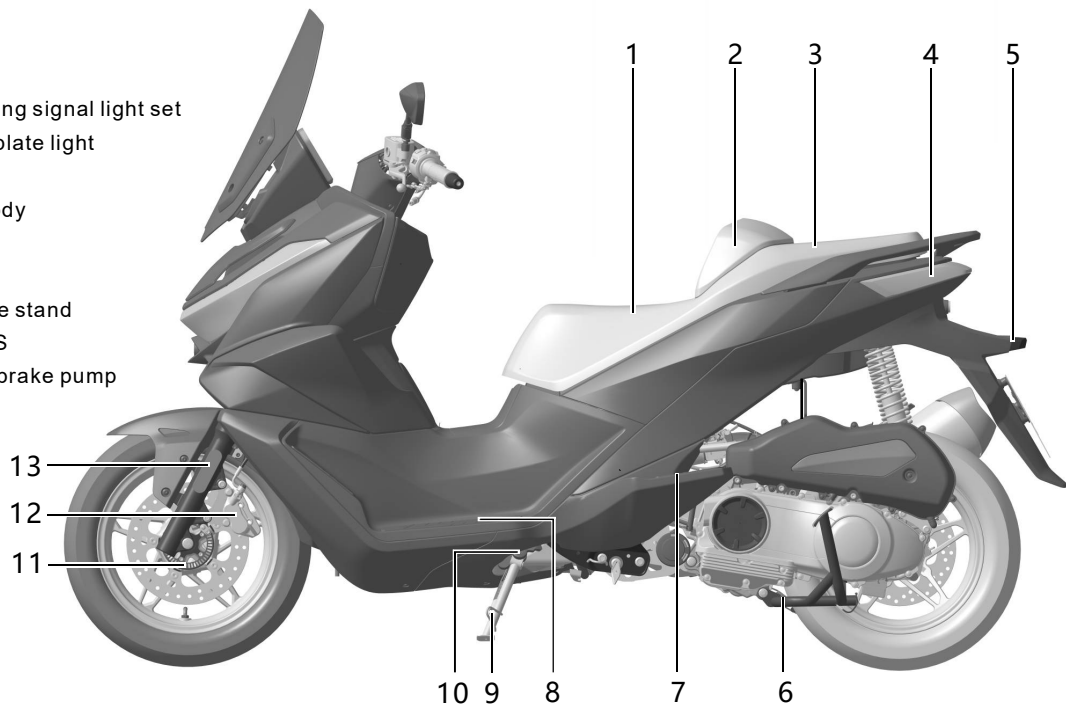
Head part

- 1.Left back-view mirror
- 2.Left switch assy
- 3.Rear brake oil cup
- 4.Instrument
- 5.Ignition switch
- 6.Front brake oil cup
- 7.Right switch assy
- 8.Right back-view mirror
9. Front brake lever
- 10.Greaser
- 11.Fuel tank cap
- 12.Left grip
- 13.Rear brake lever



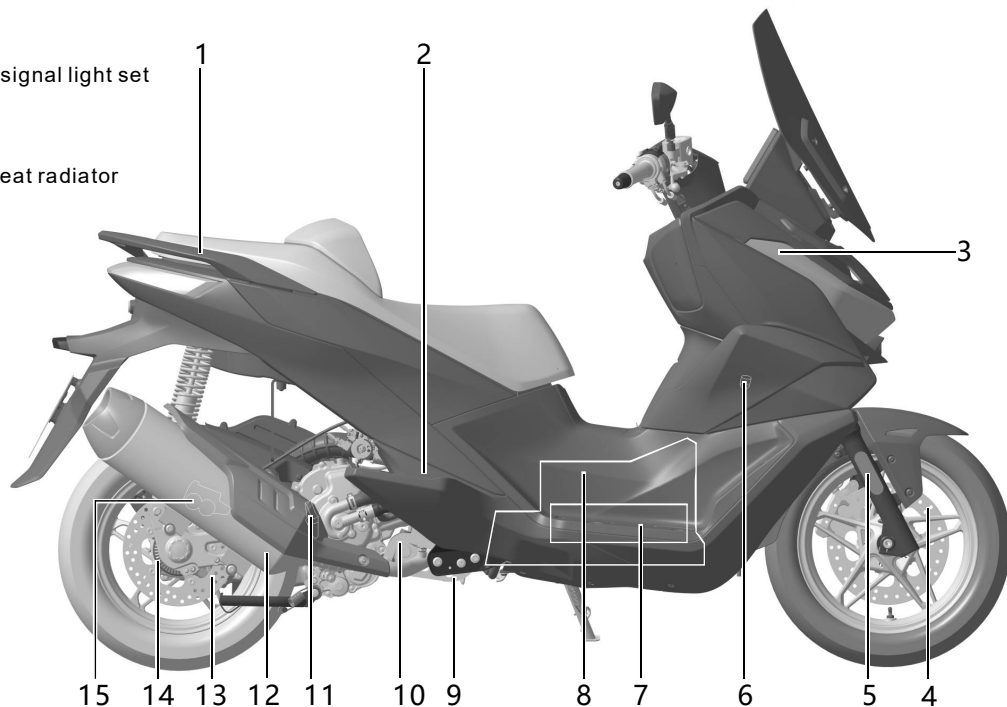
Left side

- 1.Driver seat
- 2.Lumbar support
- 3.Passenger seat
- 4.Taillight, rear turning signal light set
- 5.Rear registration plate light
- 6.Main stand
- 7.Left pillion step body
- 8.Left footrest body
- 9.Side stand
- 10.Kill switch on side stand
- 11.Ring gear for ABS
- 12.Front lower disc brake pump
- 13.Left reflector



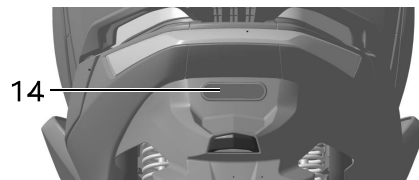
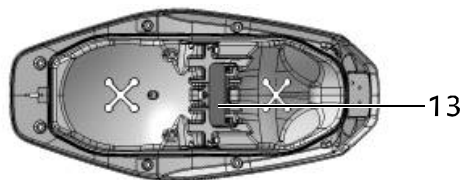
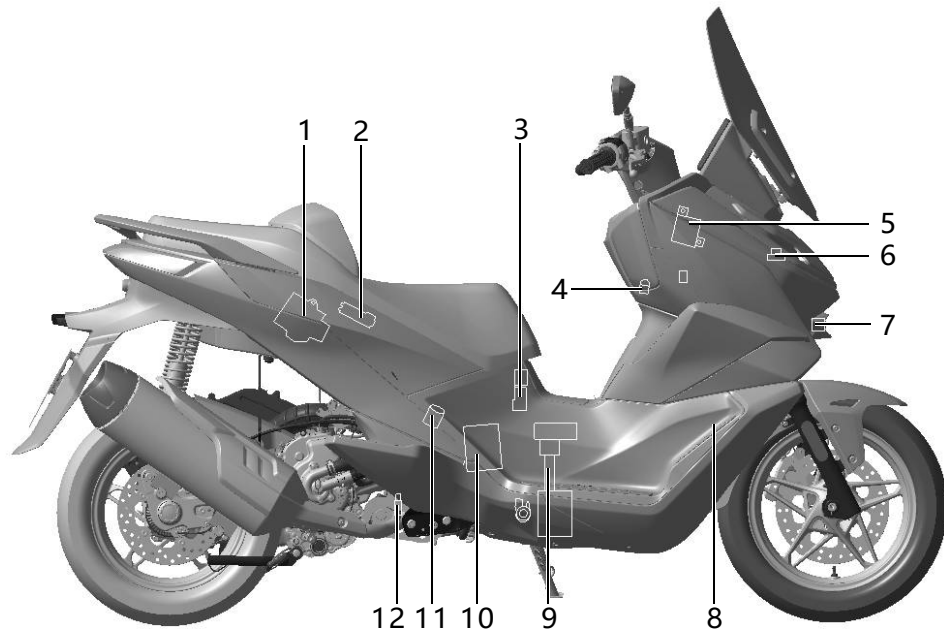
Right side

- 1.Rear armrest
- 2.Right pillion step body
- 3.Headlight, front turning signal light set
- 4.Front disc brake plate
- 5.Right reflector
- 6.Water filling up port of heat radiator
- 7.Right footrest body
- 8.Fuel tank
- 9.Front engine bracket
- 10.Main engine bracket
- 11.Engine oil gauge
- 12.Muffler
- 13.Rear disc brake plate
- 14.Ring gear of ABS
- 15.Rear lower disc brake pump

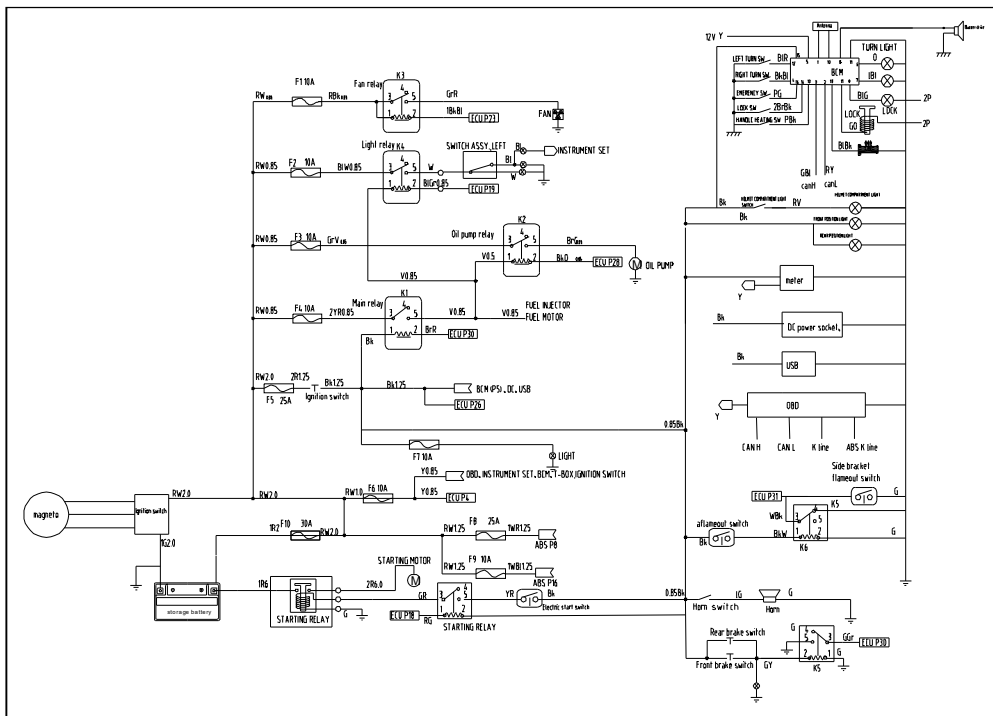


Lower side of seat

- 1.ECU
- 2.Fuses
- 3.Main relay
- 4.Antenna
- 5.Controller for BCM
- 6.T-Box (Selectable)
- 7.Camera (Selectable)
- 8.Horn
- 9.Oil pump relay
- 10.Battery
- 11.Ignition coil
- 12.Oxygen sensor
- 13.Tool kit
- 14.Rear reflector



The simplified diagram of 9 fuses is show as below (The power supply of this model divides to 6 branches, in which each gets power from positive terminal of battery, and each branch has its own fuse who are mutually independent without influence)its own fuse who are mutually independent without influence)





V. Operation


Ignition switch

They ignition switch on this model is in middle of front luggage case, the ignition switch and steering lock are in one piece.


There 2 pieces of key for this model, one is for remote control with a mechanical one in it; Another is the same, please keep them in place.

The ignition, steering, seat and fuel tank's lock share a same remote-control key.


Remote Key: When the ignition switch in the position “” or “”, press the ignition switch, then solenoid valve open and the outer light belt gets on in case the remote key is within the range of 1.2m to antenna, then the ignition switch can be turned. The light gets off after 20s if no more actions and ignition lock gets off.

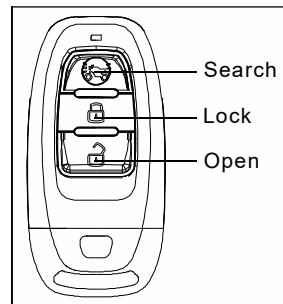
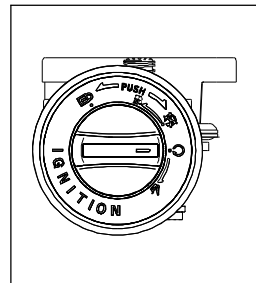
Press the ignition switch, the outer light belt of ignition switch gets on, then turn the ignition switch clockwise to position “”, the outer light gets off, the motorcycle gets power on, meanwhile the instrument begins its initialization.


Pick up the side stand, tightly hold the brake lever (The front or rear one only or both the front and rear together), then press the starting button on the right switch assy, the engine normally starts.


Mechanical key: Press the button of remote key and take off the mechanical key, take off the ignition switch cap, put in the mechanical key, then turn the ignition switch clockwise to position “”, the outer light gets off, the motorcycle gets power on, meanwhile the instrument begins its initialization.


In the position “”, the mechanical key can't be took off.


In the position “”, then the ignition lock gets off and mechanical key can be took off.





In the position “


Turn the ignition switch to position “

Turn the ignition switch to position “

In the position “

Press the remote key “

Press the remote key “

Press the remote key “

Danger

Please don't turn the ignition key to “

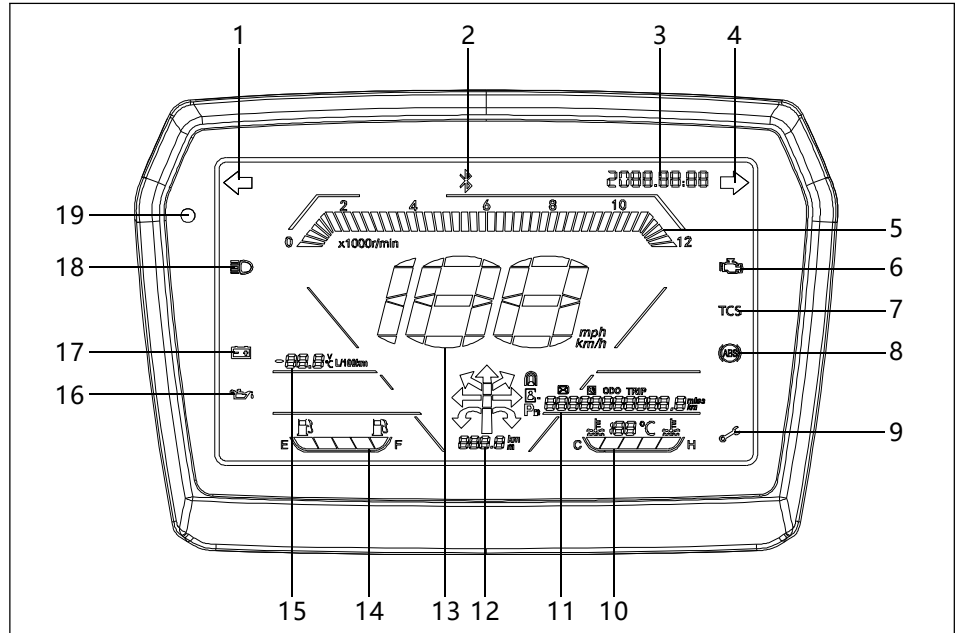
Caution

Even within the range of 1.2m to antenna, put the remote key to some place may also lead to the abnormal communication between the key and motorcycle, which makes failure of motorcycle power on or starting engine. These places are but not only left front luggage case, position near steering stem, front of instrument, and rear luggage case.

Instrument and its indicating light

Negative display instrument:

1. Left turning indicator
2. Bluetooth connection
3. Date/Time
4. Right turning indicator
5. Engine rotation meter
6. Engine malfunction alarm
7. TCS switch indicator
8. ABS malfunction alarm light
9. Maintenance indicator
10. Coolant thermometer and alarm light
11. Total mileage/Mileage subtotal/Call reminder/Bluetooth name
12. Basic navigation
13. Speed indicator
14. Fuel meter and low level alarm
15. Voltage in battery/
Surrounding temperature/
Fuel consumption average



16. Oil pressure alarm light

18. High beam indicator light

17. Voltage malfunction alarm light

19. Photoelectric sensor (position)

Note: This model equipped two kinds of meters, which are negative display and TFT, the user can select according to their own demands.

TFT instrument (some models only):

1.Photoelectric sensor (position)

2.Date/Time

3.Engine malfunction indicator

4.Left turning indicator

5.High beam indicator light

6.Surrounding low temperature indicator

7.Engine rotation meter

8.TCS switch indicator

9.Oil pressure alarm light

10.Voltage malfunction alarm light

11.Bluetooth connection

12.Right turning indicator

13.Surrounding temperature

14.Fuel meter

15.Fuel oil alarm light

16.Total mileage

17.Speed indicator

18.Heated grip(some models only)

19.Tire pressure alarm light/
Front and rear tire pressure display

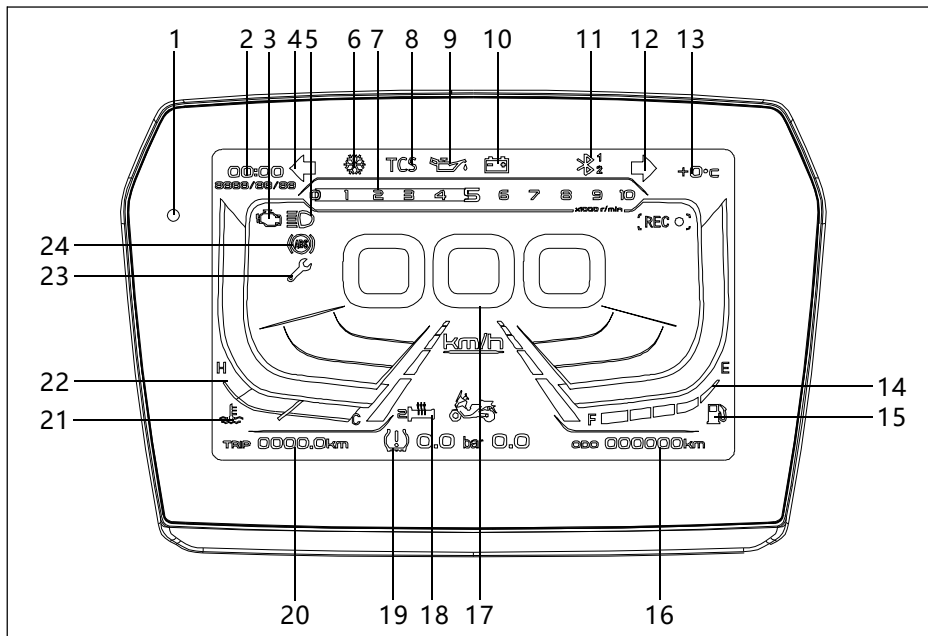
20.Mileage subtotal


21.Cooling temperature alarm light

22.Coolant thermometer


23.Maintenance indicator

24.ABS malfunction alarm light



Turn the ignition key to position “


The display screen gets on and begins its self-inspection, and show you the status of motorcycle at the moment.

The alarm light “


Warning


Direct wash on instrument by high pressure water is not allowed. Wipe up the instrument by gasoline, ethanol or organic solvent is not allowed, or the instrument may partly crack or color fading.

Left turning light “ When pushed the turning signal switch of left switch assy. to “ **Caution**

In case the turning light is damaged or in other malfunction, this indicator light “


Engine malfunction alarm “ When the managing system of engine is in malfunction, the alarm light “ **Warning**




After the engine started, the indicating light “

In motorcycle driving, in case the indicating light “


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Alarm light “” for ABS malfunction

When there was malfunction in ABS system, the indicating light “” gets on.

Turn the ignition key to position “”, the indicating light “” gets on, when the motorcycle started driving, the indicating light “” gets off immediately.

Danger

After the engine started, the indicating light “” goes on or flashing, at this moment, the motorcycle may not be normally stated, and the fuel system may not work.

In motorcycle driving, in case the indicating light “” goes on or flashing, please stop using, then contact the VOGÉ dealers.



TCS indicating light“TCS”

In case the indicating light with mark TCS on instrument is off, which means the TCS is on, turn the left switch assy. to left limit and keep over 3 seconds, the TCS indicating light on instrument gets on, which means the TCS goes off. In case the indicating light with mark TCS on instrument is on, which means the TCS is off, turn the left switch assy. to left limit and keep over 3 seconds, the TCS indicating light on instrument gets off which means the TCS gets on.


Caution


Every time the ignition lock moves to position ON from other position (The process of power getting on), the default for TCS is ON.


Right turning indicating light “”


When pushed the turning signal switch of left switch assy. to “”, the light “” gets on.

⚠ Caution

When the turning signal light got damaged or without getting on due to other malfunction, the indicating light “


**High beam indicating light “


When pushed the headlight switch on left switch assy. upwards, the indicating light “

When pressed the overtaking light switch on left switch assy , the indicating light “

⚠ Caution**

Please periodically check and confirm the normal oil level. The only way for checking the oil level is: Check the oil level on oil gauge to confirm.


**Alarm light “

During engine working, when oil pressure was lower than normal range, the indicator light “

⚠ Caution**

Please check oil level periodically, whose only correct way for inspection is: Confirm the oil level on oil gauge.

⚠ Warning

In case the indicator light “

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Tire pressure display and alarm light (Part of models equipped)

When pressure in front tire is ≤ 1.9 bar or ≥ 2.9 bar, the displaying color for tire pressure is red, the alarm light gets on, when pressure is > 2.0 bar or < 2.7 bar, the displaying color for tire pressure is white, alarm light gets off. 1.9 bar ~ 2.0 bar, the rising is red while pressure falling shows white, 2.7 bar ~ 2.9 bar, the rising is white while pressure falling is red.

When pressure in rear tire is ≤ 2.1 bar or ≥ 3.1 bar, the displaying color for tire pressure is red, the alarm light gets on, when pressure is > 2.2 bar or < 2.9 bar, the displaying color for tire pressure is white, alarm light gets off. 2.1 bar ~ 2.2 bar, the rising is red while pressure falling shows white, 2.9 bar ~ 3.1 bar, the rising is white while pressure falling is red.

In case the display for tire pressure is not any data but a red crossing bar instead, which means there is malfunction in tire pressure monitoring system, please contact service station for inspection. Only when driving speed was over 25km/h or there is change in tire pressure, the sensor send wireless signal to the receiver.

The tire pressure signal receiver works only when engine was started, in case receiving failed, the meter may show you white cross bar.

The meter show you the tire pressure the last time it received. When driving speed is lower than 25km/h, the displaying tire pressure may not be the actual one, during this time, the change of tire pressure may not reflected by meter such as air charging or discharging when motorcycle is parking, the latest tire pressure may not reflect to meter immediately, when driving speed is above 5km/h, it updates.

Caution

Please adopt tire pressure sensor made in VOGÉ factory with given specification only.

When tire pressure sensor replaced, the matching-up of tire pressure needs be done once again, whose details please refer to introduction for meter function.

When matching up tire pressure, please confirm which tire is under matching-up and displaying ID number on meter for sensor, to avoid mistaking the tire one for another.

LCD instrument display

Speed: The running speed of motorcycle. (km/h-kilometers/hour or mph-mile/hour).

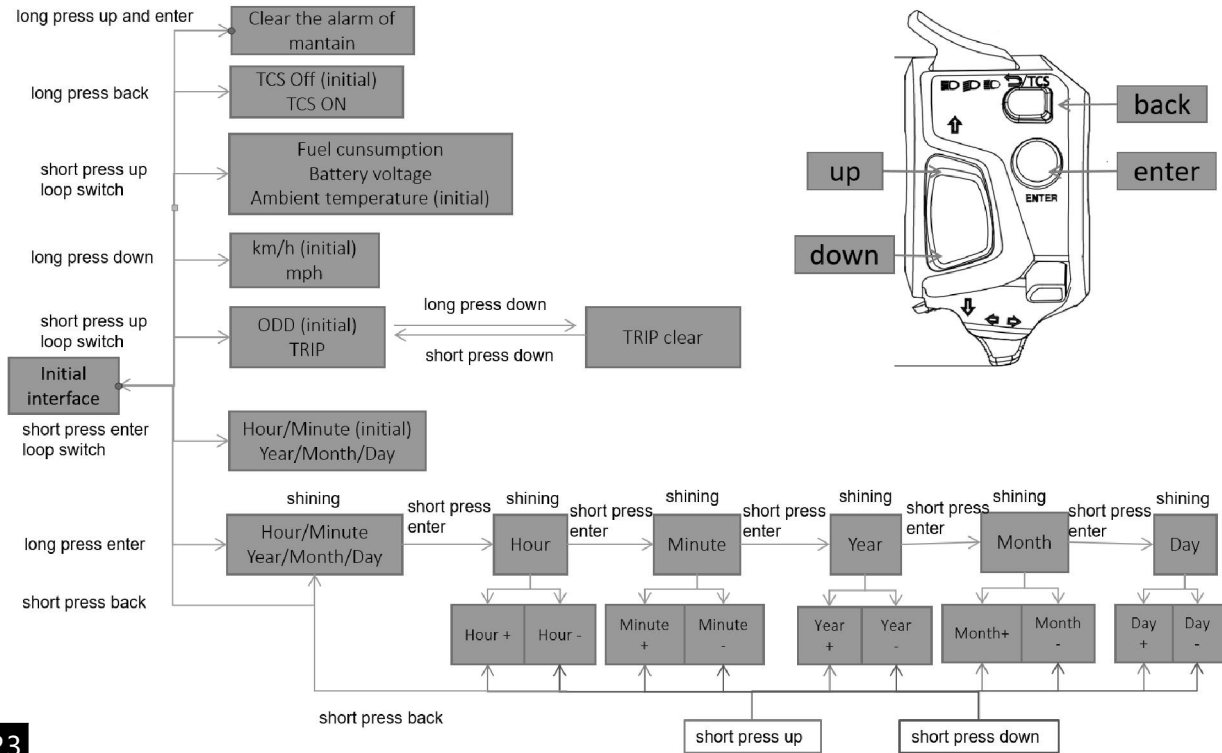
Water temperature: When the temperature was ≥ 112 °C, the alarm light for coolant temperature gets on.

Fuel level: Show you the current fuel residual.

When the residual fuel was ≤ 2 L, the last cell for fuel display is flashing, meanwhile the fuel filling up mark also flashes, which reminds you fill up the fuel as quick as possible.



LCD instrument multi-media control



TFT instrument display (some models only)

Speed: The running speed of motorcycle. (km/h-kilometers/hour or mph-mile/hour).

Water temperature: When the temperature was ≥ 112 °C, the alarm light for coolant temperature gets on.

Fuel level: Show you the current fuel residual.

When the residual fuel was ≤ 2 L, the last cell for fuel display is flashing, meanwhile the fuel filling up mark also flashes, which reminds you fill up the fuel as quick as possible.



Caution

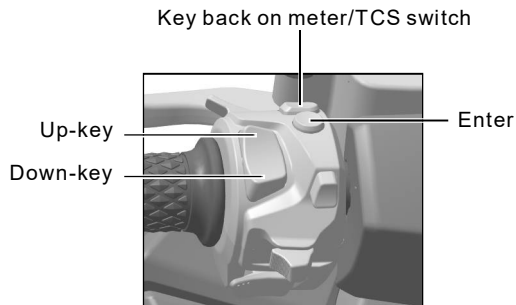
The fuel in the tank is waving in the running, when there is a few fuel, the indicating light may be not on, which is normal, don't worry.

Danger

Operate instrument during driving is dangerous, the hand leaves handle bar may reduce your control on motorcycle.

Operation for TFT instrument (some models only)

1.Introduction for buttons



- 1.Short press the up button to enter inter interface.
- 2.Short press the enter button to enter setting up interface.
- 3.When the Bluetooth was connected, short press the down-key to answer the phone, short press up-key to ring off, connect Bluetooth headset to cell phone first, then talk by phone.
- 4.Short press the back button to return setting up interface.
- 5.1st menu: Motorcycle set, My motorcycle, Quit.
- 6.2nd menu for motorcycle setting: Language selection, metric/imperial shift, interface shift, single mileage reset, clock set, bluetooth connection, tire pressure matching, and phonebook sync.
- 7.Enter my motorcycle, long press the up button to remove the symbol for maintenance.

The first screen of instrument



The second screen of instrument

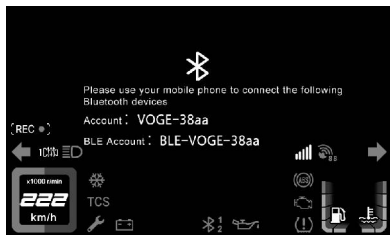


Caution

Short press is 0.5 second, and long press is 2 seconds.

2. Bluetooth connection

(1). Display the name of Bluetooth Short press up-key to enter interface for displaying Bluetooth name, then short press up-key to get back to main page.



(2). Bluetooth connection

Search the similar device name as above, and connected with mobile phone, the bluetooth icon will be illuminated, then the telephone caller ID can be displayed in the instrument cluster.



(3). Simple Bluetooth navigation

(3.1). VOGE Global download



Apple download:
App Store



Android download:
Google Play

(3.1.1). Apple version download:

Scan the upper QR code Via the iPhone camera or search the "VOGE Global" in Apple App store and download.

(3.1.2). Android version download:

Scan the upper QR code Via the mobile phone scanning tools or search the "VOGE Global" in Google play store and download.

(3.2). Navigation manuals

Click the "VOGE Global" App, configure the maps settings, connect the Bluetooth again inside the App, enter the navigation interface and continue the rest operation.(details operation pls check the manuals that involved)



3.Enter page of setup

Get into the 1st menu	Get into the 1st menu by long pressing button enter on instrument.	
-----------------------	--	--

My vehicle




When got into the 1st menu, short press the button up and down to select My vehicle, then short press the button enter to enter Selection mode, when the cursor fix the page, short press the button enter The next page The last page to start shifting, when the cursor select the page of getting back, short press the button back to get back to the 1st menu of interface.








settings

Press the button up or down to select settings; Short press the button enter to get into the 2nd menu.



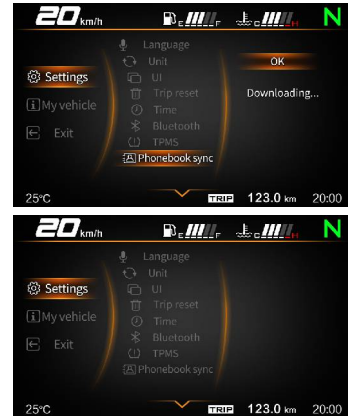
<p>Language</p>	<p>When got into the 2nd menu, short press button up and down to choose Language, short press button enter to enter Language, press button up and down to shift Chinese and English, when the cursor on the item, short press to fix, then short press the button back to get back to 2nd menu.</p>	
<p>Unit</p>	<p>When got into the 2nd menu, short press button up and down to enter Unit, short press button enter to enter Unit, press button up and down to shift Metric and Imperial, when the cursor on the item, short press to fix, then short press the button back to get back to 2nd menu.</p>	
<p>UI</p>	<p>When got into the 2nd menu, short press button up and down to enter UI, short press button enter to enter UI, press button up and down to shift Classic and Sporty, when the cursor on the item, short press to fix, then short press the button back to get back to 2nd menu.</p>	

<p>Trip reset</p>	<p>When got into the 2nd menu, short press button up and down to enter Trip reset, short press button enter to enter Trip reset, press button up and down to shift Confirm and Back, when the cursor on the item, long press to return to upper grade, then fix the cursor on Return, then short press the button back to return to the 2nd menu.</p>	 <p>The screenshot shows the vehicle's settings menu. At the top, it displays '20 km/h' and various status icons. The 'Settings' menu is open, listing options: Language, Unit, UI, Trip reset (highlighted), Time, Bluetooth, TPMS, and Phonebook sync. On the right side, there are 'OK' and 'Back' buttons. At the bottom, it shows '25°C', 'TRIP 123.0 km', and '20:00'.</p>
<p>Time</p>	<p>When got into the 2nd menu, press the button up and down to select the Time, short press the button enter to enter Time, press the button up and down to shift to tens place of hour, short press button enter to enter, then press button up and down to set parameters; Then short press button enter to return to top; Press button up and down to select ones place of hour, short press button enter to enter, press up and down to set parameter, then short press button enter to return to the top; press the button up and down to shift to tens place of minute, short press button enter to enter, then press button up and down to set parameters; Then short press button back to return to top; Press button up and down to select ones place of minute, short press button enter to enter, press up and down to set parameter, then short press button enter to return to the top; When the setting finished, short press the button back to return to 2nd menu. After the mobile APP connected with instrument, the instrument keep the same time display with mobile phone.</p>	 <p>The top screenshot shows the 'Time' option selected in the settings menu, with '20:00' displayed on the right. The bottom screenshot shows the same menu with 'Time' highlighted, and '20:00' displayed on the right. Both screenshots show the same status information at the top and bottom as the first screenshot.</p>

<p>Bluetooth</p>	<p>When got into the 2nd menu, press button up and down to choose Bluetooth, short press button enter to enter Bluetooth, press button up and down to shift On and Off, when the cursor on the item, short press to fix, then short press the button back to get back to 2nd menu.</p>	 <p>The screenshot shows the motorcycle's settings menu. The 'Bluetooth' option is highlighted with a red border. To its right, the status is 'ON' with a blue checkmark icon. Other menu items include Language, Unit, UI, Trip reset, Time, TPMS, and Phonebook sync. The top of the screen shows '20 km/h' and various status icons. The bottom shows '25°C', '123.0 km', and '20:00'.</p>
<p>TPMS</p>	<p>When got into the 2nd menu, press button up and down to choose TPMS, short press button enter to enter TPMS, press button up and down to shift Front and Rear tire, when the cursor on the item, short press to fix the tire matching, discharging the tire until remind you success, then short press the button back to get back to 2nd menu.</p>	 <p>The screenshot shows the TPMS (Tire Pressure Monitoring System) menu. The 'TPMS' option is highlighted. To its right, the status for the front tire is 'Front successful' and for the rear tire is 'Rear Fail'. A motorcycle icon is visible on the right side of the screen. The bottom of the screen shows '25°C', '123.0 km', and '20:00'.</p>
<p>Phonebook sync</p>	<p>When got into the 2nd menu, press button up and down to choose phonebook sync, short press button enter to enter phonebook sync, press button up and down to shift On and Off, when the cursor on the item, short press to fix to enter the download, when the downloading disappeared, short press the button back to get back to 2nd menu.</p>	 <p>The screenshot shows the phonebook sync menu. The 'Phonebook sync' option is highlighted. To its right, the status is 'OK' and 'Downloading...'. The bottom of the screen shows '25°C', '123.0 km', and '20:00'.</p>

Return to interface of setting and instrument

Short press the button back in 2nd menu to return to 1st menu, then press button up and down to quit, then short press button enter to return, quit the setting up mode.



At the front and rear wheel position in interface of My motorcycle, there is display for matter of tire pressure sensor, when the power in battery is not enough, it may report you the abnormality.

Installation and usage instructions for VOGE Global APP

1. VOGE Global APP download

1.1 Apple download:

1.1.1 Scan the QR code above by iPhone camera, when successfully identified, click links to get to store for downloading.

1.1.2 Enter the iPhone App Store to search for "VOGE Global", and download.

1.2 Android download

1.2.1 Open "Google" of Android cell phone itself, then click the button of camera in Search bar, scan by camera, when successfully recognized, it gets to store for downloading automatically.

1.2.2. Scan the QR code above by any scanning tools for the code, it gets to store for downloading automatically.

1.2.3. Get into Play Store of Android cell phone for searching and downloading.



2. Get mapbox token

2.1 Open the browser and search for mapbox, or click Mapbox.

2.2 Enter account information. (See Figure 1)

2.3 Enter payment information. (See Figure 2)

2.4 After successfully registering the account, locate and click on "create a token" to apply for creating a token. (See Figure 3)

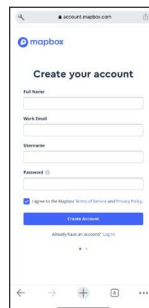


Figure 1

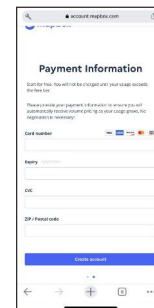


Figure 2

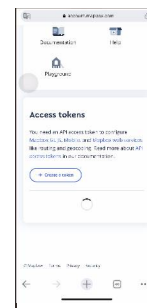
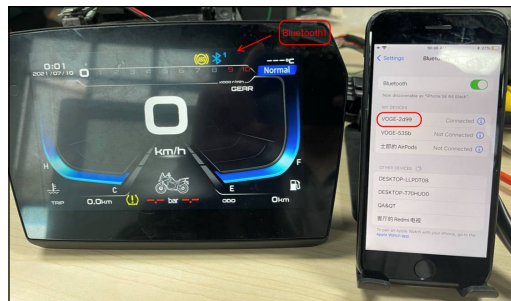
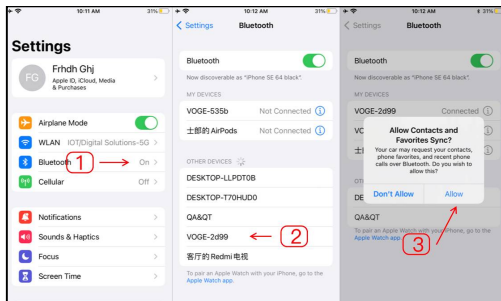


Figure 3

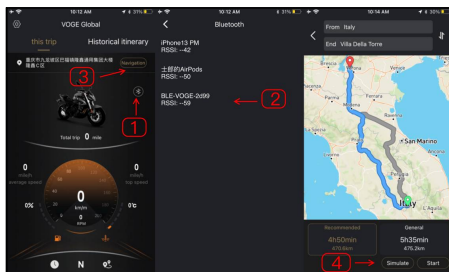
4. Use for basic navigation of Bluetooth (TFT screen)

4.1 Get motorcycle power on, open setup for cell phone->Bluetooth, Select Bluetooth name of (VOGE-) as beginning, when successfully connected, allow to visit phonebook, when connected, the instrument will show you the icon of (Bluetooth 1).



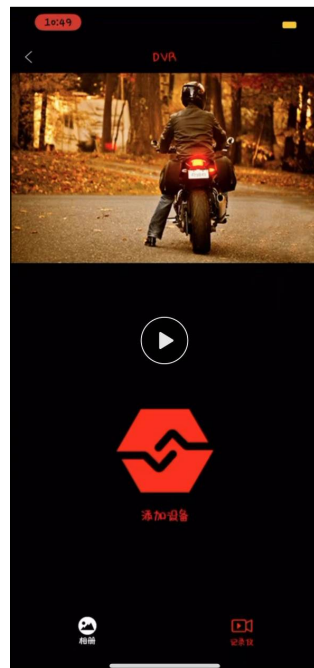
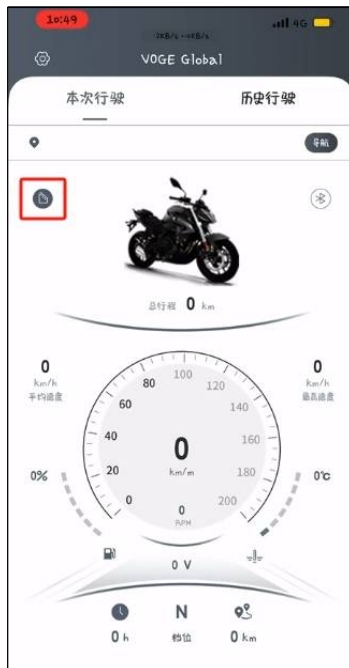
4.2 Open VOGÉ Global APP, Click icon of Bluetooth of (BLE-VOGE-) as beginning for connection, when successfully connected, the icon of Bluetooth will turn yellow, the instrument will show you the icon of Bluetooth 2, at this moment, click down-key on motorcycle's switch to shift to page on instrument of navigation.

4.3 When navigation of VOGÉ Global is working, the instrument will show you corresponding information.

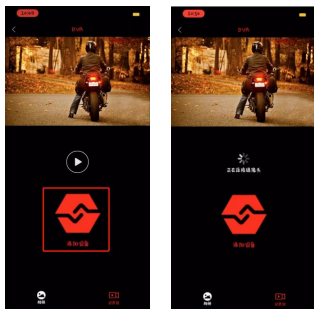


5. The use of driving recorder

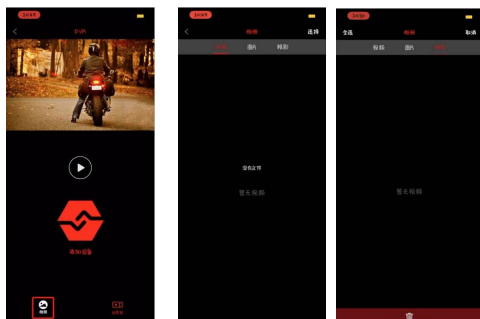
5.1 Open the VOGE Global, click [Fuel meter connection] then get into main page of APP, click the icon of camera on the left, get into main page of DVR;



5.2 Click [Add equipment] in main page of DVR, then confirm connection according to reminder, then find out recorder net with beginning of mt in WLAN in setup of mobile phone, then add it in;



5.3 Click [Photobook] in main page of DVR and get into its page, then click [Selection] to select the video or photo needs to be deleted or added in;



5.4 Click [Recorder] in main page, then shift back to main page of recorder;(See Figure 7)

5.5 When recorder was connected in main page of DVR, click once again the icon for adding equipment to get into page for recording video at real time;(See Figure 8)

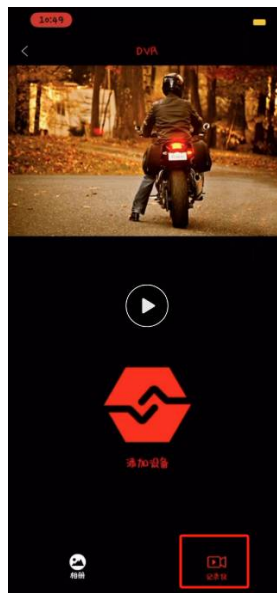
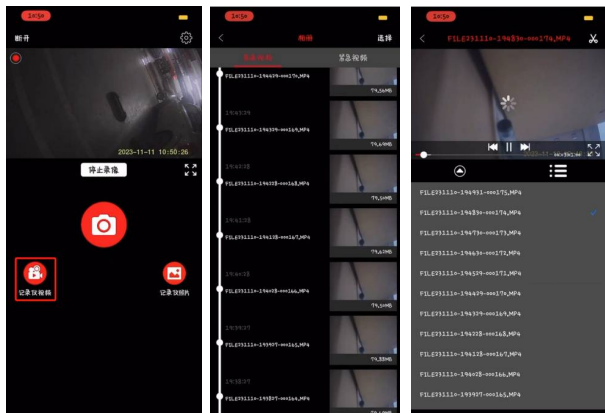


Figure7



Figure8

5.6 In the page for recording video at real time, click [Recorder Video] to open the list of video, click it to get into video playback;



5.7 In the page for recording video at rear time, click [Recorder photo], it gets into photo list. (See Figure 9)

5.8 In the page for recording video, click the icon in right upper corner to get into setup page for camera parameters, please set up according to your demands. (See Figure 10)

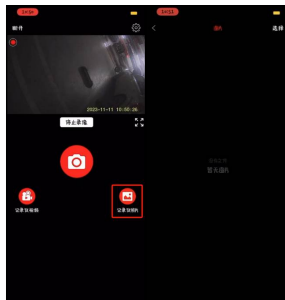


Figure 9

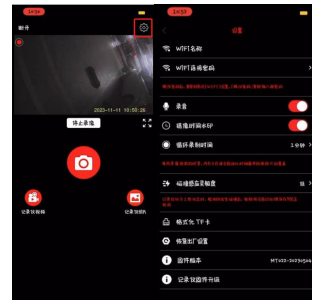


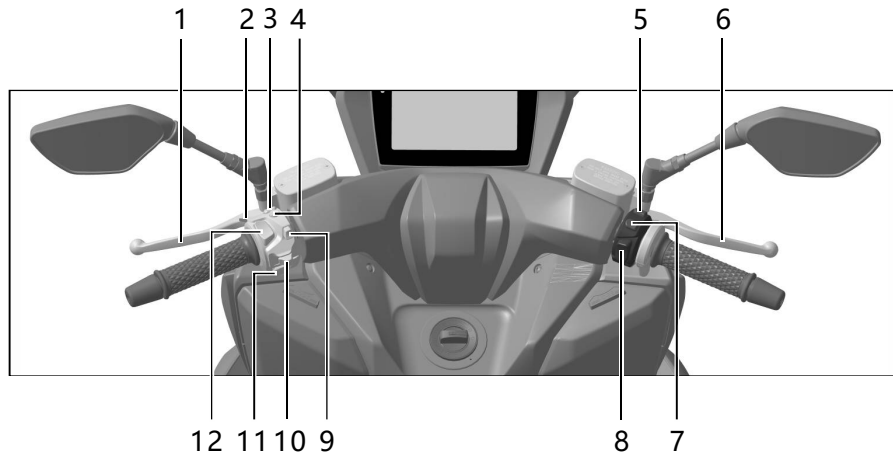
Figure 10

Caution



- The interface of APP and its function may change with update or upgrade of UI, the final interface and function for using is the same with latest downloaded version of APP.
- On different models, the limit of authority and function may not be same.



Steering switch set



- 1.Rear brake lever
- 2.Low/High beam and Overtaking switch
- 3.Key back on meter/TCS switch
- 4.Confirmation key of ENTER
- 5.Photo taking switch (Part of models equipped)
- 6.Front brake lever
- 7.Handle grip heating switch (Part of models equipped)
8. Electric start/Kill switch
- 9.Emergency button
- 10.Turning signal switch
- 11.Horn switch
- 12.Up & Down selection



High/Low beam and overtaking switch

When the high beam/overtaking switch push forward to “”, the high beam gets on, while the indicating light on instrument “” also gets on.

When the high beam/overtaking switch move back to “”, the low beam light gets on, while the indicating light on instrument “” gets off.

When move back the switch “”, the high beam is on, while the indicating light on instrument is on “”, and it recovers when released the switch.



Warning



The headlight could be on when the engine is stopped, the light depends on battery, so please don't long time turn on the light when the engine is stopped.

Button “” for horn

When pressing “”, the horn rings.

Turning signal light switch

When push the turning signal light switch on left switch assy. to the left “”, the turning signal light at left side both front and rear are all on, the indicating light “” on instrument is also on.


When the switch on left switch assy. push to right “”, the turning signal light at the right side both the front and rear are all on, its indicating light “” is also on.


When pressed the turning signal switch on left switch assy. inward, the turning signal lights get off while its indicating light on instrument also gets off.


Emergency button “”

The first press for emergency button is getting on, the second is off.

Electric starting/Kill switch

When pressed the electric starting/engine kill switch to position “”, the electric starting for engine works.

When turn the electric starting/engine kill switch to position “”, the engine is normally working.

When the engine is working, turn the electric starting/engine kill switch to position “”, the engine stops immediately.

The electric starting/engine kill switch is the fastest and easiest way to stop engine.

Front brake lever

Tightly hold the brake lever, the front wheel stopped, meanwhile the rear brake light gets on.

Return key for meter/TCS switch

Long press the TCS switch, get it on or off, when ignition switch got on once again, the default for TCS is on.

When TFT meter got into page menu, press key return to quit page menu and setup.

Key confirm of ENTER

Short press ENTER to get into page setup.

Photo taking switch (Part of models equipped)

When APP was off, short press this switch to take photo for record.

Rear brake lever

Tightly hold this lever, rear wheel brakes, while brake light getting on.

Handle grip heating switch (Part of models equipped)

This model adjusts heat level for handle grip by its adjusting button, whose corresponding display is on the meter.

There are 0-3-2-1 four positions for grip heating, 0 means off, then press 3-2-1 for gradual rise.

When motorcycle got power on, the default position for heating is 0, then press the button one time the heating changes for one position, whose sequence is 0-3-2-1-0-3... When engine wasn't working, press the heating button could see the changes on meter display only, without actual heating up, when engine started, it really works.

Warning

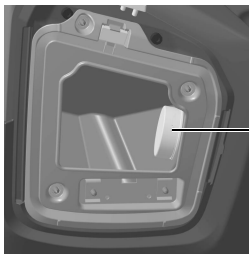
Heat up handle grip for a long time is not allowed, otherwise the rubber grip may damage.

Key UP and DOWN on meter (Part of models equipped)

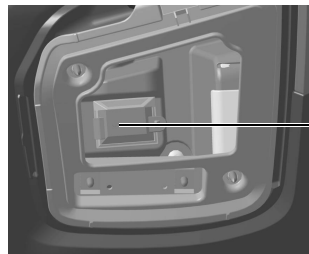
Short press key UP to get into mobile internet page or Bluetooth connection; Short press key ENTER to get into setup page of meter.

USB power socket

This model equipped USB interface for power supply, whose output specification is: 5V 2A, whose water-proof rubber cap is with mark "🔌", lift up the rubber cap, the USB interface for power supply could be normally used.



Type-c (Part of models equipped)



USB

Warning

The connector plug and wire for connection need be prepared by user themselves. Well cover the water-proof cap when used this function to prevent dust or water getting in which are bad for working life.

To keep the working life of battery, when engine stopped, please don't use Type-c and USB interface.

ABS system

1. Deceleration and braking under normal situation, release the throttle first, tightly hold the handle bar and then brake.
2. Decelerate before turning, when passing the turning, do everything possible to keep an even speed, in case it is needed, slightly brake, the sudden braking is forbidden.
3. Decelerate in advance in case met the wet road even water on road, take care.
4. Judge the road condition in advance to avoid sudden braking.
5. When the emergency was met, swiftly release the throttle and tightly hold the handle bar and brake by full power.

Caution

The model with ABS, when fully braking, the bounce with some frequency on brake lever is obvious, this is normal, don't worry, please tightly hold the handle bar.

Danger

In case decelerate from high speed, use the front or rear brake only is dangerous, the motorcycle is easy to skid or get out of control, please use the front and rear brake in a balancing way.

TCS traction control system

Confirm the skidding differential according to speed differential, then compare the speed between the front and rear wheel, finally fix the stability margin of rear wheel. In case more than the stability margin, the control system may adjust the engine torque.

Caution

The operations of TCS under some special road conditions:

In case the front wheel gets off the ground under very high speed, the TCS may decrease the engine torque until the front wheel touched ground once again. Under this case, we suggest slightly return the throttle grip to get into stable driving once again as soon as possible.

Sudden acceleration under full throttle on smooth ground is not allowed, because the engine torque may lead to rear wheel skidding and make it unstable, which could not be controlled by TSC.

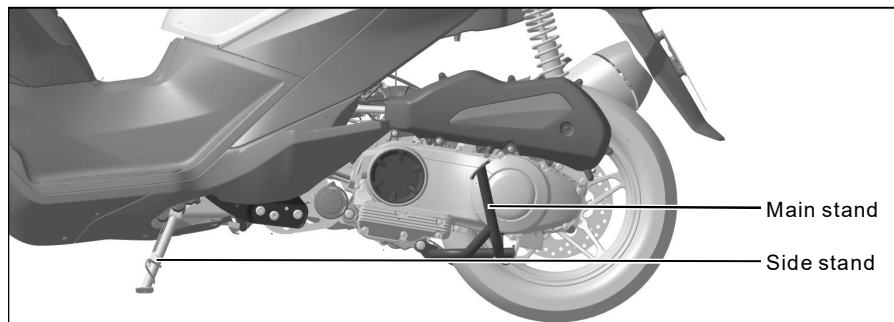
On the very soft ground such as sand or snow, the TCS can largely decrease the driving power of rear wheel even makes it stop, under this case, we suggest stop the TCS at the moment.

Except the road conditions above, for the safe driving, please always open the TCS.

The ON/OFF shift of TCS please refer to P19 and P41.

Main stand system

This model is designed with side and main stand.



Warning


1. Please park the motorcycle on solid and flat ground, otherwise the parking is not stable.
2. In case the motorcycle need be parked on slope, make its head forward to uphill to avoid turnover due to turning of side stand.
3. The design of side stand takes more consideration for the weight of motorcycle itself, so don't take your body on motorcycle when adopting the side stand to avoid distortion due to overweight.

Engine starting

The side stand is picked up.


Check if the remote key is in the range of 1.2m to motorcycle.

Turn the ignition switch to position “

When all the conditions above achieved, the left or right hand need to hold brake lever tightly to keep safety, the right hand can press the electrical starting button “

Start the engine to let engine keep idling until fully pre-heated.

This model is designed with prevention for wrong ignition, the engine could be started under conditions below only:

The ignition switch is at the position ON of “

Danger

The emission gas of motorcycle includes CO, which is a gas without color, smell but poisonous.

Idly run the engine in room without ventilation or poor ventilation is not allowed to avoid get poisoned.

Warning

Enough pre-heating makes better lubrication, to decrease engine abrasion, the colder the weather the more pre-heating minutes are needed. Long time idling working of engine is not allowed, because the poor heat radiation lead to engine overheated and damage the inner parts.

Under cold conditions, suitably turn the throttle grip while pressing the starting button to easier start.

The lubrication works only when the engine is running, so don't push the motorcycle forward for a long way when the engine is stopping. After the engine started, check the flashing or abnormal power on of indicating lights on instrument, in case it is, please top the engine and make corresponding inspection.

Fuel filling-up

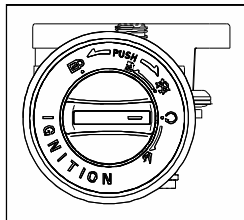


This alarm light reminds you fuel filling-up

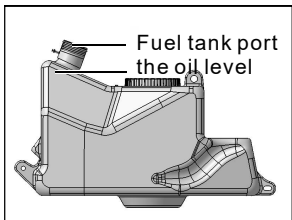
Caution: The fuel is not enough may lead engine starting failure or bad power performance, under this case, continue the use may damage the fuel pump.

Completely run out the fuel in the tank is not allowed, fill up the fuel before alarm light getting yellow.

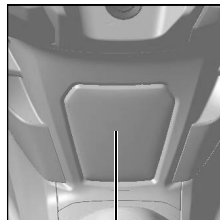
Please adopt unleaded or less lead gasoline above 92#.



Ignition switch



Fuel tank capacity: 14L



Fuel tank cap

Danger

Please stop the engine when filling up the fuel and get it far away from spark, smoke, fire or heat source.

Warning

The fuel is corrosive to painting surface, get its color fading and ugly. In case there is fuel on the painting surface, please wipe it up.

The fuel may expand when it is hot, fully fill up may lead to overflow due to too strong the internal pressure makes fuel tank distort.

When filling up the fuel, don't make it too full, let the fuel reach the bottom of anti-surge ring on fuel tank's port is enough.

VI. Malfunctions

Too hot the coolant



This alarm light on means too high the coolant temperature.

When the engine overheated, continue the driving may damage the engine, so please follow the instructions below. Stop driving and engine until the indicating light off. Check coolant and heat radiator when the motorcycle completely cool down.

-Check coolant level: In case too low the coolant level, fill it up.

-When the coolant temperature light got on, which means the fan of heat radiator is without working, please contact the service station for troubleshooting, it is better the station authorized by us.

Insufficient coolant

We suggest the operation below when the coolant is not enough or the heat radiator blocked by mud or sand:

-Reduce the loading to decrease the engine heat.

-Keep the engine idly run when in the traffic, don't turn the throttle to avoid engine temperature rise.

-In case the operation above fail to cool down, please stop the engine and contact the service station for troubleshooting.



This alarm light on means there is malfunction in engine. Under this case, keep driving may lead to engine ignition failure or fuel supply stopped.

Please stop the engine, turn off the ignition switch, then start once again, in case the alarm light goes off, please keep driving, in case still on, please contact the service station nearby.

Engine starting failure

The side stand is laid down.

Didn't hold brake device tightly.

If the fuel is enough.

If the power in battery is enough.

Difficult engine starting

-If it is in cold temperature, in case it is, slightly turn the throttle when starting.

-Battery power loss.

-Too thick the oil; Confirm if the oil need be replaced.

Weak engine power output

-Check if the element of air filter is clean.

-If the motorcycle is at high altitude.

-Incorrect check and adjustment may damage your motorcycle and let you fail to find out the malfunction, which can't get the service of Quality Guarantee. In case you don't know much about the correct operation, please contact the VOGÉ dealer.

Malfunction's inspection and maintenance

The content for malfunction inspection and repair in this book can only help you on normal problems, of course they are just basic ones, in case the troubleshooting failed, please contact VOGÉ dealer.

VII.Grinding-in

Grinding-in for new motorcycle

The grinding -in period is important to working life and fuel consumption, so before driving, read the User Manual carefully. (The correct driving within the first 1000km is good for motorcycle performance and bring you fun of driving.

Grinding-in for engine

- No matter the engine is hot or cold, before starting, idly start the engine for enough time, to let oil spread to all positions need lubrication.
- During this time, the speed in the first 500km should not be over 50km/h, the second 500km without over 70km/h.
- During this time, in case the engine works under fixed low speed with light loading, this may lead to bad matching for parts and greater wear-out, so please don't drive under even speed with light loading for long time.
- During this period, the rotation of engine need be changed frequently, don't let it work under a fixed speed for a long time.

Grinding-in for tire

- The surface of new tire is smooth, so it is dangerous to driving too fast or at turning. To get the strongest gripping force, the grinding-in is important.
- In the first 200km, you can drive at turning in low speed until all angles of tire tread completely grinded-in.
- The protrusion on tire tread is dangerous, the grinding is a good way for avoid protrusion on tire tread.

Grinding-in for brake system

In the initial 500km, the new brake plate hasn't reached the best friction, to make up for braking loss, you can more powerfully draw the brake lever

 **Danger**

To get the best tire grinding-in, in its first 200km, sudden acceleration, turning or braking are not allowed.

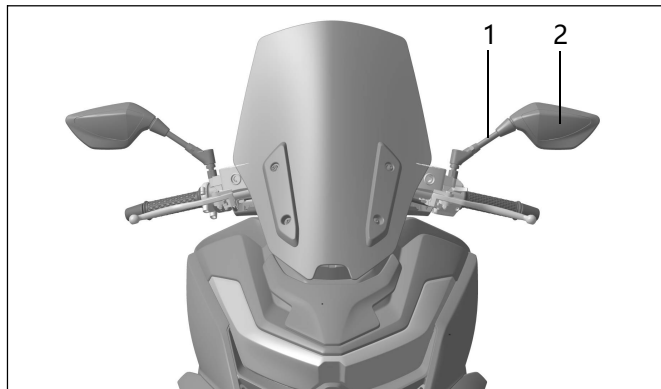
VIII.Adjsutment

Adjustment for back-view mirror

Adjust the back-view mirror to correct position according to your own stature and driving posture.

The back-view body 1 and mirror case 2 could be adjusted by hand directly.

When back-view mirror adjusted, please lock up the nut.



Warning

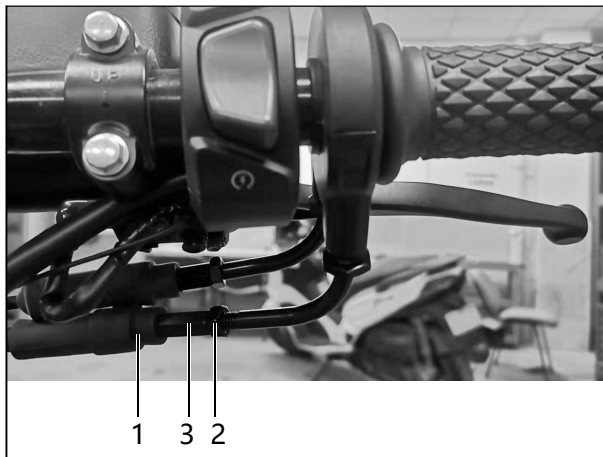
Sit on the motorcycle and keep it upright, make sure you can clearly see the object in range behind the tail of motorcycle by 10m with width 4m.

Danger

Adjust the back-view mirror during driving may reduce your control on motorcycle, so please don't do this work during driving.

Adjustment for throttle grip

- The throttle lever is for controlling engine rotation
- Turn to your own direction is acceleration, the opposite direction is deceleration.
- The adjustment for clearance of throttle cable
- Remove the rubber jacket 1.
- Loosen the locking nut 2.
- Turn the adjustor 3 to let the clearance of throttle cable to suitable distance.
- Lock up the nut 2.
- Re-assemble the rubber jacket 1.



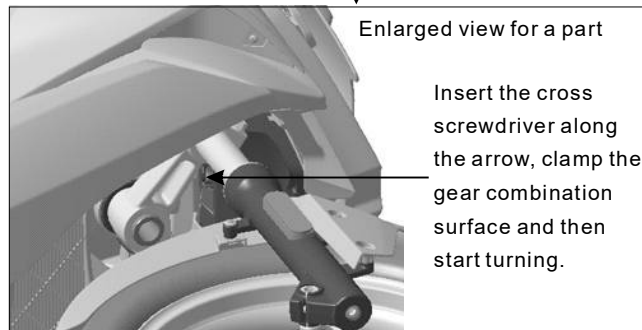
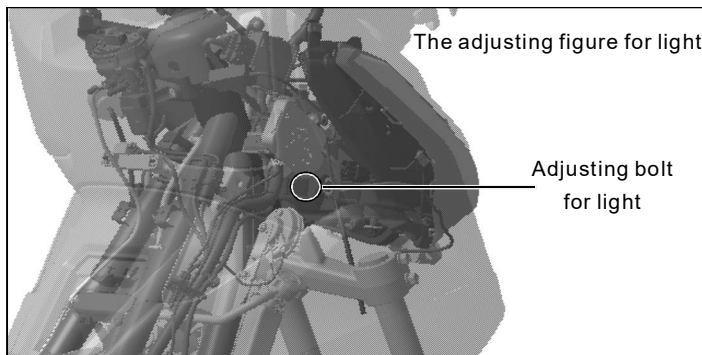
⚠ Caution

After the clearance of throttle cable adjusted, make sure the throttle lever could return automatically whose idling speed should not rise.

After the clearance of throttle cable adjusted, turn the handle bar to the left and right limit, whose idling speed should not rise.

Adjustment for headlight dimmer

- All the height of headlight must be correct under any loading of shock absorber.
- To keep safe night driving, adjust the light angle of headlight to suit different loadings.
- The adjusting screw for lighting height is locating on rear side of headlight, whose adjusting tool is cross screwdriver (Refer to picture on the right).
- Turn the adjusting screw clockwise, the lighting height gets low.
- Turn the adjusting screw anticlockwise, the lighting height rises up.



Danger

In case you don't know much about the height of light, please contact the VOGEL dealer.

IX. Inspection, repair and maintenance

Fuel

The fuel parameter when you purchasing the motorcycle is the most fuel saving way or under a fixed speed, which is quite different to your actual driving, which may be higher than the fuel parameter for reference only.

- The operations below may decrease the fuel consumption under correct driving:
- The driving shall be gentle, stable and without sudden braking as possible, the re-start and acceleration may use more fuel.
- Driving in the city is bad for fuel consumption, the frequent stop and move means frequent start of engine.
- Avoid driving for short distance. The fuel consumption in the first km after started is double times to normal situation due to the motorcycle hasn't reached the best working temperature.
- In case the air pressure in tire is not enough may increase the rolling resistance of wheel, and then increase the fuel consumption.
- Strictly follow the Period Maintenance table is important to save fuel.

Except the causes above, you may become more skillful with the mileage rise, for more driving fun, you may usually make sudden acceleration or deceleration, at this moment, the fuel consumption uprises compare to your former stable and gentle driving, which actually because of your change of driving style.

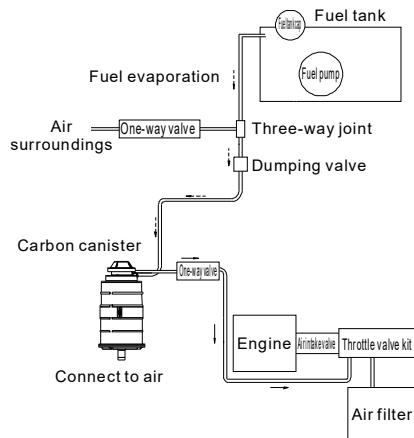
The fuel evaporation

When the fuel evaporation system gets failed, please contact the VOGÉ service station. Refit on fuel evaporation system is not allowed, otherwise the emission may not meet the standard. After removal and repair, check the connection of tube joint, leakage of pipeline, or block; Check the squeeze, crack or damage on rubber hose. The fuel vapor was released into carbon canister through the desorption tube, when the engine stopped, the activated carbon in the canister absorb the fuel vapor; When the engine is working, the fuel vapor in the carbon canister releases into combustion chamber through desorption tube join the combustion, which prevent the fuel vapor get into air directly to be pollution.

The absorbing tube also make the air pressure in fuel tank get balanced, when the air pressure in fuel tank was lower than air outside, supplement the air pressure through the absorbing tube on carbon canister; In this case, please make sure all the tube smooth without blocking and squeeze, make sure the correct installation of anti-toppling valve, otherwise the fuel pump may damage or fuel tank may get distortion even damage other parts.

The fuel evaporation control system works as below:

- (1) When the gasoline in fuel tank gets heated, the gas vapor get out, absorbed after get through the end TANK of carbon canister of dumping valve.
- (2) When the motorcycle inclined over 60° , the dumping valve gets closed, the gasoline failed to flow into carbon canister through dumping valve.
- (3) The fresh air gets to end PURGE through end AIR (Connect to air) and brings fuel evaporation into throttle valve, then gets through air intake tube and joints combustion in engine.



Connection of fuel evaporation control system

Three-way catalyst

There is three-way catalyst in air exhausting system, which reduce the harmful agent in emission gas. The bad engine working may damage the three-way catalyst, so the actions below need be followed:

- Make period maintenance according to the stipulation in Quality Guarantee book
- When the engine works unstably, please contact VOGÉ dealer as soon as possible.
- When the fuel alarm light is on, fill up the fuel as quick as possible, too low the fuel level may lead to unstable fuel supply.
- Don't start the engine by pushing or dragging the motorcycle.
- Cut off the ignition when it is in idling only.

Warning

The three-way catalyst is fragile and expensive, please adopt the gasoline without lead, in case the gasoline with lead adopted, it may damage the three-way catalyst and other important parts.

Danger

Driving or parking on combustible material such as dry grass is not allowed, the working temperature of three-way catalyst is very high, it may catch fire if drive or park on combustible material.

Tool box

The tool box is laid under the seat, open the seat, it could be seen.

After driving under bad conditions, make lubrication after washed up or driving in the rain.

Moving parts and their maintenance

For safe driving, keep the good lubrication for moving parts is a necessary work for getting its working life longer.

- Brake lever's shaft.
- Shaft for main stand.
- Shaft for side stand.
- Shaft for pillion step and returning spring.

Caution

Lubricant grease of lithium is recommended.

Battery

Maintenance for battery

The battery on this model is completely free of maintenance which needn't check the electrolyte level and its ratio, but need to check the power charging periodically.

Caution

In case it is possible, charge the new battery by 30 minutes for the first time, which could effectively make working life longer.

The power charge for battery

In case the ignition lock is off, while the voltage of battery is lower than 11.5V, we suggest charge the battery.

- Charge the battery by stable DC power source or use the suitable power charger and strictly follow its instruction.
- The DC charging voltage shall be DC (14.5±0.3)V with current no more than 1A;
- The charging hours is 6 to 8, don't let the current than the maximum limit.
- The overcharging may shorten the batter working life, so don't adopt this way.
- Cut off the power circuit with motorcycle before charging.
- Usually check the cleanliness of terminal or wire joint, in case already corroded or oxidized, please clean it up.
- In case the motorcycle is usually in driving, the motorcycle may charge the battery automatically. In case just a few times or driving for short time, the power in battery may not be enough. The battery may discharge by itself, whose speed depends on the battery specification or surrounding temperature. When the surrounding temperature gets rise, the discharge speeds up, for example, the discharge speeds up by 100% with each temperature rise by 15°C
- In case the battery is without suitable charge in cold weather, the electrolyte may get frozen, then makes the battery damage or terminal distort, make the battery full of power can let it stronger in low temperature.
- Parking for a long time without driving need to cut off the negative terminal of battery first, otherwise the electrical parts on the circuit may gradually make power run out.
- Parking without driving more than 1 month need to charge the battery monthly. In case the battery is without charging for a long time may lead to natural failure.
- Correctly dispose the abandoned battery or electrolyte, don't let it be the pollution to the environment.

Danger

The battery may produce hydrogen, so keep it far way to heat source of park.

Wipe up by dry cloth may produce spark of static electricity, to avoid this, please adopt wet one.

Disassembly and re-assembly for battery

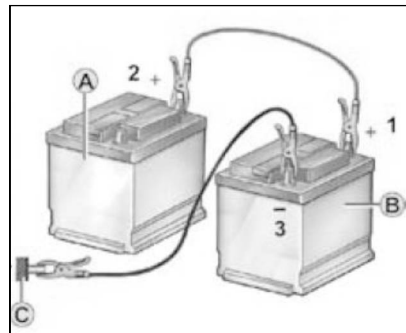
- Before the disassembly and re-assembly, turn off the ignition switch first.
- Remove the negative terminal first when disassembling the battery, then the positive one.
- Install the positive terminal first when re-assembling, then the negative one.
- Every time when re-assembled the battery, turn on the ignition switch for 1 minute and then turn off to let the electrical equipment initialize.

External power supply

- When the power in battery fail to start engine, the outer power source could be adopted for engine starting.
 - When the outer power source is adopted, use the wire clip for spring only of completely insulated to avoid short cut or non-jump spark between guiding wires.
- The battery A is the power source on motorcycle while the battery B is an outer one. The positive terminal 1 on outer power source B connect to positive terminal 2 on power source A on motorcycle, while the negative terminal 3 connect to the metallic part C on engine to connect the ground. Start the engine, in case failed, wait for minutes and then start once again to protect the engine and battery. Before removing the guiding wire of outer power source, let engine run for minutes, then cut off the negative wire and ground wire first, then the positive wire.

Warning

Don't put the battery up side down, otherwise the electrolyte may flow out from the breathing hole.



Air filter

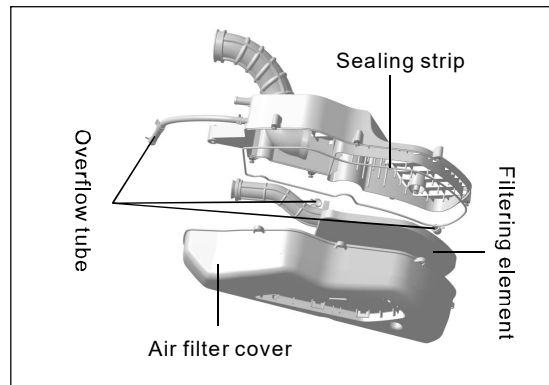
The air filter is at upper left side of engine.

Maintenance for overflow tube of air filter

- Check transparent overflow tube at lower front side and the place under air filter randomly, in case there is oil collecting in it, please drain them off and clean up.
- Loosen tube clamp, remove transparent overflow tube or its plug (Overflow tube at lower front place).
- Drain off the oil, clean up overflow tube and wipe it up.
- Re-assemble overflow tube, tube clamp and plug back in place, check and make sure the overflow tube is without dropping off.
- In case the filtering element of air filter is blocked by dust, the resistance for air intake may increase, and the power output of engine may fall, and fuel consumption gets rising.
- Driving under dusty conditions, please check, wash, and replace filtering element more frequently.

Replacement for filtering element of air filter

- Remove screw on cover of air filter, then remove the air filter cover as a complete set.
- Take out filtering element of air filter and check it, in case it is dusty or greasy, please replace.
- Assemble the filtering element to its original place.
- Remove sealing strip in groove of air filter body, replace the sealing strip for a new one, then press it into the groove on air filter case by hand, please don't put the joint of sealing strip into groove on lower side.
- Slightly snap the air filter cover in place, then fasten by screw.



·In case the re-assembly for filtering element of air filter is incorrect, the dust may get into engine bypassing the element and damage engine, please assemble filtering element correctly in place.

Washing up for filtering element of air filter

-Wash the sponge by neutral cleanser.

-Press by clean cloth, absorb the sponge until it dried up.

-Immerse the sponge into oil for it only.

-Slightly pinch the sponge (No twisting), get the oil drop out as possible.

-Other steps for re-assembling are the same to replacement of filtering element.

Warning

Driving under dusty conditions, please wash and replace filtering element more frequent, please don't wait until it needs maintenance.

Every time remove the air filter cover, the sealing strip must be replaced. Broken air filter case and failed sealing strip may get dust, mud or water get into engine and make it damage.

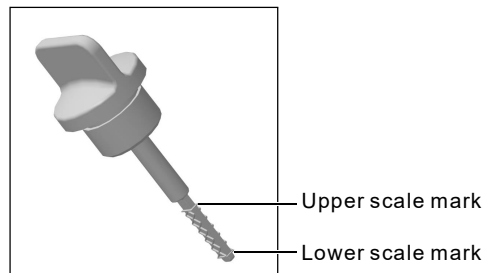
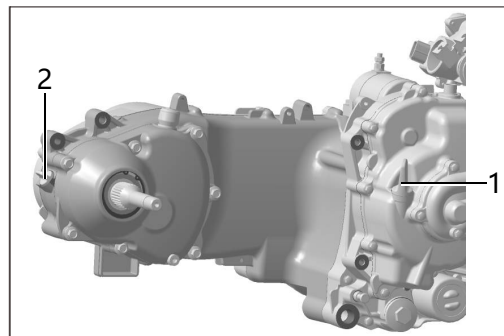
Oil in engine

engine Check the oil level

- The oil inspection window and filling up port are both at the right cover of engine.
- The checking for oil level:
 - Do this work when the engine is cold.
 - Keep the motorcycle upright.
 - Remove the oil gauge 1st and 2nd to check the oil level.
 - The correct level shall be within the upper and lower scale lines of oil view window.
 - In case the oil level is higher than upper line, outlet some oil.
 - In case the oil level is lower than the lower line, inlet some oil.
 - No matter inlet or outlet, check the oil level once again when the operation finished.

The maintenance for oil in engine

The oil can make sure the effective lubrication for parts in the engine, besides more, the oil helps cooling down the engine, in addition, the oil is also good for sealing the engine, so the maintenance of oil is very important.



·Oil draining off:

-In case too high the oil level, please remove oil drainage bolt by socket wrench, the oil drainage bolts are at middle of engine bottom and left side of tail place.

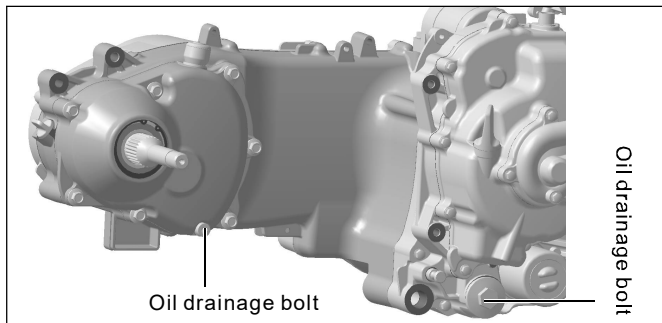
-Get suitable oil outflow then fasten the oil drainage bolt back in place.

Too low the oil level may damage the engine, also too high the level.

Please always keep oil at correct level.

⚠ Danger

The oil drainage bolt is near the muffler, please drain the oil off when the bolt and muffler basically cooled down, when draining the oil, protect yourself from hot oil to avoid scald.



⚠ Caution

The oil may expand with temperature rise, so its level also changes.

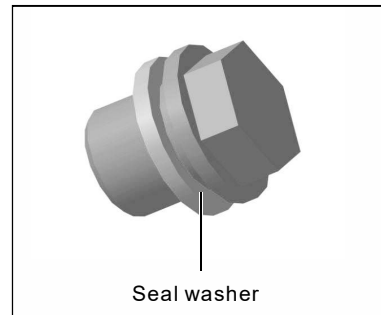
The hotter the engine the higher the oil level, while the colder engine with lower oil level, which both are normal.

When checking the oil level, the motorcycle must be upright, which means vertical to ground. The oil drainage needs be kept above 10 minutes to make sure oil totally drains off.

Replacement for engine oil

- Replace the engine oil when maintenance period reached.
- Replace the oil when engine is hot to totally drain off the old oil.
- The replacement for oil:
 - Keep the motorcycle upright by standing rack.
 - Turn the cap of oil filling-up port anticlockwise.
 - Lay an oil tray under oil drainage bolt, then remove the bolt by tools and drain off the old oil.

Fasten the oil drainage bolt before filling up with new oil.



Warning

Replace the oil drainage bolt and its seal ring for a new one when re-assembling, in case still use the old one, it is easy to make oil leakage.

Danger

Drain off the oil when the engine is hot makes total drainage, but the hot oil and muffler may get user hurt, so before the drainage, wait for the bolt and muffler basically cooled down.

Oil filling up for engine

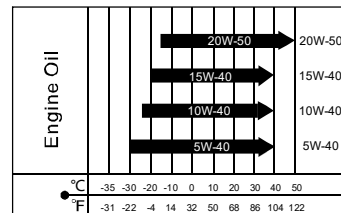
- Confirm the oil element already replaced and its cover already assembled.
- Confirm the oil drainage bolt and gasket are both replaced and re-assembled.
- Fill up with fresh oil from its port on crankcase, whose volume shall be 1.4L.
- Fill up with fresh gear oil from its port on gear box, whose volume shall be 0.25L.
- Start engine and let it idly run above 2 minutes.
- Stop engine and wait for at least 10 minutes, then remove oil gauge to check oil level, when checking it, the motorcycle must keep horizontal and upright to ground, screw off the oil gauge and check oil level, in case the oil level is under LOWER scale mark, please fill up with oil until it between UPPER and LOWER scale marks.

Caution

Replace oil when engine is warm (Not too hot to hand).

The specification of oil: For crankcase shall be 5W/40-SL or above, with capacity of 1.4L (When replaced filtering element is 1.4L, breaking-up crankcase needs 1.5L), The oil for gear box shall be 80W/90-GL or above, with capacity of 0.25L.

Please dispose the replaced oil and filtering element in environment friendly way.



If you need to use them in winter, please exchange 5W-40 or 0W-40 low temperature resistant oil and you need to exchange 10W-40 or 20W-50 oil again in Summer.

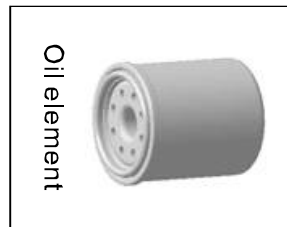
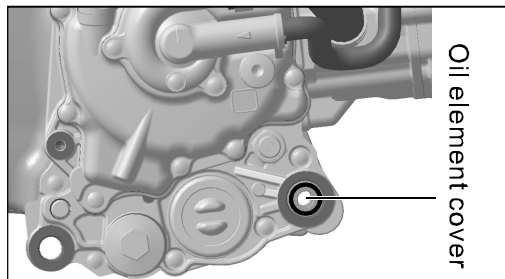
Warning

Wrong oil specification or bad oil may damage the engine, EFI system and shorten the working life of spark plug and catalyst in muffler, don't use them.

Replacement for oil filter's element

- When every maintenance period was reached, please replace secondary oil filter for engine.
- The replacement for secondary oil filter shall be done when oil in engine was drained off.
- Keep motorcycle upright by parking stand, whose front and rear wheel touch horizontal ground.
- Lay an oil absorption paper or cotton cloth under oil filtering element's cap of engine to avoid oil touching engine surface who getting it dirt when the cap removed.
- Remove secondary oil filter on the right side of engine by tool.
- Drain off oil in filtering element.
- Replace the secondary oil filter for a new one.

The fastening torque for oil drainage screw plug is (10 ~ 15) N.m, while the fastening torque for secondary oil filter is (9 ~ 13) N.m



Warning

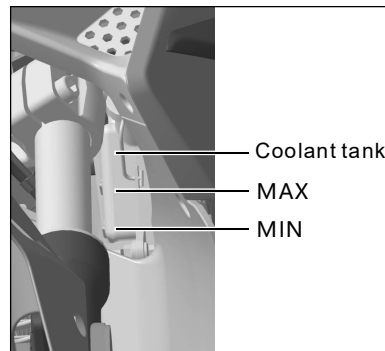
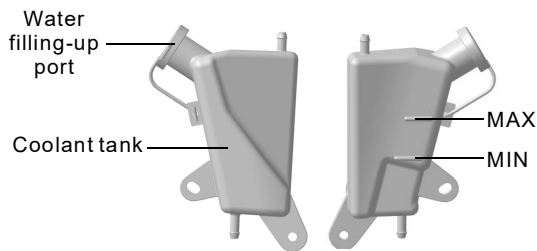
Check the gasket on cover of oil element, replace for a new one if it is necessary. A wrong oil element may damage the engine, please surely adopt the origin VOGÉ parts.

Coolant

Check and maintenance for coolant

The coolant can radiate the heat for hot parts in engine and keep its normal working temperature.

- The check and filling-up of coolant are all done in sub tank.
- Stop the engine
- Check when the engine is cold, because the coolant may expand when it got hot.
- Keep the motorcycle upright.
- Check the coolant level through expansion tank, whose level shall be between the scale line MIN and MAX.
- In case the coolant level is under scale mark MIN, fill up from the port of expansion tank.
- In case the coolant level is higher than scale mark UPPER, the coolant may overflow from tube when it got hot and expand in working, for avoid hurting by hot coolant, fill up too much is not allowed.
- In case the motorcycle need fill up the coolant frequently, which means there is malfunction in the cooling system, under this case, please contact the VOGÉ dealer.

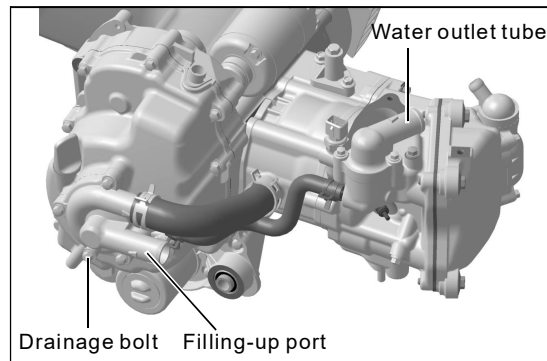


Warning

When the expansion tank is totally dried up, don't fill up coolant by yourself, because under this case, the air may already get into the cooling system and need to be exhausted, so please contact the VOGÉ dealer for maintenance.

The replacement for coolant

- The coolant drainage:
- Keep the motorcycle upright by standing rack.
- Lay a liquid tray under the engine.
- Remove the water drainage bolt, because all the heat radiation system is connected, so all the coolant may flow out from this port.
- After the old coolant drained off, install and fasten the water drainage bolt in place.
- The coolant filling-up:
- The coolant need be filled up from the heat radiator and expansion tank the two positions:
- Open the tank cap of heat radiator and fill up with the coolant.
- Check the full filling-up of coolant from the tank cap of heat radiator, pinch the water tube until it is full, then well cover the tank cap.
- After the tank's cap of heat radiator covered, start and run the engine for 30 seconds to make the coolant fully reach every position need it.
- Make the engine stop, after the engine cooled down, open once again the tank's cap of heat radiator, check if the coolant already was full, in case the level fell down, please fill up once again until it is full, then well cover the tank's cover of heat radiator, repeat this action until it gets full, in case it is necessary, it may need to repeat two times or more.
- Remove the black rubber cap of expansion tank, then fill up with coolant to the level between scale mark MAX and MIN.



Warning

Fill up with running water is not allowed, otherwise it may damage the cooling system, the mixture among coolant of different brand of specification is not allowed.

- In case the air temperature is lower than the one marked up on the label, please adopt the coolant fits for lower temperature.
- The VOGÉ coolant is with ice point of -40°C with ethylene glycol but without silicate, so we suggest purchase or replace by Made in VOGÉ.

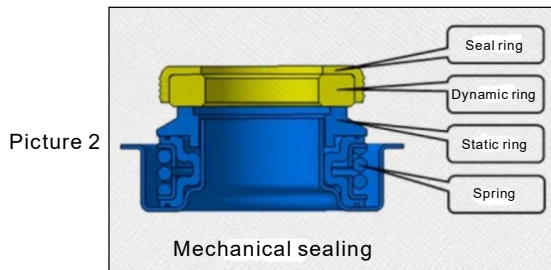
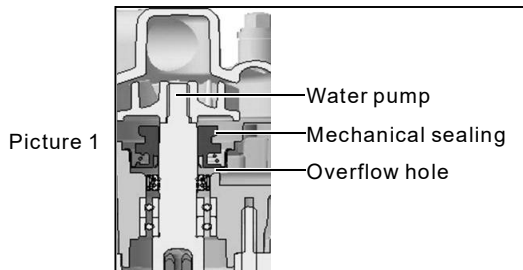
⚠ Caution

To keep the coolant performance, replace each two years.
 Coolant specification: VOGÉ coolant is with ice point of -40°C with ethylene glycol but without silicate.
 The filling-up volume: 1.5L.
 Dispose the replaced old coolant in environment friendly way.

⚠ Danger

When filling up the coolant, in case open the tank's cap of heat radiator after engine started, please let the engine cool down first, otherwise the hot coolant may inject out and make you hurt when you opening the cap of heat radiator.

The LX250T-A engine adopts the mechanical water sealing which usually on auto or motorcycle as picture 1 shows, who are made up by dynamic ring, static ring, spring and seal ring with overflow hole as picture 2 shows, the static ring tightly stick to dynamic ring under the force of spring, which produce pressure on surface for a long term and then the reliable moving seal occurs, when the water pump is working, the dynamic and static ring are relatively sliding, which could not be completely sealed, so there may a little leakage of water drop gets out from overflow hole, this situation is normal, which is not harmful to normal driving and not any damage on motorcycle.



Brake liquid

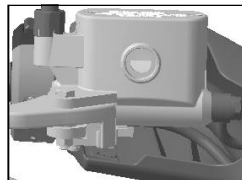
The brake liquid is an important part in hydraulic system for power transmission, so it need be reliable under high, low temperature or flowing performance at low temperature and good in anti-corrosive, so please adopt the correct one.

Check the brake liquid

- Too low the liquid level in brake oil cup may let air get into brake system to reduce the braking performance. So please periodically check the liquid level.
- Check and fill up the brake liquid shall conduct at the front and rear oil cup.
- The liquid level shall not be higher than mark (UPPER or MAX), when it lower than mark (LOWER or MIN), please fill up immediately.
- The brake liquid is corrosive, which is bad for the surface of plastic or paint.

Warning

In case the filling-up of brake liquid is needed, open the cap of oil cup by yourself may let air and moisture in, which largely reduce the braking performance even failure, so please contact VOGÉ dealer to do this work.



The specification of brake liquid

- When there is impurity or moisture in the brake liquid, please filter or replace, otherwise it may reduce the pressure for braking and make bad braking performance, especially in wet weather or place.
- The brake liquid works more than 2 years, it may get bad due to the long work, please replace immediately.

The specification for brake liquid is: DOT4, Please dispose the replaced old liquid in environment friendly way.

Caution

Mixture of brake liquid among different brand and specification is not allowed due to the different formula of different brake liquid may let the braking performance fall down.

Tire

The tire connects the motorcycle and ground, it is very important, the incorrect specification and status is very bad for motorcycle performance.

The tire pressure in tire

- The wrong tire pressure makes its working life shorter.
- Too low the tire pressure makes difficult turning, and speed up the tire wear-out.
- Too high the tire pressure decreases the contact area between tire and ground, which is easy to skid and out of control.
- When driving in high speed, the centrifugal force may open the air valve core on the tire, to avoid the sudden air leakage, we equip it a rubber with metallic liner, cap and connect with air valve core by thread.
- The pressure of tire's air charging rises with tire temperature, so adjust the tire charging pressure when it is cold and its temperature almost the same with surroundings.

Check the limit of tire wear-out

- The tire surface is with the mark of wear-out.
- In case the tire tread already reached the mark, which means the tire could not be used any more.
- The wear-out mark is near the TWI mark at tire edge, the wear-out mark is in the water drainage groove on tire tread, which is a protrusion, when the protrusion is worn out, means the tire already worn out and need to be replaced.
- The worn out tire may get penetrated and bring motorcycle out of control.
- When the depth of tire tread reached the minimum limit, its performance and gripping force may largely fall down.

Danger

The incorrect tire pressure is not only bad for performance, but also lead to accident.
Overloading may lead to tire failure and bring motorcycle out of control.
Make monthly inspection on tire pressure.

Under normal temperature, please check the tire pressure as table below.

	Driver only	Driver and passenger
Front tire	220kPa	240kPa
Rear tire	240kPa	260kPa



The repair for tire

Repair the small hole on tubeless tire, please remove the tire first, patch up inside of tire without outside, because the high speed driving may lead the outside patch outside flexible under centrifugal force.

- Within 24 hours after patched up, the max speed shall not be higher than 80km/h.
- In case the side of tire get broken while the breaking size is bigger than 6mm, the tire could not be used any more.
- In case many damages such as damage, scratch or wear-out were found on the tire, the tire need be replaced.

The replacement for tire

- When replacing the tire, two tires on one motorcycle with different brand, specification, tire tread or 1 new while another is old are all not allowed.
- After the tire replaced, the motorcycle needs to make dynamic balance and alignment, in case the dynamic balance is poor, the operation performance of motorcycle may fall down, also makes uneven wear-out on tire.
- The rolling direction of tire has the mark arrow, turn the tire along this direction only, which make sure water & skidding proof, improve gripping force, reduce noise and make working life longer, get the tire performance better.
- The tires with given specification are all strictly tested, who meet the demands of most road conditions, while the ones without test can't make sure the safety and suitability.
- Seal the contact position between the wheel rim and tire lip of tubeless tire.
- To avoid air leakage, the tubeless tire needs special tool and machine for disassembly and re-assembly, while pay attention to protect the tire pressure sensor.
- The tire replacement need be done by VOGÉ dealer, they are skillful and with necessary tools or machine.

Fuse chip

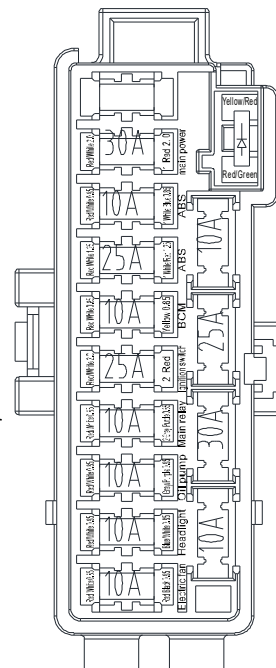
Before replacing the fuse chip, please know well about the root cause first and make troubleshooting.

This model adopts fuse box (1 pcs).

We marked up the specification and how to use for each fuse chip.

- Fuse chip (25A) for motor power supply of ABS system 1: Control power supply for motor of ABS system. Spare fuse chip: 25A (Inside of fuse box).
- Fuse chip (10A) for power supply of solenoid valve: Control power supply for solenoid valve of ABS system. Spare fuse chip: 10A (Inside of fuse box).
- Fuse chip IGN (25A) for ignition switch of motorcycle: Control power supply for meters, lights kit, horn, starting relay, switch assembly, relay for EFI, controller for BCM, power supply for T-BOX when it locked up, ECU of EFI, oxygen sensor, Diagnosis interface of ECU, fuel injector, ignition coil, fuel pump relay/headlight, relays and parts in EFI. Spare fuse chip: 25A (Inside of fuse box)
- Fuse chip (10A) for power supply of fuel pump: Control power supply for fuel pump. Spare fuse chip: 10A (Inside of fuse box).
- Fuse chip (30A) for main power supply: All the power supply for motorcycle except Power charging BCM and EFI. Spare fuse chip: 30A (Inside of fuse box).
- Fuse chip (10A) for electric fan: For power supply of heat radiation fan in engine. Spare fuse chip: 10A (Inside of fuse box).
- Fuse chip (10A) for fuel pump: Power supply for fuel pump. Spare fuse chip: 10A (Inside of fuse box)

Fuse box



-Fuse chip (10A) for power supply of headlight: Power supply for headlight. Spare fuse chip: 10A (Inside of fuse box).

-Fuse chip (10A) for common use: Protect power supply for ECU, smoke lighter, USB, meters and OBD.

Spare fuse chip: 10A (Inside of fuse box).

When the fuse chip was checked or replaced, please well cover the cap of fuse box to avoid water getting in in rainy day or after motorcycle washed, which is easy to lead to electrical malfunctions.

 **Caution**

In case the fuse chip usually burns out in short time, which indicates there is malfunction in electrical system, please contact the VOGÉ dealer immediately.

 **Danger**

Please use the fuse chip with given specification, substitution such as aluminum sheet or iron wire are not allowed.

Connect the fuse chip out of our suggestion is not allowed, otherwise it is very bad for circuit even catch fire or burn out the motorcycle.

The brake pads

The abrasion of brake pad passed the min. thickness limit may lead to poor braking performance, under some cases, it may lead to brake system damage. For the reliability for braking, the abrasion passed Min. thickness limit is not allowed.

Replacement for brake pad

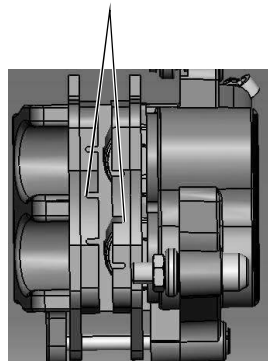
The correct replacement needs to remove the wheels, so this work shall be done by VOGÉ dealer.

No matter the front or rear brake pads, replace them in pairs as a set, in case only replace one piece of them, it may make imbalance brake even accident.

After the brake pads removed, don't operate the brake lever, otherwise the brake piston may return hardly, meanwhile making leakage of brake liquid.

The oil or other dirt touches brake pad and plate when replacing is not allowed, in case if there is, please clean it up, otherwise it may make poor braking performance.

The wear limit position of front brake and rear brake friction plate:



Danger

When replaced for new pads, please repeatedly confirm the brake lever, confirm the pads tightly press the brake plate, meanwhile confirm the free travel of brake lever.

The replacement for light signal

- If there is no light signal, you may be in danger, because the light helps others easily pay attention to you and your motorcycle. Please replace the broken lights.
- The headlight, front position light, turning signal light, rear position light, brake light and registration plate light are all LED and sealed, in case broken, go to the service station for replacement. The replacement for lights please follow the description and specification below:
- The dirt especially the grease on light's surface may be bad for heat radiation, which lead to light overheat even reduce its working life.

Parameters for electrical system	
Battery specification	12V9Ah
Headlight (High/Low beam)	12V 37W/25W
Front position light	12V 3W
Rear position light	12V 1.9W
Rear brake light	12V 4.6W
Front turning signal light	12V 2.4W
Rear turning signal light	12V 1.5W
Rear registration plate light	12V 0.3W
Specification for fuse chip	30A, 25A, 10A

Warning

When a signal light is broken, replace for a new one with completely same rating power and specification, otherwise the different one may lead to electrical circuit overload or light broken very early.

X.Maintenance for the motorcycle in long parking

Storage for motorcycle

The storage

- In case the motorcycle needs to park for a period without driving, the special maintenance is necessary, which need some special tools, equipment or technologies, because of this, we suggest these works shall be done by VOGÉ dealers.
- If your prefer to do these works by yourself, please do as below:
 - Totally replace for new oil.
 - Block the air inlet port of air filter and exhaust port of muffler by cloth with new oil, to avoid moisture get into engine,
 - Totally drain off the fuel in the fuel tank.
 - Remove the battery, then wash its surface by neutral soap water, meanwhile cleaning up the oxidizing material on its terminals.
 - Store the battery in a room with temperature above 0°C.
 - Adjust the tire pressure to stipulated one/
 - Totally wash up the motorcycle.
 - Spray the protective agent on rubber parts' surface
 - Spread the protective wax for auto on the covering parts of this motorcycle
 - Finally well cover the motorcycle by dry cloth and park the place with fine air ventilation.

The re-use

- Totally clean up the motorcycle. Remove the cloth blocked the air inlet port of air filter and exhaust port of muffler.
- Totally replace the oil in engine and oil element. Re-install the battery. Start the motorcycle.



Caution

Charge the battery monthly.

Protection for motorcycle

- According to the daily driving, usually wash the motorcycle and keep it clean and dry.
- Wash up the dirt, bird shit, asphalt or salt on motorcycle surface as quick as possible.
- Try best to cover the motorcycle by dry cloth, long time exposed under sunshine may make covering parts get aged or color fading.

The cleaning up for motorcycle.

- Wash the motorcycle by cold water.
- Totally wash up the motorcycle by soft cloth and neutral cleanser.
- Don't wash the motorcycle by spray.
- Don't wash the motorcycle by high pressure water.
- When driving motorcycle in low temperature, high moisture, rain or after washed, there may be some moisture in the lights, turn on the light for a while the moisture may disappear, because there is design of ventilation hole, which are normal.

Danger

The wet brake may have poor braking performance, so please repeatedly test the brake system after motorcycle washed, and fast dry it up.

XI. Electrical diagram

