VOGE

Far & Beyond Quality

MOTORCYCLE OPERATION MANUAL

DS800X

Welcome to VOGE

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

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 VOGE 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. VOGE 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 VOGE dealers are glad to provide your correct suggestions.

The standard of execution：Q/LX 1063-2025

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 VOGE 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 VOGE parts or our authorized ones. The parts nor from VOGE 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 VOGE factory only.

•All your replacement for parts must obey local laws. Make sure your motorcycle won't beak 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**
-Handle bar turns freely without jamming.
-No run-out or flexibility on steering stem
•**Throttle**
-Correct clearance for throttle cable.
-Operate throttle smooth without jamming.
•**Brake device**
-Operate brake lever and pedal normal.
-Correct position of brake liquid in oil cup.
-Pressing point if clean during braking process.
-Not water or greasy dirt on brake plate or pads.
•**Shock absorber**
-Press it and get back smoothly.
•**Transmission chain**
-Without too much abrasion or damage.
-Tightness is correct.

•**Tires**
-Correct tire pressure.
-Without too much abrasion for depth of tire tread.
-No damage or crack on surface of tire.
•**Oil in engine**
-Correct oil level.
•**Cooling system**
-Correct coolant level.
-Without coolant leakage.
•**Lighting**
-Headlight/Front position light, tail light/brake light, turning signal light,rear registration plate light and instrument light could normally work.
•**Indicating light**
-The high beam indicator light, neutral gear indicator light, turn signal indicator light, ABS and TCS indicator light can display normally. The engine fault indicator light and oil pressure warning light do not flash or remain constantly on after the engine starts.

•**Horn**
-Normally works.
•**Kill switch of engine**
-When engine started ,which could be stopped by kill switch.
•**Side stand**
-Normally pick up.
-Interlocking function with ignition is normal.
•**Back-view mirror**
-Sit on motorcycle and keep it upright,the material 10m to tail of motorcycle within width of 4m could be clearly seen from back-view mirror.
-In case failed, please adjust the angle of back-view mirror.
•**Shock absorber**
-Press it down then it returns smoothly;
-There is not mud, sand or ice on surface of fork tube.
•**Turning damper**
-Turn the handle bar left and right to check if the turning damper is jamming;

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.
9. When driving in high and cold condition, check if there is ice on surface of connective rod for turning damper before every driving, in case there is, please wipe up by clean tissue without dust and dirt.
10. When the turning damper worked 24 hours later, please timely clean up the surface of connective rod, to prevent mud or sand get into damper that makes it fail.
The maximum loading: 187kg, (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 clutch lever.
•Slowly turn the throttle grip to accelerate, while slowly releasing the clutch lever, clutch meshed, then 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 – Incorrect adjustment for spring of shock absorber.
–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 inter-lock switch for side stand/ignition switch, once engine is in a gear position not the neutral one, lay down the side stand, engine stops immediately.

⚠ Warning

Start engine from high gear position is not allowed,otherwise it may damage engine, Please start engine from 1st gear.

⚠ 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 the driving speed is low enough, get into low gear position, and tightly hold clutch lever.
•Get the engine into neutral gear, the motorcycle brakes and completely stops.
•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, get the engine into low gear position, let its head face to uphill to avoid the turning of side stand and rollover.
•Parking or running on combustible 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 combustible materials.

Ⅲ. Main parameters

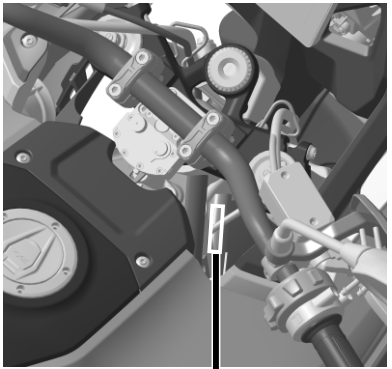
Parameters for motorcycle	
L x W x H	2380mm x 910mm x 1460mm
Wheelbase	1575mm
Seat height	850mm
Ground clearance	220mm
Curb weight	227kg
Loading	205kg
Max. weight	432kg
Front wheel hub loading	113kg
Rear wheel hub loading	114kg
Max. designed speed	210km/h
Max. gradeability	⩾44°
Braking deceleration	Execute according to GB20073-2018
Fuel consumption	⩽5.2L/100km（According to GB15744-2019
Fuel tank capacity	24L
Coolant capacity	1.75L
Chain specification	525SX2 (122 links)
Suspension/Brake system	
Front shock absorber type	Up side down shock absorber/Fork tube of φ43mm with free play of 200mm
Rear shock absorber type	Central shock absorber/Free play of 83mm
Front wheel hub specification	1.85 x 21
Rear wheel hub specification	4.00 x 18
Front tire size	90/90-21 M/C
Rear tire size	150/70 R18M/C
Front brake	Double plate, dual pistons, floating caliper, floating plate/Plate diameter of 310mm
Rear brake	Single plate, single piston, floating caliper, fixed plate/Plate diameter of 240mm
ABS	ABS system with dual passage

Engine parameters	
Engine type	Twin-cylinders in line/Water cooled/4 valves
Bore x stroke	84mm x 72mm
Displacement	798ml
Compression ratio	12:01
Air intake valve clearance	(0.15-0.20)mm
Air exhaust valve clearance	(0.20-0.25)mm
Spark plug clearance	0.8mm-0.9mm
Spart plug specification	LMAR8J-9E
Max. net power/rotation	70.0kW/9000rpm
Max. torque/rotation	81.0N.m/6500rpm
Idling rotation speed	(1250±100)r/min
Gearbox type	International 6 gears
Clutch type	Wet multiple layers
Oil capacity	3.2L
Fuel supplying system	EFI system
Transmission system	
Primary transmission ratio	1.816
End transmission ratio	3.067
1st gear	2.833
2nd gear	2.125
3rd gear	1.667
4th gear	1.333
5th gear	1.087
6th gear	0.960

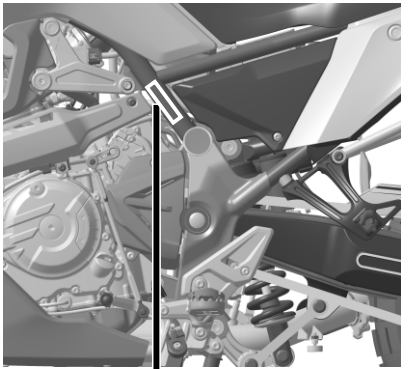
Ⅳ. structure of motorcycle

Identification for motorcycle

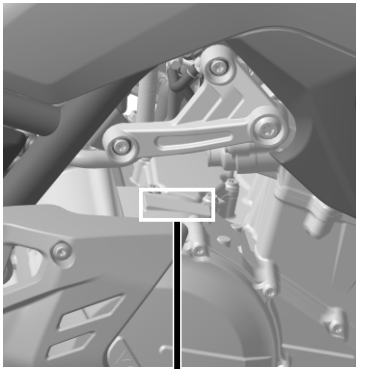
The Vehicle Identification Number (VIN) and name plate Engine type number and Delivery number



Vehicle Identification number



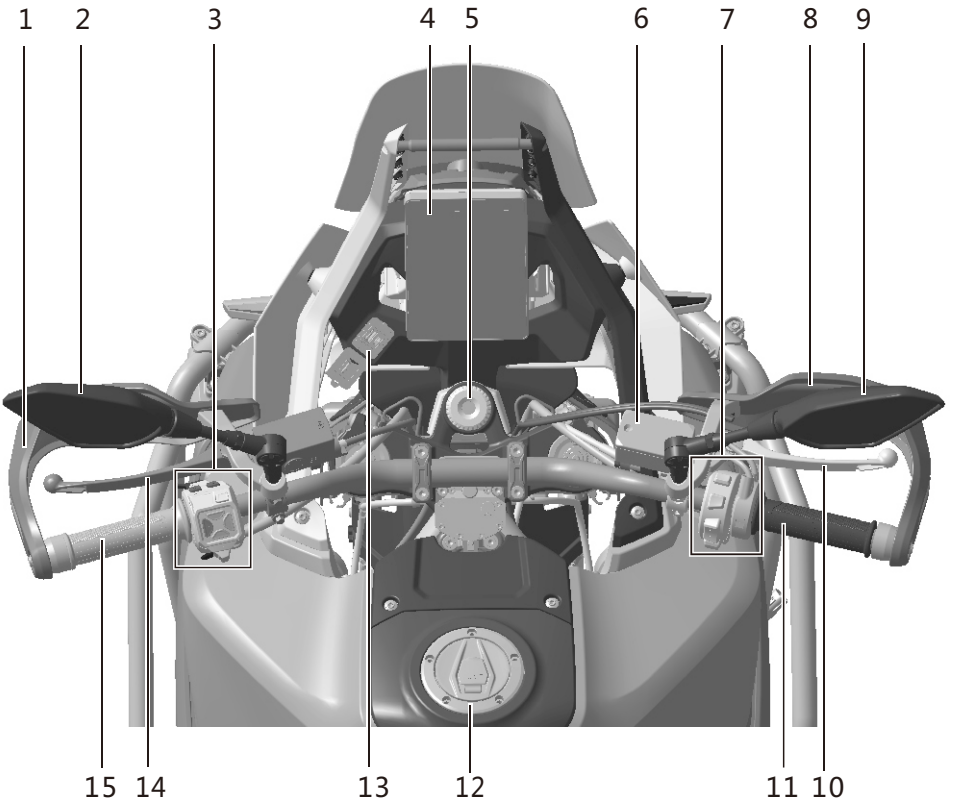
Products number



Engine type and Delivery number

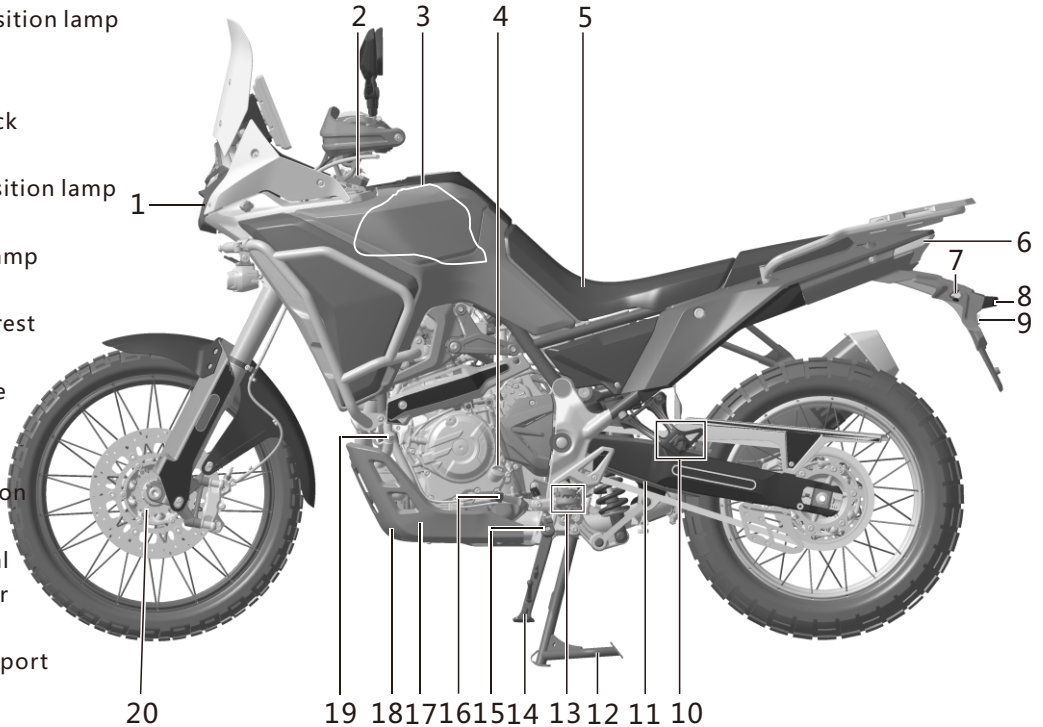
Head part

1. Left handlebar cover
2. Left rearview mirror
3. Left brake lever switch
4. Instrument
5. ignition switch
6. Front brake oil cup
7. Right brake lever switch and fuel dispenser seat
8. Right handlebar cover
9. Right rearview mirror
10. Front brake handle
11. Fuel dispenser
12. Fuel tank cover
13. USB power interface
14. clutch handle
15. Left handlebar



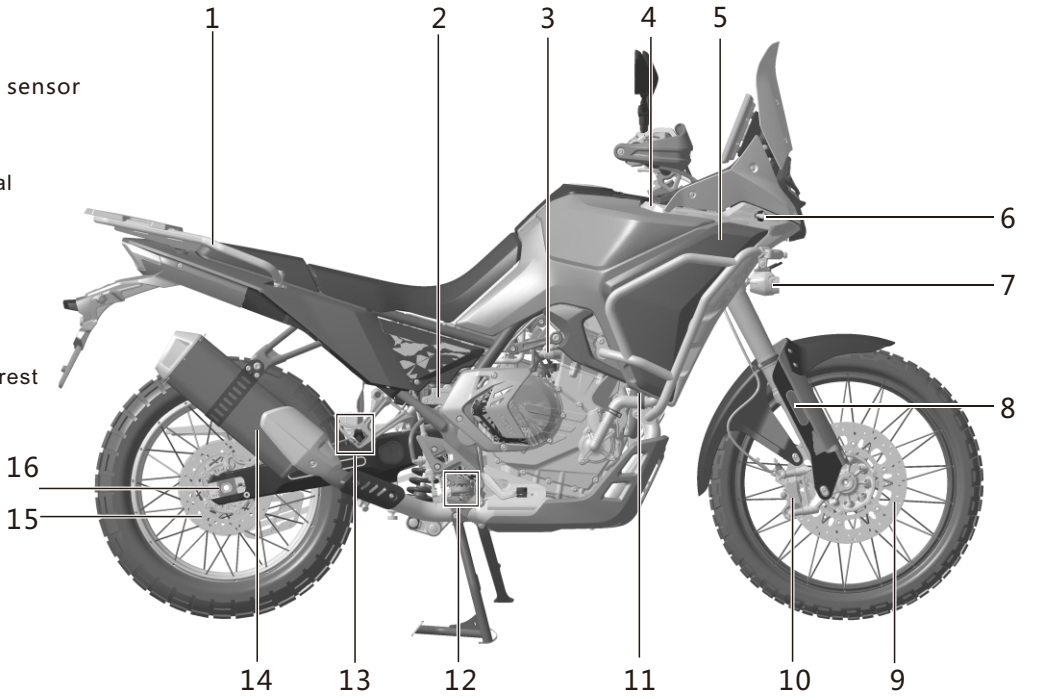
Left side

1.Headlight/front position lamp
2. Steering damper
3. Fuel tank
4. Oil filler and dipstick
5.Main seat cushion
6.Brake light/rear position lamp
7.Rear turn signal
8.Rear license plate lamp
9.Rear retro reflector
10.Left auxiliary footrest
11.Chain guard
12.Main station frame
13.Left main footrest
14.Side bracket
15.Side bracket ignition switch
16.Transmission pedal
17.Oil pressure sensor
18.Oil drainage bolt
19.Coolant filling-up port
20.ABS gear ring



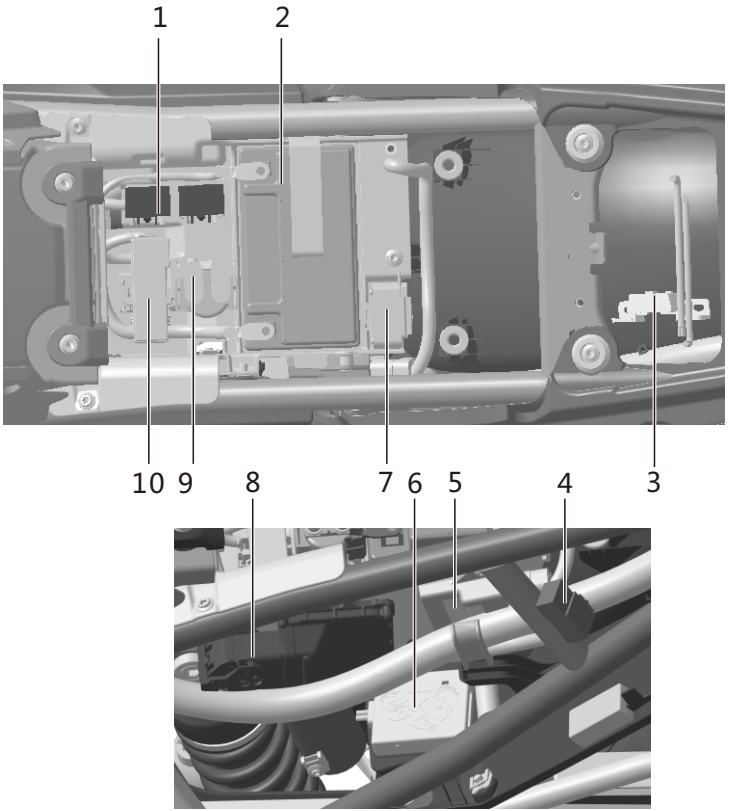
Right side

1.Passenger armrest
2.Rear brake oil cup
3.Water temperature sensor
4.Air filter
5. Cooling water tank filling port
6.Right front turn signal
7.Right front fog light
8.Right reflector
9.Front brake disk
10.Front disc brake lower pump
11.Horn
12.Right main footrest
13.Right auxiliary footrest
14.Muffler
15.Rear disc brake disc
16.Chain adjuster



Lower side of seat

1.Controlling relay
2.Battery
3.Diagnostic interface
4.Controlling relay
5.BCM controller
6.Dash cam
7.Side rolling sensor
8.ECU
9.Start relay
10.Fuse box

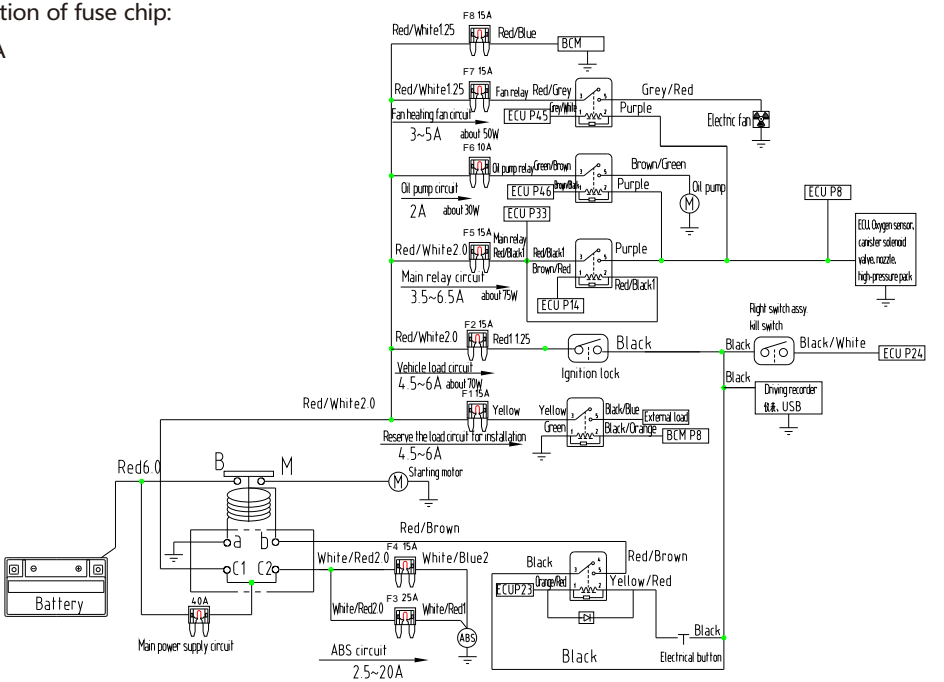


Schematic diagram of insurance and control relays

There are 8 branches for power supply, each of them gets power from positive terminal of battery, of which each branch has its own fuse, every branch is independent without mutual interference to others.

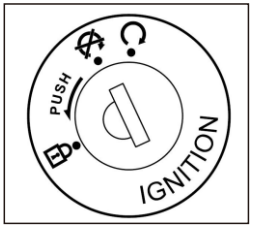
Specification of fuse chip:

10A 15A
25A



V .Operation

Ignition switch



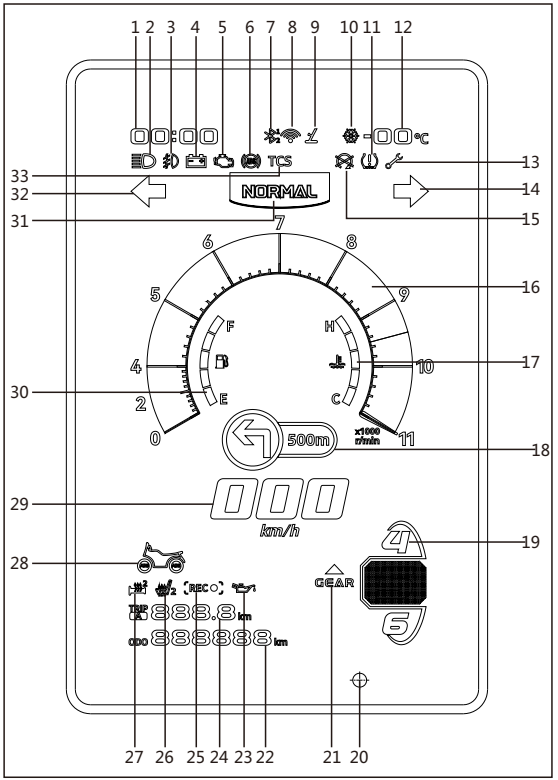
The ignition switch of this model is in the front side of upper connective plate for fuel tank, the ignition switch and steering lock are in a same piece.
This model equipped two pieces of keys, please well keep one of them for spare use.
Ignition switch/steering lock, seat lock and fuel tank lock are sharing a same key.
There are 3 positions for ignition switch:" " means the ignition circuit is power on, the engine could be started whenever you want, all functional circuits on board are connected, at this position, the key could not be removed."" "means the ignition circuit is cut off, engine could not be started, at this position, the key could be removed."" is for locking up steering stem, please turn the handle bar to left limit first, at position""please press down the key, then turn it anti-clockwise to position " ". At this position, the key could be removed. The ignition circuit is cut off, the engine could not be started. The steering stem is locked up and unable to be turned.

Caution
This model equipped side stand only, for a stable parking, please turn the handle bar to left limit rather than right limit when locking up steering stem.

Danger
Please don't turn the ignition switch to position "" during motorcycle running, otherwise it may bring motorcycle out of control.

Instrument and its indicating light

1. Clock
2.High beam indicator light
3.Front fog light indicator light
4.Battery voltage warning light
5.Engine malfunction warning light
6.ABS fault warning light
7.Bluetooth connection display
8.WIFI connection
9.Indicator light for kill switch on side stand
10.Environmental low temperature indicator light
11.Tire pressure alarm light
12.Environmental temperature display
13.Maintenance indicator light
14.Right turn indicator light
15.Engine shutdown switch
16.Engine tachometer
17.Coolant thermometer and alarm light
18.Basic navigation
19.Engine gear display
20.Light sensitive sensor (Position)
21.Upshift indicator light
22.Total mileage of the vehicle
23.Oil pressure alarm light
24.Vehicle subtotal mileage
25.Driving recorder
26.Seat heat up indicator light
27.Grip heat up indicator light
28.ABS indicator light
29.speedometer
30.Fuel gauge and low level alarm light
31.Drving mode display
32.Left turn indicator light
33.TCS switch and indicator light



When pressed button of ignition switch, the meter get power on and start self-inspection:
The display screen gets on and start self-inspection, show you the situation of motorcycle at the moment.
When engine is in malfunction, the alarm light" " gets on; The alarm light for ABS malfunction" " and indicating light for TCS slowly flashes.

Warning

Please don't wash the meter set by water stream of high pressure directly. Please don't wipe up the meter set by organic solvent such as gasoline or alcohol, otherwise it may create crack or color fading of meter set.

Left turning light " "

When pushing the turning signal switch on left switch assembly to left side" " , whose indicator light " " gets on.

Caution

When the blinking frequency of indicator light on meter is faster than usual, there may have malfunction in turning signal light or other malfunction lead to the turning signal light failure, which remind you check malfunction in turning signal light

Gear indicator for engine

When engine is in neutral gear, the indicator light "N" gets on, which show you the current gear position, when engine is in neutral gear, it shows "N", when engine is in forward gear, it shows "1-6".

Engine malfunction alarm" "

When there is malfunction in management system of engine, its alarm light " " gets on. When turned the key for ignition switch to position" " , the indicator light" " gets on; When engine started, the indicator light " " gets off immediately.

Caution

When engine was started and the indicator light " " is still on or blinking, now keep using motorcycle may lead to ignition failure, fuel supply stopping or other malfunctions. If the indicator light " " is on or blinking when motorcycle in driving, please stop driving immediately and contact VOGE dealer as soon as you could.

Alarm light " " for ABS malfunction

When there is malfunction in ABS system, the indicator light" " gets on.

When pressed button for ignition switch" ", the indicator light" " is slowly flashing, when motorcycle got into normal driving, the indicator light " " gets off immediately.

Danger

In case indicator light " " gets steady on during driving, please stop driving immediately and contact dealer under VOGE as soon as possible.

Indicating light for"TCS "

When motorcycle got power on, the indicator light " TCS " is slowly flashing, and gets off when motorcycle got into normal driving.

When the TCS function is abnormal or turned off by driver, the indicator light " TCS " keeps steady on. Every time when motorcycle got power on, the default for TCS is on.

When the TCS is on, in case the tire gets skidding during driving, the TCS may get torque down to reduce tire skidding, at this moment, the TCS is working, while its indicator light " TCS " is fast flashing.

Warning

When TCS is on and during driving, in case its indicator light " TCS " keeps steady on, which means there is malfunction in TCS system, under this situation, please contact dealer under VOGE immediately.

Right turning signal light" ⇨ "

When pushed the turning signal switch on left switch kit to right side⇨ ",the indicator light⇨ " was on and blinking.

⚠Caution
When indicator light on meter is blinking faster than usual, there may have malfunction in turning signal light or other causes lead to turning light failure, which remind you to check and confirm malfunctions in turning signal light.

Hight beam indicator light"≣D"

When pushed headlight switch on left switch kit upwards, when high beam is working, its indicator light"≣D"gets on.

When pressed down overtaking switch on left switch kit, when high beam is on, the indicator light" ≣D " also on, the high beam goes off, whose indicator light "≣D" goes off.

Alarm light"🔋"for voltage in battery

When system voltage is lower than 11.5V or higher than 15V, the alarm light for voltage on meter goes on, when it solved,
the indicator light goes off.

Indicator light"〔REC〕"for driving recorder

When SD card was installed into driving recorder, the motorcycle gets powered on, the driving recorder is normally working, the indicator light"〔REC〕"is blinking, if the indicator light keeps on or off means there is not SD card in driving recorder or there is malfunction.

Indicator light" GEAR "for upshift

When engine is in gear position 1-5, when rotation speed reached given speed for gear up, the indicator light"△ " gets on, which remind the upshift could be operated.

Alarm light " "for tire pressure display

When monitoring system for tire temperature and pressure at any air pressure shows abnormal, the alarm light on meter goes on, long press key Up to get into swift menu or parking, then get into page My motorcycle to check tire pressure, then contact after-sales service station.

Get ignition switch power on once again, the tire pressure on menu page shows you the data of last time, when motorcycle is in normal driving, parking, discharging or charging, it may update and show you the latest data.

⚠ Caution

Please adopt the tire pressure sensor from VOGE factory.
When tire pressure or meter was replaced, please match up tire pressure once again, whose method please refer to chapter of meter's function.
When matching, please confirm the correct tire and ID number of sensor from meter after matched up to avoid wrong identification between front and rear tire.

TFT display screen

When meter is on: When opened it, the meter shows you the setup of last time.

Background light for meter: The meter shift brightness of background according to lighting strength automatically.

Bluetooth connection: When mobile phone connected to meter through Bluetooth, the Bluetooth icon lights up meter which shows you incoming call reminder (Show you name and call number)

Rotation speed: The rotation speed of engine. (r/min-rotation circle numbers/minutes —Current turning circles for crankshaft per minute).

Forward gear: The current engine gear position.

Speed: The driving speed. (Km/h-kilometers/hour, or mph-miles/per hour)

Water temperature: The current coolant temperature. (Unit:℃, showing range is -48℃~143℃, when the coolant temperature is ≥116℃, its alarm light gets on, whose indicating bar for temperature turns red fully.

When temperature is out of range -48℃~143℃, page “My motorcycle” shows you “—“)

Fuel level: Show you the residual fuel in tank. When there is only 1 cell on fuel meter, the alarm light for fuel level may turn to amber color, which reminds you timely fill up with fuel.

⚠Caution

The fuel level may get waving during driving, when there is not so much residual fuel, it may lead to indicating bar flashing or sometimes not, which is normal situation, please don't worry. In case the alarm light for fuel level got amber, it means there is only about fuel of 3L in fuel tank.

⚠Danger

Please cautiously operate meters during driving, please it may reduce your control for motorcycle.

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.

1.1.2Enter 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)

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

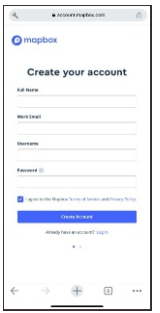


Figure 1

Figure 2

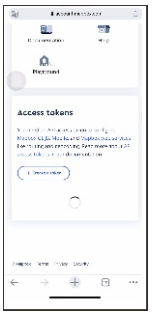


Figure 3

2.5 Enter token name and select applicationscopes,then click on “create token”.(See Figure 4)
2.6 Enter the confirmation password to complete token creation.(See Figure 5)
2.7 You can find the token created at the bottom of the page, but it will not appear on the page the next time you log in, so you must be careful to save it.(See Figure 6)

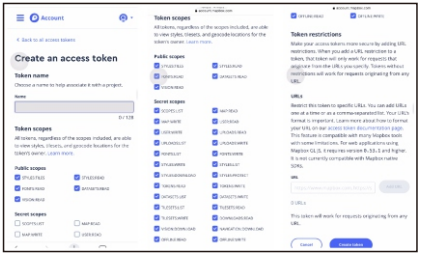


Figure4

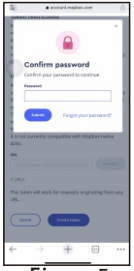


Figure5

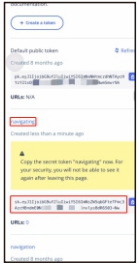
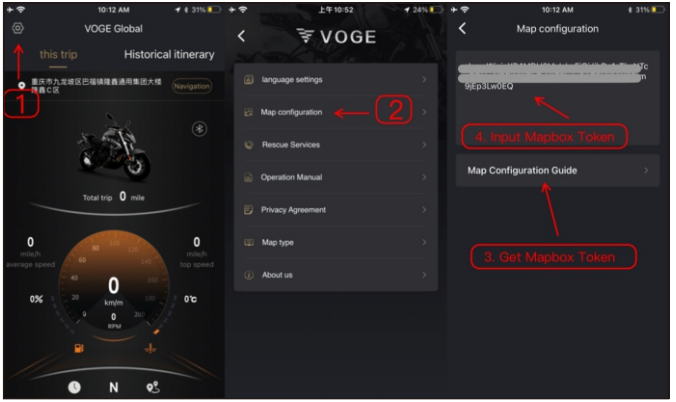


Figure6

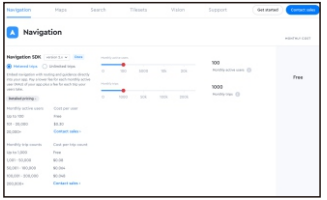
3.VOGE Global Map configuration

3.1 Open VOGE Global, then open Setup->Map configuration->Map configuration guidance->Fill blanks for Mapbox Token. (User needs to apply for Mapbox Token and fill blanks, otherwise the navigation doesn’t work).



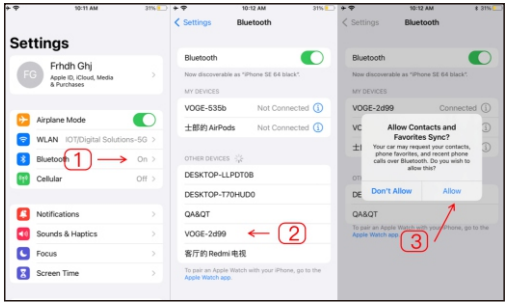
3.2 Mapbox price please refer as below the price. displayed on the APP

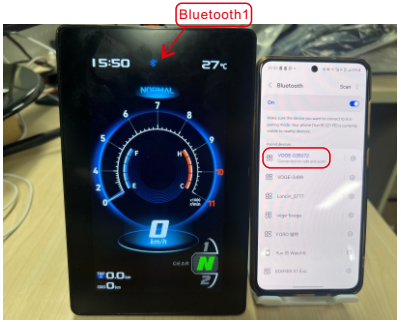
The actual cost is based on



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

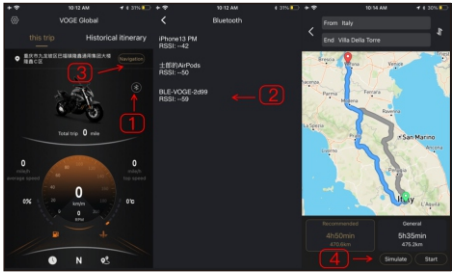
4.1 Get motorcycle power on, open setup for cell phone->Bluetooth, Select Bluetooth name of (VOGE-) as beginning, when successfully connected, allow to visit phonebook, when connected, the instrument will show you the icon of (Bluetooth 1).





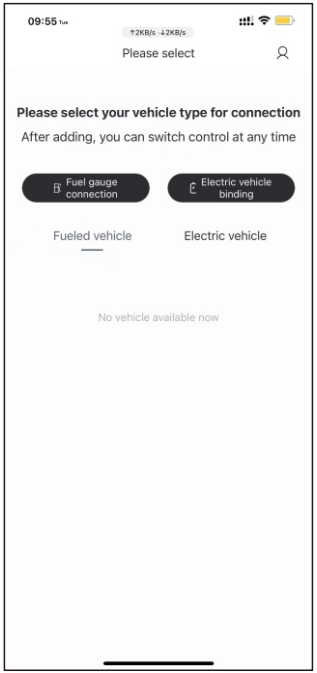
4.2 Open VOGE Global APP,Click icon of Bluetooth of (BLE-VOGE-) as beginning for connection, when successfully connected, the icon of Bluetooth will turn yellow, the instrument will show you the icon of Bluetooth 2, at this moment, click down-key on motorcycle's switch to shift to page on instrument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

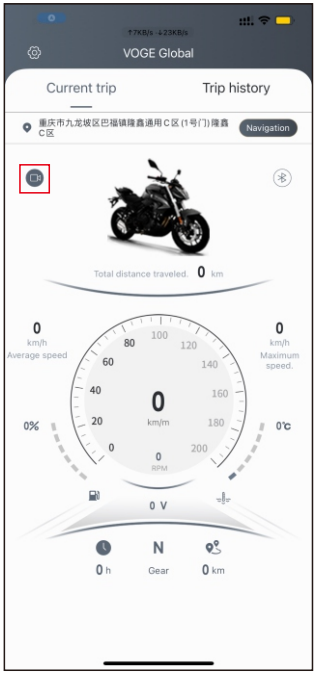
4.3 When navigation of VOGE Global is working, the instrument will show you corresponding information.

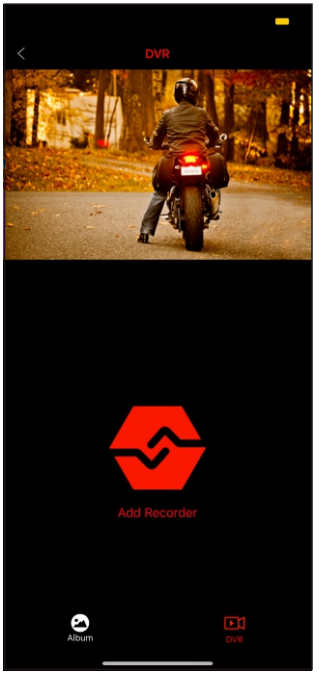


5. The use of driving recorder

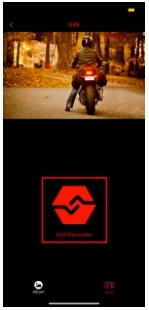
5.1 Open the VOGE Global, click [Fuel meter connection] then get into main page of APP, click the icon of camera on the left, get into main page of DVR;



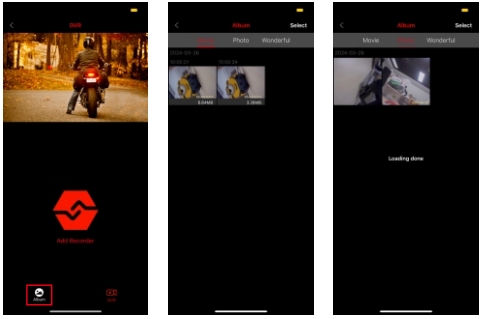




5.2 Click [Add equipment] in main page of DVR, then confirm connection according to reminder, then find out recorder net with beginning of mt in WLAN in setup of mobile phone, then add it in;



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

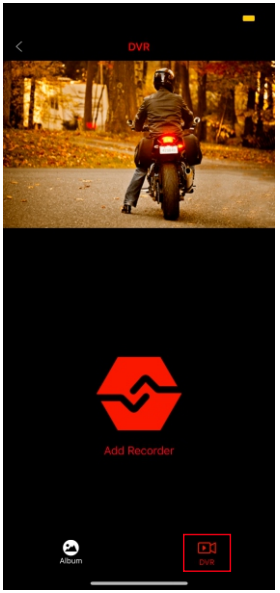


Figure7

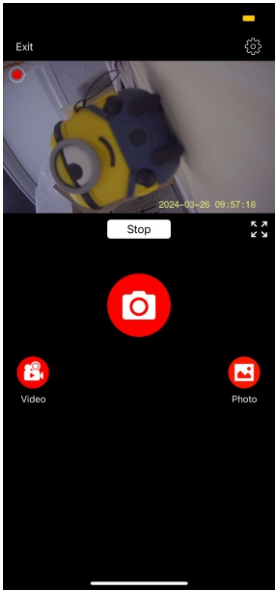
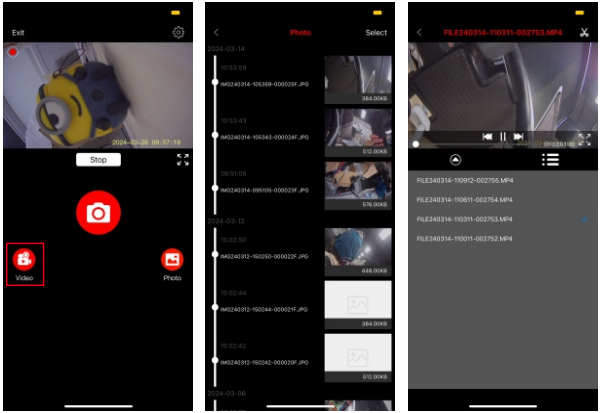


Figure8

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)

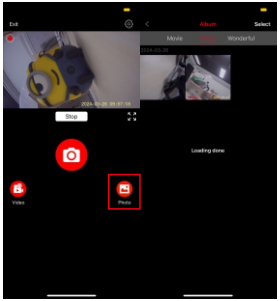


Figure 9

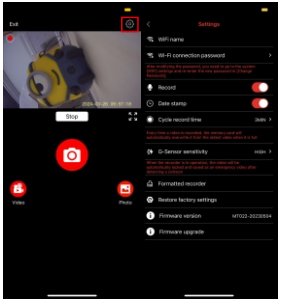


Figure 10

Caution

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

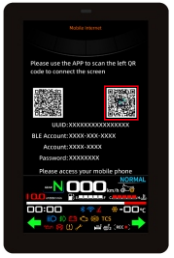
Introduction for Carbit Ride installation

1.Connect Mobile phone APP to internet

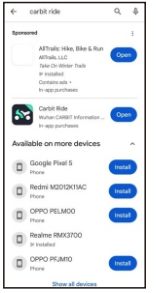
Short press key "▲" on switch assembly to shift to mode internet, then short press key " ↄ " to quit page internet and back to meter pate. (Introduction for button on switch assembly please refer to P36)

1.1Download APP

1.1.1Short press " ↄ " on switch kit to get into internet mode; Then scan the QR code on right upper side of screen by mobile phone.

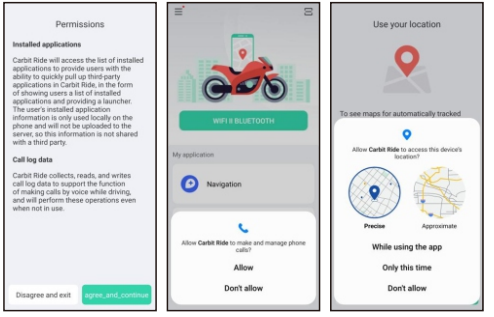


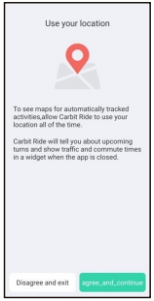
1.1.2 Search for "Carbit Ride" from APP Google of Application Market.

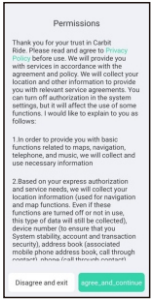


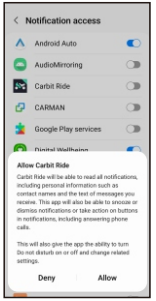
1.2 Installation for APP

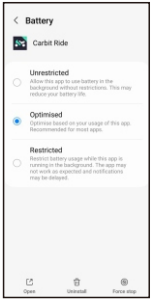
When downloading achieved, select APP installation to begin, first time when opened APP there is authorization page and permission setting, select agree for them both.

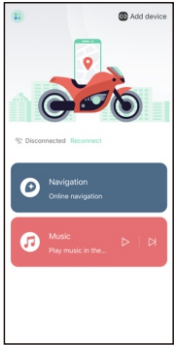


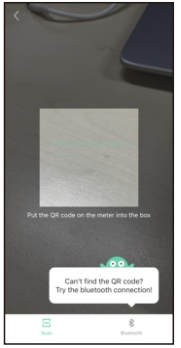


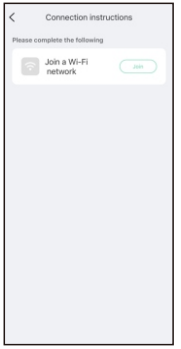


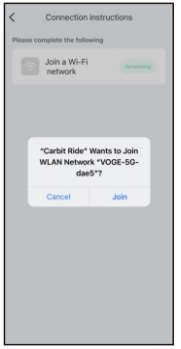


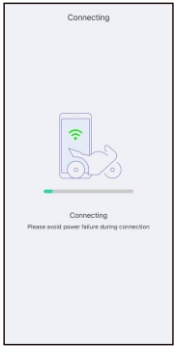












1.3Scan the code and connect

Open APP “Carbit Ride”, choose [WiFi connection],

Scan QR code on left upper side of screen, connect WiFi according to reminder, the APP may start the connection automatically without setup. When scanned,it starts internet connection, when it connected, it remind you connection success, then choose the immediate connection.

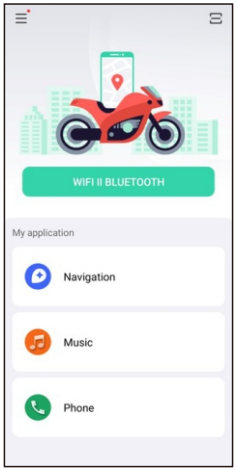
1.4 Manual connection

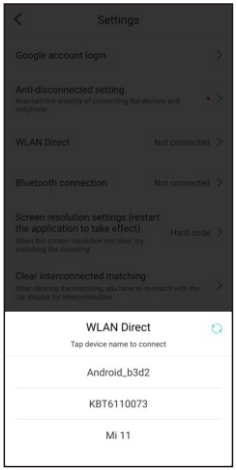
Step 1st: Choose the sign of 3 cross bars on left upper conner of APP to get into page setup.

Step 2nd: Choose direct connection for WLAN, search equipment of connection.

Step 3rd: Choose the equipment with same name in WiFi display to connect.

Step 4th: When connection achieved, choose immediate connection.





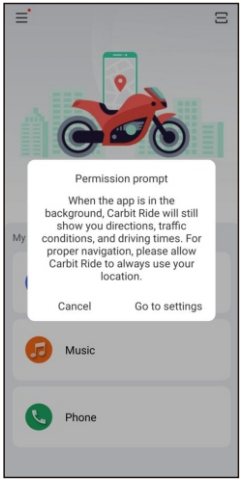
When connection achieved, the blue indication sign for WiFi gets on, the navigation display on screen is as shown:

⚠ Caution

- The WiFi I mobile phone must be on during the whole connection process.
- When screen of Apple phone locked up its screen, it shows you the basic navigation only without map, only arrow and letters.
- Mobile phones with different specification may have various signals, so the net connection may be cut off for a while during navigation.
- Because different versions of WLAN have problem of compatibility, so this terminal end is unable to ensure connection for all mobile phones to WLAN/hot point.
- Installation or using APP “Carbit Ride”, the setup of mobile phone shall show you all corresponding reminders and permissions.

2.Anti-cutting off when screen locked up

2.1 Allow permission for backstage working of navigation
Step 1st: Long press [Carbit Ride], and click [Information Application];
Step 2nd: Choose [Permission];
Step 3rd: Choose [Position Information];
Step 4th: Choose [Always allow].

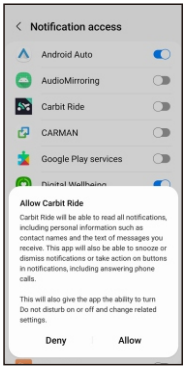


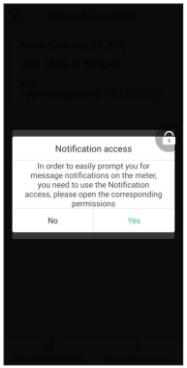
2.2 Allow message notification

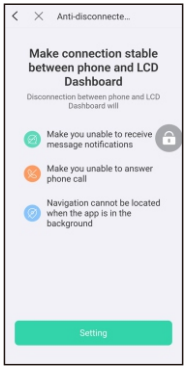
Step 1st: Long press [Carbit Ride], then click [Application message];

Step 2nd: Choose [Notification];

Step 3rd: Choose [Notification display].





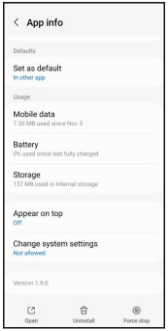


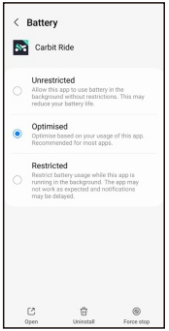
2.3 Allow application automatic start

Step 1st: Long press [Carbit Ride], then click [Application message];

Step 2nd: Choose [Battery];

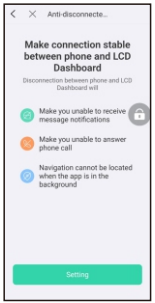
Step 3rd: Choose [Allow backstage working].

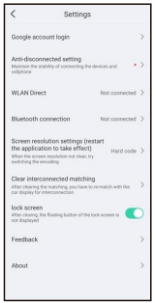


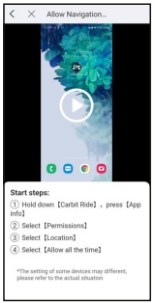


2.4 Assistant video of anti-cut off

There is assistant video for anti-cut off in APP, please click sign on left upper corner of APP and get in, choose viewing.



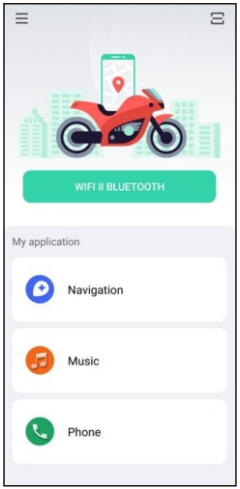




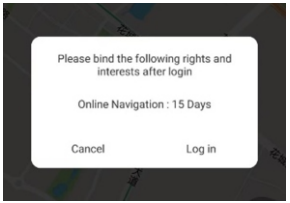
3.Introduction for using of Mapbox

APP CabitRide supports location, address searching, routine planning and real time navigation base up overseas navigation of Mapbox. This function needs to be paid, then it could be unlocked and used, whose operation details are as below:

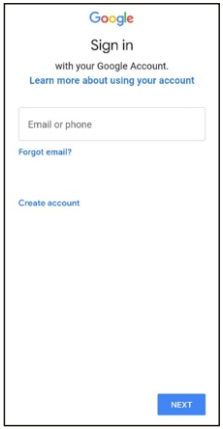
3.1 When APP opened, it connected to meter.



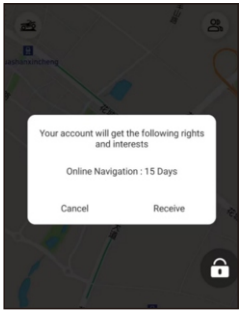
3.2 Click entrance of [Search] on Map page, it may remind you the permission for on-line navigation when login or binding-up.

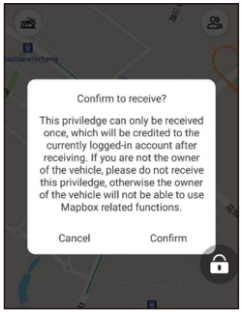


3.3 Click [Google login], choose [Add a account], then get into page of Login.

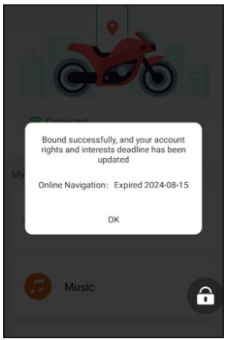


3.4 When login achieved, click entrance of [Search] for page map, it reminds you if confirm to obtain permission.

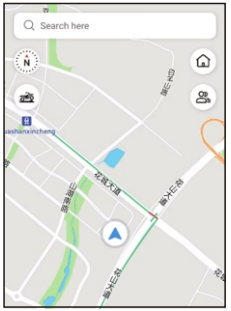




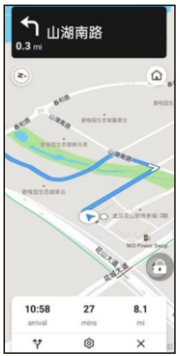
3.5 Confirm you got permission and bind up to corresponding account.



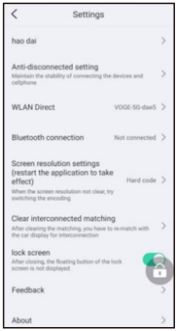
3.6 When permission successfully got, click entrance of [Search] on page map once again to get in.



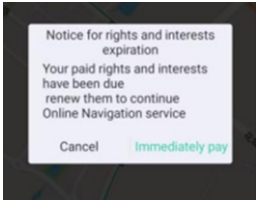
3.7 Search destination and start navigation, then it show you in meter screen.



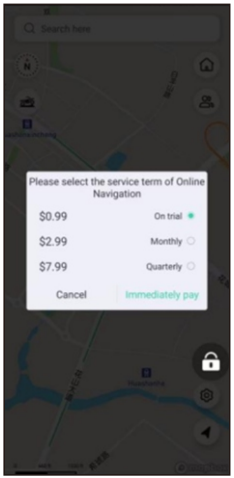
3.8 You can find place for login in setup, then you can shift account and check residual days.

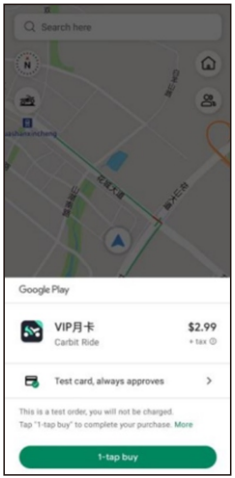


3.9 When it expired, click once again entrance of [Search] in page map, it reminds you need to pay.



3.10 Click Immediate pay, then choose the item you need to pay.



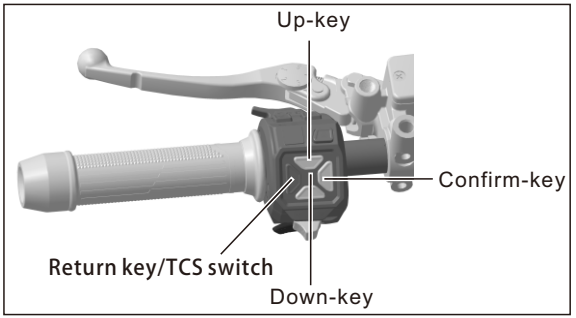


⚠ Caution

The user need to set actual version of APP “Carbit Ride” as standard, this User Manual is only one for reference.

Introduction for instrument operation

1.Introduction for buttons



Standard mode

Sport mode

1.Short press key up to get into internet page, short press key return to quit

2.Short press key confirm to get into page setup.

3.When Bluetooth connected and " " lights up, when there is incoming call, press key down to listen the call, short press key up to hang up, of Bluetooth is needed, please connect to mobile phone first, then the call could work.

4.Short press key return to get to last grade of menu or main page.

5.Long press key up to get into quick information page (10 seconds latter it quit automatically).

⚠ Caution
Short press is 0.5 second, while long press is 2 seconds.

2.Get into setup page

Motorcycle setup

In the menu setup, the user can check, adjust and set up content as below:

Motorcycle information, mileage sub-total, tire pressure matching-up, upshift reminder

Motorcycle information-basic information

In the page of basic information: the user is able to check voltage in battery, total driving time, water temperature, total mileage, average speed, total average fuel consumption, tire pressure and tire temperature

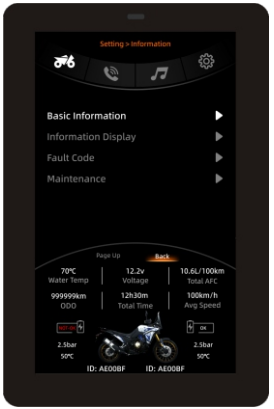
Short press key confirm to get into menu page;

Short press key up or down to select motorcycle setup, short press key confirm to get into page of motorcycle setup;

Short press key up or down to select motorcycle information, short press key confirm to get into page of motorcycle information;

Then the basic information could be checked;

Short press key return to quit basic information.



Motorcycle information-Selectable display

In the page of selectable information, the use can select or cancel items below by himself: Sub-total mileage A, sub-total mileage B, driving time A, driving time B, average fuel consumption A, average fuel consumption B, tire pressure information, water temperature, voltage in battery, total average fuel consumption, total mileage, total driving time, the selected item could be checked for their basic data in basic information, when they were cancelled, the basic information would not display.

Short press confirm to get into page menu;

Short press key up or down to select motorcycle setup, short press key confirm to get into page of motorcycle setup;

Short press key up or down to select motorcycle information, short press key confirm to get into page of motorcycle information;

Short press key up or down to choose selectable information display, short press key confirm to get selectable information unfolded;

Short press key return to quit selectable information display.

Motorcycle information-Malfunction code

In the page of malfunction, the user is able to check malfunction currently which detected by system monitor or the reminder for malfunction, when the malfunction appeared, please make troubleshooting as soon as possible., please contact VOGE service station if it is necessary.

Short press confirm to get into page menu;

Short press key up or down to select motorcycle setup, short press key confirm to get into page of motorcycle setup;

Short press key up or down to select motorcycle information, short press key confirm to get into page of motorcycle information;

Then the malfunction code could be checked;

Short press key “Return” to quit page of malfunction code.

Motorcycle information-Residual maintenance mileage

In the page of residual maintenance mileage, the user is able to check related information for residual maintenance mileage. When the motorcycle reached the mileage for maintenance, the maintenance sign lights up, which reminds user to contact VOGE service station for maintenance.

Short press key Confirm to get into page menu.

Short press key up or down to select motorcycle setup, short press key confirm to get into page of motorcycle setup;

Short press key up or down to select motorcycle information, short press key confirm to get into page of motorcycle information;

Short press key Return to quit page of residual maintenance mileage.

Reset the residual maintenance mileage

Short press key up or down to select residual maintenance mileage, press key Confirm to get into maintenance reminder returning, then short press key Confirm once again, the return successes.

0-out for sub-total mileage

Short press key Confirm to get into page menu;

Short press key up or down to select motorcycle setup, short press key Confirm to get into page setup;

Short press key up or down to choose 0-out for sub-total mileage, short press key Confirm to get in page of sub-total mileage 0-out.

Short press key up or down to choose 0-out of Trip A/Trip B, long press for 0-out of Trip A/Trip B.

Short press key Return to quit page of 0-out.

Tire pressure matching-up

Short press key Confirm to get into page menu;

Short press key up or down to choose motorcycle setup, short press key Confirm to get into page of setup;

Short press key up and down to select tire pressing matching-up, short press key Confirm to get into page of pressure matching-up;

Short press key up and down to shift between front and rear wheel, when short press key Confirm to fix matching up, through keeping air charge or discharge, until the reminder for success.

Short press key return to quit page of pressure matching-up.

Upshift reminder

Make gearshift at suitable rotation speed could effectively reduce shocking for gearshift and protect clutch, open and suitably reset the upshift reminder, which helps driver know well the motorcycle quicker, the initial rotation speed of upshift is 6500/rpm.

Short press key Confirm to get into page menu;

Short press key up and down the select setup of motorcycle, short press key Confirm to get into page setup;

Short press key up or down to choose upshift reminder, short press key Confirm to open function reminder of On/Off.

When the upshift reminder opened, the rotation speed reminder could be reset;

Short press key up to adjust thousand place or positive sequence;

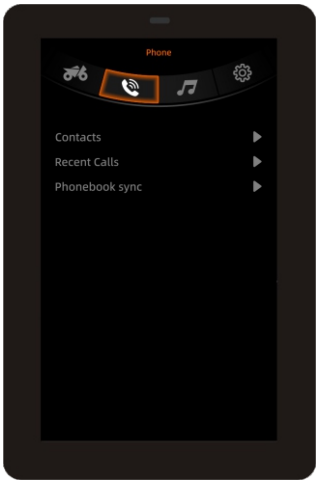
Short press key down to adjust thousand place of opposite sequence;

Short press key Confirm can shift between thousand and hundred place, whose adjustment are the same;

Short press key Return to quit upshift reminder.

Telephone

In the list of telephone, the content below could be checked, adjusted, or reset;
Phone list, latest calling and phone book sync.



⚠ Caution

Before using the phone book, please correctly connect related equipment, make Bluetooth connection between mobile phone, helmet and meter.

Phone book

In the page of phone book, the name list of calling record from phone book could be checked through Bluetooth;
Short press key Confirm to get into page menu;
Short press key up and down to choose telephone, short press key Confirm to get into page telephone;
Short press key up and down to choose phone book, short press key Confirm to get into page of phone book;
Short press key up and down the choose the number you want in phone book, short press key Confirm to quit telephone;
Short press key Return to quit phone book.

Latest call

In the page of latest call, the user could check name list of latest call in record through Bluetooth connection then make phone call.

Short press key Confirm to get into page of menu;

Short press key up and down to select telephone, short press key Confirm to get into page of telephone;

Short press key up and down toe select the latest call, short press key Confirm to get into the page of latest call;

Short press key up or down toe select the name of latest calls, short press key Confirm to make the phone call;

Short press key Return to quit latest call.

Phone book sync.

In the page of phonebook sync, the user could check name list in phonebook sync. through Bluetooth;
Short press key Confirm to get into page menu;
Short press key up or down to choose telephone, short press key Confirm to get into page of telephone;
Short press key up or down to choose phone book sync., short press key Confirm to get into page of phonebook sync.
Short press key up or down to choose confirm, then short press key Confirm to make phonebook sync.
Short press key Return to quit phonebook sync.

Music

In the page of Music, the user could play the song in mobile phone through Bluetooth, cooperate with left hand press Last song, Next song, Pause, Keep playing, and Voice adjustment.

Short press key Confirm the get into page menu;

Short press key up and down to select music, short press key Confirm to get into page of Music;

Play song through mobile phone;

System setup

In the page of system setup, the user can adjust and reset for content below;
Equipment connection, language setup, Metric/Imperial, time setup, brightness adjustment, version information, recover delivery setup.

Equipment connection

Connect mobile phone, helmet and meter through Bluetooth, then the phone could be used, also the music could be played.
Connect helmet Bluetooth through steps below;
Make sure the Bluetooth of helmet need be connected already on;
Short press key Confirm to get into page menu;
Short press key up or down to choose system setup, short press key Confirm to get into page of setup;
Short press key up or down to choose equipment connection, short press key Confirm to get into page of equipment connection;
Briefly press the "Confirm" key, and briefly press the "Up" or "down" key to select to re-search or clear the connection;
After re-searching and pressing the "Confirm" key, long press the "Confirm" key, then press the "Up" or "Down" key to select the name of the device you want to connect to, and short press the "Confirm" key to connect via Bluetooth.
Wait for connection success;
When it connected, it will show you "Already connected".
Short press key up or down to choose Bluetooth helmet 1/Bluetooth helmet 2/, then short press key confirm to get in;
When getting into meters, it will find out the Bluetooth equipment by itself;

Erase connection please do as below:

Short press key Confirm to get into page menu;
Short press key up or down to choose system setup, short press key Confirm to get into page of system setup;
Short press key up or down to choose equipment connection, short press key Confirm to get in;
Short press key up or down to choose connection erase, short press key Confirm to get into window;
Short press key up or down to choose cancel/confirm, short press key Confirm for confirmation.

Language setup

Shift meter to display the language to suit your reading habit.

Short press key Confirm to get into page menu;

Short press key up and down to choose system setup, short press key Confirm to get into page setup of system;

Short press key up and down to choose language setup, short press key Confirm to get into page of language setup;

Short press key up and down to choose language setup, short press key Confirm for confirmation.

Short press key Return to quit language setup.

Shift between Metric/Imperial

Shift speed unit to suit your reading habit.

Short press key Confirm to get into page menu;

Short press key up and down to choose system setup, short press key Confirm to get into system setup;

Short press key up and down to choose shift between Metric and Imperial, short press key Confirm to get into page for shift between metric and imperial;

Short press key Return to quit page of metric/imperial shift.

Time setup

Adjust the time displaying on main page.

Short press key Confirm to get into page menu;

Short press key up and down to select system setup, short press key Confirm to get into page of system setup;

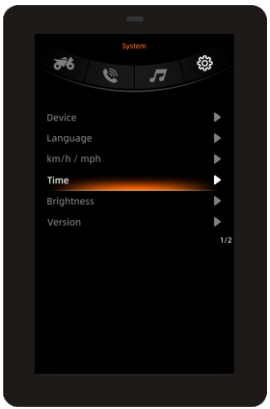
Short press key up and down the choose time setup, short press key Confirm to get into page of time setup;

Short pres key up and down to choose the time display you need, short press key Confirm to shift time display;

Short press key Return to quit time setup.

Time setup-Time alignment

Short press key Confirm to get into page of menu;
Short press key up or down to choose system setup, short press key Confirm to get into page of setup;
Short press key up and down to choose time setup, short press key Confirm to get into page of time setup;
Short press key up and down to choose time alignment, short press key Confirm to get into page of time alignment;
Short press key Confirm could shift within time section, hour and minute in circulation, cooperate key up and down to adjust the time you need, short press key Confirm to save;
Short press key up the numbers are increasing, short press key down to decrease the numbers;
The shifting range of hours place: Shift circulation from 01-12.
Shift range of minutes place: Shift circulation from 00-59.
Short press key Return to quit time setup.



Brightness adjustment

Short press key Confirm to get into page of menu;

Short press key up and down to choose system setup, short press key Confirm to get into page of system setup;

Short press key up and down to choose brightness adjustment, short press key Confirm to get into page of brightness adjustment;

Short press key up and down to adjust brightness, adjust to the brightness you need, Press the back key briefly to save the current Settings and return to the brightness adjustment interface.

Short press key Return to quit brightness setup.

Version information

In the page of version information, the user can check version number of HW for current model, also include version number of SOC and version number of MCU and SW.

Short press key Confirm to get into page menu;

Short press key up and down to choose system setup, short press key Confirm to get into page of system setup;

Short press key up and down to choose version information, short press key Confirm to get into page of version information;

Then the version information could be checked;

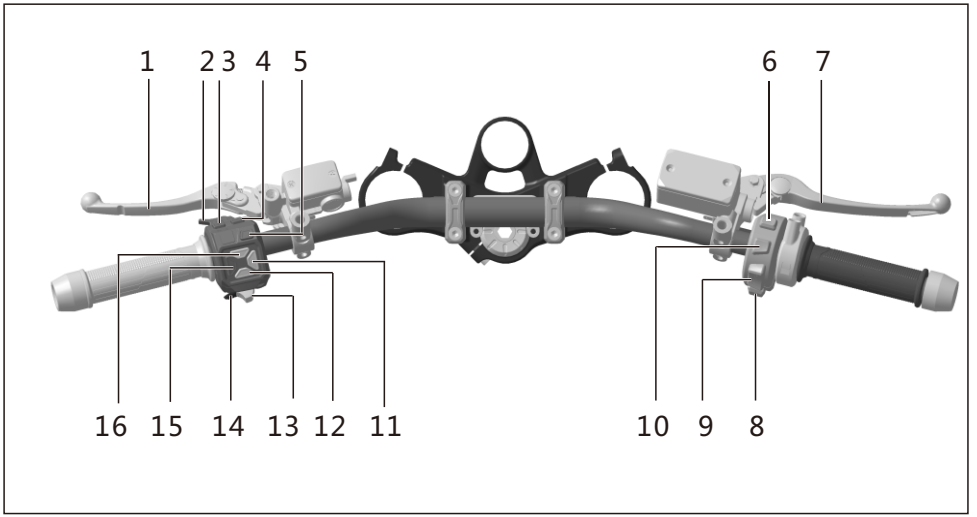
Short press key Return to quit version information.

Recover delivery setup

Recover all setup of meter to delivery situation.
Short press key Confirm to get into page menu;
Short press key up and down to get into system setup, short press key Confirm to get into page of system setup;
Short press key and up and down to choose recover delivery setup, short press key Confirm to recover page of setup;
Short press key up and down to choose cancel/confirm, short press key Confirm to confirm it;
Short press key Return to recover delivery setup.

Steering set switch

1. Clutch handle
2. High and low beam, overtaking switches
3. Grip heating up button
4. Seat heating up button
5. Emergency light button
6. ABS switch
7. Front brake handle
8. Front fog light switch
9. Electric start/stop switch
10. Mode shift button
11. Confirm key
12. Down key
13. Turn signal switch
14. Horn button
15. Return key/TCS switch
16. Up key



High/low beam and overtaking light switch (If the voltage in battery is enough or when the engine already started)

When the high/low beam or overtaking switch was pushed forward to" ≣D ",the high beam gets on, meanwhile the indicator light " ≣D"on meter also gets on.

When pulled high/low beam and overtaking switch backwards to " ≣D ",the low beam gets on, meanwhile the indicator light " ≣D " for high mean gets on.

When pressed button " ≣D ",the low beam gets on, meanwhile the indicator light " ≣D "on meter gets one, when it released, it recovers.

⚠ Caution
When the engine is not working, and the voltage in battery was low, the indicator light for high/low beam may goes off automatically, when power got enough, it lights up once again.

Turning signal light

When pushed turning signal switch on left switch assembly to left side " ⇦ ", the both front and rear turning signal light on left get on, meanwhile its corresponding indicator light " ⇦ " on meter also gets on.

When pushed turning signal switch on left switch assembly to right side " ⇨ ", the both front and rear turning signal light on right get on, meanwhile its corresponding indicator light " ⇨ "on meter also gets on.

When press the middle place of turning signal switch on left switch assembly inwards, the turning signal lights go off, while its indicator light on meter also get off.

Button " 📯 " for horn

When pressing" 📯 ",the horn rings.

Emergency light switch " ⚠ "

When pressed down button " ⚠ ", all the turning signal lights and their indicator light on meter were all blinking.

At this moment, in case turned turning signal switch to one side, only the turning signals on this side keep working, and the ones on other side goes off, when pressed down middle place of turning signal switch, both turning signal lights on left and right are blinking (We call it Turning signal function first).

In case need get emergency light off, press once again the button for emergency light.

In case there is emergency stopping or accident on your motorcycle, please press emergency light switch to remind other vehicles on road pay attention to.

Return key " ⮌ " on meter

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

Key confirm " ENT "

Press key confirm " ENT " to get into setup page.

Clutch lever

Tightly hold the clutch lever, the engine was in some gear position and electrical starting could be done, clutch gearshift could be conducted.

Handle bar heating up switch " 🔥 "

This model adjust heat positions of adjusting grip by adjusting button of heating up, there is corresponding display on meter, there are 3 gears position such as 3-2-1, the temperature falls according to 3-2-1. When the motorcycle got power on, the default for heating up function is off, press button each time, change on position, whose sequence is 3-2-1-off-3. When the engine is not working, press heating up button can only see the position changes on meter without actual heating up. When engine got working, it making heating up according to the position you selected.

Seat heating up switch" "

This model adjust heat positions of adjusting grip by adjusting button of heating up, there is corresponding display on meter, there are 3 gears position such as 3-2-1, the temperature falls according to 3-2-1. When the motorcycle got power on, the default for heating up function is off, press button each time, change on position, whose sequence is 3-2-1-off-3. When the engine is not working, press heating up button can only see the position changes on meter without actual heating up. When engine got working, it making heating up according to the position you selected.

Front fog light switch" "

Turn on the front fog light switch, the indicator on meter goes on, when the power in battery is enough, the left and right fog lights are both on, when power in battery goes lower, the front fog light goes off automatically, when voltage recovered it gets on once again, turn off the front fog light, the fog light and its indicating light goes off together.

Button MODE for modes shift

Short press button MODE to shift mode from normal one to sport mode, then short press once again, shift to normal mode, then the TFT meter screen changed after that. (Default mode for every time opening is normal mode).

Electric starting/Engine kill switch

When turned electric starting/engine kill switch on right switch assembly to position " ", the electric starting for engine works, when turned electric starting/engine kill switch back to position " ", the engine is normally working.
When engine is working, in case turn the electric starting/engine kill switch to position " ", the engine stops working immediately.
Electric starting/Engine kill switch is the fastest while easiest way for stop engine working.

Front brake lever

Tightly clasp this lever, the front wheel brakes, meanwhile rear braking light getting on .

Danger
In case turned kill switch to position " "during driving may make rear wheel suddenly lock up even accident.

Switch ABS

Long press switch ABS, when ABS function was on, the default function for ABS is both front and rear wheel are on. Long press ABS switch on right switch kit by 3-5 seconds, the ABS for front and rear are both off, long press switch once again for 3-5 seconds, the ABS for front wheel is on while the rear is off, long press switch the third time for 3-5 seconds, the ABS of front and rear are both on and the initial condition.

TCS switch

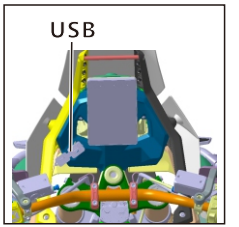
When long pressing TCS switch, On/Off for TCS function, when ignition switch starting once again, the default for TCS is on.

Socket " " for USB power supply

This model equipped power supply socket for USB, according to different Mobile phone's User Agreement, the ones for one-way match up with 18W(5V3A, 9V2A, and 12V1.5A); while the ones for Dual connector is 20W(5V4A) in all.
The water-proof cap for USB power socket is with mark " ", take it up then the USB socket could be normally used.

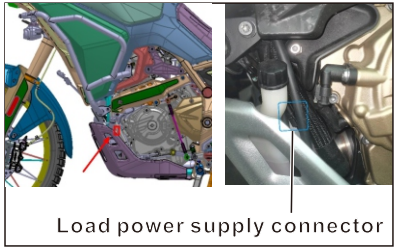
⚠ Warning

The socket plug and connective wire need be prepared by user themselves, when used, well cover in place by water-proof cap to prevent water or dust getting into USB power socket even reduce its working life.



Reserved joint for power supply

This model reserves joint for power supply, which is at inner side covering parts on the left middle of motorcycle. If extra loading is necessary (Don't be more than 80W), please connect to this joint, to avoid too long the time or too heavy the outsourced loading makes battery power loss, when the voltage of battery is lower than normal, the controlling system may get this circuit off, when voltage recovered, it could normally work once again.



ABS system

1.Deceleration and braking under normal situation, release the throttle first, tightly hold the handle bar and then brake. When driving speed fell, to avoid engine stop working, hold clutch lever to get into low gear position.
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.

Under some special road condition or operation, such as extreme country-crossing of stunt play, may not need ABS, at this moment, the ABS could be off. Except the conditions above, for keep driving safety, please always keep ABS under working.

On and Off for ABS:

1.Make motorcycle power on, the motorcycle is parking, long press ABS switch on right switch kit by 3-5 seconds, at this moment, the ABS on front and rear wheel are off, the sign on meter for ABS is amber. At this moment (When power supply is on during driving), long press ABS switch for 3-5 seconds once again, the ABS on rear wheel goes off, the sign for rear wheel indicator light shows amber, then long press 3-5 seconds of ABS once again, the ABS function recovers while sign on meter showing white.

2.When motorcycle got power on once again, the default status for ABS function is on.

⚠ Caution

For the models with function ABS, when braking in full power, there will be obvious bounce back on brake lever or pedal with frequency, which is normal, don't worry about it, only need to do is tightly hold the grips for 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

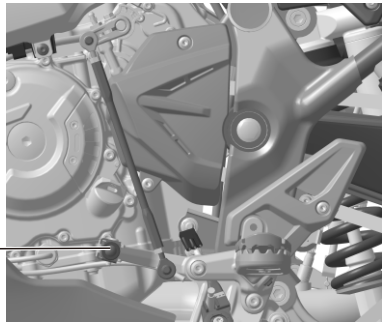
Confirm sliding difference according to differential device, compare the wheel speed for front and rear wheel. Then confirm stable surplus for rear wheel. In case the sliding difference was exceeded, the control system of engine will adjust torque from engine.

⚠ Caution

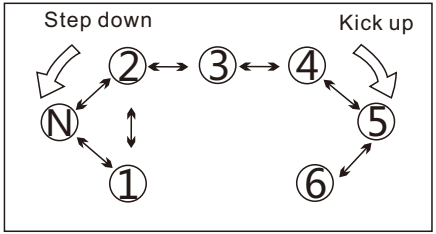
Some special operation of TCS under some special road conditions:
In case the front wheel gets apart ground under high accelerating speed, the TCS will reduce the torque for engine until front wheel touch ground once again. We suggest turn back throttle lever a little under this kind of situation to get back to stable driving as soon as possible.
On smooth surface, sudden acceleration or full throttle is not allowed which may lead to rear wheel skidding under engine torque, which makes unstable driving, this kind of situation could not be controlled by TCS.
On soft ground such as snow or sand road, the controlling and adjusting ability of TCS largely reduced, even makes rear wheel can turn enough, under this kind of situation, we suggest turn off TCS at this moment.
Except this special road condition, for safety, please always open TCS.
When the driving mode shifted to Enduro (Cross-country), the TCS will then get off.

On and Off for TCS and their shift please refer to P17 and P63.

Gearshift device



This model equipped gearshift device with 6 gear positions, whose gearshift details are shown as below:



•The gearshift device makes engine stale work within normal rotation speed.

•Gearshift ratio is carefully designed according to engine performance, the driver shall select the most suitable gear position, please don't drive in high speed while in low gear position.

•To ensure smooth gearshift and reduce impact on rear wheel, use clutch in cooperation, before shift to low gear position, reduce driving speed and rise up rotation speed of engine.

•To ensure smooth gearshift and reduce impact on rear wheel, use clutch in cooperation, before shift to high gear position, rise up driving speed and reduce rotation speed of engine.

⚠ Warning

Any time, please don't control driving speed in semi-clutch way. Any gear position, sliding while tightly holding clutch is not allowed.

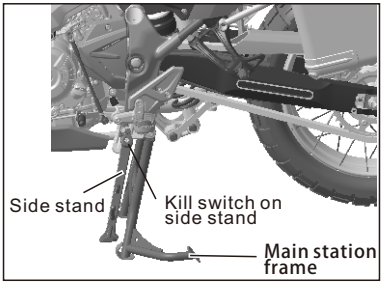
Side stand and main stand

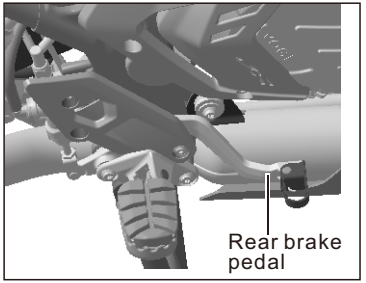
The design for this model includes both side stand and main stand.

Kill switch on side stand is a design for safety, which is a part in starting circuit of engine.

Rear brake pedal

Step down rear brake pedal, the rear wheel brakes, while its indicating light gets on.





⚠ 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 while getting engine into 1st gear position.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.

⚠ Caution

1.When the side stand working, it just supports the motorcycle, the engine could be started only when it is in neutral gear; When engine is not in neutral gear, any gear positions the engine could not be started.

2.When side stand completely picked up, tightly hold clutch lever, the engine could be started at any gear position; When the engine is in gear position, once lay down the side stand, then engine stops immediately.

Engine starting

The side stand Is laid down.

Press button of ignition switch.

Confirm if the engine is in neutral, the indicator light " N " for neutral gear on meter may get on.

Once conditions above got ready, tightly clasp clutch lever by left hand for ensure safety, the right hand press electric starting button "⚡", under this case, you needn't turn the accelerator grip.

When engine started, release electric starting button immediately.

Start engine, to let it pre-heat sufficiently.

⚠ Caution

The design for this model is with interlocking switch for ignition circuit and starting circuit, also with kill switch on side stand. The engine could be started under conditions only as below shows:

The engine is in neutral gear " N ", and the ignition switch and kill switch are at position "↻".

The engine is not in neutral gear, and the ignition switch and kill switch are at position "↻", pick up side stand, and tightly clasp clutch lever.

⚠ 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.

⚠ Danger

The exhasut gas of motorcycle has carbon monoxide, which is without color, smell, but poisonous.
In the place without smooth ventilation or indoors, start engine for idling too long is not allowed, to avoid poisoning.

Fuel filling-up

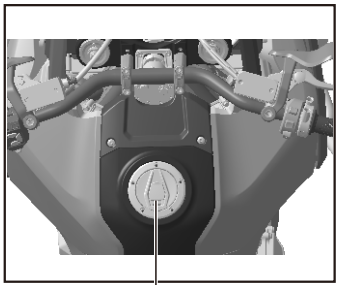
Reminder for low residual fuel level This alarm light reminds you fuel filling-up

Caution: In case the fuel is not enough, it leads to engine starting failure, or abnormal power output, under this case, keep driving will damage fuel pump.

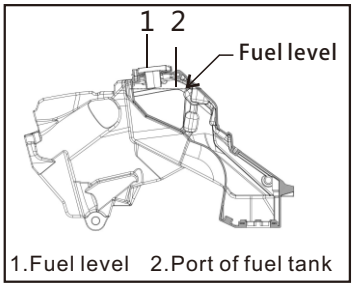
Don't run out the fuel in the tank, make fuel filling-up before the alarm light gets yellow.

Get mechanical key or spare one into lock's core of fuel tank cap completely, then turn the cap clockwise to lift up. When fuel filled up, get the fuel tank cap to its original position, then powerfully press down to lock it up. Get key back, at this moment, the key could be removed. Please don't wash the lock's keyhole by water gun with high pressure to prevent water get into fuel tank.

Please adopt unleaded or low lead gasoline above 95.



Fuel tank cap



1.Fuel level 2.Port of fuel tank

Fuel tank capacity:24L

⚠ 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.

⚠ Danger

Please keep far away from fire or heat source when filling up gasoline.

VI. Malfunctions

Insufficient oil pressure

This alarm light means too low the pressure in lubrication system. At this moment, please stop the engine.

The only correct way for checking oil level is viewing through oil level on oil gauge.

One reason for oil alarm light on is too low the oil level. Check oil level in engine, please fill up with oil when the level is too low.

If the oil alarm light goes on, but the oil level is correct, that means there may have other causes. If keep driving under this condition, these causes may get engine damaged. If the light keeps on while oil level is correct, please stop driving.

Please contact service station nearby for troubleshooting, of which go to VOGE dealer is the best choice.

Too hot the coolant

Alarm light got on means too hot the coolant.

When engine is overheated, keep driving may get engine damaged, so please follow the rules below.

Stop driving and engine immediately, until indicator light goes off. When motorcycle was cooled down, please check coolant and heat radiator.

-In case too low the coolant level, please fill up with coolant.

-In case the alarm light for coolant temperature got on while the electric fan of heat radiator doesn't work, please contact service station nearby for troubleshooting, the best way is contact local dealer of VOGE.

Insufficient coolant

In case coolant was not enough or the heat radiator is blocked by stand or stone, we suggest the way as below:

-Reduce loading of motorcycle to reduce heat produced by engine.

-When traffic was met, try everything possible to let engine in idling, please don't turn the accelerator grip to avoid more heat produced.

-In case the operation above still fail to let engine cool down, please stop it, and contact service station for it only nearby as soon as possible for troubleshooting.

Malfunction in engine system

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

When engine is in neutral gear, please confirm the kill switch is in its starting position.

When engine is in gear position, tightly clasp clutch, if side stand is picked up while fuel is enough.

Is the fuel sufficient.

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

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 VOGE dealer.

Malfunction inspection and repair

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 VOGE 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 rotation seed of engine in the first 500km should not be over 5000r/min, 50km/h, the second 500km without over 7000/min.

•During grind-in, the gear position and rotation speed of engine shall change usually, don't let motorcycle work in a same gear position or rotation speed for a long time.

•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 grind-in, except emergency, avoid sudden acceleration or braking as possible.

No dragging for gear, get into lower gear before deceleration, let engine always works under comfortable situation.

•During this period, don't drive for a long journey, let engine have enough rest.

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.

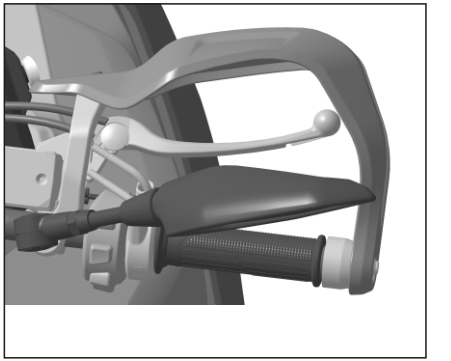
⚠ Danger
To get the best tire grinding-in, in its first 200km, sudden acceleration, turning or braking are not allowed.

Ⅷ.Adjsutment

Adjustment for front brake lever

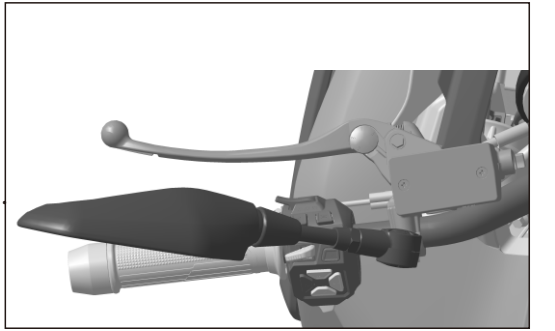
Adjust the button could adjust distance between lever and accelerator grip.
There are 5 positions for adjustment, whose method is as below:
-When adjusting, please push forward the lever.
-Turn the adjusting button to the position you want.
-Release the lever which is pushing forward, the adjustment achieved.

> ⚠ Danger
>
> Adjust front brake lever during driving is dangerous, take hand apart from handle bar may reduce your control on motorcycle.



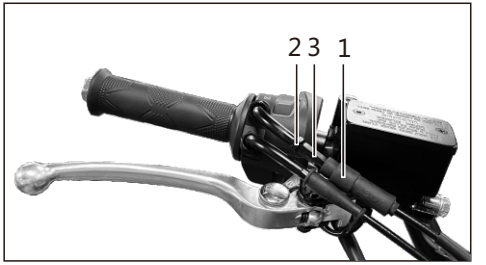
Adjustment for clutch lever

Adjust the button could adjust distance between lever and accelerator grip.
There are 5 positions for adjustment, whose method is as below:
-When adjusting, please push forward the lever.
-Turn the adjusting button to the position you want.
-Release the lever which is pushing forward, the adjustment achieved.



Adjustment for throttle control grip

Throttle control grip is for controlling rotation speed of engine.
Turn the grip to the side of driver is speeding up, to opposite side is slowing down.
Adjustment for gap of throttle cable.
-Remove rubber jacket 1
-Loosen locking nut 2
-Turn adjustor 3, adjust the gap of throttle cable to 2-4mm.
-Lock up nut 2.
-Re-assemble rubber jacket 1 in place.



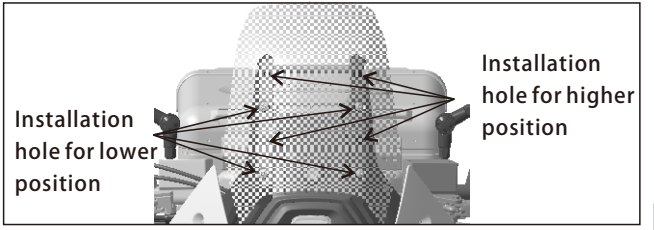
Free play for throttle cable is 2-4mm.

⚠ Caution

When the adjustment for throttle cable achieved, make sure it could be got back by itself without idling rising up.
When the adjustment for throttle cable achieved, turn the handle bar to left and right limit without idling rising up.

Adjustment for windshield glass

There are two positions for height of windshield glass, one is higher and another is lower, please choose the right position according to your own stature, which should be manually assemble and adjust.



Adjustment for handle bar

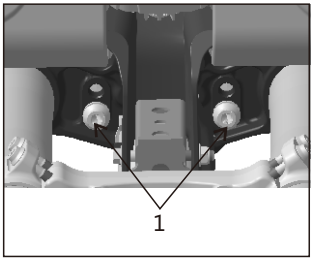
1.Loosen installation bolt 1 for base of upper connective plate and installation bolt 2, then remove bolt 1, bolt 2, elastic washer and flat washer.

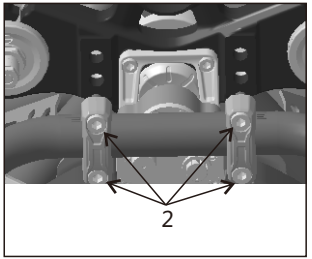
2.Remove steering stem clips and handle bar.

3.According to your own driving habit, put the handle bar clips in their place, when confirmed, pre-fasten bolt 1, elastic and flat washer.

4.Assemble clip of handle bar in place and pre-fasten bolt 2, adjust the position of handle bar according to your own driving conditions, fasten 2 first then the 1.

5.Torque for bolt 1 is 35N.m while the 2 is 18N.m.



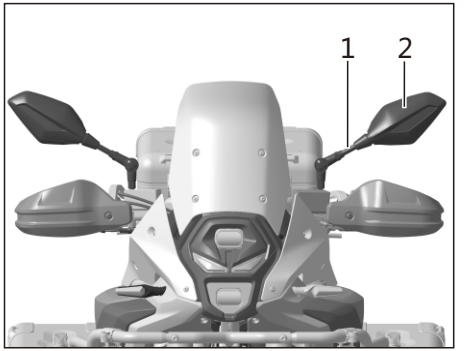


Adjustment for back-view mirror

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

The mirror body 1 and case 2 could adjust by hand directly.

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



Adjustment for gearshift pedal

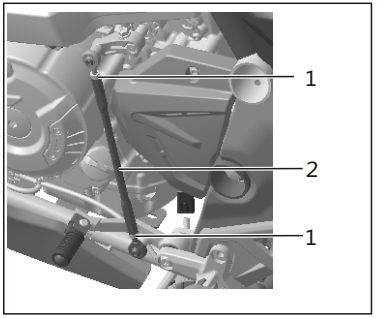
•During driving, the road conditions are various, gearshift pedal can change speed and traction force.

•The rod for gearshift pedal is adjustable to suit your driving habit.

-Loosen 2 pieces of hex. nut 1 for locking up connective rod for gearshift.

-Turn the connective rod 2 of gearshift, to adjust the gearshift pedal to the position make you comfortable during driving.

-Finally lock up the hex. nut.



Adjustment for rear brake pedal

•Keep the height of rear brake pedal at a suitable position, in case too high, it is easy to be stepped during driving, which lead to brake pads and plate usually touch makes friction even damage.

•For ensure reliable braking, the free play of rear brake pedal shall be within 15-25mm, in case its free play is incorrect, please adjust as below:

-Remove split pin 1

-Remove pin axis 2

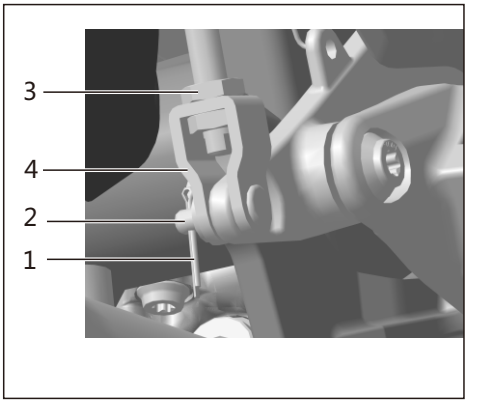
-Loosen nut 3 on adjusting stud

-Turn connective piece 4 of adjusting stud clockwise or anti-clockwise

-Turn clockwise the pedal gets up, anticlockwise it gets down.

-When the height of brake pedal adjusted to suitable position, lock up the nut on adjusting stud.

-Re-assembly is precisely opposite to disassembly.



Free play for rear brake pedal shall be 15-25mm

Fastening torque for nut of adjusting stud shall be 18 N.m

⚠ Danger

When re-assembling, please replace split pin for a new one.

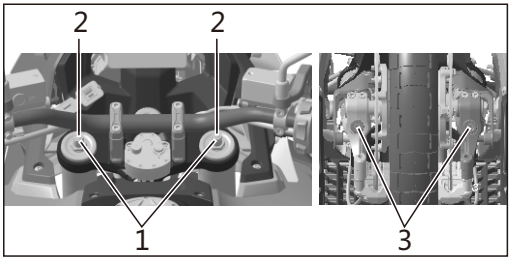
When re-assembled, repeatedly press and release brake pedal, while confirming you can clearly feel the pressing point.

In case pressing point failed to be felt, please contact VOGE dealer.

In case adjustment is not correct, the brake pad and plate are always under stress, which may lead to their damage.

Adjust front shock absorber

Adjust the pre-load and damping load for front shock absorber is to suit different drivers, loadings, driving habits and road conditions.



The pre-pressure of spring is adjustable.

-Turn the adjustor 1 anticlockwise, Spring preload decreases, the pre-loading of spring gets soft.

-Turn the adjustor 1 clockwise, Spring preload increases, the pre-loading of spring gets hard.

The left and right front shock absorbers maintain consistent preload.

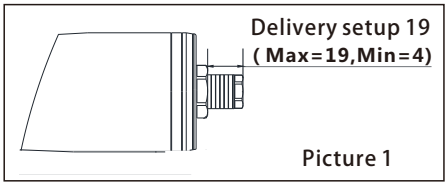
Pre loaded factory height 19mm (as shown in the picture)

The returning damping of front shock absorber is adjustable.

–Turn the adjustor 2 on upper side of left and right shock absorber anti-clockwise, the damping of returning gets weaker.

–Turn the adjustor 2 on upper side of left and right shock absorber clockwise, the damping of returning gets stronger.

–There are 10 positions of adjustor on upper side of left and right front shock absorber.



The compression damping of front shock absorber is adjustable.

–Turn the adjustor 3 on lower side of left and right shock absorber anti-clockwise, the compression damping gets weaker.

–Turn the adjustor 3 on lower side of left and right shock absorber clockwise, the compression damping gets stronger.

–There are 10 positions of adjustor on lower side of left and right front shock absorber.

Please adjust the gear according to personal preference.

First gear setting position: Facing the screw plug, turn the regulator clockwise with a torque of 0.5Nm until it can no longer move, then rotate it counterclockwise with a torque of 0.5Nm. The first gear is when you feel the duster sliding into the groove.

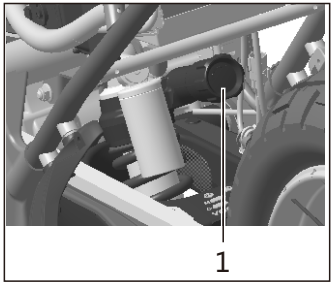
⚠ Caution

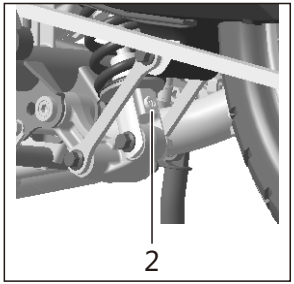
When turned all the adjustors to their limit could not be powerful, otherwise the adjustors may damage;

When turned all the adjustors to their limit, then return back to gear position, to keep working life for adjustor.

Driving in cold condition, please check if the surface of shock absorber gets frozen before every driving, in case it is, please clean it up by fresh new tissue without dust of dirt.

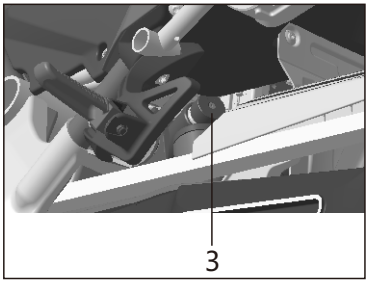
Adjust rear shock absorber





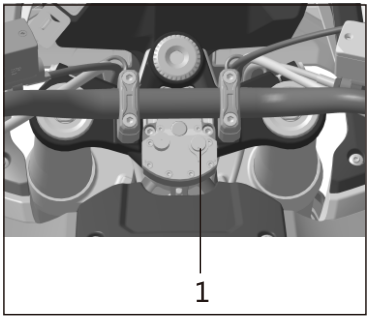
The pre-pressure for spring is adjustable.
Face to the right side of motorcycle, turn the adjustor 1 anticlockwise, the pre-loading for spring gets soft.
Face to the right side of motorcycle, turn the adjustor 1 anticlockwise, the pre-loading of spring gets hard.
Driving mode of driver only without loading: Turn the djustor 1 anticlockwise to limit, then turn it clockwise by 6 positions (Position of delivery time);
Driver only with 3 cases: Turn the adjustor 1 anticlockwise to limit, then turn it clockwise by 16±1 positions;
Driver and passenger with 3 cases: Turn the adjustor 1 anticlockwise to limit, then turn clockwise by 21±1 positions.
We suggest adjustment to suit different road conditions and driving habits
The setup for 1st gear: Face right front to adjustor, turn the adjustor anticlockwise until stop, then turn it back clockwise, when you feel the clipping ball slides into the groove, which is the 1st gear position.
The returning damp for rear shock absorber is adjustable
Face to the left side of motorcycle, turn the adjustor 2 anticlockwise, the damping of bouncing back. for spring gets weak.
Face to the left side of motorcycle, turn the adjustor 2 clockwise, the damping of bouncing back. for spring gets strong.
Driver only without loading: Turn the adjustor 2 clockwise to limit, then turn it anticlockwise by 18 positions (Position at delivery time);
Driver only with 3 cases: Turn adjustor 2 clockwise to limit, then turn it anticlockwise by 16±1 positions;
Driver and passenger with 3 cases: Turn the adjustor 2 clockwise to limit, then turn it anticlockwise by 14±1 positions.
We suggest adjustment according to different road conditions and driving habits.
The setup for the 1st gear: Face to adjustor right front, turn the adjustor clockwise to limit by torque of 0.5N.m, then turn it oppositely until you feel the clipping ball fall into groove, which means the 1st gear position.
When adjusting the pre-loading of rear shock absorber, please keep main stand working, adjust the pre-loading for rear shock absorber under 0 pressure for rear suspension rack.

Compression damping of rear shock absorber is adjustable:
-Face to the rear left side of motorcycle, turn the adjustor 3 (Air bottle position) anti-clockwise, the compressing damping gets weaker.
-Face to the rear left side of motorcycle, turn the adjustor 3 (Air bottle position) clockwise, then the compressing damping gets stronger.
Driver only mode without loading: Turn adjustor 3 clockwise to limit, then turn it oppositely by 10 positions (Delivery condition):
Driver only mode with 3 cases: Turn the adjustor 3 to limit clockwise, then turn it oppositely by 8 positions;
Driver and passenger mode with 3 cases: Turn adjustor 3 to limit clockwise, then turn it oppositely by 6 positions.
We suggest adjust according to different road conditions and driving styles;



Adjustment for turning damping:

1.Turn the adjustor 1 to arrow “S”,the damping gets weaker;
2.Turn the adjustor 1 to arrow “H”,the damping gets stronger.



Caution:

1.There are 30±2 sections for adjustable damping, powerful adjustment for button is unnecessary, when damping got the Max. or Min. limit, powerful turning is not allowed, otherwise the precise parts inside may damage.

2.Sectional adjusting button for damping, the side of gap facing to

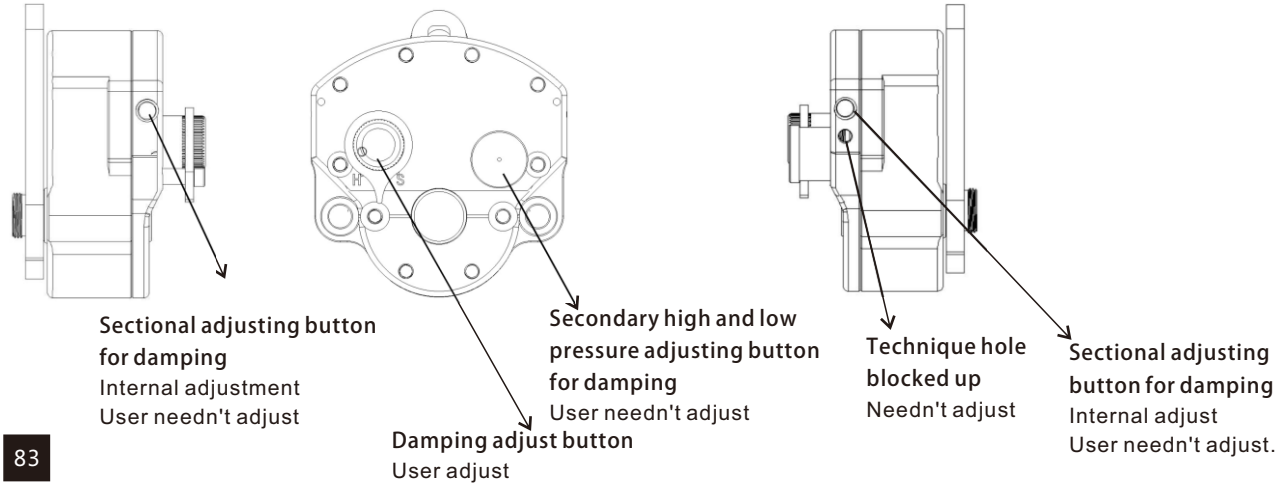
34° range to 9'o clock direction for damping

44° range of 12'o clock direction for damping

54° range of 3'o clock direction for damping

90° range full degree of 6'o clock direction for damping

3.Figure



⚠ Caution

The adjustment for pre-pressure of spring on shock absorber need tools for it only, the dealer of VOGE authorized will provide you good service for this aspect.

⚠ Danger

Please don't adjust pre-pressure for rear shock absorber at will, improper adjustment may reduce your control on motorcycle, in case adjustment is needed, please contact dealer of VOGE authorized.

Adjustment for headlight dimmer

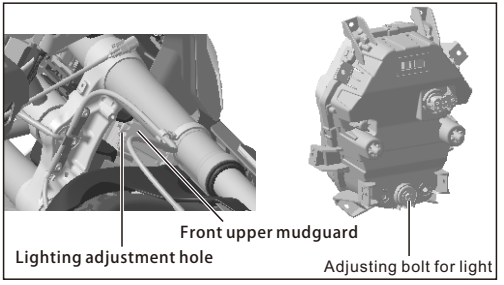
•All the height of headlight must be correct under any loading of shock absorber.

•To keep safe night driving, adjust the light angle of headlight to suit different loadings.

-The position of the adjustment screw is located below the headlight. First, remove the front upper mudguard and insert it into the light adjustment hole shown in the right picture using a Phillips screwdriver.

-Turn the Phillips screwdriver clockwise to raise the light.

-Turn the Phillips screwdriver counterclockwise to lower the light.



⚠ Danger

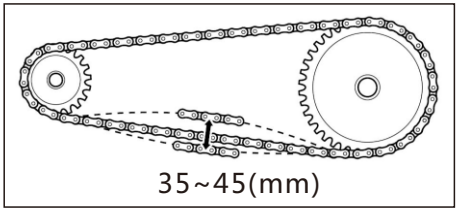
In case you don't know much about the height of light, please contact the VOGE dealer.

Turning auxiliary light

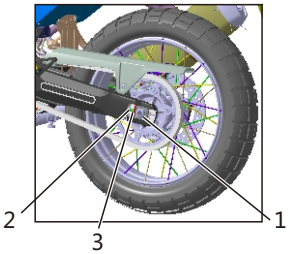
The turning auxiliary light gets the lighting range wider at night, which promotes turning safety at night.

The auxiliary light works only when fog lamp switch is off while low beam is on. When low beam gets on, turn on turning switch on one side or motorcycle inclined in some angle, the auxiliary light (Fog lamp) on this side gets on, turn off the turning switch or hold motorcycle upright, the auxiliary light goes off.

Adjustment for transmission chain



•Too tight or loose the chain are both incorrect.
•Too loose the chain, it may cause the chain drop during driving then lead to accident.
•Too tight the chain is bad for its working life, meanwhile increase resistance for power transmission.
The correct way for adjust chain is as shown:
In case the tightness of chain fail to meet the demand, the adjustment is necessary.
•Keep motorcycle upright by parking rack.
•Loosen nut 1 for rear wheel axle, adjusting bolt 2 for adjustment, then adjust the bolt 3 according to tightness of chain.
•In case too loose the chain, please turn the bolt 3 clockwise.
•In case too tight the chain, turn the bolt 3 anticlockwise, then powerfully push the motorcycle forward to get it loose.
•When the chain got the suitable tightness, fine tuning for bolt at left and right, let the scale lines on adjusting piece and rear fork aligned.
•Lock up nut 1 for rear wheel axle and adjustable bolts 2 on left and right side.



Specification for driving chain:
Specification: 525SX2 Links: 122 pieces
Oil seal Chain Locking ring without opening

Locking torque of the rear axle nut:105±7N·m
Fastening torque for adjustable bolt 2 is: 18±1.8N.m

⚠ Caution

During the loosening and fastening of nut 1 for rear wheel axle, make sure the tight contact between inner side of hexagona head on right end and outer side of chain adjustor whose contact shall be upwards.

⚠ Danger

This kind of driving chain is without opening, the one with opening could not be adopted, otherwise it leads to accident. Replace this kind of driving chain need tools for it only, poor riveting for links without opening will also leads to chain break up even accident.

IX.Check, repair and maintenance

The 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.

-Motorcycle shall drive under economic speed first, whose economic speed is 80km/h, the faster the bigger fuel consumption.

–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 VOGE 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 though 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.

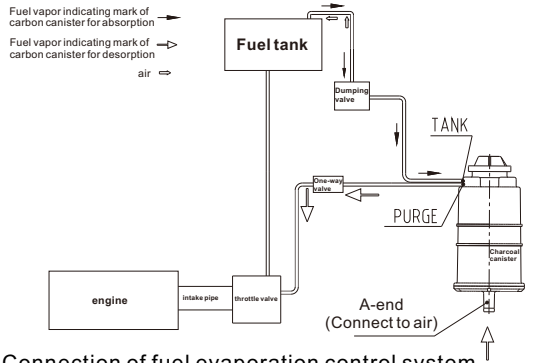
The absorbing tube also make the air pressure in fuel tank get balanced, when the air pressure in fuel tank was lower than air outside, supplement the air pressure through the absorbing tube on carbon canister; In this case, please make sure all the tube smooth without blocking and squeeze, make sure 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 though 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 flow from end A of carbon cannister to the end PURGE to bring the gas vapor into throttle valve, then join combustion by getting though the air inlet tube.



Connection of fuel evaporation control system

Three-way catalyst

There is three-way catalyst in exhaust system of motorcycle, which reduces the harmful effect of engine emission gas. The poor working of engine may get three-way catalyst damaged, so please follow the rules below;

Make periodic maintenance according to Quality Guarantee or User Manual

When engine working is unstable, please contact VOGE dealer as soon as possible.

When fuel alarm light is on, please fill up with fuel as soon as possible, too low the fuel level may lead to irregular fuel supply.

Please don't start engine by pushing or dragging motorcycle.

Please cut off ignition switch when it is in idling.

⚠ Warning

The three-way catalyst is a fragile parts, please adopt unleaded gasoline only, the gasoline with lead may damage the catalyst, meanwhile leaving damage on other parts.

⚠ Danger

Parking or driving on combustible material is not allowed, such as dry grass, the catalyst is very hot when it is working, which easy to catch fire.

Tool kit

The tool kit is on the bottom plate of passenger seat (The tool kit includes: Socket hex. wrench of T25, Socket hex. wrench of T30.)

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.

-Clutch lever's shaft
-Brake lever's shaft
-Shaft jacket of brake pedal.
-Shaft for side stand and spring hook for side stand.
-Shaft for main footrest, pillion step, and returning spring.
-drive chain
-gear shift pedal
-Main stand shaft and spring hook.

⚠ Caution

Except the chain needs lubricant for it only, other lubrication point we suggest adopt lubricant of lithium.

⚠ Warning

For keep battery working life, additional electrical device with strong power is not allowed, in case add electrical device with weak power, please contact service station of VOGE, make sure the added electrical device use the reserved joint on original motorcycle.

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 12.6V, 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 stable 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.

⚠ 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.

•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.

Disassemble and re-assemble battery

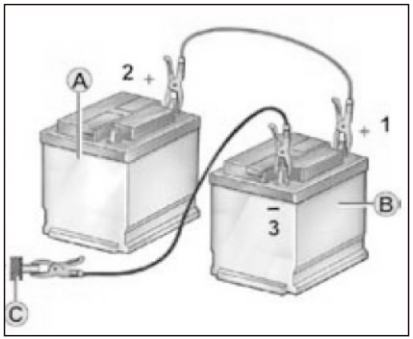
Before disassembling or re-assembling battery, please turn off ignition switch first, then get the motorcycle power off.
When disassembling battery, remove negative terminal first, then the positive one.
When re-assembling battery, assemble positive terminal first, then the negative one.
When disassembling battery, before taking it out, turn the bolt onto battery first, to avoid nut dropping off during removal of battery.
When battery connected once again, the data storage for tire pressure will erase, when the driving speed is above 25km/h, the tire pressure updated automatically; Then please connect to APP for driving recorder once again to keep same time with it; Then get into menu for setting up on meter to adjust the time of meter.

⚠ Warning

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

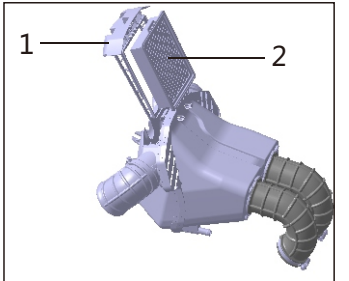
External power supply

•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.



Maintenance for air filter

•The air filter locates under fuel tank, if it is blocked by dust, the air inlet may get harder, which reduce power output and increase fuel consumption.
•In case driving under dusty condition, clean up and replace the element more frequent.
•The cleaning up and replacement for air filter element:
-Remove covering parts above air filter;
-Press the clipping piece for element of air filter inwards, then lift up bracket for element of air filter;
-Remove the old element of air filter backwards, then clean it up or replace;
-Replace the element for a new one, get the round hole on upper and lower side aligned to positioning pillar, make sure it well stick to bracket;
-Press the bracket downwards into case body of air filter, the locking position for clipping piece of installing element is suitable, lift up bracket slightly without loose or dropping off;
-Recover the motorcycle in place.
•The broken element may let dust get into engine and make engine damage, so please replace the broken one.
•In case the element is installed in wrong position, the dust may bypass the element and get into engine then get engine damaged, so please install it in place.



1. Filter element bracket
2. Filter element

⚠ Caution

When cleaning up the element, the blowing air shall inlet from the side of metallic net, in case get in from another side, the dust may stay in the clearance of element, which largely reduce the effect of cleaning up.

Oil in 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:

–Put the motorcycle on horizontal ground and get main stand opened.

–Start engine and male it idly run until cooling fan begin working, then idly run for 1 minute.

–Stop engine and wait for a minute to make sure oil returned.

–Clean up surrounding of oil filling-up port.

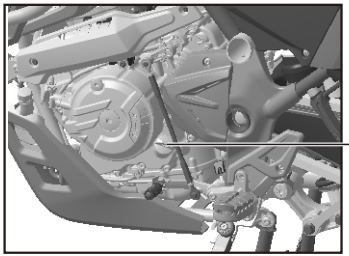
–Turn and remove oil gauge and wipe it up by industrial tissue, then insert the oil gauge in and turn by 1 round, then remove it to check oil level.

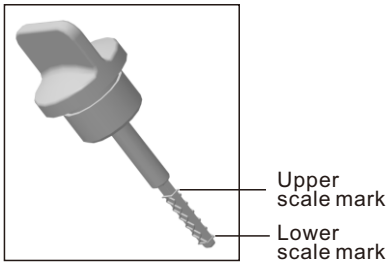
–The correct level shall be within the upper and lower scale lines of oil gauge 1.

•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.

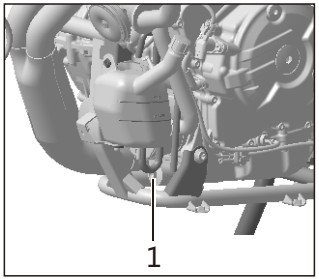
Oil draining off

-If the oil level is too high, please remove oil drainage bolt by wrench (The position of oil drainage bolt is showing as picture 1). On the left side of engine bottom.

-Please outlet some oil, then lock up oil bolt once again.

Too high or low the oil level may both get engine damaged.

Please make sure the oil level is correct.



⚠ 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.

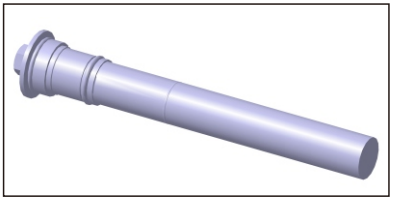
Keep the motorcycle upright when checking the oil level, in another word is vertical to the ground.

The only correct way for confirming oil level is through the immersing position on oil gauge.

⚠ 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.

Replacement for oil in engine



When each period of maintenance reached, please replace oil in engine.

Please replace oil when engine is hot, in this way, the oil could be totally drained.

The way for replacing oil:

Keep motorcycle upright by parking rack or main stand.

Turn the oil gauge anti-clockwise to remove it.

Lay a oil tray under oil drainage bolt, remove the bolt by tool, then drain off the oil.

Lock up the oil drainage bolt before filling up with new oil. (Fastening torque is: 30N.m).

Fill crankcase up with oil of given specification.

Oil capacity:

-Fill up with fresh oil from filling port, the capacity shall be 3000mL (If it needn't replace secondary oil filter, it is 2800ml, when breaking down engine for overall maintenance, the capacity shall be 3200mL).

-When oil filled up, check oil level and make sure there is not any oil leakage.

⚠ 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 re-assembled.

•Add new engine oil from the oil filling port,The capacity for oil filling-up is 3000mL (In case the secondary oil filter needn't be replaced, the capacity for filling-up is 2800mL, in case break up the crankcase for a total maintenance, the capacity shall be 3200mL)

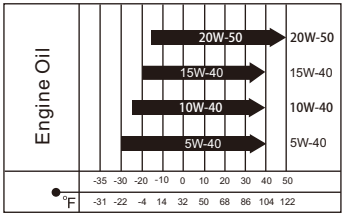
•Inject oil according to P93 Check the oil level before and after operation.

⚠ Caution

Replace the oil when engine is warm.

Specification of oil: Oil above SL 10W/40 or above Capacity for oil filling-up: 3.0L.

Dispose the replaced old oil and 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 of oil filter

•When each Maintenance period was reached, please replace the oil element for engine.

•Replace the oil element when the oil in engine was drained off.

Get main stand holding the motorcycle.

•Drain off the oil.

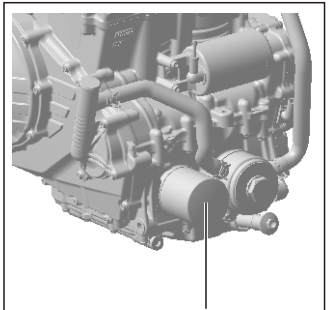
•Remove oil filter by special tools. (Tool: Cap-shaped wrench for oil filter).

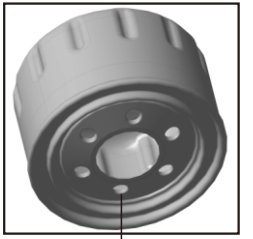
•Confirm the fastening torque for tube joint of secondary oil filter is: 28N.m, coat threaded part for new secondary oil filter and o-ring with fresh oil.

•Assemble secondary oil filter and fasten it to given torque: 11N.m.

•Assemble oil drainage bolt and copper washer.

•Fill up with oil of given specification.





⚠ 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 VOGE 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.

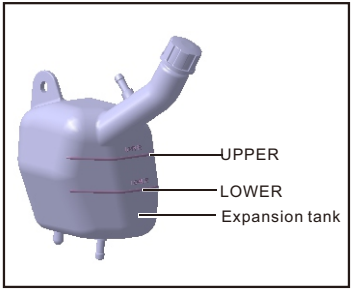
•Keep the motorcycle upright.

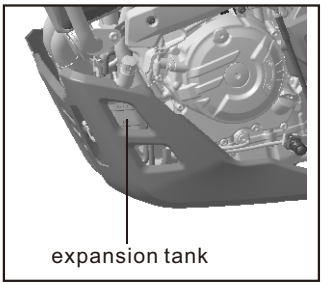
•Check the coolant level through expansion tank, whose level shall be between the scale line LOWER and UPPER.

•In case the coolant level is under scale mark LOWER, 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 VOGE 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 VOGE dealer for maintenance.

The replacement for coolant

•The coolant drainage:

–Keep the motorcycle upright by standing rack.

–Lay a liquid tray under the engine.

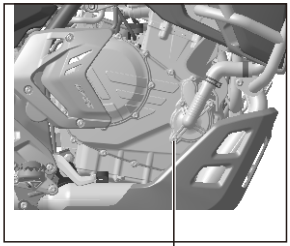
–Remove the water drainage bolt, because all the heat radiation system is connected, so all the coolant may flow out from this port.

–After the old coolant is completely drained, replace the flat gasket and install the drainage bolt back.

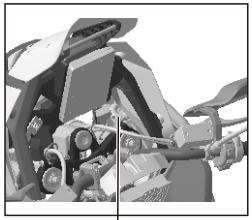
•The coolant filling-up:

–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



Drainage bolt



Radiator tank cover

Check the full filling-up of coolant from the tank cap of heat radiator, pinch the water tube when filling up to exhaust 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.

–Finally, remove the black rubber cover of the expansion tank and add coolant to the specified upper and lower markings.

⚠ 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 VOGE coolant is with ice point of -45°C of glycol so we suggest purchase or replace by Made in VOGE.

⚠ Caution

•To keep the coolant performance, replace each two years.

Coolant specification: ice point of -45°C of glycol

The filling-up volume: 1.75L

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.

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 or clutch oil cup may get air into brake system,which obviously reduce braking effect, please make periodic inspection on brake liquid level.

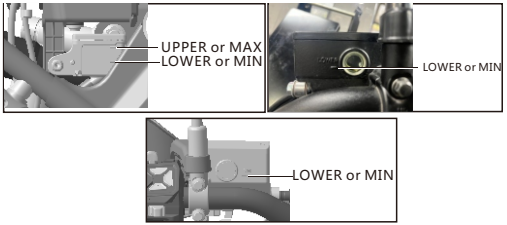
•Check and fill up the brake liquid shall conduct at the front and rear oil cup.

•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 VOGE 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.

Driving chain

The driving chain for this model is the one with oil seal, the place of chain's pin has a special oil seal for sealing lubricant, this chain is the one without opening, so in case replacement is needed, please contact VOGE dealer.

Before driving every time, please check and confirm problems below:

– Flexible pin of chain – Roller damaged –Rusty or corrosive plate of chain.

– Jamming in turning of chain links.

– Any problems above were found, please contact VOGE dealer.

Wear-out on chain may also lead to abrasion on sprocket wheel, please confirm problems below:

– Wear-out on sprocket wheel - Damage or crack on tooth of sprocket wheel.

– Any problems above were found, please contact VOGE dealer.

Maintenance for driving chain

Dirt or dust on chain is bad for its working life, please clean it up and lubricate periodically, because there is o-ring and lubricant at place of chain's pin, so incorrect washing and lubrication may damage rubber o-ring and lubricant, which decrease chain's working life.

•Wash driving chain by steel brush is not allowed.

•When washed up, wipe up water or neutral cleanser immediately, then dry the chain up in air for preparing to lubricate.

•The chain with oil seal needs the oil for it only, evenly coat the inner and outer plate of chain with oil, when finished, wipe up the surplus oil.

•Some lubricant for chain have solvent or additive may damage seal ring of chain, so please adopt the one for this kind of chain only.

⚠ Caution

When replacing driving chain, please check the abrasion on driving and driven sprocket wheel, replace sprocket wheel at same time in case it is necessary.

In case there is not any oil for chain with oil seal, please adopt gear oil of SAE90 as substitution.

⚠ Warning

Please wash up chain by water or neutral cleanser.

Adopt solvent with volatility such as painting thinner or gasoline is not allowed.

Adopt washer with high pressure for chain washing is not allowed.

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 athe 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.

⚠ 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	With passenger
Front wheel	220KPa	220KPa
Rear wheel	250KPa	250KPa

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.

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.
•The tire replacement need be done by VOGE dealer, they are skillful and with necessary tools or machine.

Fuse chip

This model equipped one main fuse chip, 8 branch fuse chips and 4 of spare ones (As right picture shows).

-Power supply fuse chip for ABS motor (25A): For power supply of ABS motor.

-Fuse chip of power supply for solenoid valve (15A); For power supply of solenoid valve of ABS.

-Fuse chip of power supply for motorcycle ignition (15A): For power supply of control USB, driving recorder, meter, starting relay, BCM, and EFI system.

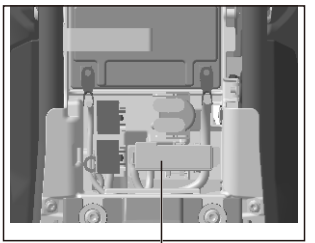
-Fuse chip for main relay of EFI (15A): For power supply of control fan of ECU, ignition coil and EFI.

-Fuse chip of fuel pump: relay (10A); For power supply of fuel pump.

-Fuse chip of fan (15A): For power supply of heat radiation fan of engine.

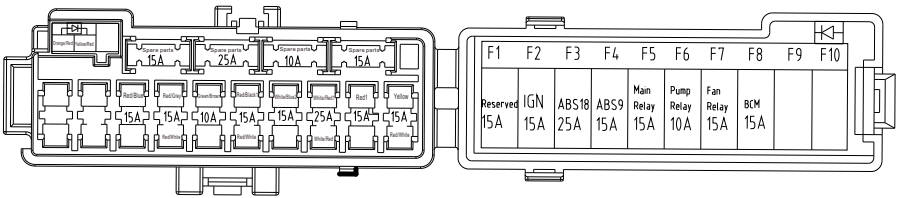
-Fuse chip of BCM (15A): For power supply of BCM and lighting.

-Main fuse chip (40A): For all power supply except starting motor.



Main fuse

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 VOGE 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.

Relay

This model has 5 relays (As picture on the right shows).

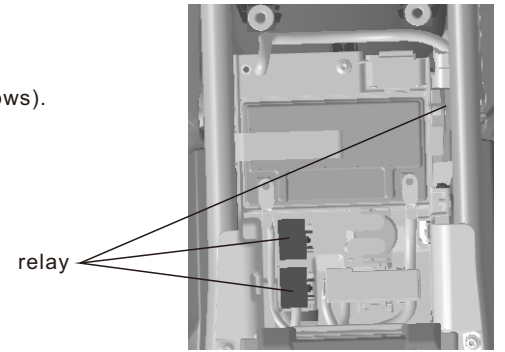
-Main relay

-Oil pump relay

-Cooling fan relay

-Starting auxiliary relay

-Out-sourced loading relay



Brake pad

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.

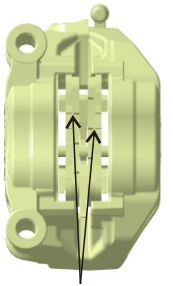
Replacement for brake pad

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

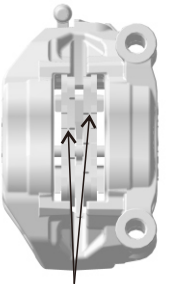
No matter the front or rear brake pads, replace them in pairs as a set, in case only replace one piece of them, it may make imbalance brake even accident.

After the brake pads removed, don't operate the brake lever or pedal, 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.



Wear-out limit for front brake pad:



Wear-out limit for rear brake pad:

⚠ Danger

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

Replacement for lighting 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	12V 10Ah
Headlight (High/Low beam)	12V 25W/14W
Front position light	12V 2.7W
Rear position light	12V 0.6W
Rear brake light	12V 4W
Front turning signal light	12V 0.5W
Rear turning signal light	12V 0.5W
Rear registration plate light	12V 0.3W
Front position light	12V 8.5W
Fuse chip specification	40A, 25A, 15A, 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.

Maintenance plan

The table below shows you the inspection for each periodic maintenance, whose interval of time and mileage, set whom reached first as standard, and make the inspection as table below every time.

Periodic maintenance table									
Items		Interval	km×1000						
			1	7	13	19	25	31	37
Power transmission system	Lubricant		R	R	R	R	R	R	R
	Lubrication element		R	R	R	R	R	R	R
	Check lubricant level		I	I	I	I	I	I	I
	Check seal performance for fuel tube		I	I	I	I	I	I	I
	Check the fuel pump element		\	\	I	\	I	\	I
	Fuel filter		\	R	R	R	R	R	R
	Throttle valve body/Carburetor		\	\	\	C	\	\	C
	Check coolant level		I	I	I	I	I	I	I
	Coolant	2 years	\	\	\	\	\	\	R
	Check seal performance of air inlet system		I	I	I	I	I	I	I
	Valve clearance		\	\	\	I	\	\	I
	Spark plug clearance		\	I	I	R	I	I	R
	Air filter element		I	C	R	C	R	C	R
	Throttle operation system		A	A	A	A	A	A	R
	Clutch operation system		A	A	A	A	A	R	A
Lubrication system	Check lubrication and tightness for steering bearing		I	\	L	I	L	I	L
	Check lubrication for Fr. & Rr. Wheel and sprocket base bearing		\	L	L	L	L	L	L
	Check lubrication for tuning shaft of main and pillion steps		\	L	L	L	L	L	L
	Check lubrication for side stand shaft		\	L	L	L	L	L	L
	Check lubricant for brake and clutch lever shaft		\	L	L	L	L	L	L
	Check lubrication for bearing on rocker rack of rear shock absorber		\	L	L	L	L	L	L
	Check lubrication for bearing of rear fork shaft		\	L	L	L	L	L	L
	Check lubrication for driving chain		A	A	A	R	A	A	R
Others	Battery voltage		\	I	I	I	I	I	I
	Seal performance for brake oil tube		I	I	I	I	I	I	I
	Brake liquid	2 years	I	I	I	I	I	I	I
	Brake liquid level		I	I	I	I	I	I	I
	Fr.& Rr. Brake pads		I	I	I	R	I	I	R
	Fr.& Rr. Brake switch		I	I	I	I	I	I	I
	Check fuel evaporation system		I	I	I	I	I	I	I
	Check tightness of fastening pars on body		I	I	I	I	I	I	I
	Check the tightness between the engine and the frame		I	I	I	I	I	I	I
	Check leakage for Fr. & Rr. shock absorbers		I	I	I	I	I	I	I
	Aluminium alloy wheel/Spoke wheel		I	I	I	I	I	I	I
	Front shock absorber oil	2 years	I	I	I	R	I	I	R
Meaning of symbolsI : I : Inspection adjust if necessary CClean R: Replacement A Adjustment L Lubrication									

Routine inspection for crucial fastening parts				
Ref. No.	Position for crucial parts	Thread	Numbers	Torque (N.m)
1	Front wheel axle	M18	1	60
2	Locking bolt for front wheel axle	M8	4	18
3	Front brake caliper and shock absorber	M10	4	45
4	Rear fork shaft	M14	1	90
5	Engine and frame	M10	4	55
		M12	2	80
6	Rear suspension fastening (Rear shock absorber, bigger and smaller swinging rack, frame and rear fork)	M12	5	60
7	Rear wheel axle	M20	1	105
8	Nut for chain adjustor	M8	2	18
9	Front shock absorber and steering stem	M8	7	18

Please carefully and strictly make periodic maintenance according to requirement of this book.

- The maintenance in the table only the least user needs to do. In case your motorcycle is usually driving under bad conditions, the maintenance shall be more frequent than the table
- After a long driving in sandy weather or muddy road, the special maintenance is necessary.
- We suggest this kind of work shall be done by VOGE dealer.
- Correctly dispose the abandoned materials such as cleanser or waste oil, don't let them to be pollutions.
- The key for correct maintenance is the spare parts, in case you fail to confirm who made the parts, this kind of parts may lead to accident.
- We suggest this kind of work shall be done by VOGE dealer.

X. Maintenance for the motorcycle in long parking

Storage for motorcycle

•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 VOGE 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.

In case storage over 1 month, charge battery to full power, then cut off positive and negative terminal, to avoid excessive power consumption during storage period.

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.

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.

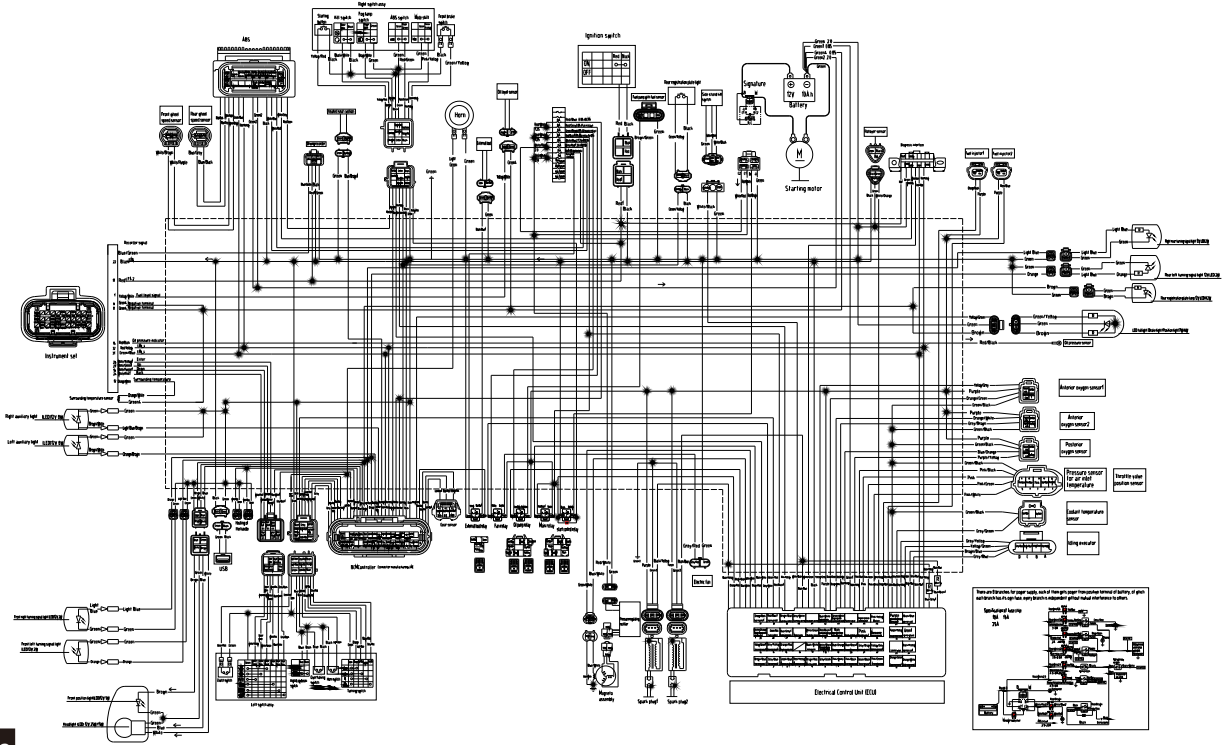
•Don't wash the motorcycle by high pressure water.

•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



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