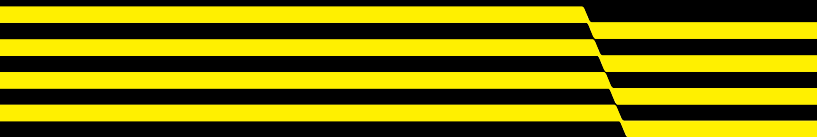


VOGE

Far & Beyond Quality

MOTORCYCLE OPERATION MANUAL
R250



Welcome to VOGÉ

We say thanks and congratulations for your best choice on VOGÉ.

You need to know well about your motorcycle as same as yourself to keep driving safety under various road conditions. Please carefully read this book before your first driving on new motorcycle, which includes important information such as driving method, equipment and suggestions you need to strictly follow, also has messages of repair, maintenance, use and prevention, if there is still something in doubt, please contact VOGÉ dealer who is at your service any time. Best wishes for your every happy moment on driving fun.

About this book

This User manual includes important information such as attention, warning and danger reminder. Please make sure you are able to visit this book in official way all the time during service time of this motorcycle when it is under your name, especially when you are lending or selling this book to others, please make sure its new owner also be able to visit this book all the time, which is significantly important. The illustrations in this book may have tiny difference to actual model in some details, but their basic principles are completely same. The VOGÉ always keeps her high safety and quality due to constant research and improvement on design, so the User manual may be different to actual models in some tiny details, under this case, the VOGÉ dealers are at your service all the time on these questions for a correct guidance.

The Loncin Motor reserves the final authority for interpretation.

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1.Issues need pay attention to

The warning signs appear several places in this book, when you saw them, please strictly follow procedure for safe driving and daily maintenance.

 Danger	This sign means potential danger which lead to bad injury even death.
 Warning	This sign means probable damage to motorcycle.
 Caution	This sign means more effective and easy points for driving.

 Danger
This product suits driver with corresponding certificate for correct and cautious driving. Please pay attention to issues below: •Refit at will on this model is strictly forbidden; •Please strictly follow local laws and regulations; •Any refits on device or electrical parts of this model are all bad for noise, emission and other performance of this model.

With keeping improvement on this model, the actual model in your hand may not be the complete same to that in this book, please set the actual model as standard without our other related notice.

2.Safe driving

Information for loading, accessories and refit

The parts, accessories and other products authorized by VOGE dealer could be adopted, and there would be specialized service men to teach you their ways for assembly and using.

Please always adopt parts from VOGE directly and the ones permitted by us, if they are not made by VOGE or incorrect loading and accessory assembling are all bad for vehicle performance even breaking laws, please be responsible for safety on yourself and others.



Caution

All parts we equipped on this model were already passed test for safety, practicality and matching performance, and we are responsible on these parts, otherwise, we take no responsibility.

Any parts you planned to be replaced, please strictly follow local laws and regulations.



Danger

Incorrect loading, refit, accessories and maintenance are all the hidden risk for safe driving; Before driving, please confirm the vehicle is without overloading and strictly follow these descriptions.

Refit at will on parts such as controller kit may lead to accident and damage on motorcycle.

The change on motorcycle weight is a significant influence on power output performance, please strictly follow our requirement on loading and numbers for passengers.

Inspection before driving

If there is not inspection before driving, it is more likely lead to accident or damage. Please pay attention to issues below:

Steering kit

- Handle bar freely turn without jamming.
- No run-out and flexibility on steering stem.

Throttle

- Correct throttle cable gap
- Smooth throttle operation without jamming.

Brake kit

- Operation on brake lever and pedal are normal.
- Oil level in brake oil cup is correct.
- No residual water or greasy dirt on brake plate and pads.

Shock absorber

- Press down it and return smoothly and freely.
- If there is oil leakage on front and rear shock absorber.
- There are not any sand, mud, ice and other impurities on tube surface of front shock absorber.

Transmission chain

- No wear-out or damage
- Tightness is correct.

Tire

- Correct air pressure in tire.
- Correct depth for tire tread without excessive wear-out.
- No crack, damage and protrusion on tire surface.

Oil in engine

- Oil level in engine is correct

Cooling kit

- Coolant level is correct
- No coolant leakage

Lighting

- Headlight/Front position light, taillight/Brake light, turning signal light, rear registration plate light and background light of meter are all normally working.

Indicator lights

- High beam indicator light on meter, neutral indicator light, turning signal light, ABS and TCS indicator light are normally working. The oil pressure alarm light, engine malfunction indicator, coolant temperature alarm and fuel level indicator are not getting on or blinking when engine started.

Horn

- Performance normal

Engine kill switch

- Performance normal

Side stand

- Could be normally picked up and laid down
- Performance for interlocking to ignition switch is normal

Back-view mirror

- Sitting on motorcycle, keep it upright, the object to motorcycle tail of 10m behind while in width range of 4m could be clearly seen from the mirror.

Issues need pay attention to before driving

The driver and passengers should sit at front part of seat without moving left and right too much, which means the gravity center shall be in the front of seat. Animal passenger on the motorcycle is not allowed.

Make sure there is not any loosen cloth, skirt or other binding materials could get into turning wheel.

Overloading or unevenly distributed loading is bad for steady driving.

Suspending weight on handle bar is bad for turning even driving safety.

Fairing cover, windshield glass, backrest and other parts with large size are bad for steady driving and operation, which not only increased weight, but also decrease power performance due to bigger areas. Because parts above lack of test for design, so their assembly are bad for driving safety.

The loading on rear luggage rack shall not be over 5kg, otherwise it may be bad for steady driving and safety, also bad for strength of luggage rack.

Driving on road

Before driving, please wear helmet, gloves, driving boots and other protective clothing and pants, which are necessary for short journey.

If you drive fast, factors below may be bad for your operation.

- Setup of spring kit
- Uneven distribution of loading
- Loosen clothing
- Too low the tire pressure
- Poor tire tread condition

Driving after drunk or took drugs is strictly forbidden.

Caution

This model equipped side stand/ignition interlocking switch, if engine is in gears position out of neutral, when you laid down side stand, the engine goes off immediately.

Warning

The starting must be at gear 1st, otherwise the engine may damage.

Danger

Before motorcycle starting, please make sure the side stand is at upper limit, otherwise during driving, it may touch ground and lead to accident.

Braking and parking

When front brake is working, your body inclines forward, so there are much more weight moving to front wheel in a sudden second, under this case, adopt front brake is more reliable, so when you using brake kit, the front brake is more powerful than rear one, which is easier to get vehicle stopped.

When driving on a downhill road for a long distance, please use front, rear brake and low gear position of engine in a correct way, otherwise the overheat of brake kit may get it work failure even accident.

When driving in rainy days or water wading, the performance of brake plate may get lower due to touch water, please pay attention to this influence on driving safety.

The wet condition or dirt may get braking performance lower, which is an obvious risk of accident.

Please get braking kit dry and clean, if it is necessary, please totally clean it up; Do the braking in advance until it completely reached full performance once again.

The wet brake plate and pads or with dirt on them may get braking worse. Under cases below, please take delay or weak braking into consideration: When you are driving in rainy days, water wading, after washing, road with salt, with residual grease or when motorcycle just repaired.

 Warning

Parking on soft ground is not allowed to prevent motorcycle rolling over and damage on it.

If the motorcycle is parking on gentle slope, please get engine into gear position and let head part face to uphill side to prevent side stand turning and get motorcycle roll over.

Parking on combustible materials such as dry grass is not allowed, the working temperature of three-way catalyst is high, which easily get combustible materials catching fire.

3.Main technological parameters

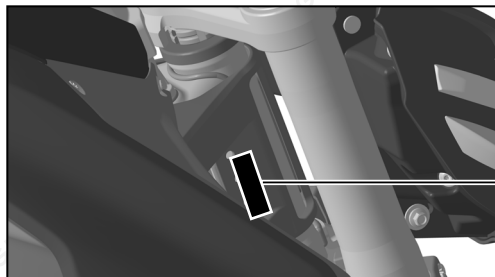
Parameters of motorcycle	
L×W×H	2020mm×795mm×1100mm
Wheelbase	1375mm
Seat height	790mm
Ground clearance	150mm
Curb weight	160kg
Max. loading	180kg
Max. total weight	340kg
Front wheel loading	120kg
Rear wheel loading	220kg
Max. speed	129km/h
Gradeability	≥40°
Braking deceleration	GB20073
Fuel consumption	3.0L/100km
Fuel tank capacity	15L
Coolant capacity	1060ml
Chain specification	Type 520 with 112 links
Suspension/Braking kit	
Front shock absorber	Upside down/Tube ϕ 35mm free play 115mm
Rear shock absorber	Central shock absorber/Free play 40mm
Front wheel rim specification	2.75×17
Rear wheel rim specification	4.0×17
Front tire specification	110/70R17 M/C 54H (optional C54W)
Rear tire specification	150/60R17 M/C 66H (optional C66W)
Front braking type	Single plate, dual piston, floating caliper/Plate diameter 300mm
Rear braking type	Single plate, single piston, floating caliper/Plate diameter 220mm
ABS	Anti locking-up with dual passages

Engine kit	
Engine type	Single cylinder, 4 strokes, oil cooling
Cylinder bore x Stroke	72mm×61mm
Displacement	248.4ml
Compression ratio	10.8:1
Air intake gap	(0.08~0.12)mm
Air exhaust gap	(0.13~0.17)mm
Spark plug gap	0.8mm-0.9mm
Spark plug specification	LMAR8J-9E
Max. power output/Rotation	21.5kW/9750r/min
Max. torque/Rotation	23N·m/7500r/min
Idling rotation	(1500±150)r/min
Gear box type	International 6 gears
Clutch type	Wet and multiple layers
Oil capacity	1.5L
Fuel supply type	EFI
Transmission kit	
Primary transmission ratio	2.808
End transmission ratio	2.929
1 st	3.071
2 nd	2.167
3 rd	1.619
4 th	1.292
5 th	1.111
6 th	0.964

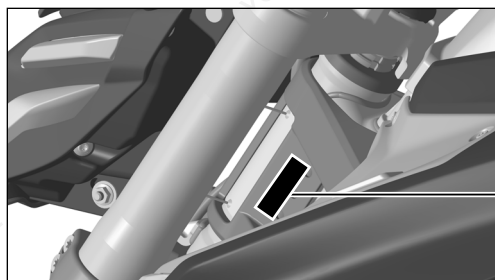
4.Motorcycle structure

Motorcycle identification

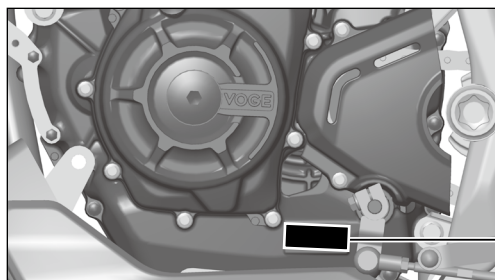
Vehicle Identification Number(VIN), Nameplate and Engine number



Vehicle
Identification
Number

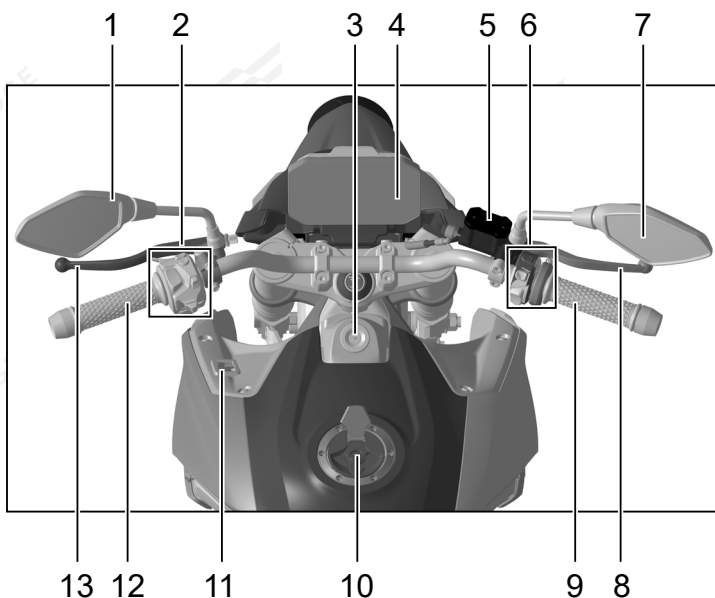


Nameplate



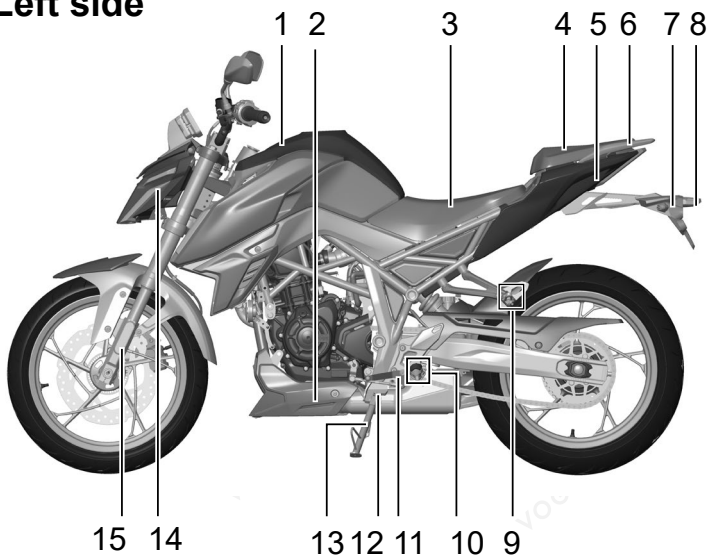
Engine
Number

Head part



1. Left back-view mirror/Left front turning signal
2. Left switch assembly
3. Ignition switch
4. Meter
5. Front brake oil cup
6. Right switch assembly and accelerator base
7. Right back-view mirror/Right turning signal
8. Front brake lever
9. Accelerator
10. Fuel tank cap
11. USB power supply joint
12. Left grip
13. Clutch lever

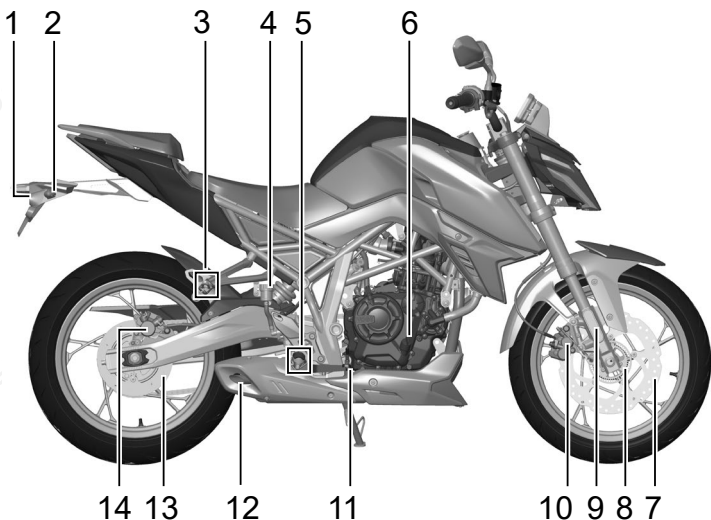
Left side



1. Fuel tank
2. Engine oil drainage bolt
3. Driver seat
4. Passenger seat
5. Taillight
6. Left armrest
7. Left rear turning signal
8. Rear registration plate light

9. Left pillion step body
10. Left main footrest
11. Gearshift pedal
12. Side stand kill switch
13. Side stand
14. Headlight
15. Left reflector

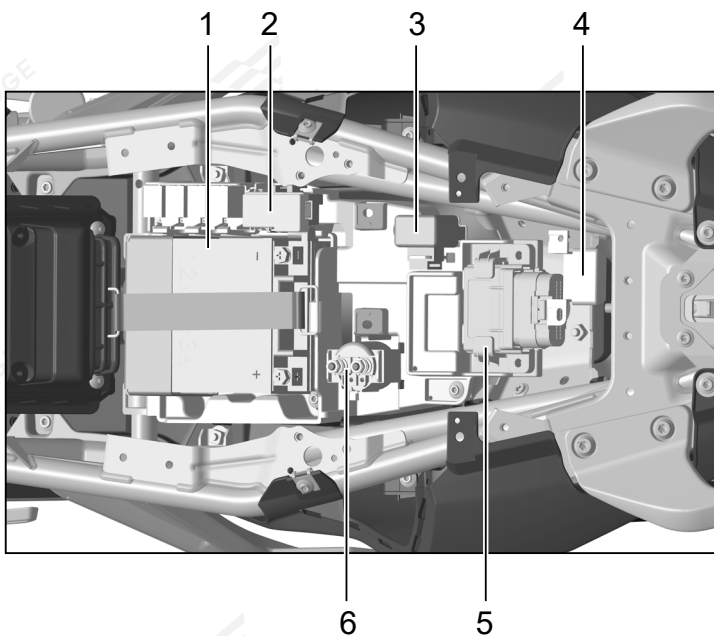
Right side



- 1.Rear reflector
- 2.Rear right turning signal
- 3.Right pillion step
- 4.Rear brake oil cup
- 5.Right main footrest
- 6.Oil filling-up port
- 7.Front brake plate
- 8.ABS gear ring

- 9.Right reflector
- 10.Front disc brake lower pump
- 11.Rear brake pedal
- 12.Muffler
- 13.Rear brake plate
- 14.Rear disc brake lower pump

Lower side of seat

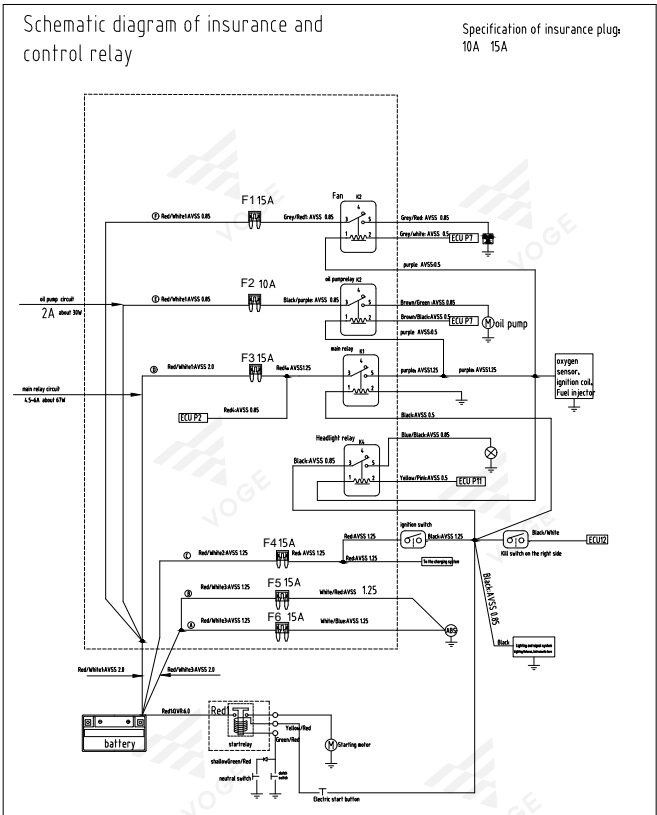


- 1.Battery
- 2.Fuse box
- 3.Flasher (Inside)

- 4.Diagnosis joint
- 5.ECU
- 6.Starting relay

Simplified diagram for fuse and controlling relay

There are 5 branches for motorcycle power supply, every gets power from positive terminal of battery and with 1 fuse each, everyone is independent without mutual interference.

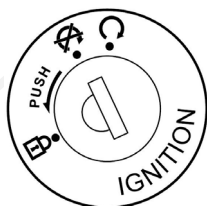


5.Operations

Ignition switch

This model equipped two pieces of key, please well keep one of them for spare use.

The ignition switch, steering lock, seat lock and fuel tank lock are sharing one key.



There are 3 positions of ignition switch:

- “” this position means the motorcycle was power on, which could be started any time, at this position, the key could not be removed.

- “”this position means the main circuit on motorcycle was cut off, the motorcycle could not be started, at this position, the key could be removed.

- “”this position means handle bar was locked up by position lock, turn the handle bar to left limit first, press down the key at position“”along center direction of lock, then turn it anti-clockwise to position“”The main circuit of motorcycle was cut off, which could not be started, at this position, the key could be removed. Steering was locked up, the handle bar could not be turned.

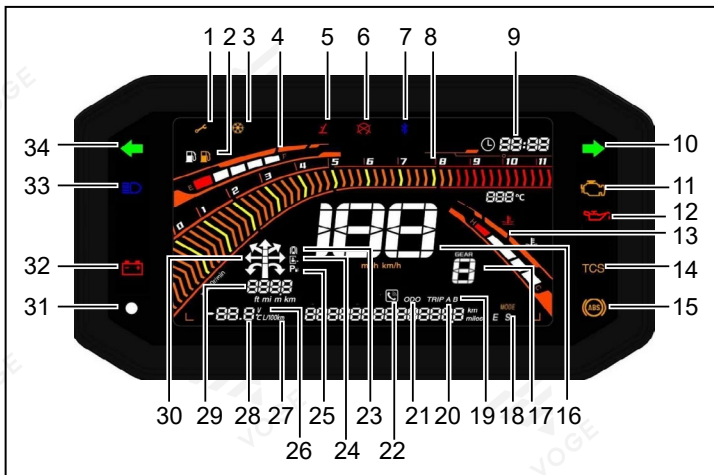
Caution

This motorcycle equipped side stand only, for ensuring its parking stability, when locking up handle bar, please turn it to left limit instead of right limit.

 Danger

Please don't turn the ignition lock to position "⊗" during driving, otherwise it may bring motorcycle out of control.

Meters and indicator lights



- | | |
|--|--|
| 1.Maintenance reminder | light |
| 2.Fuel low level indicator | 16.Speed |
| 3.Cold surrounding indicator | 17.Gear position indicator |
| 4.Fuel level indicator | 18.Driving mode display |
| 5.Side stand condition indicator | 19.Sub-mileage B |
| 6.Kill switch condition indicator | 20.Sub-mileage A |
| 7.Bluetooth connection display | 21.Total mileage |
| 8.Engine rotation speed | 22.Incoming call reminder |
| 9.Clock | 23.Tunnel reminder |
| 10.Right turning signal indicator | 24.Toll station reminder |
| 11.Engine malfunction alarm indicator | 25.Gas station reminder |
| 12.Oil pressure alarm | 26.Battery voltage |
| 13.Coolant thermometer and alarm light | 27.Fuel consumption |
| 14.TCS indicator light | 28.Surrounding temperature |
| 15.ABS malfunction indicator | 29.Navigation distance |
| | 30.Basic navigation |
| | 31.Surrounding light sensor (Position) |
| | 32.Neutral indicator light |
| | 33.High beam indicator light |
| | 34.Left turning signal light |

LED screen display



Meter initial state: When powered on, the screen show you the information mode of last time.

Meter background light: The meter adjust background lighting according to light strength.

Bluetooth connection: When mobile phone connected to meter through Bluetooth, the meter can remind you the incoming call (Show incoming number) and basic navigation.

Rotation: Rotation speed of engine. (r/min—rotation numbers/minutes---rotation numbers of crankshaft in current minute)
Driving gear position: The current gear position of engine (Not neutral gear).

Speed: Driving speed. (km/h—kilometers/hour, or mph---Miles per hour)

Water temperature: The current temperature of coolant. (Unit:°C, the displaying range is within -48°C~143°C, when the temperature is $\geq 112^{\circ}\text{C}$, the alarm light gets on, The fifth grid of the temperature indicator bar is displayed in red. When it is out of range -48°C~143°C, it shows “—”).

Fuel level: Show the residual fuel in tank at the

moment. When fuel in tank is about running out, the fuel level alarm light gets amber, which reminds you a timely fuel filling-up is necessary.

Caution

The fuel level during driving is easy to wave, when residual fuel is not much, which may lead to the indicator light amber or white sometimes, this is normal and don't worry about it. If the fuel level light turned to be amber during driving, it means the residual fuel in tank is about 2.96L.

Danger

Please cautiously operate meter during driving, because it may reduce your control on running motorcycle.

When turned the key of ignition switch to position “

- The display screen lights on and starts self-inspection, then it shows you the current condition of motorcycle.
- The engine alarm light “

Warning

Please don't wash meter directly by high pressure water. Please don't wipe up meter by organic solvent such as gasoline or alcohol, which may lead to meter partly color fading or cracking.

Left turning signal light“”

When pushing turning switch on left switch assembly to left side“”the indicator light“”gets on and blinking.

Right turning signal light“”

When pushing turning switch on left switch assembly to right side“”the indicator light“”gets on and blinking.

Neutral indicator light “”

When engine is in neutral gear, the indicator light “”gets on.

Engine malfunction alarm light“”

When there is malfunction in management kit of engine, the alarm light “” gets on. When turned ignition key to “”, the indicator light “”gets on and starts self-inspection; When engine started, the indicator light “” goes off.

Warning

If when engine started by indicator light “” is still on or blinking, at this moment, keep driving may lead to motorcycle ignition failure or fuel supply kit stop working.

If indicator light “” is on or blinking when motorcycle is in driving, please stop driving immediately and contact VOGUE dealer as soon as you could.

ABS malfunction alarm light “ When there is malfunction in ABS system or it doesn't work, the indicator light “ When turned key of ignition switch to position “ | | |---| |  Danger | | When ABS is working, if the indicator light “  |

TCS indicator light “TCS”

When motorcycle was power on, its indicator light “TCS” is slowly blinking, when motorcycle is in driving, the indicator light goes off.

Operate button on switch assembly could get TCS off through meter (P35)

When it turned off, the indicator light “TCS” of TCS is constantly on, every time when motorcycle got power on, the default condition for TCS is under working.

When TCS is on, if rear tire gets skidding during driving, the TCS may actively reduce engine torque to get tire skidding less.

When TCS works, its indicator light “TCS” is frequently blinking.

Warning
When TCS is on, if its indicator light “TCS” is constantly on during driving, which means there is malfunction in TCS, under this case, please contact VOGUE dealer as soon as you could.

High beam indicator light “”

When engine is working, push headlight switch on left switch assembly forward, the indicator light “” gets on.

When engine is working, press down overtaking switch on left switch assembly, the indicator light “” gets on until you release the switch.

Oil pressure indicator light “”

When oil pressure is lower than normal range, the indicator light “” gets on.

When turned key of ignition switch to position “”, the indicator light “” gets on; When engine started, the indicator light “” goes off.

Caution

The indicator light “” for oil pressure shows you abnormal oil pressure instead of oil level, so please check and confirm normal oil level periodically.

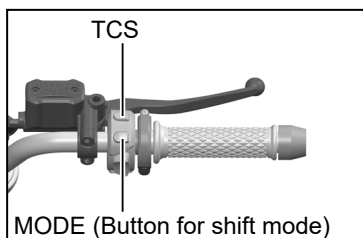
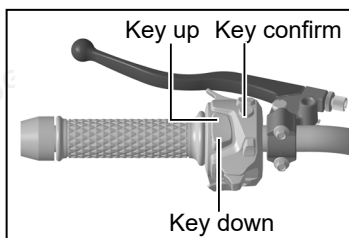
The only way for confirming oil level is through checking oil gauge.

Warning

When you found oil pressure indicator light “” is constantly on when engine started or during driving, if keep driving, the engine may damage due to low oil pressure or poor lubrication. Under this case, please stop driving and engine, then check oil level.

Meter operation

Button introduction



Meter interface:

Short press key down to shift between total and sub-mileage, when it shows you sub-mileage, long press key down to clear all values to zero for sub-mileage. When it shows you total mileage, long press key down to shift between Metric/Imperial.

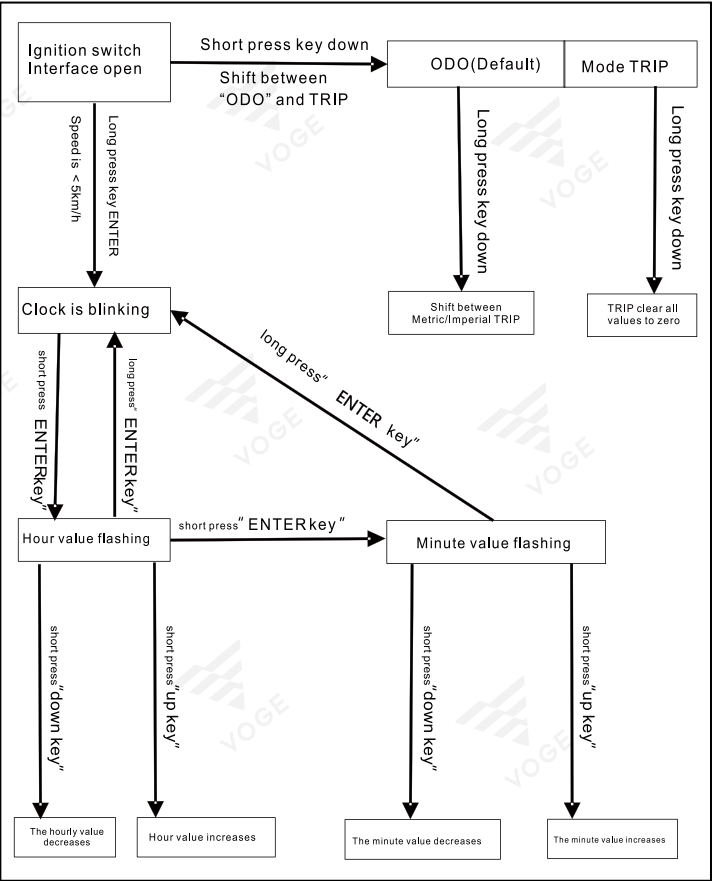


Long press key confirm, the display for clock is blinking as a whole, at this moment, short press key confirm, the hour place on clock is blinking, at this moment, make plus and minus for hour's place through pressing key up and down. Then short press key confirm, the minute's place is blinking, also press key up and down to make plus and minus on minute's place. When setup finished, long press key confirm, it gets back to whole interface blinking, then long press key confirm once again, it gets back to normal display interface.

Caution

Short press is 0.5 second while long pressing is 2 seconds.

Operation guide for meter menu



APP installation for VOGE Global

Installation and use

Download of VOGE Global

•Download of mobile Apple

Scan the QR code by camera on Apple mobile, when it identified, click the link then it jump to store interface for download;

Go to App Store of Apple mobile to search “VOGE Global” and download.

•Download of mobile Android

Open “Google” of mobile Android, then click button on right side of camera on Search bar, scan by camera, when it identified, it jump to store for download.

Scan QR code above by any scanner tool, when it identified, it jump to store for download;

Go to Play Store of mobile Android for searching and download directly.



Obtain Mapbox token

Open browser and search for mapbox. or click Mapbox

Input account information (Picture 1)

Input payment information (Picture 2)

When account registered, find out and click "Create a token", then apply for a certificate (Picture 3)

1

2

3

Input name of certificate and choose the scope of application, then click "Create token" (Picture 4)

Input code for confirmation and achieve certificate creation (Picture 5)

The created token could be found at bottom of page, but it won't show you at your next login, so please carefully keep the token (Picture 6);

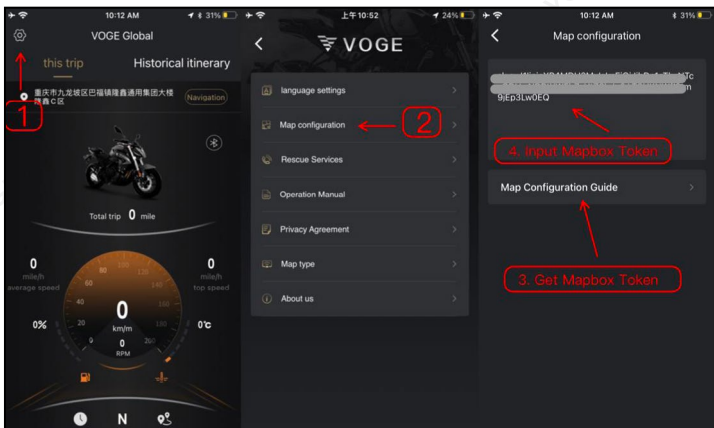
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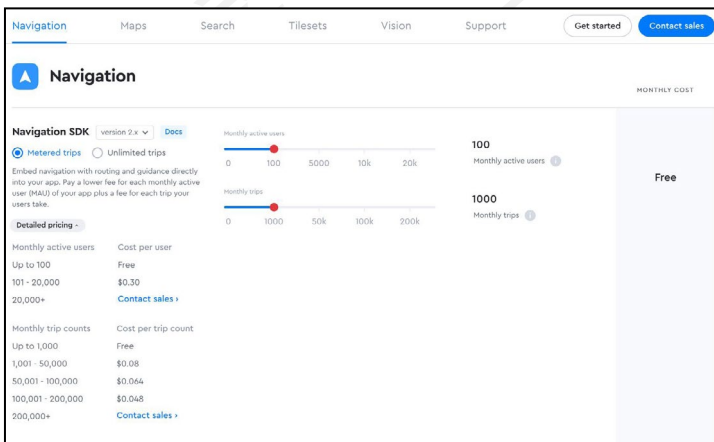
6

Map configuration of VOG Global

Open VOG Global, then open Setup->Map configuration->Map configuration guide->Fill blanks for Mapbox Token. (The user needs apply for Mapbox Token by himself then fill its blanks, otherwise the navigation doesn't work)

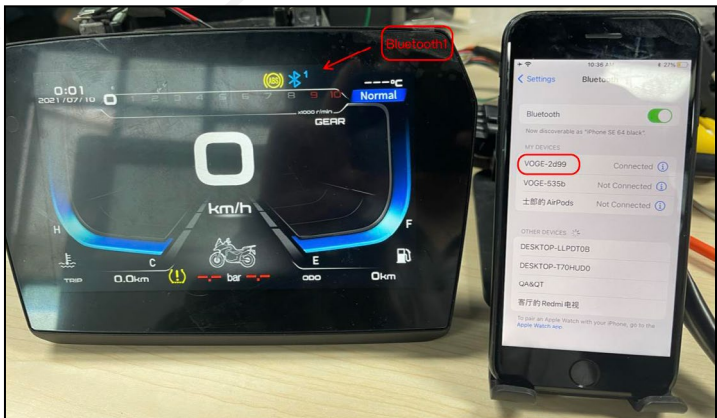
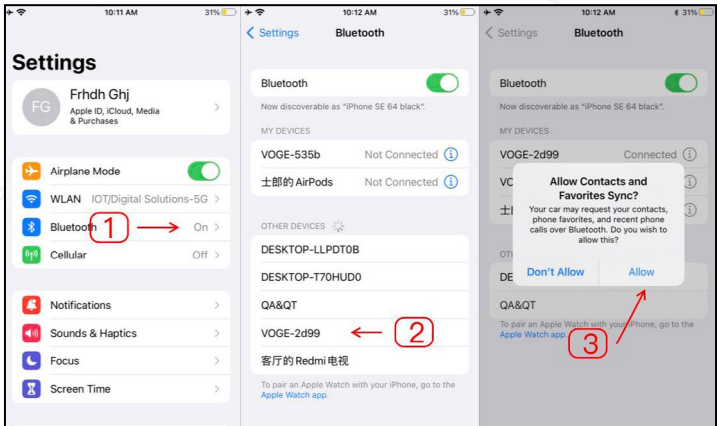


Price introduction for Mapbox



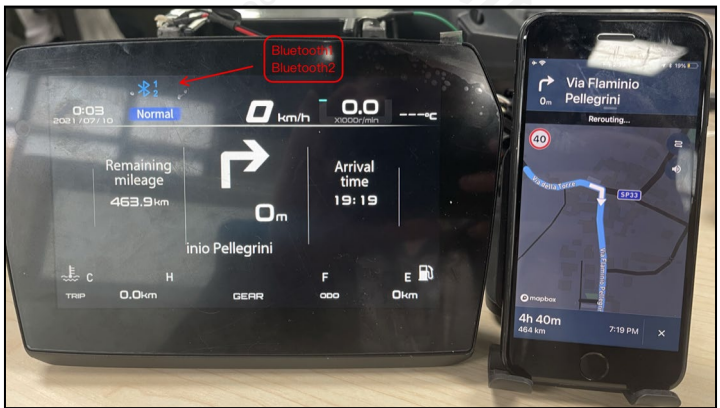
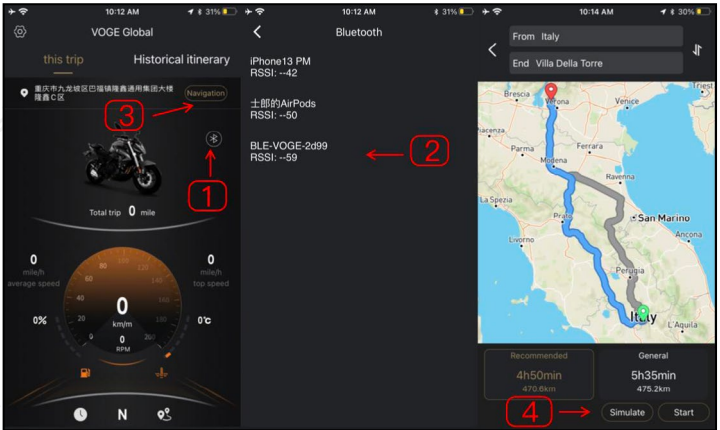
The use of basic Bluetooth navigation

Get motorcycle power on, Open Setup->Bluetooth, choose Bluetooth name with beginning of (VOGE-), then connect to the Phone book the one is allowed, when connected, the meter may show you icon of (Bluetooth 1);

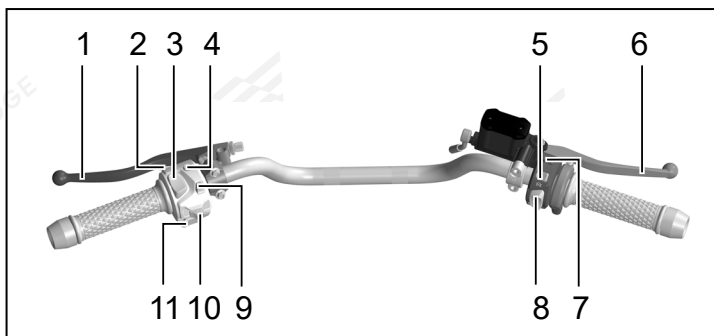


Click icon of Bluetooth then connect to Bluetooth with beginning of (BLE-VOGE-), when it connected, the icon of Bluetooth may get to yellow, the meter may show you (Bluetooth 2) icon, at this moment, click key down on switch assembly to shift to page of navigation of meter;

When using navigation of VOGE Global, the meter may show you information of navigation.



Switch assembly for handle bar



- | | |
|---|--|
| 1.Clutch lever | 7.TCS switch |
| 2.High & Low beam/
Overtaking switch | 8.Electrical starting/
Engine kill switch |
| 3.Key up & down on meter | 9.Emergency light switch |
| 4.Key confirmation of
ENTER | 10.Turning signal light
switch |
| 5.Mode shift button MODE | 11.Horn switch |
| 6.Front brake lever | |

High & Low beam/Overtaking switch

When engine was started, when push switch forward to “”, the high beam works, meanwhile its indicator light “” on meter also gets on.

When pull switch backwards to “”, the low beam works, meanwhile the high beam indicator light “” goes off.

When press button “” backwards, the high beam works, meanwhile its indicator light “” on meter also gets on, when released, it recovers to origin.

Horn button“”

When pressing down horn button “”, the horn rings.

Turning signal switch

When pushing turning switch on left switch assembly to left side “”, the front and rear turning signal on left side are both on and blinking, and their indicator light “” on meter also gets on and blinking.

When pushing turning switch on left switch assembly to right side “”, the front and rear turning signal on right side are both on and blinking, and their indicator light “” on meter also gets on and blinking.

When pressing down turning signal switch on left switch assembly inwards, the turning signal goes off, meanwhile its indicator light on meter is also off.

TCS switch

When long pressing TCS switch, it is on/off for TCS function, when starts ignition switch once again, the default of TCS is on.

Emergency light switch“”

When pressing down button “”, all turning signals and their indicator lights on meter are on and blinking at same moment.

Please use alarm light for warning other vehicles when emergency or accident was met.

Electrical start/Engine kill switch

When pressing Electrical start/Engine kill switch to position “”, the electrical starting function works.

When turn back Electrical start/Engine kill switch to position “”, the engine is under normal working.

When engine is under normal working, press Electrical start/Engine kill switch to position “”, the engine stops immediately.

Electrical start/Engine kill switch is the quickest and easiest way for stopping engine.

Front brake lever

Tightly hold this brake lever, the front wheel brakes, meanwhile the rear braking light gets on.

Mode shift button MODE

Short press button “MODE”, the driving modes are shifting between normal and sporty, the E (Normal mode) and S (Sporty mode) at right lower corner on meter page are also shifted.

Power supply joint for USB “”

The power supply joint for USB is at left front of fuel tank with output specification: A+C double joints, according to different agreement of mobile phone, the max. power for single joint is 18W (5V3A, 9V2A, 12V1.5A), the max. for double joints at same moment is 20W in all (5V4A).

The water proof rubber cap for USB power joint is with mark “”.

Pick up rubber cap then the USB power joint could be normally used, it starts working when voltage in batter reached 13.5V (When engine started), when voltage is lower than 12.8V, it stops working.

Warning

When this function is needed, please prepare the power charging wire yourself. When finished using, please get rubber cap covered in place to prevent water and dust getting into the power joint and make service life shorter.

When it is in rainy days, please don't make power charging by USB joint to avoid water getting into USB end to get power charging device damaged even short circuit.

ABS kit

Decelerate or brake under normal condition, release throttle first, tightly hold handle bar, then brake. When speed slower down, to avoid engine stopping, tightly hold clutch lever and get engine into low gear position.

Before getting into turning place, make braking and deceleration in advance. When passing the road turning, keep even speed as possible, if the model is without turning ABS, please slightly brake if it is necessary, sudden braking is not allowed.

When driving on road with ice or snow, or driving in road with water, please make deceleration in advance and cautiously drive.

Judge road condition in advance and avoid sudden braking as possible.

When emergency was met, release throttle as soon as possible, tightly hold handle bar and brake braking by full strength.



Danger

When decelerate under high speed, use front or rear brake only is easily leading to wheel locking-up, which make motorcycle side skidding and bring it out of control, please use front and rear brake in balancing way, make judge in advance according to braking distance, make deceleration and braking in a correct way.

 Caution

When making full brake on model with ABS, there would be obvious bouncing up on brake lever and pedal with frequency, which is normal and please don't worry, tightly hold handle bar.

Driving auxiliary kit only prevent side rolling in its limit, under extreme conditions, such as high gravity center of luggage and changing conditions on road, sharp slope and full braking when clutch without fully releasing, all conditions above may lead to motorcycle side rolling.

Controller kit for TCS (Traction Control System)

The function of TCS is integrated in ABS, which monitor speed difference between front and rear wheel through wheel speed sensor, when there is skidding on wheel, the TCS starts working, which sends control instruction of torque to EFI, then adjusts output torque of engine, brings skidding rate under best control range, then swiftly recovers ground grasping force of tire and ensures enough driving force and stability.

Caution

Some special operations of TCS under special road conditions:

If front wheel get apart from ground under high speed, the TCS may get engine torque lower until tire touched ground once again. We suggest if this condition was met, return throttle a little to get into stable driving as soon as possible.

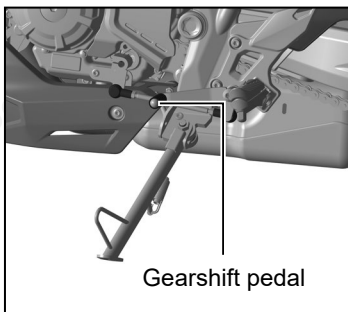
Full acceleration on smooth ground is not allowed. The torque of engine may lead to rear wheel skidding even unstable driving. This kind of situation could not be controlled by TCS.

When driving on soft ground (Sand or snow), the control from TCS may sharply decrease driving force on rear wheel and make driving force weak on rear wheel, under this case, we suggest turn TCS off.

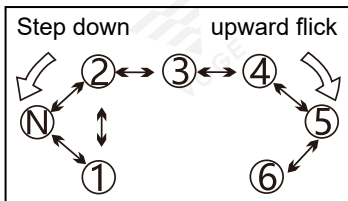
Except conditions above, for ensuring safe driving, please make sure TCS is on all the time.

On, off and shift for TCS please refer to P25.

Gearshift kit



This model equipped gearshift kit with 6 shifting positions, whose working way is shown as beloww



The driver needs to choose most suitable gear according to driving conditions, please don't drive in high speed by low gear.

To ensure smooth gearshift and impact on rear wheel, please cooperate to clutch, before shift to lower gear, please slow down motorcycle and speed up engine rotation, oppositely, before shift to higher gear, please speed up or slow down engine rotation.

Warning

Except under some extreme conditions, please don't control speed through semi-clutch way. Please don't let motorcycle slide by tightly holding clutch.

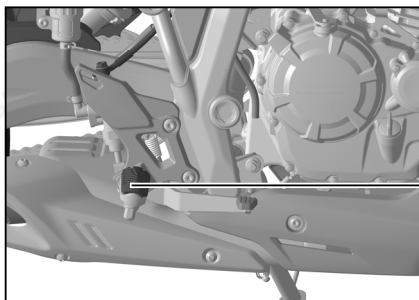
Side stand

This motorcycle is equipped side stand for parking.

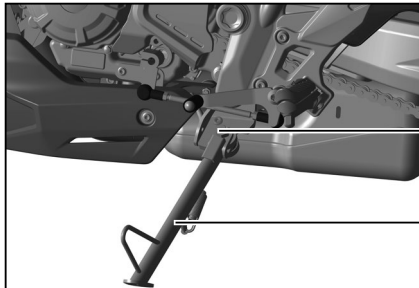
Kill switch of side stand is a design for safety, which is one part of engine starting circuit.

Rear brake pedal

Step down rear brake pedal, the rear wheel brakes, while the indicator light for rear brake gets on.



Rear brake pedal



Kill switch of side stand

Side stand

Warning

The design for side stand considers more of motorcycle itself weight. When motorcycle is parking, please don't rely on your body on the motorcycle, because the side stand may get bent due to overload more than its max. loading capacity.

 Caution

When side stand is working, the engine could be started only when it is in neutral gear; If the engine is in gear position (Not in neutral gear), the engine could not be started.

When side stand is completely picked up, tightly hold clutch, the engine could be started at any gear position; When it is not in neutral gear, lay down the side stand, the engine stops immediately.

Engine starting

The side stand is laid down.

Confirm the engine is in neutral gear, and its indicator light “N” on meter may get on.

When conditions above equipped, tightly hold clutch lever by left hand for safety, press electrical starting button “” by right hand, at this moment, it needn't turn accelerator.

When engine started, release starting button immediately.

When engine started, let it idly run to fully heat up.

The design for this model is with interlocking switch for ignition and starting circuit, the engine could be started as conditions below:

- The engine is in neutral gear, and ignition switch is in starting position “”, tightly hold clutch lever for safety, the press down electrical starting button.

- When engine is not in neutral gear, the ignition switch is at its working position “”, pick up side stand and tightly hold clutch lever, then press down electrical starting button.

Danger

The emission of motorcycle is with gas CO in it, which is one of poisonous gas without color and smell.

Don't let engine idly run for a long hour in places with poor ventilation or indoors without equipment of air ventilation to avoid getting poisoned.

Warning

The colder the surroundings, the more time for engine heating up is necessary, fully heat engine up could let engine have a better lubrication and reduce abrasion in engine. Please don't let engine idly run for a long time, because poor heat radiation may let internal parts of engine overheat engine damage them.

In cold condition, for an easy starting, press down starting button while suitably turn accelerator.

The lubrication of engine only works when engine is running. Please don't push motorcycle for a long distance when engine is without working.

Fuel filling-up

 This alarming light getting on means fuel filling-up is necessary.

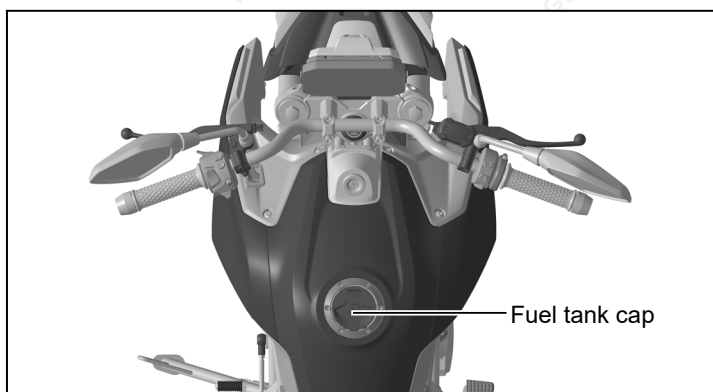
Caution: Insufficient residual fuel in tank may lead to engine starting failure or the abnormal power output, if keep ignition and driving under this kind of case, it may get fuel pump damaged and unable to be repaired.

Insert key of ignition switch into core of fuel tank cap, turn it clockwise to get it opened and lift up fuel tank cap.

When fuel filled up, get fuel tank cap back in place, then powerfully press it down to lock up fuel tank cap.

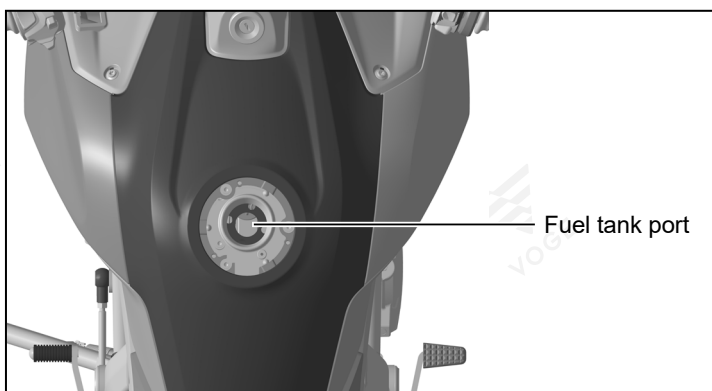
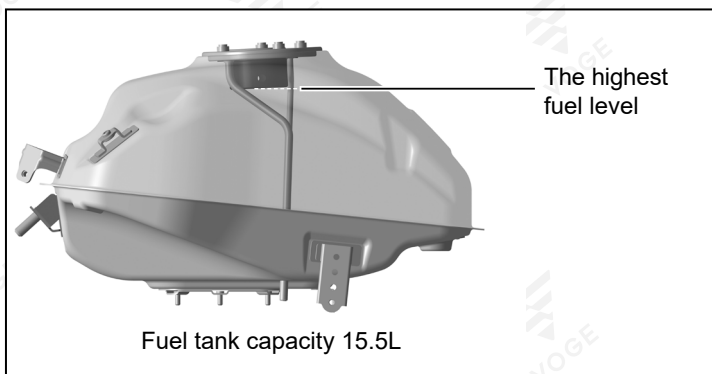
Please don't washer motorcycle by high pressure water to avoid water getting into fuel tank.

Please adopt gasoline of E5、92# or above it, also the gasoline should be with low lead even without lead in it.



The highest level of fuel:

When the motorcycle is parking by side stand, the level when it just touched fuel tank lock, at this moment, it is the highest fuel level.



! Danger

Please stop the engine when filling up fuel, please be far from smoke, fire, spark or heat sources.

Warning

The fuel is corrosive to painting surface, if there is fuel touching painting surface, please wipe it up immediately.

The fuel may expand when it is under hot condition, too full the filling-up may lead to too strong the internal pressure which makes fuel tank distorted or overflowed.

When filling up fuel, its level shall not be higher than the highest level, overflowed fuel may outflow the carbon canister even get fuel evaporation kit damaged, also let engine working bad or starting failure.

6. Malfunctions and troubleshooting

Insufficient oil pressure



This alarm light means too high the temperature of coolant.

When the engine overheated, continue the driving may damage the engine, so please follow the instructions below.

Stop driving and engine until the indicating light off. Check coolant and heat radiator when the motorcycle completely cool down.

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

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

The coolant is not enough

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

–Reduce the loading to decrease the engine heat.

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

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

Malfunction in engine management kit



This alarm light indicates there is malfunction in engine management kit.

When this alarm light is on, if keep driving, the engine ignition may fail, fuel supply may also stop.

Please stop engine, turn off ignition switch, then start engine once again, if the alarm light goes off, please keep driving; If the light keeps on, please contact service station nearby and make troubleshooting.

Engine starting failure

Please confirm if sign for ignition stop on meter is on, the clutch lever is tightly held or side stand is picked up.

Please confirm if the low level fuel indicator on meter is on.

Please check if abnormal indicator for battery voltage is on.

Engine difficult starting

If engine starting is under cold condition, please slightly turn accelerator when starting it.

Please check if the abnormal indicator for battery voltage on meter is on.

Too thick the oil, please consider if it is necessary to replace.

Weak engine output

Check if air filter element is clean.

Check if the fuel filter is blocked up.

Confirm if it is at high altitude place.

Incorrect inspection, repair and adjustment may damage your motorcycle instead of finding out malfunctions. The damage in this way could not be included in VOGÉ quality guarantee.

If you are not sure for the correct way for operation, please contact VOGÉ or its authorized dealer.

Troubleshooting

The content in this book for troubleshooting helps you find out normal malfunctions. But these judges are only basic ones, if troubleshooting fails, please send motorcycle to VOGÉ or its authorized dealer.

7.Grinding-in

New motorcycle grinding-in

The period of grinding-in is important for motorcycle working life, before driving, please carefully read this book (In the 1st 1000km driving, the correct way ensures fine motorcycle performance while making you fully enjoy the driving fun).

Engine grinding-in

Whether starting under hot or cold conditions, before starting, please let engine fully and idly run to let oil go to everywhere it needs be lubricated.

During the grinding-in period, in the first 500km, the rotation speed of our suggestion shall not be over 5000r/min, and in the second 500km, the rotation speed shall not be over 7000r/min.

During grinding-in period, the engine gear positions and rotation speed must be changed frequently without keeping working in one gear position or rotation speed for a long time.

During grinding-in period, if engine is running under low speed (Light loading), the wear-out of engine parts may accelerate and lead to poor matching-up, so please don't drive it under light loading and even speed for long time.

During grinding-in, except emergency, otherwise sudden acceleration and braking shall be avoided.

Please don't let motorcycle run in dragging way, please change to low gear position before deceleration, please always keep engine in its suitable working rotations.

Long journey shall be avoided during grinding-in period, please let engine have enough time for rest.

Tire grinding-in

The surface for new tire is smooth, if drive in high speed or road turning when it is smooth, it would be dangerous. In order to let tire reach its maximum ground grasp, its grinding-in period is necessary.

In its initial 200km, the grinding-in could be done by driving across road turning under low speed until all angle of tire tread finished their grinding-in.

Brake kit grinding-in

The grinding-in for new brake pads is necessary. The brake pads on new vehicle or when the pads just replaced in place, the decrease of braking performance could be compensated through suitably increasing operation force of braking bar (Braking lever and pedal).

Danger
In order to let tire get the best grinding-in, please don't make sudden acceleration, turning or braking in the initial 200km of new tire.

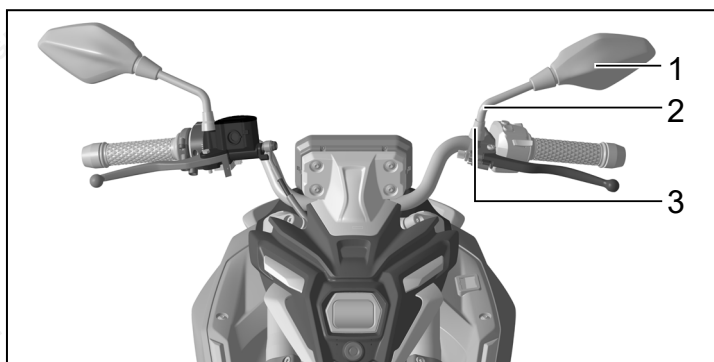
8.Adjustment

Back-view mirror adjustment

Adjust back-view mirror to correct position according to you stature and driving habit.

The adjusting device 1 for back-view mirror could be adjusted in universal way within a small range.

The mirror bar 2 could be adjusted by hand directly, the adjusting direction is turning around central line of base 3 within a fixed range.



Mounting torque for back-view mirror: 9N·m

Warning

Sit on motorcycle and keep it upright, the object could be clearly seen from 10m to motorcycle tail with range width of 4m.

Danger

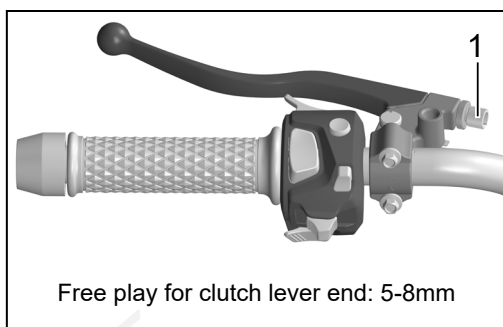
Adjust back-view mirror during driving may reduce your control on motorcycle, please don't make this operation during driving.

Clutch lever adjustment

When engine is starting, braking or gearshift, tightly hold clutch lever could make friction plate of clutch separate and cut off power transmission of engine.

The free play of lever end shall be within 5-8mm, if it is incorrect, please adjust as below.

Loosen and turn adjustor 1, keep free play is within 5-8mm.



Warning

Too wide the free play is easy to lead abrasion and malfunction in clutch and gearshift kit.

Caution

When adjustment for gap of throttle cable finished, please make sure the throttle grip could return back freely without idling rise.

When adjustment for gap of throttle cable finished, turn handle bar to left and right limit, the idling shall not rise.

Throttle lever adjustment

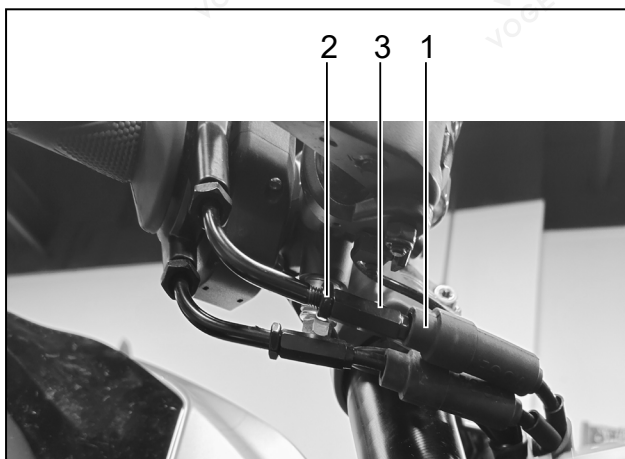
The accelerator is controlling engine rotation speed.

Turn to your own side is acceleration while to opposite side is deceleration.

Adjust gap of throttle cable.

- Move away rubber jacket 1
- Loosen locking nut 2
- Turn adjustor 3, adjust gap of throttle cable to 2-6mm.

- Lock up nut 2.
- Re-assemble rubber jacket 1 back in its place.



Free play of throttle cable: 2-6mm

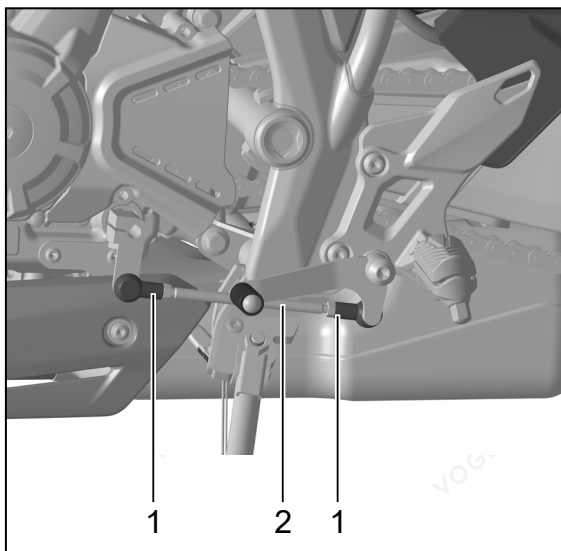
Gearshift pedal adjustment

The height of gearshift pedal is adjustable to suit your driving habit.

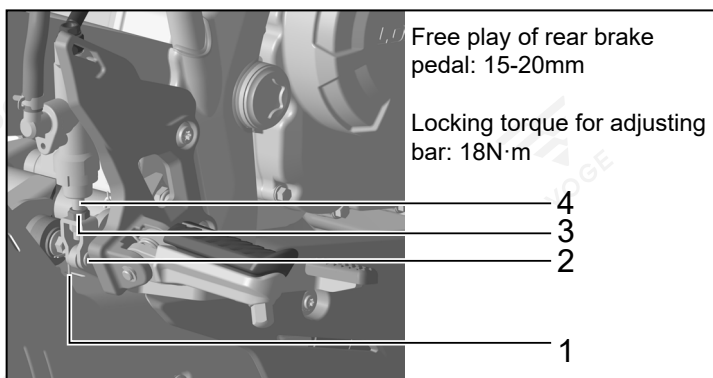
- Loosen 2 pieces of hex. nut 1 which locking-up gearshift connective bar.

- The turn gearshift bar 2 to let gearshift pedal get its suitable position.

- Finally lock up hex. nut.



Rear brake pedal adjustment



The height for rear brake pedal shall be kept at a suitable position, too high the position is easily to be touched during driving, which lead to friction between brake plate and pad, this may leave damage on each other.

For ensuring reliability, the free play of rear brake pedal shall be within 15-20mm, incorrect height needs be adjusted as below:

- Remove split pin 1.
- Remove pin shaft 2.
- Loosen nut 3 on adjusting stud.
- Turn clockwise or anti-clockwise for connective piece 4 of adjusting stud.
- Turn it clockwise the pedal may rise up, turn it oppositely the pedal would get lower.
- When the brake pedal is adjusted to suitable height, lock up nut for adjusting stud.
- The re-assembly is opposite to disassembly.

 Danger

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

When re-assembled, please repeatedly press and release brake pedal and confirm its pressure point is able to clearly felt.

If the pressure point could not be clearly felt, please contact VOGÉ or its authorized dealer as soon as possible.

Incorrect adjustment may lead to brake pads and plate are always under stress, which get they damaged.

Rear shock absorber adjustment

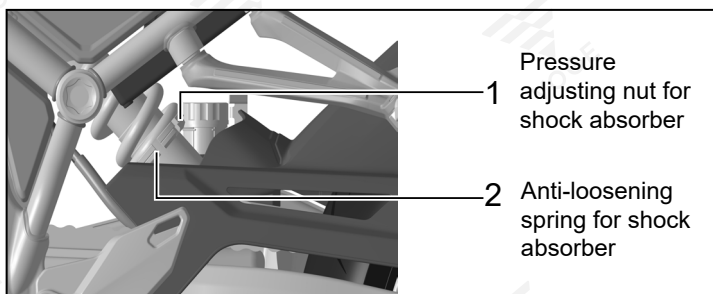
Adjust pre-load of rear shock absorber is to suit different drivers, loadings, driving habit and road conditions.

The pre-load of spring is adjustable.

- Turn the adjusting nut 1 anti-clockwise, the pre-loading of spring gets lower.

- Turn adjusting nut 1 clockwise, the pre-loading of spring gets higher.

- 2 is locking nut for adjustor, every time when pre-loading was adjusted, please then lock up nut 2.



Caution

Adjust pre-loading of rear shock absorber needs tools against this work only, the VOGÉ dealers provide this kind of service for you.

Danger

Please don't adjust pre-loading of rear shock absorber at will, improper adjustment may reduce your control on motorcycle.

If adjustment is necessary, please contact VOGÉ dealers for this kind of service and operation.

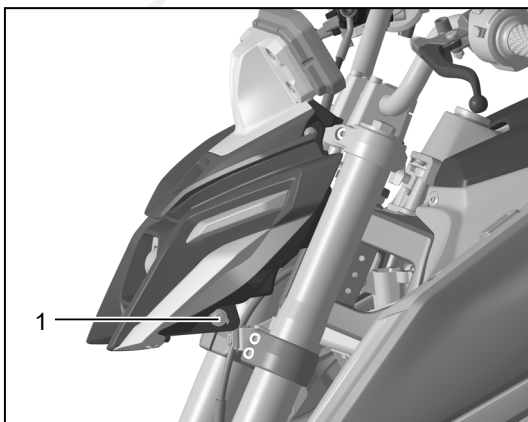
Headlight lighting adjustment

The headlight lighting shall keep a suitable height to fit for different loadings.

For safe driving at night, adjust lighting angle to meet demands of different loadings and their lighting height.

- Loosen nut 1 by tool, hold the head part, the headlight could be turned up and down.

- When adjusted it to suitable position, fasten nut 1, then the adjustment finished.



Warning

The adjustment for high and low beam must meet demands of local laws and regulations, set the standard of lighting when front and rear wheel are touching ground while driver is sitting on motorcycle.

If you are not sure about the correct lighting height, please contact VOGÉ and its authorized dealer.

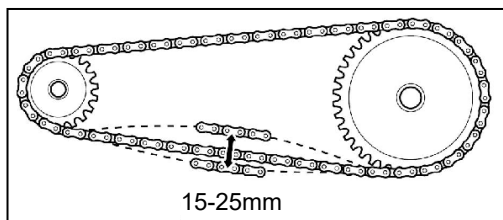
Transmission chain adjustment

Too tight or loose the transmission chain are both incorrect.

Too loose the chain may lead to it drop apart from sprocket wheel even accident.

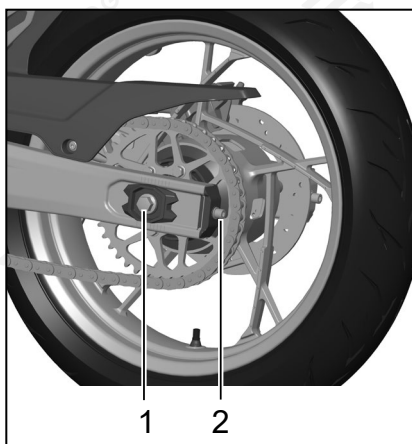
Too tight the chain may get its service life shorter meanwhile increase resistance for transmission.

The correct tightness for chain is as picture below shows:



The adjustment is as below:

- Keep motorcycle upright by parking stand.
- Loosen nut 1 for rear wheel axle, then adjust locking nut 2 for bolt.



If too loose the tightness, please turn the bolt clockwise, of too tight, please turn it anti-clockwise, then powerfully push rear wheel forward and backwards.

When the chain adjusted to suitable tightness, slightly adjust bolt on left and right side, get the scale marks on eject piece, left and right rear forks are all aligned.

Lock up nut 1 for rear wheel axle.

Specification for transmission chain: 520

Links: 112 pieces Oil seal chain Locking up without opening

Danger
This chain is the one without openings, the chain with openings could not be adopted, otherwise the chain may drop off even lead to accident. Replacement for this kind of chain needs tools against this work only, the poor riveting for the locking ring without openings also may get it drop off and lead to accident.

9. Inspection, repair and maintenance

Fuel

The fuel consumption you saw when you purchasing the motorcycle is the one of the least consumption under an even speed, which greatly relates to your daily driving habit, so the actual data may be higher than you saw the parameter at purchasing moment.

Operations below may reduce your fuel consumption under correct driving:

- Softly and stably drive motorcycle, reduce sudden braking as possible, the re-start of motorcycle may increase fuel consumption.

- Driving on urban road is bad for fuel consumption, frequent stop means more engine re-starting.

- Try to avoid driving for short distance. When engine hasn't reached the best temperature, it consumes twice fuel than normal conditions.

- Insufficient air pressure in tire increase rolling resistance on tire and also make it consumes more fuel.

- Strictly follow the requirement in Periodic Maintenance Table is an important part of fuel saving.

Fuel evaporation

When there is malfunction in fuel evaporation kit, please contact VOGÉ service station for repair. Refit on fuel evaporation kit is not allowed, otherwise the emission gas may fall short of meeting requirement of laws and regulations. When it removed and repaired, check and confirm connections for all tube lines, whose joints shall not be with air leakage and blocking-up; When rubber hose shall not be with squeezing, crack and damages. When fuel vapor in fuel tank is released to carbon canister through its desorption tube, when engine stop working, the active carbon in canister absorbs fuel vapor; When engine is working, the fuel vapor in canister gets into combustion chamber of engine through desorption tube to prevent direct emission into air which may lead to pollutions.

At same time, the absorption tube is balancing air pressure in fuel tank, when air pressure in tank is lower than outside, make up for air pressure inside fuel tank through air tube of carbon canister and absorption tube; Please ensure every tube smooth and prevent blocking-up and squeezing, make sure the assembly for anti-rolling valve is correct, otherwise the fuel pump or tank may distort, crack or damages on other parts.

The control kit for fuel evaporation kit is working as principle below:

- When fuel heated up, the gasoline vapor runs out, get into end TANK through side rolling valve, then absorbed.

- When the motorcycle inclining is over 60° , the side rolling valve closed, at this moment, the gasoline could not reach carbon canister through the valve.

- The fresh air gets end PURGE through end A of carbon canister, then bring gasoline vapor into throttle valve, then joins engine combustion through air intake tube.

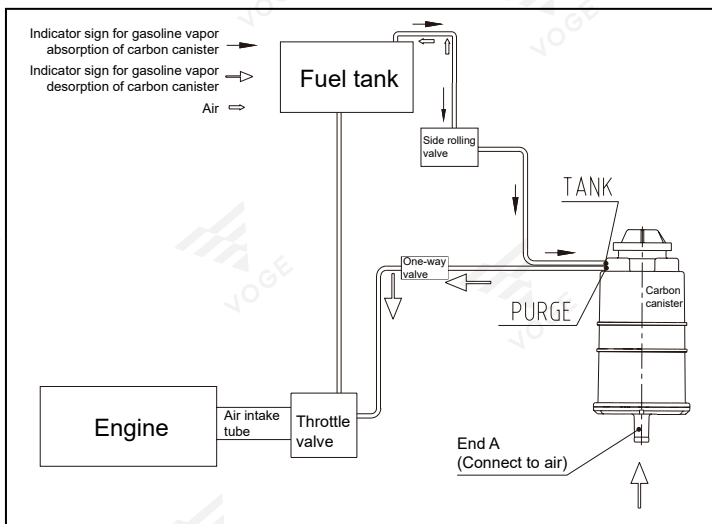


Figure for connection of fuel evaporation controller kit

Tool kit

The tool kit is laid inside of footplate of passenger seat, which is inserted in the corresponding groove on the footplate of seat.

Turning parts and their maintenance

For safe driving, keep fine lubrication is necessary for longer working life of parts.

When driving in bad conditions such as rainy days or after washed motorcycle, please make corresponding lubrication.

Make daily inspection for lubrication points as below:

- Clutch lever shaft
- Brake lever shaft
- Brake pedal bearing
- Hook for side stand shaft and its spring
- Shaft for main footrest, pillion step and returning spring
- Transmission chain



Caution

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

If conditions allowed, before the first driving, please make power charging by 30 minutes, which could effectively make battery life longer.

Battery

Battery maintenance

The battery on this model is the one completely free of maintenance, it needn't check its electrolyte level and ratio within its working life, please check its power charging periodically is necessary.

Warning

To keep battery working life, please don't assemble additional device with strong power. If assemble additional device with weak power, please contact VOGÉ service station to make sure the one needs be assembled is with power joint already reserved by its origin design.

Power charging for battery

When ignition switch is off, if voltage of battery end lower than 12.6VA, we suggest make power charging.

Please adopt power supply with stable current of DC or the charger of given specification, then strictly follow requirement on User Manual is necessary.

The charging voltage is DC $(14.5 \pm 0.3)V$, while charging current shall not be over 1A.

The charging time shall be 6-8 hours.

Overcharge may get battery service life shorter, so this operation is not allowed.

Before power charging, please cut off its connection to circuits on motorcycle.

Please usually check if battery terminal and its joint to wire is clean, in case it is corroded or oxidized, please clean them up immediately.

If usually drive, the power charging kit on board would charge the battery automatically. If only drive by chance or for short time, the battery may be short of power. The battery may discharge by its own, the discharge speed depends on battery life and surrounding temperature. When surrounding temperature rising up, the discharge is also speeding up. For example: Each 5°C of temperature rise accelerate discharge twice faster.

Under cold conditions, improper charging is lead to electrolyte freezing, when frozen, it leads to battery crack or terminal plate distorted, fully charge the power could rise up resistance against freezing.

Before long time parking, please cut off wire connection of negative terminal, otherwise the power would run out by electrical parts on its circuit.

Parking over one month, please make power charge monthly. Battery without charging for a long time would get failure naturally.

Please dispose replaced old battery and electrolyte in correct way and avoid pollution to environment.

Danger
The battery produces hydrogen, please keep it far from heat sources and spark. Wiping by dry cloth produces static spark, so please wipe it by wet cloth to avoid the spark.

Disassembly and re-assembly for battery

Before disassembling or re-assembling, please turn off ignition switch first to get motorcycle power off.

When disassembling, removing the negative terminal first, then remove the positive one.

When re-assembling, assemble positive terminal first, then the negative one.

When disassembling battery, before removing, turn the bolt onto nut of battery to prevent nut dropping off during removing battery.

Warning
Please don't put the battery upside down, which may lead to electrolyte leakage from breathing hole.

External power supply and its using

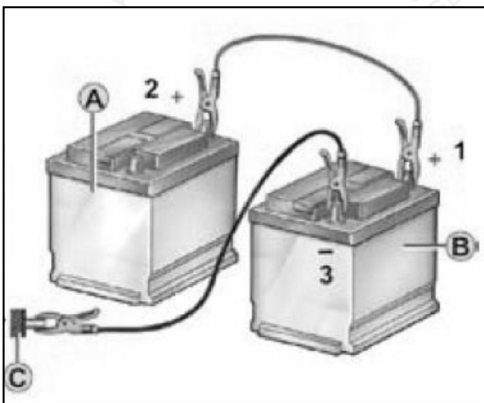
When power in battery fails to meet demand of engine starting, the external power supply could be adopted.

When using external power supply for starting, the spring wire clip on both sides shall be completely insulated and for it only to prevent short circuit or jump spark due to wires interference and touching.

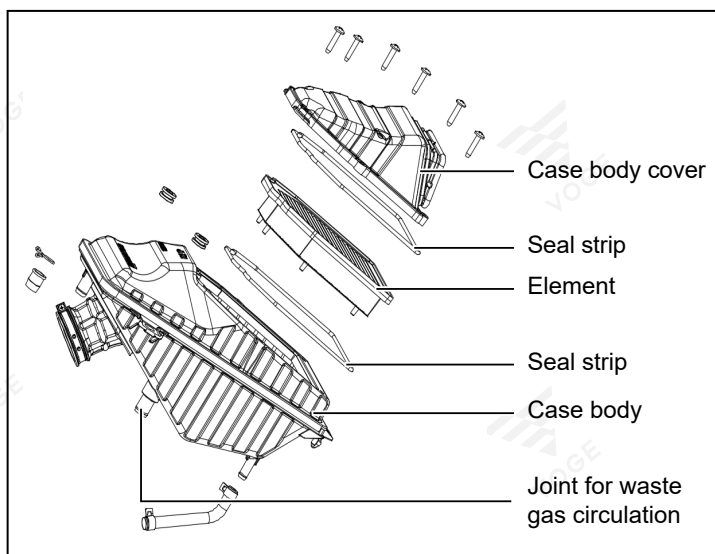
The battery A is the power supply on board while B is the external one.

The positive terminal 1 of external supply B connects to terminal 2 of power supply A on board, the negative terminal 3 of external shall connect to engine metallic parts C to connect to ground. Start engine, if starting failed, please wait for minutes and then make the next starting to protect engine and battery.

Before removing the wire of external power supply, please let engine run for minutes. Then cut off negative and ground wires, then cut off the positive one.



Air filter maintenance



The air filter is under fuel tank. If air filter is blocked by dust, the resistance may rise up and lead to reduction of power output and rising up of fuel consumption.

If driving under dusty condition, please clean and replace element of air filter more frequent.

Clean up and replacement for element kit:

- Remove seat
 - Remove fuel tank
 - Remove 13 pieces of self-tapping screw connecting case cover and body on air filter.
 - Remove 8 pieces of self-tapping screw connecting element and case body.
 - Carefully clean up or replace element of air filter.
- The broken air filter or its element may let dust get

into engine and get engine damaged, if it is broken, please replace.

Incorrect assembling position of element, the dust may get into engine bypassing the element and get engine damaged, please make sure the element is assembled at correct place.

When cleaning up element, please blow from the side with metallic net by air or slightly hit it to erase dust on element as possible, meanwhile cleaning up internal dirt inside case body.

Please ensure water leakage hole is smooth which on left lower side of front end of air filter.

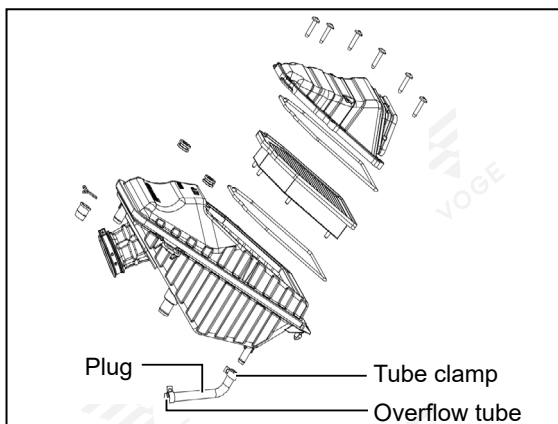
Maintenance for air filter outflow tube

Please check overflow tube on rear left side of air filter occasionally, drain off the oil in time that collected by overflow tube.

Loosen tube clamp on lower side of overflow tube, then remove the plug of the tube.

- Drain off oil.

- Re-assembly the tube, plug and its clamp back in place.



Caution

Every time when removing case over and element of air filter, please replace seal strip for a new one. The broken air filter case, case cover, element and failed seal strip may let dust, water and mud get into engine and damage engine.

When making periodic maintenance, when open cover of case body of air filter, please make inspection, make sure all self-tapping screws and bolts are tight without loosening, dropping off and without impurities that may get engine damaged.

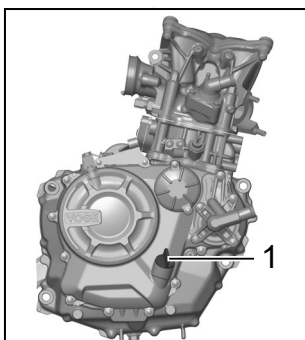
Oil in engine

Check oil level in engine

The place for inspection and filling-up of engine oil are both on right side cover of engine, as figure 1 on the right shows.

The method for checking oil level:

- This work shall be done when engine is under cold condition.



- Keep motorcycle upright.

- Remove oil gauge, wipe up residual oil on the gauge and then put it into engine (Without turning it in), then take it out to check oil level.

- The correct oil level shall be within upper and lower scale lines on oil gauge.

If oil level is higher than the upper scale line, please drain some oil out.

If oil level is under the lower scale line, please fill some oil up.

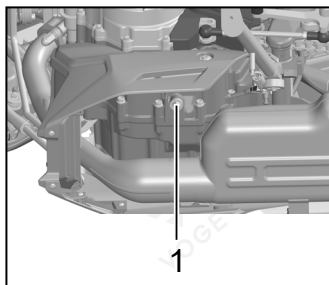
No matter filling-up or draining out, when operation finished, please check oil level once again according to measures above.

Maintenance for engine oil

The oil helps effective lubrication for internal parts of engine, except that, it also helps engine cooling down, in another hand, the oil also helps engine sealing, so the oil maintenance is crucial.

The way of oil drainage

- If too high the oil level, please remove oil drainage bolt by socket wrench (The position of oil drainage bolt if as figure 1 shows), which is on the left lower side of engine.



- Make suitable oil drainage for engine then lock up the drainage bolt back to its place.

Too low the oil level may get engine damaged, in the same way, too high the oil level may also leave damages on engine.

- Please make sure the oil level is at the correct height.

Caution

The oil may expand with temperature rising, the oil level also changes along with oil temperature changes.

The hotter the higher while the colder the lower, those are all normal.

When checking oil level, please make sure motorcycle is upright, which means vertical to ground.

Danger

Because the place of oil drainage bolt is near to muffler, so please drain the oil off when muffler is basically cooled down, make enough protection when draining off the oil to avoid scald.

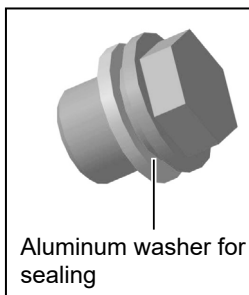
Replacement for engine oil

When each maintenance period reached, please replace engine oil.

Replace oil when engine is warm to totally drain the oil off.

The way for replace oil:

- Keep motorcycle upright by parking stand.
- Turn the cover of filling port anti-clockwise
- Lay an oil tray under oil drainage bolt, then remove the bolt by tool and drain the oil off.
- Lock up oil drainage bolt before filling up with fresh oil.



Warning

Replace oil drainage bolt and seal copper washer when re-assembling the drainage bolt, if still use the old ones, it may lead to oil leakage.

Danger

Although this work be done when engine is holt would totally drain oil off, the hot oil and muffler may still get man scald, so before draining off, please wait for the bolt and muffler are basically cooled down.

Filling-up of engine oil

Confirm the new oil element already replaced and its cover already assembled in place.

The oil drainage bolt and seal gasket already replaced and assembled in place.

- The first time please fill up with 1.5L of fresh oil into filling port with oil specification of “For VOG EFI only”, check oil gauge, the oil level shall be within “MAX and MIN”, then turn and tighten the port cover. Let engine run for 5 minutes by different rotation, when engine is working, please check if there is oil leakage.

- Finally, please check oil level.

[illegible]

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.

 Caution

Oil specification: SJ/10W-40 or above, the oil for gasoline engine of 4 stroke.

Oil filling-up capacity: 1.5L (Keep this capacity both replace or without replacing oil element).

Please disposal replaced oil and element in environmental friendly way.

 Warning

Oil with wrong specification or the one with poor qualification are both bad for engine even get it damaged, which may leave damages on EFI parts, which shorten service life of spark plug and catalyst in muffler, so please don't adopt them.

Oil element replacement

When each maintenance period reached, please replace oil element for a new one.

Replace oil element when oil in engine was already drained off.

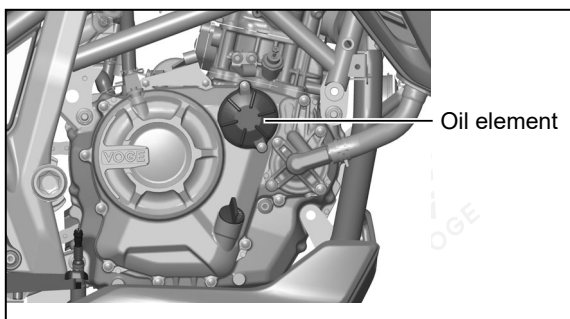
Lay a piece of oil absorption paper or cotton cloth under cap of oil element to prevent oil overflow and touching engine surface.

Remove fixing bolt of oil element cap by tools.

Remove the oil element and drain the oil off.

Replace the element for a new one.

Re-assemble oil element back in place, the o-ring on element cap is a crucial parts, otherwise there may have oil leakage.



Warning

Check if the gasket on element cap is in good condition, please replace it for a new one if it is necessary. The wrong oil element may leave damages on engine, please adopt the one of VOGÉ origin.

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.

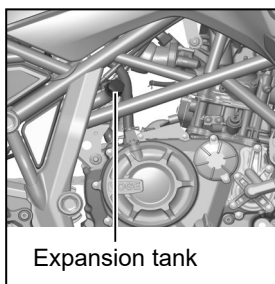
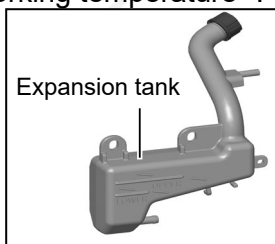
- Keep the motorcycle upright.

- 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 VOGUE dealer.



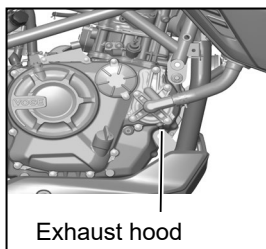
Warning

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 VOGUE dealer for maintenance.

The replacement for coolant

The coolant drainage:

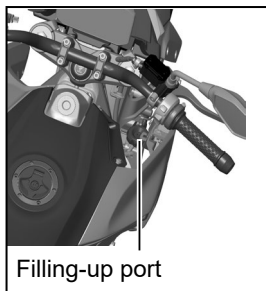
- Keep the motorcycle upright by standing rack.
- Lay a liquid tray under the engine.
- Remove the water drainage bolt, because all the heat radiationsystem is connected, so all the coolant may flow out from this port.



- After the old coolant drained off, install and fasten the water drainage bolt in place.

The coolant filling-up:

- The coolant need be filled up from the heat radiator and expansion



tank the two positions:

- Check if the coolant was full from cap of radiator tank, when filling coolant, please pinch the water tube by hand to exhaust air until it is full, then remove exhaust cap until coolant keeping flow out without interval, Assemble air exhaust cap, then assemble cover of radiator tank in place.

•After the tank's cap of heat radiator covered, start and run the engine for 30 seconds to make the coolant fully reach every position need it.

•Make the engine stop, after the engine cooled down, open once again the tank's cap of heat radiator, check if the coolant already was full, in case the level fell down, please fill up once again until it is full, then well cover the tank's cover of heat radiator, repeat this action until it gets full, in case it is necessary, it may need to repeat two times or more.

•Remove the black rubber cap of expansion tank, then fill up with coolant to the level between scale mark UPPER and LOWER.

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

•In case the air temperature is lower than the one marked up on the label, please adopt the coolant fits for lower temperature.

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

 Caution

- To keep the coolant performance, replace each two years.
- Coolant specification: ice point of -45°C of glycol.
- The filling-up volume: 1.1L
- 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 a crucial material of braking transmission in hydraulic brake kit, which needs reliable performance for flowing in both high and low temperature, meanwhile it also needs be with sound anti-corrosive performance, so please choose the one with correct specification.

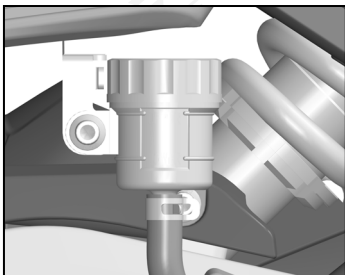
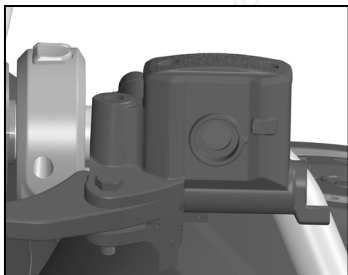
Inspection for brake liquid

- Too low the liquid level in brake oil cup may lead to air get into brake kit, which obviously reduces braking performance. Please check liquid level periodically.

- The inspection and filling-up of brake liquid are both conducting in oil cup of front and rear brake.

- The upper level of liquid shall not be higher than mark (UPPER or MAX), when the level is under mark (LOWER or MIN), please make a prompt filling-up.

- The brake liquid is corrosive, splash to painting or plastic surface is corrosive to their surface.



Warning

When filling-up of brake liquid is needed, open cap of oil cup by yourself may get air or moisture in, which greatly reduces braking performance, so please contact VOGE dealer for replacing or filling-up.

Specification for brake liquid

When there is moisture or impurities in brake liquid, please replace or filter it promptly, otherwise the braking pressure may not be enough and bad for braking performance, especially in places with wet weather.

Use brake liquid over 2 years may lead to it get bad due to long time working, please replace it promptly.

The specification of brake liquid is: DOT4.

Please dispose the replaced brake liquid in environment friendly way.

Caution

Mixture of brake liquid between different brands or specification is strictly forbidden. The mixture between different brands or specification greatly reduces braking performance due to their different chemical formula.

Transmission chain

The transmission chain equipped on this model is the one with oil seal, which has special o-ring at place of pin of the chain, and there is lubricant sealed in the o-ring, so the replacement for the chain needs tools against this work only, please contact VOGÉ dealer if it needs be replaced.

Before driving, please check and adjust the chain and confirm if there are problems below:

- Pin flexible
- Roller damaged
- Chain plate rusty
- Links jamming
- Once any problems are found above, please

contact VOGÉ dealer.

The abrasion on chain may also lead to sprocket wheel wear-out, please check and confirm it there is problem below:

- Sprocket wheel wear-out
- Tooth broken or cracked
- Once any problems are found above, please

contact VOGÉ dealer.

Caution

When the transmission chain needs be replaced, please check the abrasion condition for driving and driven sprocket wheel, please replace them both if it is necessary.

If there is not oil for chain only when replacing, please make substitution for gear oil of SAE90 with high viscosity.

Maintenance for transmission chain

Dust or dirt on chain is bad for its service life, please clean it up and make lubrication periodically, incorrect washing and lubrication may leave damage on o-ring and lubricant due to there is lubricant on o-ring at place of chain's pin, which accelerates wear-out and reduces service of chain.

Washing by steel wire brush for chain is not allowed.

When washing finished, please wipe up water and neutral cleanser immediately, dry it up for lubrication.

Please adopt oil for chain with oil seal only, evenly spread it onto inner and outer plate of chain, when coated with oil, please wipe up surplus oil.

Some lubricant of chain contains solvent and additive which are bad for seal ring, please adopt the one for chain with seal ring only.

Warning
Please wash chain by water or neutral cleanser. Washing by solvent with volatility such as gasoline or paint thinner is not allowed. Please don't wash chain by the cleaning device with high pressure.

Tire

The tire connects motorcycle and ground, so it is important. Incorrect tire condition or specification is bad for motorcycle performance.

Pressure in tire

Incorrect tire pressure reduces its lifetime.

Too low the pressure leads to difficult turning and accelerate tire abrasion.

Too high the pressure reduces contacting area between tire and ground which is easy to skid and bring motorcycle out of control.

When motorcycle is under high speed, the centrifugal force gets air core on tire intending to be opened, for prevent a sudden air leakage, it equipped a rubber cap with metallic liner and assembled on air valve core by threading up.

The air charging pressure is rising up along with tire temperature. Under this case, only when tire and surroundings are in same temperature, make correction for tire pressure in cold condition could be done. The tire specification is crucial to motorcycle performance.

Danger

Incorrect tire pressure is bad for operational performance and even leading to accident.

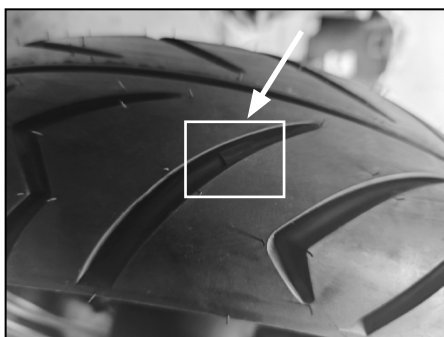
Overloading may get tire in malfunction even bring motorcycle out of control.

Check tire pressure monthly at least.

Under normal temperature, please check tire pressure according to data below:

	Driver only	With passenger
Front tire	225kPa	225kPa
Rear tire	250kPa	250kPa

Inspection for tire wear-out limit



There is mark for wear-out on main surface of tire.

When abrasion of tire tread reached the place of mark, it could not be used any longer.

There is mark TWI is near to tire edge, and the mark of wear-out is in water drainage groove on tire tread which is the one of protrusion, when the protrusion is worn out, that means the tire already wore out, please replace it for a new one as soon as possible.

Too heavy the abrasion on tire may get it penetrated and bring motorcycle out of control.

When the tire tread reached the minimum allowed depth, whose operational and ground grasping force are greatly reduced.

The repair of tire

Repair the tiny hole on tubeless tire, the tire needs be removed and patched up its inside, external repair is not necessary, because when motorcycle is under high speed, the centrifugal force may get the patching place dropping of, when removing tire, please protective the sensor for tire pressure.

24 hours after tire repair, the highest speed could not be over 80km/h.

If the side of tire damaged while its broken place is bigger than 6mm, the tire could not be used any more.

Check the tire, if there are several damages on tire such as damage, scratch or wear-out, please replace the tire.

Replacement for tire

Tires with different brand, tire tread, specification or aging degree on a same motorcycle is not allowed.

When tires replaced, the moving balance and correction for wheels is necessary, if it with poor balance, the operation performance of motorcycle may reduce, also lead to uneven abrasion on tire.

There is a mark of arrow on rolling direction on tire side. Please make sure turn the tire along this direction to prevent skidding and increase ground grasp, reduce noise and rise up durability which gets tire performance better.

The tire with given specification has passed strict test and verification which meets demand of most of

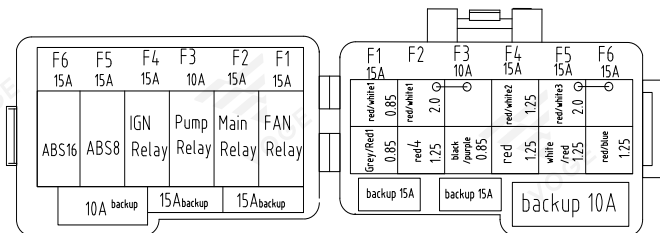
the road conditions, but the ones haven't been tested could not ensure its suitability and safety performance..

The tubeless tire was sealed at contact place between tire lip and wheel rim.

To avoid air leakage, the disassembly and re-assembly for tubeless tire needs tools and machine for this work only. When disassembling tire, please protect tire pressure sensor .

If the tire replacement is necessary, please contact VOGÉ dealer who has necessary tools and experience.

Fuse chip



Before replacing fuse chip, please know well about root cause for malfunction and make troubleshooting.

There are marks for introduction for specification and usage for all fuse chips.

Fuse chip for power supply of ABS motor (15A) F5: Controls power supply for ABS motor. (Only some of models equipped).

Fuse chip for power supply of solenoid valve of ABS (15A) F6: Control power supply for solenoid valve of ABS (Only some of models equipped).

Fuse chip for power supply except EFI kit (15A) F4: Control power supply for meter, lights, horn, flasher, side stand, kill switch and starting relay. Spare chip: 15A (1 piece-Blue-Inside of fuse case).

Fuse chip for power supply of EFI (15A) F2: Control power supply of ECU, oxygen sensor, OBD diagnosis joint, oil injector and ignition switch. Spare chip: 15A (1 piece-Blue-Inside of fuse case).

Fuse chip for power supply of fuel pump (10A): Control power supply of fuel pump. Spare chip: 10A (1 piece-Red-Inside of fuse case).

Fan power fuse (15A): controls the power supply of the cooling fan.

When fuse chip inspected or replaced, please assemble fuse case cover back in place, otherwise when driving in rainy days or after washing, the water is easy to get in and make it in bad malfunction.

 Caution

If fuse chip usually fuses and beaks up in short time, which means there is malfunction in electrical kit, please contact dealer as soon as possible.

 Danger

Please choose the fuse chip with given specification, the substitution such as iron wire or aluminum foil is not allowed.

The direct connection of fuse chip out of given specification is not allowed, otherwise it leaves damage on electrical kit, leads to catch fire even burn it down.

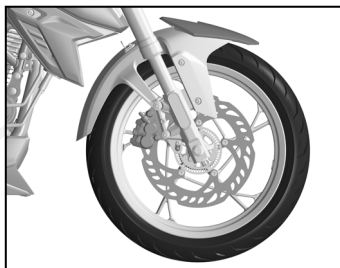
Brake pad

When abrasion passed allowed and minimum thickness of brake pad may lead to performance reduction of braking, under some of cases, it also may lead to damage of braking kit. For ensuring reliability of braking kit, the abrasion passed minimum thickness of brake pad is not allowed.

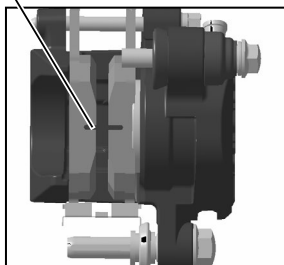
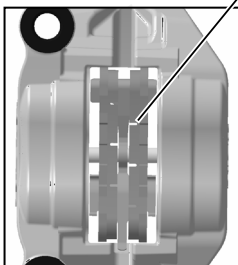
Replacement of brake pad

The correct replacement for brake pad needs to remove front and rear wheel, so if this kind work is necessary, please contact VOGÉ dealer.

No matter front or rear brake pad, both their replacement needs be in pairs, if only replace one piece in pairs, it may lead to unbalanced braking even accident.



The bottom of the groove is the abrasion limit for front and rear brake pad



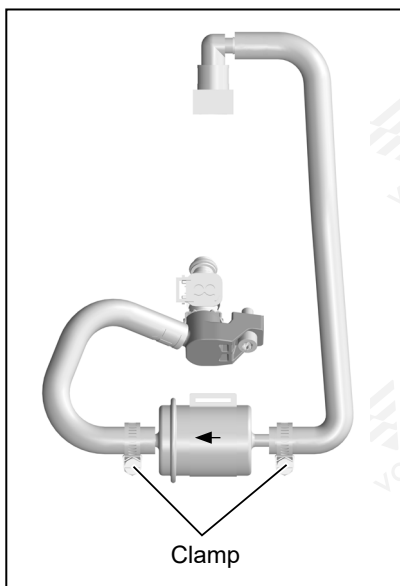
When brake pad removed, operation on brake lever or pedal is not allowed, otherwise it may lead to difficult return of piston, meanwhile bringing it under risk of liquid leakage.

When replacing brake pad, please don't let oil or other dirt touch brake pad or plate, if there is, please clean them up, otherwise it reduces braking performance.

 Danger

When brake pad was replaced for a fresh new, please repeatedly operate brake lever and pedal to confirm tight pressing between brake pad and plate, meanwhile confirming correct free play of brake lever and pedal.

Fuel filter replacement



The fuel filter is for filtering impurities in fuel to prevent it get into fuel injector.

The fuel injector is made of refined machining, which is easy to be blocked up by impurity, the blocked fuel injector could not normally work even lead to engine starting failure.

Please replace fuel filter on time.

- Remove fuel tank, which could be seen from right side of air filter.

- Remove clamp of secondary fuel filter by screwdriver.

- Wrap both ends of secondary fuel filter by cotton cloth to prevent fuel splashing when removing it, because there is residual pressure and fuel in fuel

hose, which may splash out from the fuel hose.

- Remove clamp on both ends of secondary fuel filter by screwdriver.
- Replace the fuel filter for a new one.
- The re-assembly is completely opposite to disassembly.
- When removing fuel filter, please absorb flashing fuel from inside of tube by cotton cloth.

Caution
The frequency of fuel filter replacement: Each 5000km.

Please dispose the replaced secondary fuel filter in environment friendly way.

Lighting signal replacement

The missed lighting signal brings you under danger, because the light signal helps others find out you and your motorcycle in dark, so please replace broken signal light immediately.

The headlight, position light, turning signal, rear signal light/braking light and rear registration light are all LED and sealed, if they were broken, please replace the light as a kit by service station. The replacement for signal light please follows the description in table below.

Dirt especially the grease on surface of light is disturbance for heat radiation of signal light, which leads to overheat and shorten service of light.

Electrical kit	
Battery specification	12V 7Ah
Headlight (High/low beam)	12V 18W×2/12V 10W
Front position light	12V 2W×2
Rear position light	12V 1.6W
Rear braking light	12V 7.6W
Front turning signal light	12V 4W (Single)
Rear turning signal light	12V 1W (Single)
Rear registration light	12V 0.257W
Fuse chip specification	15A, 10A

Warning

When signal light is broken, please replace by light with same rated voltage and specification, otherwise it may lead to overloading in circuit and get service life of bulb shorter.

Shock absorber inspection

Please inspect and clean up all parts related to shock absorber periodically to ensure its best suspension performance.

Before driving please check if there is mud or sand sticking on tube for shock absorber, if there is, please wash it as soon as possible, otherwise it may lead to oil leakage of oil seal.

Check if there is residual grease on front or rear shock absorber, if there is oil leakage, please contact after-sales service of official VOGÉ for troubleshooting.

Tightly hold brake lever, repeatedly press down handle bar several times to check smooth return of front shock absorber.

Keep motorcycle upright, press rear seat by times to check smooth work of rear shock absorber.

Routine Inspection for fastening torque of crucial parts				
Ref. No.	Fastening position	Thread	Qty.	Torque(N•m)
1	Front wheel axle	M14	1	75
2	Front axle clamp, upper suspension	M8	2	25
3	Front brake caliper and shock absorber	M8	2	28
4	Rear fork axle	M14	1	75
5	Engine rear upper and lower suspension	M10	2	45
6	Engine front	M10	1	45
7	Connection of rear shock absorber	M12	2	60
8	Front shock absorber and steering stem, upper connective plate	M8	6	20
9	Muffler fastening bolt	M8	3	22

Please check and confirm if every maintenance strictly follows requirement in this book.

The maintenance in this book is only the least frequency. If your motorcycle usually drives under harsh conditions, the maintenance shall be more frequent than the table above.

Special maintenance is necessary once traveled in wind, sand, mud and long journey.

The waste materials such as cleanser or replaced oil shall be disposed in correct way without pollution to surroundings.

Correct maintenance is crucial to daily driving, also the correct choice for spare parts.

We suggest the maintenance shall be done by VOGÉ dealer.

10.Maintenance in parking time

Motorcycle storage

If the motorcycle needs parking without driving for a period, please operate as below:

- Replace oil for fresh
- Block air intake port of air filter and exhaust port of muffler by wiping cloth with dipping fresh oil to avoid air with moisture getting into engine.
- Totally drain off fuel in tank.
- Remove battery, then washing its surface by neutral soapy water, meanwhile cleaning up oxide on its terminals.
- Store battery in room with temperature above 0°C.
- Adjust air pressure in tire to given one.
- Totally wash motorcycle.
- Spray rubber protectant to surface of rubber parts.
- Spread the covering parts with protective wax of automobile.
- Finally cover the motorcycle by dry cloth and parking in place with dry air and smooth ventilation.



Caution

Charge the motorcycle monthly.

Motorcycle protection

Please usually wash motorcycle according to its driving situation, do everything possible to keep motorcycle clean and dry.

Please wash and clean up the dirt such as birds' droppings, bitumen or salt as soon as possible.

Please adopt covering cloth for motorcycle as possible as you could, long time exposure under sunshine may lead to covering parts aging and color fading.

Motorcycle cleaning-up

Wash motorcycle by cool water.

Totally clean up motorcycle by soft cloth and neutral cleanser.

Please don't wash motorcycle by water with high pressure.

When driving in rainy days or after washed motorcycle, there may have a little fog inside of headlight or turning signal light, turn on the light for a while, the fog may disappear, because all the lights are designed with air ventilation hole, so the fog inside light is normal situation.

Danger
The wet brake kit may get braking force lower, when motorcycle was washed, please repeatedly test its brake kit and let it quickly dry up.

Motorcycle service time and disposal

Service life of motorcycle

The service life of motorcycle please refers to laws and regulations from local traffic administration or vehicle management department.

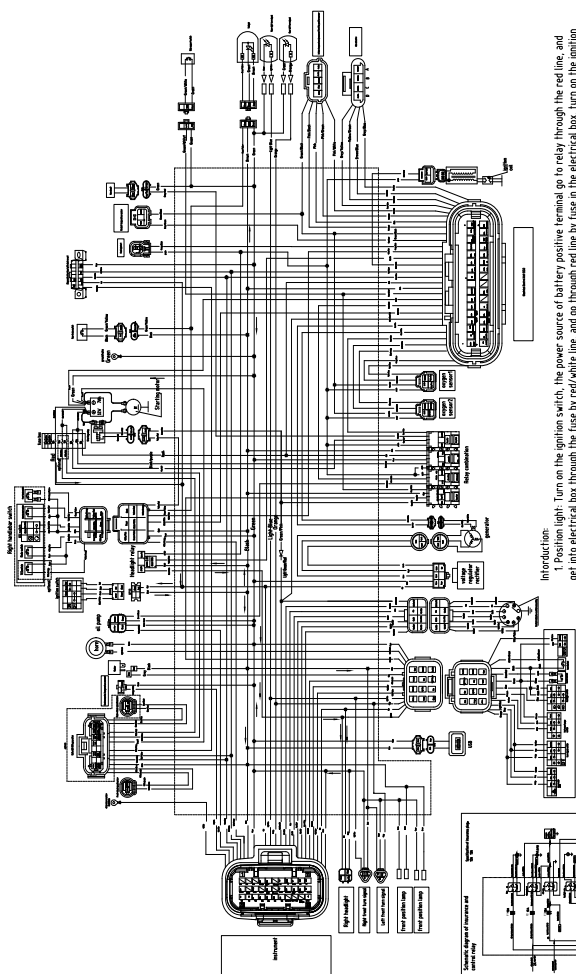
Disposal of vehicle

Disposal for waste oil: Please put the replaced and wasted oil into plastic bucket and return it back to producer. Please don't discharge the wasted oil to ground, earth and water, that may lead to environmental pollution.

Disposal for wasted battery, bulbs, covering parts, filtering element, tire, iron and aluminum parts: These parts need recycling disposal by classification. Please don't discharge them at will, furthermore, please don't discharge battery acid at will, that may lead to environmental pollution even hurt human beings.

When vehicle declared worthless, please make corresponding disposal according to laws and regulations made by local traffic administration and vehicle management department.

11. Electrical diagram





Maintenance download



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