

Welcome to VOGÉ

Many thanks and congratulations for choosing VOGÉ

You shall know your motorcycle as same as yourself for reliable and safe driving under various conditions. Please carefully read this book before driving, which including important information for driving way and equipment, and suggestions need to be strictly followed, also with information relates to maintenance and prevention of the motorcycle. In case there is question about your motorcycle, the authorized VOGÉ distributor is glad to help you. Driving and enjoy the VOGÉ.

This type of motorcycle has reached the emission requirement of GB 14622-2016 <The motorcycle emission limits and measurement methods (China State IV)>.

When customer buying the motorcycle, please also purchase the corresponding helmet met standard GB811 for driving.

The use of the user manual

This user manual includes important information, cautions, and danger reminder of the motorcycle. Make sure the user manual is well stored on motorcycle. It is very important that the manual must be on the motorcycle when lending or selling to others. The pictures and details in this book may have tiny difference with the actual motorcycle, but the description and theory are the same. When you need to sell the motorcycle, please sell with this user manual, because it is an inseparable part of the motorcycle. VOGÉ keeps standard of high safety and quality due to constant research and improvement, which may lead to difference with your manual, but VOGÉ distributor is glad to give you correct guide at any time.

Standard for execution: Q/C LX 199-2018

The user manual met standard: G B/T 9969-2008 and G B/T 19678-2005

Issues need pay attention to

When you saw the warning symbols below, please follow the driving and maintenance procedure

 Danger

This means potential danger may lead to heavy injury or death

 Warning

This means possible damage on motorcycle

 Caution

This means more efficient and convenient driving essentials

 Danger

This motorcycle suits rational and careful driving in the person with corresponding certificate, and pay attention to: :

No refit is allowed ;

Follow the local laws and regulations;

Refit on equipment or electrical parts may have influence on noise, emission and motorcycle performance

Future improvements may occur on this model and may lead to differences between the user manual and the actual motorcycle, and we are sorry that we may not provide new versions of this book.

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Vehicle identification

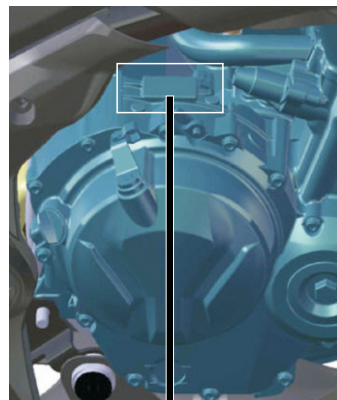
Vehicle Identification Number (**VIN**) and Motorcycle Brand Plate
Engine type and Identification number



Vehicle Identification Number (**VIN**)



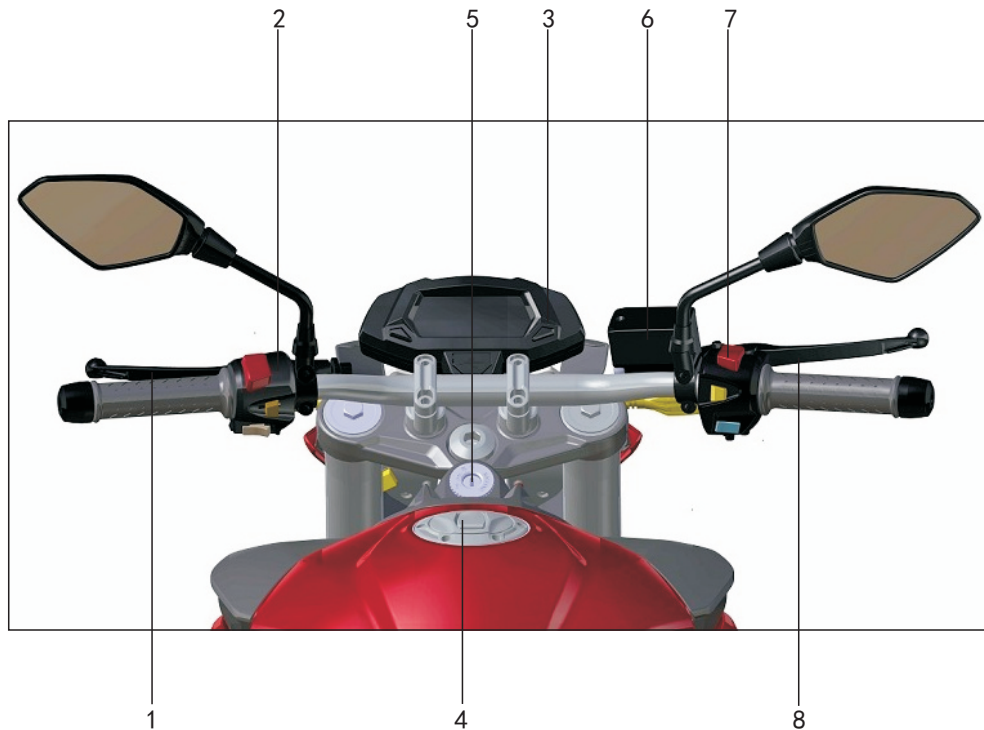
Motorcycle Brand Plate



Engine type and Identification number

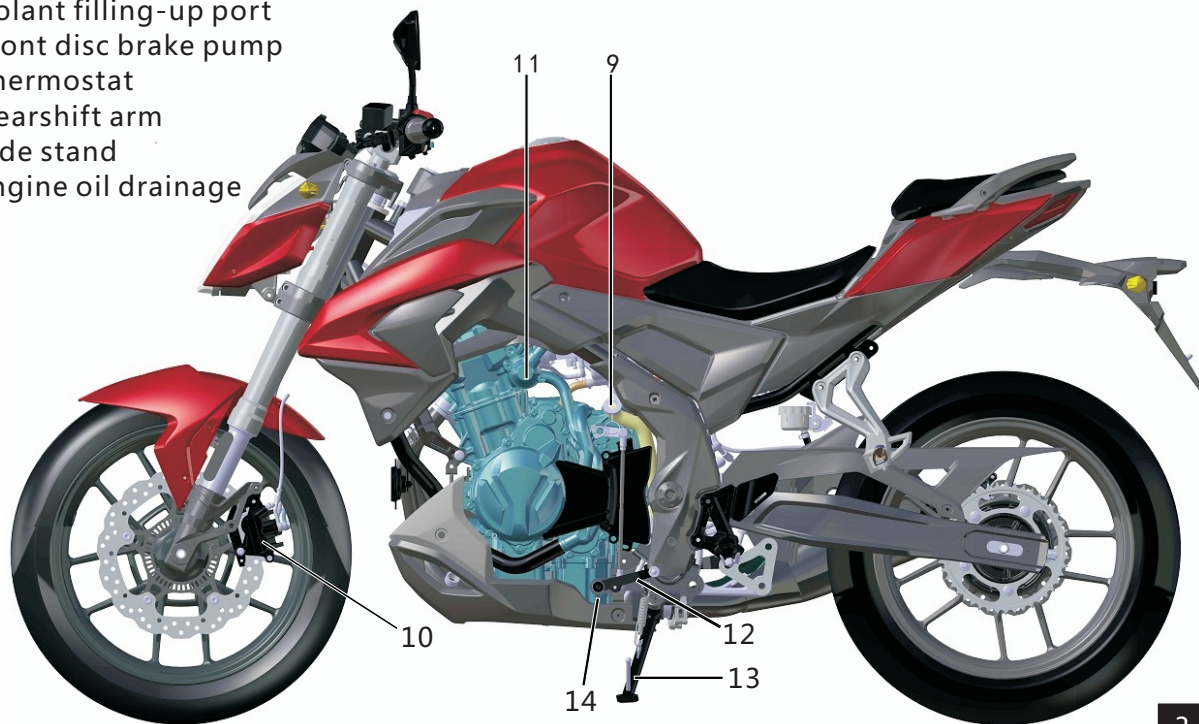
Motorcycle head

1. Clutch lever
2. Left switch assy.
3. Meter
4. Fuel tank cap
5. Ignition switch
6. Front brake master cylinder
7. Right switch assy.
8. Front brake lever



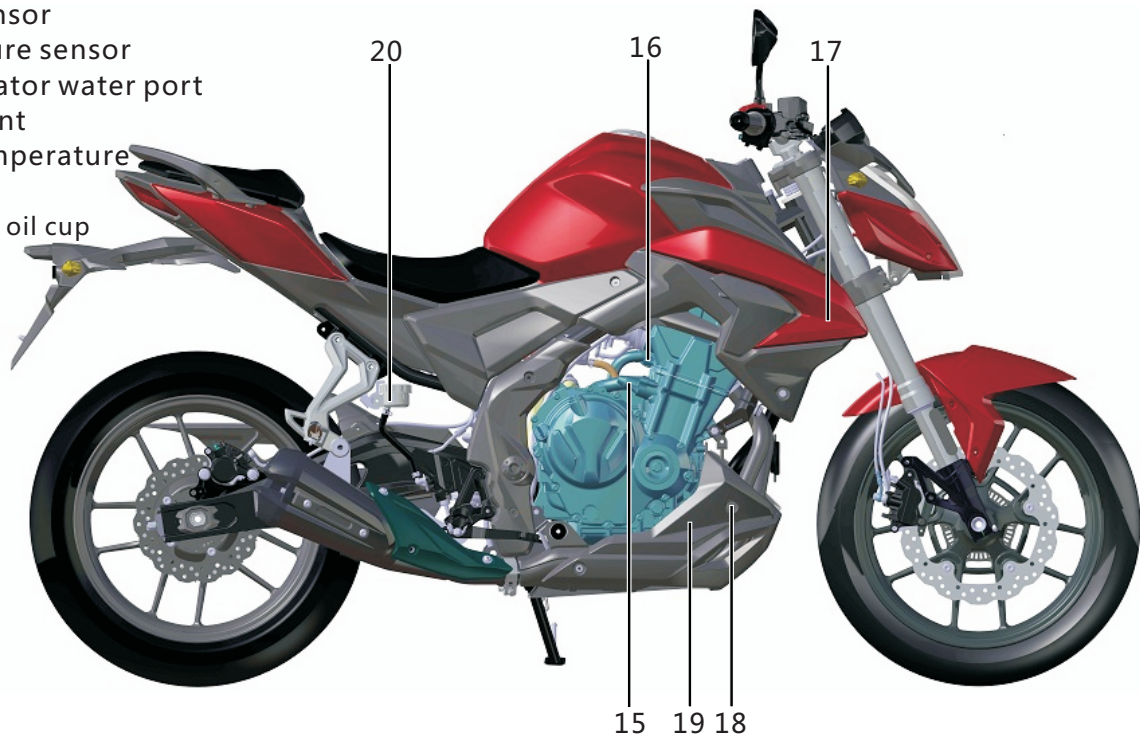
Left side

- 9. Coolant filling-up port
- 10. Front disc brake pump
- 11. Thermostat
- 12. Gearshift arm
- 13. Side stand
- 14. Engine oil drainage bolt



Right side

- 15.Speed sensor
- 16.Oil pressure sensor
- 17.Heat radiator water port
- 18.Oil element
- 19.Water temperature sensor
- 20.Rear brake oil cup



Lower part of seat

21.Fuse box

22.Battery

23.Air filter

24.ABS controller (Match-select)

25.Diagnosis joint

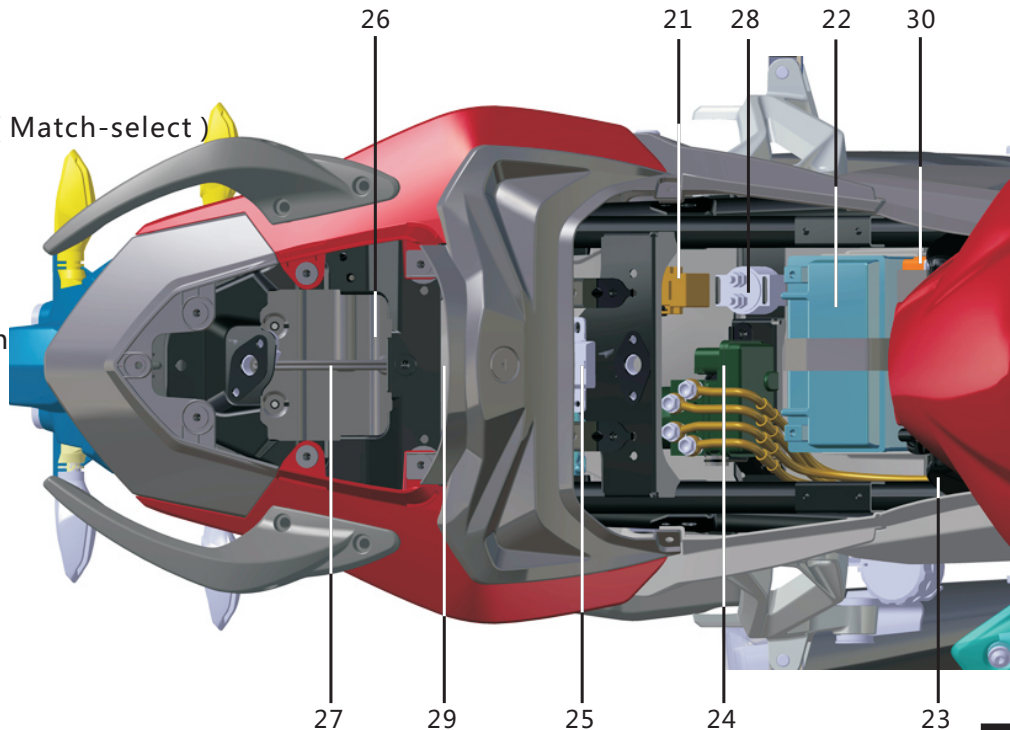
26.Seat cable

27.Tools

28. Starting relay

29.ECU

30.Dumping switch



Issues need to pay attention to during driving

1. Any passenger need know well the driving speciality, because unsuitable sitting position, for example deviation of gravity center from central plane of motorcycle or sudden moving during driving may have influence on operation or control; Passenger need stably sit during driving and without influence on driver. No animal passenger is allowed.
 2. For decreasing the influence on gravity of motorcycle, any luggage on motorcycle need keep in low position and evenly distribute on both sides. Too long the extension of luggage shall be avoided.
 3. Luggage must be safely fixed on motorcycle, and confirm it is unable to move before driving. When luggage flexibility is felt during driving, check the tightness and re-adjust if necessary.
 4. Luggage with heavy weight or big size shall be avoided. Overloading must have influence on operation or power performance.
 5. Load any luggage or install accessories may decrease motorcycle performance is not allowed, make sure all you did has no influence on lighting system, ground clearance, braking performance, inclined angle, operation performance, tyre compression travel, front fork working stroke or other performance relates to driving.
 6. Extra weight on handle bar or front fork may have influence on steering performance, even produce factor influence safety.
 7. Fairing cover, windshield glass, backrest or other parts with big size may have influence on stability or operation performance for motorcycle, which not only increase weight but also decrease power performance. Because these parts are without designing verification, installation of these parts may produce factors influence safety.
 8. Refit to tricycle is not allowed, use as trailer is also not permissible, in case damage or injury due to user's refit, we take no responsibility.
- Max. loading: Not more than 150kg(Including driver, luggage and accessories)).

Loading and accessories

⚠ Danger

Incorrect loading or refit, or assemble improper accessories and wrong repair may result in hidden risk for safety; Overloading is not allowed before driving, and please follow these stipulations.

Use OEM parts and accessories we admitted. In case parts are not OEM, or improper accessories and loading may have influence on motorcycle performance, even break laws, please pay attention to and take responsibility to your safety and that for others.

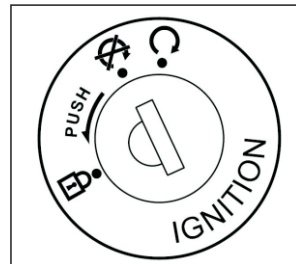
⚠ Caution

The equipment and accessories of VOGÉ are specially designed or verified, in this case, we strongly suggest you adopt OEM parts or accessories we permitted.。

The change of weight has a large influence on power performance, in this case, you have to accept our stipulated weight of loading, passenger, and accessories.

Ignition switch

The ignition switch is on the front of fuel tank, which including ignition and steering lock. This model equipped 2 pcs of keys, in which one is for spare. One key is for ignition, steering, seat, and fuel lock.



Ignition switch has three positions:

Position “” means ignition circuit is connected which could be ignited, and all performance circuit of motorcycle is connected, and key could not be drawn out on this position.

Position “” ignition switch is off, and could not be ignited, and the key could be drawn out on this position.

Position “” is for locking handle bar, and move handle bar to most left first, and press down the key on position “”, then turn anticlockwise to position “”, and on this position, the key could be drawn out, ignition circuit is off and unable to start

▲ Caution

This motorcycle equipped side stand only, for stable parking, try best to move the steering bar to most left rather than right when locking.

▲ Danger

Turn the key to position “” is not allowed during driving, or the motorcycle will be brought out of control.

Meter and indicator

1.Left turning indicator

2.Neutral indicator

3.EFI failure indicator

4. ABS failure indicator

5. RESET button

6.LCD panel

7. MODE button

8.Right turning indicator

9.high beam indicator

10. Coolant temperature indicator

11.Oil pressure indicator

12.USB power input

13.Rotation speed

14.Rotation speed unit

15.Forward gear

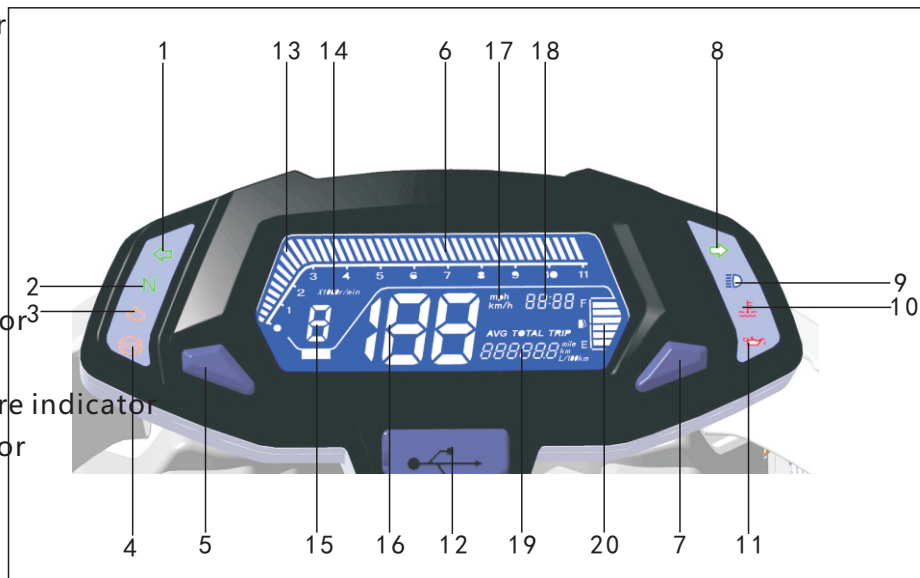
16.Speed

17.Speed unit

18.Time

19.Mode display

20.Fuel level



Turn the ignition key to "  ", and the meter starts to self-checking :
 LCD panel light on and begin self-checking, and show the status.
 Coolant temperature indicator"  "is on in self-checking , and then off after checked.
 EFI failure indicator"  "ABS failure indicator"  "and oil pressure indicator"  "are on.

Warning

Wash by high pressure water is not allowed. Wipe by gasoline or alcohol may lead to partial crack or color fading

Left turning indicator"  , When pushing left the steering switch on left "  "
 switch assy., the light"  " is on.

Caution

When the light is off due to broken turning signal or other causes ,
 this indicator flashes more frequently"  " for reminding you check
 the light failure.

Neutral indicator" N " "
 Engine locates on neutral position , indicator" N " is on
 EFI failure indicator"  "
 When the EFI system failed , the indicator"  "
 flashes
 When turned the ignition key to"  " , the indicator
 "  " is on ;
 After engine started , indicator "  " goes off.

Warning

In case indicator is on or flashing
 after the engine started"  " , in or
 this case, continue driving may lead
 to engine ignition failure or fuel
 supplying ceased. In case light "  "
 is on or flashing during driving , please
 cease driving and ask VOG distributor.

ABS failure indicator "  "

When ABS system failed , the indicator "  "is on

When the ignition key turned to "  " , indicator "  "is ; After engine started , indicator "  " goes off.

Danger

In case indicator "  " is on or flashing after engine started , the motorcycle may brake abnormally or lock up, in this case, continue driving is not allowed

·In case indicator "  " is on or flashing during driving , cease driving and ask Loncin authorized dealer.

LCD panel

·Meter is off :

Meter is on : After the panel is on, the meter show backlight and information mode of last set.



Backlight colour : Three colors could be set : Yellow, red, and blue
Backlight brightness : Three grades of brightness could be set: High, medium and low



Rotation speed : Rotation speed of engine (r/min-Speed/minute——Number of turns in each minute of crankshaft
Gear: The gear position the engine is currently in.

(Non neutral)

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

Fuel consumption : Current fuel consumption (L/100km-L/100 km)

Mode display : This meter has three display modes—— “AVG” average fuel consumption in 100km, “TOTAL” display as mileage, “TRIP” display as each travel.

MODE button : Shortly press MODE for shifting modes

RESET button : Set data in one mode area.

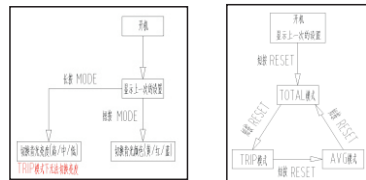
After power source connected , shortly/long press MODE button can shift modes as below :

After power source connected , shortly press RESET can shift modes as below :

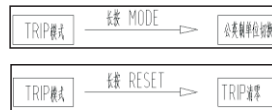
TOTAL mode : Display mileage from the beginning.

After entered TOTAL mode , set the clock as below :

TRIP mode : Display mileage in on specified stage:



AVG mode : Display average fuel consumption each 100 km.

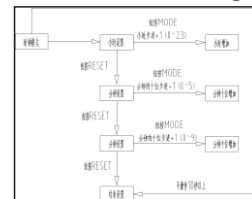


Fuel level : Display the fuel remains ; The indicator is on when too less fuel remained.

When the fuel in tank is about used up, the lowest position(red zone), the fuel indicator is flashing , which means prompt fuel filling-up is necessary.

⚠ Caution

Fuel in tank is easy to fluctuate during driving, too less the remained fuel may lead to the indicator flashes sometimes. This kind of situation may repeat, and then the light is on. This is normal and don't worry. In case this indicator flashes during driving, which means there is about 3L fuel remains.



⚠ Warning

Insufficient fuel may lead to engine starting failure. In case start engine under insufficient fuel may damage the fuel pump.

⚠ Danger

Operate meter during driving is dangerous, hand leaves handle bar may decrease the control for motorcycle.

Right turning indicator" ⇨ "

When pushing right the steering switch on right switch assy. to "⇨" , the indicator "⇨" is on.

 Caution

When the light is off due to broken turning signal or other causes , this indicator flashes more frequently"⇨" for reminding you check the light failure.

High beam indicator" 𐄂 "

When pushing the headlight switch on left switch assy. upwards , the indicator" 𐄂 " is on.

Press down the overtaking light switch on left switch assy. , the indicator " 𐄂 " is on until it releases.

Coolant temperature indicator" 𐄂 "

When the engine coolant temperature is high, the indicator" 𐄂 " on.

 Caution

When the coolant temperature indicator" 𐄂 " is on , which means engine overheated , in this case, continue driving may lead to engine damage.

When the coolant temperature indicator" 𐄂 " is on, in this case, immediate cease of driving is necessary, turn off the engine until the indicator is off, after the engine cooled down, check the coolant and heat radiator.

Fill-up the coolant in case the level is too low.

In case the coolant temperature indicator is on while fan of heat radiator is off,

14 Turn off the engine, go for trouble shooting in specialized service station nearby.

Caution

In case coolant temperature indicator " " is on , check the grids of heat radiator is blocked by silt, clear up if necessary , or the radiation efficiency will be largely decreased.

In case coolant is insufficient or surface of radiator is blocked by silt, do as below :

- Decrease the loading for reducing engine heat.
 - Make the engine in idling during traffic jam, while not turn the throttle for avoiding temperature rise.
 - In case operations above don't work, turn off the engine , and go for trouble shooting in specialized service station nearby
- Oil pressure indicator ".

When the oil pressure is lower than normal range, the indicator " " is on.

When turning the ignition key to " ", the indicator "  " is on; The indicator " " is off after engine started.

Caution

Oil pressure indicator " " shows abnormal oil pressure rather than oil level, so periodic checking for oil level is necessary.

The only way for checking oil level is by viewing through oil view window.

Warning

In case the oil pressure indicator "  " is on after engine started, the engine will be damaged due to low oil pressure and poor lubrication. In this case, cease driving, turn off the engine, and check the oil level.



This indicator reminds you fill-up the fuel

Caution : Insufficient fuel may lead to engine starting failure, in case ignition continued, the engine may be damaged

Use up all the fuel is not allowed, keep the minimum fuel is necessary.

Minimum fuel: Not less than 2L

Issues need pay attention to during fuel filling-up

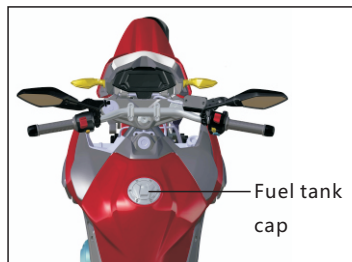
Turn the ignition key clockwise for opening fuel tank cap.

After filled-up, return the cap, and press down for locking the cap

In this case, the key could be pulled out.

Wash the cap by high pressure water is not allowed for avoiding water entered fuel tank.

Please use unleaded or low-lead gasoline above 92#.



Fuel tank cap

Auxiliary fuel tank:2.0L



①油位 ②燃油箱口

Fuel tank:17.2L

⚠ Caution

·Fuel corrodes the paint which makes color fading. In case fuel remains on paint surface, wipe it up

·Fuel may expand under high temperature, too full the fuel tank may lead to high internal pressure which produce fuel tank distortion or fuel overflow.

Fuel filled up to bottom of fuel tank port is not allowed.

⚠ Danger

Turn off the engine when filling-up fuel,
and close to heat producer is not allowed.

Insufficient oil pressure



This indicator is on means too low the oil pressure. In this case, stop and cease the engine.

Performance requirement for lubricant. The only way for confirm the oil level is viewing through oil view window.

Oil indicator on means too low the level. Check oil level in engine, and fill-up if necessary

In case the oil indicator is on while oil level is normal: Other causes may also lead to the oil warning indicator be on, in case going on driving, these causes may damage the engine. In case the indicator is on while the oil level is truly normal, cease driving.

Too high the coolant temperature



This indicator is on means too high the coolant temperature, when engine overheated, going on driving may damage the engine.

You shall follow instructions below:

Too low coolant level, in case is really this cause, fill-up the coolant.

Fan failure: In case the indicator is on while the fan doesn't work, go for trouble shooting in specialized service station with authorization nearby.

Insufficient coolant

If it is possible, reduce the loading for cooling engine. When under the traffic jam , make the engine under idling status without turning the grease grip for avoiding temperature rise due to rotation increase.

In case coolant temperature rises frequent, go for trouble shooting in specialized service station with authorization nearby.



This indicator is on means EFI system failure, going on driving may lead to ignition or fuel supplying failure.

Please turn off the engine and ignition switch,

and then re-start, in case the indicator goes off, go on the driving; In case the indicator is still off, go for trouble shooting in specialized service station nearby

Emergency indicator



Function of emergency indicator: Four turning signals flash at same time.

USB Power interface " " "

This meter equipped with integrated USB power interface with output specification of : 5V 1A.

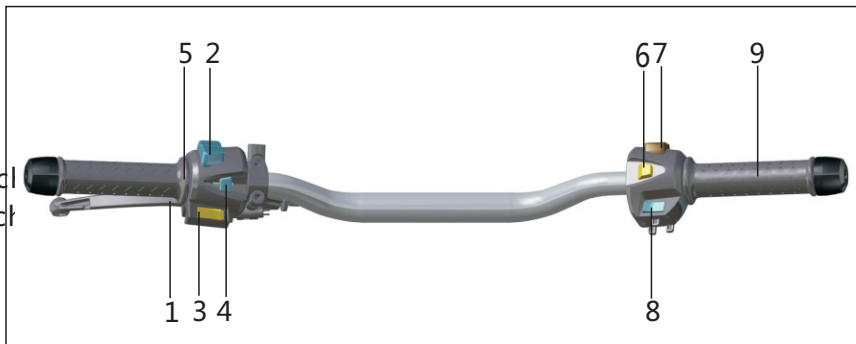
The water proof cap of USB power interface is with mark " ". Use the USB power interface from left to right.

⚠ Warning

Use self-prepared charging line when this function is needed,
After used, well cover the water-proof cap for preventing water
or dust enter the USB power interface to decrease working-life.

Handle bar switch assy.

- 1.Clutch switch
- 2.Headlight dimmer switch
- 3.Horn button
4. Turning signal switch
- 5.Overtaking indicator switch
- 6.Emergency indicator switch
- 7.Ignition switch
- 8.Electrical starting button
- 9.Front brake switch



Headlight dimmer switch

When turned the dimmer to  "时", the high beam is on, while the corresponding indicator  the meter is on,
When turned the dimmer to , the low beam is on, while the high beam and its indicator  are off.

Warning

Headlight could be on before engine starting, which depends on battery.
Ignition lock is connected for long time before engine starting is not allowed.

Horn button 

When pressed down this button , the horn works.

Turning signal switch

When pushed turning switch on left switch assy. to left , the rear and front left turning signal are on, and its corresponding indicator  on meter is also on.

When pushed turning switch on left switch assy to right , the rear and front right turning signal are on, and its corresponding indicator  on meter is also on;

When the turning switch on left switch assy. pressed inwards, the turning signal and its corresponding indicator on meter are all off.

Overtaking indicator button  "PPAS"

When pressed down button  "PPAS", the high beam is on, while its corresponding indicator  " on meter is also on", and restored after releasing the button.

Warning button 

When pressed down button , all the turning signals and their indicator on meter are flashing.

In case there is emergency or accident, use the warning indicator.

Ignition switch

When pressed the ignition switch to , the circuit of engine starting cut down, the engine is unable to be started.

When pressed the ignition switch to , the circuit of engine starting connected, the engine could be normally started.

When the engine is started, press the ignition switch to , the engine goes off.

Ignition switch is the fastest and easiest way for turning off the engine.

Danger

In case press the ignition switch to  during driving, it may lead to rear wheel lock-up and motorcycle turnover.

Operate ignition switch during driving is not allowed.

Electrical starting button , when pressed it  down, the engine starting circuit connected, and begin to starting.

Caution

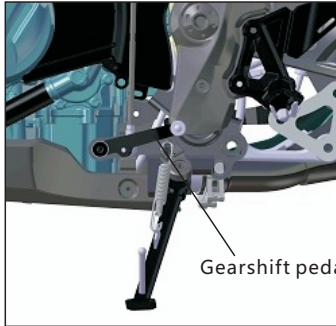
This motorcycle is designed with interlock switch between ignition and starting circuit, and also side stand ignition, and engine could be started only in conditions below. When engine is on neutral gear "N", the ignition and kill switch are on .

Engine is not on neutral gear, ignition and kill switch are on , pick up side stand, and firmly grip the clutch lever

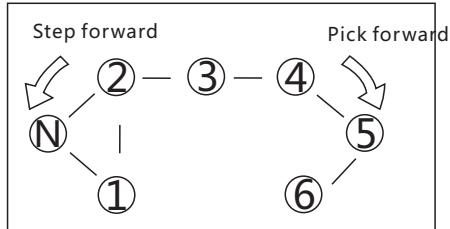
Front brake lever

Firmly grip this lever, the front wheel braked, while the rear brake indicator is on.

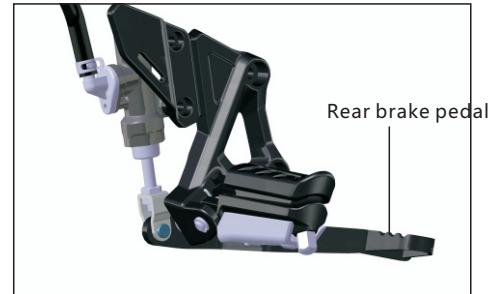
Gearshift pedal



The speed transmission of this model is with 6 gears, and gears change as below :



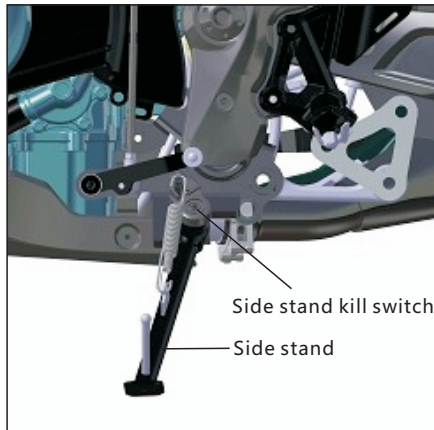
Rear brake pedal: Step down the pedal ,
Rear wheel brakes, while its light is on.



Side stand

The parking system of this motorcycle is designed only side stand.

Side stand kill switch is a design of safety ,
which is a part of circuit of engine starting.



Warning

- 1 :** In case the parking ground is rough or soft, the motorcycle is unable to steadily park, so, parking shall be on solid and flat road.
- 2 :** In case parking on inclined way could not be avoided, put the head face to uphill, and lay the engine on 1st gear for decrease the possibility of motorcycle turnover due to side stand turning.
- 3 :** The side stand designed more for motorcycle own weight, so rely on motorcycle is not allowed, or the side stand may distort due to overweight.

Caution

- 1 :** When the side stand working and holding the motorcycle, the engine could be started when it is in neutral gear; In case the engine is not in neutral gear, the engine could not be started.
- 2 :** When the side stand is completely picked up, firmly hold the clutch lever, the engine could be started in any gears position; When the engine is started, lay down the side stand and the engine goes off.

Adjustment before driving

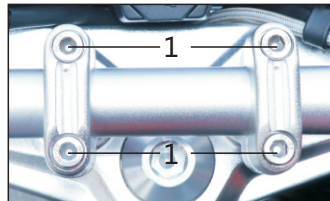
Adjustment of handle bar

Adjust the handle bar to suitable position in relation to your stature and driving posture, in case adjustment is needed, ask VOGÉ dealer if possible.

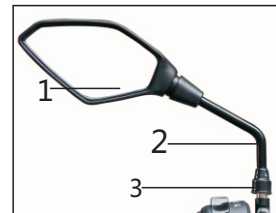
Loosen the bolt 1

Finely turn the handle bar to suitable position

Lock the bolt 1



Bolt locking torque : 25Nm



Nut 3 locking torque : 40Nm

Adjustment for back-view mirror

Adjust the back-view mirror to correct position in relation to your stature and driving posture.

Body of back-view mirror 1 could be adjusted by hand directly.

Loosen nut 3 for adjusting mirror rod 2 by tools in motorcycle, then screw up the nut 3.

Warning

After adjustment of handle bar finished, please repeatedly turn the bar to left and right limit for confirming interference with fuel tank, in case it exists, re-adjust to interference eliminated, or the control for motorcycle will be influenced.

Danger

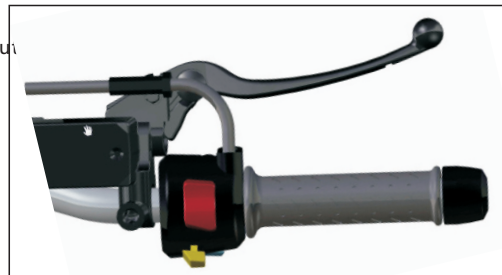
Adjustment of back-view mirror may decrease your control on motorcycle, so, adjustment during driving is not allowed.

Adjustment for front brake lever

- Adjust distance between the lever and throttle grip by adjustment button
- This distance has 5 positions for adjusting, shown as below :
 - Push the lever forwards when adjusting
 - Turn the adjustment button to the position you need.
 - Loosen the pushed lever for finishing the adjustment.

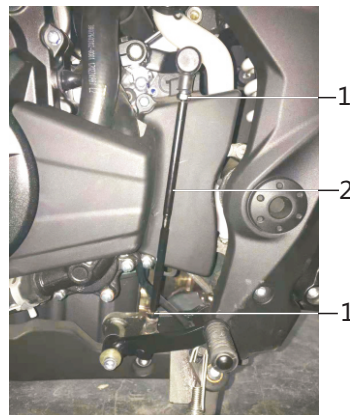
Danger

Adjust the front brake lever during driving is dangerous, which decrease your control on motorcycle.



Adjustment for gearshift pedal

- Driving under various road conditions, the gearshift pedal is able to change the speed and traction force of motorcycle.
- Rod of gearshift pedal is adjustable for suiting your driving habit.
 - Loosen 2 hex. nut which connected and locked the connective rod of gearshift pedal
 - Then turn the connective rod2 of gearshift until the pedal reached suitable position
 - Finally, lock the hex.nut.



Adjustment for rear brake pedal

·Please keep the suitable height for rear brake pedal, too high the height may lead to step on the pedal and frequent friction between the pads and brake disc which damage them.

·For keeping the reliability of brake
the free travel of rear brake pedal shall be within 25-35mm, in case the travel is incorrect, adjust as below

–Remove the split pin1

–Remove the pin shaft 2

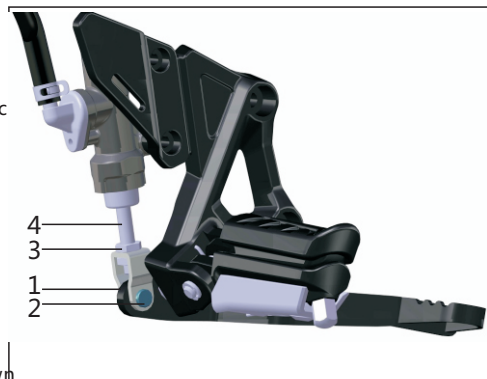
–Loosen the nut 3 on adjusting screw rod

–Turn clockwise or anticlockwise the connective piece 4 on adjusting screw rod

–Turn the pedal clockwise it may raise, otherwise turn anticlockwise it may down

–Lock the nut on adjusting screw rod when the brake pedal adjusted to the suitable height

–Re-assembly is just opposite to dis-assembly.



Free travel of rear brake pedal : 25-35mm

Locking torque of nut on adjusting screw rod : 18 Nm

Danger

·Replace for new split pin when re-assembling.

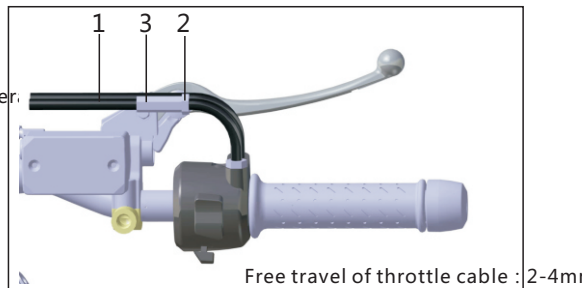
·After re-assembled, repeatedly press and release the brake pedal for confirming the pressure point,

·In case the pressure point is unable to be clearly felt, please ask dealer with authorization.

·Incorrect adjustment may lead to interaction between friction pad and disc which damage them.

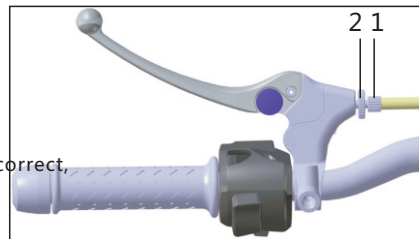
Adjustment for throttle grip

- Throttle grip controls the engine rotation.
- Turn the grip to driver direction is acceleration, to opposite direction is deceleration.
- Adjust the gap of throttle cable.
- Remove the rubber jacket 1
- Loosen the locking nut 2
- Turn the adjustor 3 , which adjust the gap of throttle cable within 2-4mm.
- Lock the nut2
- Re-assemble rubber 1



Adjustment for clutch lever

- When starting engine or shifting gear, firmly hold clutch lever for separating the friction plate and cutting the power transmission.
- The free travel at the end of clutch lever shall be within 5-8mm, in case it is incorrect, adjust as below
- Remove the rubber jacket
- Loosen the locking nut 1
- Turn the adjustor 2 for ensuring the free travel is within 5-8mm.
- Lock the nut 1
- Re-assemble the rubber jacket



Warning

Too big the free travel of clutch lever may lead to failure and abrasion on clutch and gearshift device.

Caution

- After adjusted the gap of throttle cable, it shall ensure the automatic return of control grip without idling rise.
- After adjusted the gap of throttle cable, turn the handle bar to left and right limit, which without idling rise

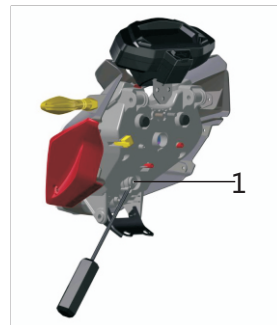
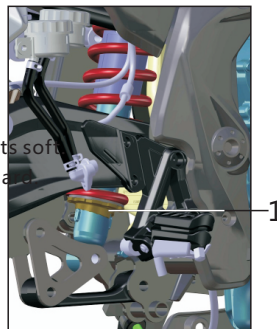
Adjustment for rear shock absorber

Adjust rear shock absorber is for suiting different drivers, loading, driving habit or road environment.

·The pre-pressure of spring is adjustable.

–Adjust up to down, and turn anticlockwise the adjustor1, the spring gets soft

–Adjust up to down, and turn clockwise the adjustor 1, the spring gets ha



Adjust the height of headlight

·Headlight shall have a suitable height in any loading of shock absorber.

·For ensure the safety in night, adjust inclined angle of light beam for meeting the various loading of motorcycle.

–Adjusting screw is at the rear part of headlight, and adjust by phillips screwdriver in relation to figure 1.

–Turn clockwise is adjusting the light beam to down.

–逆时针旋转灯光调高。Turn anticlockwise is adjusting the light beam to up.

⚠ Caution

Adjustment for spring of rear shock absorber may need specialized tools, which could be supplied by VOGÉ dealers.

⚠ Danger

·不适当的调Freely adjust rear shock absorber is not allowed, unsuitable adjustment may decrease your control on motorcycle.
·In case the adjustment is needed, ask the VOGÉ dealer.

⚠ Danger

In case you are unable to confirm the height of light beam, ask the VOGÉ dealer.

Running-in of new motorcycle

Running-in period has a large influence on motorcycle working life and fuel consumption, so please carefully read the user manual before driving(Correct using within initial 1000km may let you enjoy the driving).

Grinding-in of engine

- No matter hot or cold, the engine idling is necessary before starting for ensuring sufficient lubrication.
- During the grinding-in period of 0-500km, engine rotation over 5000r/min is not allowed, while 7000r/min is not allowed within 500-1000km.
- During the grinding-in period, frequent change for gearshift and rotation speed is necessary, long stay on one gear position or rotation speed is not allowed.
- During the grinding-in period, engine working under low and fixed speed(Low loading) may increase abrasion and poor matching, in this case, even speed under low loading for long time shall be avoided
- During the grinding-in period, sudden acceleration or brake shall be avoided except emergency situation.
- Driving out of gear is not allowed, shift to the low gear before deceleration to make engine in suitable status.
- Long journey during grinding-in period shall be avoided to let engine have a sufficient rest.

Grinding-in of new tire

- The surface of new tire is very smooth, which makes danger driving in bending road or under high speed. For getting the strongest road holding, tire grinding-in is necessary.
- During the initial 200km, grinding-in could be done in bending road under low speed until tire crown grinded in each angle.
- Protusion on tire crown may lead to accident, and the best way for avoiding is tire running-in.

Grinding-in of brake system

During the initial 500km, the new brake disc is under initial working status without the best friction performance, for compensating the lost brake efficiency, stronger force on brake lever is allowed.



For the best grinding-in of tires, sudden acceleration, turning and braking shall be avoided within initial 200km.

Motorcycle driving

Check before driving

The accident may happen in case there is no check before driving, so, please check as below:

·Steering system

Handle bar turn freely without jamming

Steering stem without runout or flexibility

·Throttle

–Throttle cable with correct gap

–Throttle operate smoothly without jamming

·Brake assy.

–Brake lever and pedal operate normally

–Liquid position is correct in brake oil cup

–Pressure point on braking process is clear

–No water or greasy dirt on brake disc or pads

·Shock absorber

–Press it and return smoothly

·Transmission chain

–No damage or abrasion

–Tightness is correct

·Tire

–The tire is with correct air pressure.

–Depth of tire tread is enough without abrasion

–Tire surface is without crack

·Oil in engine

–Oil level is correct

·Cooling system

–Position of coolant is correct

–Coolant is without leakage

·Light

–Headlight/Front position light
, taillight/brake light, turning signal
, plate light and meter light work normally.

·Indicator light

–Control by switch assy.,high beam indicator,
neutral indicator, and turning indicator
work normally. Oil pressure indicator,
EFI failure indicator water temperature
indicator, and oil level warning indicator
are not on or flashing after engine started

·Horn

–Work normally

·Engine ignition switch

–Work normally

·Side stand

–Normally pick up and release

–Interlock function with ignition switch is normal

·Back-view mirror

–Seat on the motorcycle and keep it vertical

View the object clearly with distance of 10m
and width of 4m behind motorcycle from mirror.

–In case not, adjust the angle of back-view mirror

Engine starting

The side stand is laid down.

Check to ensure the kill switch is on" .

Insert the key into ignition switch and turn to " .

Confirm the engine is on neutral gear, then the meter indicator "N" will be on.

All the steps above are finished, firmly hold the clutch lever by left hand for ensuring safety and press electrical starting button"  ", at this moment, turn the throttle grip is unnecessary.

Immediately loosen the electrical starting button after engine started.

When the engine started, make engine in idling for completely pre-heated.

This model is designed with interlocking between ignition and starting circuit, and the engine could be started only under the conditions below :

- Engine is in neutral gear, and ignition and kill switch is on position"  ", and firmly hold clutch lever for ensuring safety.
- Engine is not on neutral gear, and the ignition switch and kill switch are on.
- Pick up side stand, and firmly hold the clutch lever

Danger

The emission of motorcycle is with CO, which is a gas without smell and color but poisonous.
Long idling in the place without sound ventilation is not allowed, for preventing poisoned.



Warning

The colder the weather the more time the pre-heating is needed, sufficient pre-heating produce better lubrication for decreasing engine abrasion. Long idling is not allowed , poor heat-radiation may damage engine or make engine overheat.
Under cold weather, for starting engine, suitably turn the throttle grip while pressing electrical starting button is permissible.
The lubricant works only when engine is started, in this case, push motorcycle for a long distance is not allowed.
After the engine started, check the indicators on meter are abnormally on or flashing, in case it is, turn off and check the engine.

Driving on the road

- Get on motorcycle from left side and ride on the seat.
- Pick up the side stand.
- Adjust the motorcycle vertical to ground, and upright the handle bar and let wheel forward.
- Firmly hold the clutch lever.
- Slowly turn the throttle grip along accelerating direction, while slightly release the clutch lever which makes clutch mesh, then the motorcycle started.
- Wear helmet, gloves, driving boots, protective cloths and trousers before driving even for short distance driving.
- When driving under high speed, the factors below may have bad influence on driving.
 - Unsuitably adjusted spring of shock absorber –The loose cloths
 - Overweight or imbalanced loading are bad for driving.
 - Little alcohol or drugs is also bad for your feelings and reaction.
- Drunk and drug driving are not allowed.



Caution

This motorcycle equipped side stand/ignition interlock switch, in case the engine is on neutral gear, lay down the side stand and then the engine goes off.



Warning

Starting from high speed gear is not allowed, or the engine may damage, start motorcycle from 1st gear.

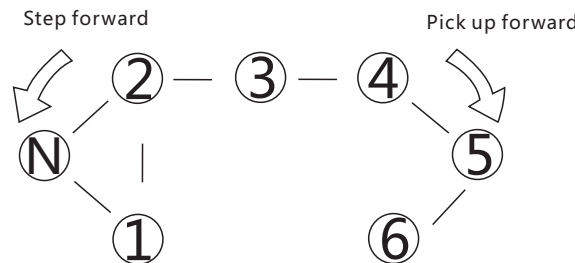


Danger

·Before motorcycle starting, make sure the side stand is on the topmost position, or the accident may happen when the motorcycle turning left due to the side stand touch ground.

Speed transmission device

- Speed transmission device makes the engine steadily work during normal rotation speed.
- Transmission ratio is designed in relation to engine performance, choose suitable gear according to driving conditions, high running speed in low gear position is not allowed.
- For smooth gearshift and decreasing impact on rear wheel, use with clutch, before shifting to low gear position, reduce the driving speed or raise engine rotation speed first.
- For smooth gearshift and decreasing impact on rear wheel, use with clutch, before shifting to high gear position, raise the driving speed or reduce engine rotation speed first.



Warning

Semi-clutch is not allowed in any time. Sliding while firmly holding clutch lever in any gear position is not allowed.

Braking and parking

- Reduce the driving speed before braking, and then use front and rear brake assy. at same time.
- Get into low gear position when the driving speed is low enough, and then firmly hold clutch lever.
- Get into neutral gear and then the motorcycle completely stopped.
- When the front brake assy. working, the body inclines forward, which makes more weight move to front wheel and the front wheel brake is more reliable, in this case, front braking is more powerful and easy.
- When you driving on mountain area, use rear brake only is dangerous, which under limit situation, the brake assy. may over heat and badly damage, in this case, rationally use front and rear brake assy., and also speed reducing function of engine.
- Driving in rain or water may lead the brake disc wet, which decreasing its performance, re-use after it dried up.

ABS system

1. Under normal cases, when braking, loosen throttle grip first, then firmly hold handle bar, and the brake. When the running speed reduced, for avoiding engine off, grasp the clutch and get into low gear position.
2. Reduce running speed and brake before passing the bending way. When passing bending way, keep even speed, during which slight braking is permissible, but sudden braking is now allowed.
3. When driving on road with snow, ice or water, reduce speed in advance and drive in caution.
4. Judge the road situation in advance for avoiding sudden braking.
5. When meeting emergency, swiftly loosen the throttle grip and firmly hold handle bar for braking by full force.

Caution

This motorcycle equipped falling down switch, when the vehicle fell down, the engine goes off automatically, and after held upright, turn on and off the ignition key, the failure could be removed, and then normally start.
The model with ABS system, when it in full force braking, the feeling on brake lever and pedal is obvious and with frequent rebound but don't worry, this is normal, firmly hold the handle bar!

Danger

When decelerating under high speed, use front or rear brake only may bring motorcycle out of control or skidding, in this case, evenly use front and rear brake is necessary.

Warning

- After long driving, park the motorcycle in place the kids hard to close up for preventing scald due to the high temperature of engine
 - Parking on soft ground is not allowed for preventing falling down.
- In case parking on gentle slop, get into low speed gear position, and make the head face to uphill for preventing the side stand turn and falling down.
- Parking or driving on inflammables are not allowed due to the three-way catalyst in muffler works with high temperature and easy to inflame the materials.

Fuel

- The fuel consumption when you knew from purchasing is the least one under an even speed, which is largely different with the actual operation, in this case, you may found the actual fuel consumption is higher:
 - The operations below may decrease fuel consumption under correction driving:
 - The driving shall be stable and soft, reduce the frequency of braking, and restarting may use more fuel.
 - Driving in downtown area is the worst for fuel, traffic jam means frequent starting.
 - The motorcycle usually drive under economic speed which is 90Km/h, accelerate from 100Km/h to 140Km/h may raise the consumption by 20%.
 - Short distance driving shall be avoided. The first Kilometer after started use the double fuel due to the engine hasn't reached the best working temperature
 - Insufficient air pressure in tires may increase rolling resistance of wheels which increases the fuel consumption.
 - Periodic inspection and maintenance is also important for fuel saving.
- Except the reasons above, your driving technology goes up with the mileage, for more interesting, you may make more sudden acceleration or deceleration, in this case, the fuel consumption may rise due to the change of your driving style compared with former soft and stable driving.

Fuel evaporation

When the fuel evaporation system failed, please contact VOGÉ service station. Refit the fuel evaporation system is not allowed, or the fuel evaporation emission standard could not be met. After removal and maintenance, check the connection of pipeline for ensuring there is not or plug at the joint; Rubber tube is without squeezing, crack or damage. Fuel steam in fuel tank is released to carbon canister through desorption tube, and when engine is stopped, the active carbon in canister absorb the fuel steam; and when the engine working, the fuel steam is released to combustion chamber for preventing pollution by direct emission of the fuel steam. Meanwhile, the desorption tube has the function of balancing air pressure in fuel tank, and when the air pressure in fuel tank is lower than outside, compensate the pressure by air tube of canister and desorption tube; In this case, keep pipelines unblocked without squeezing, and ensure the correct assembly of turnover preventing valve, or the fuel tank may distort, crack or damage, also to other parts.

Operating principle of fuel evaporation control system :

- (1)When the fuel in tank was heated, the fuel evaporated, and get to the end of canister though turnover valve and absorbed.
- (2)When the inclining is more than 60° , the valve closed, and the fuel is unable to reach canister.
- (3)Fresh air flow from A end of canister to PURGE end which bring fuel steam to throttle valve and join combustion in engine through air inlet tube.

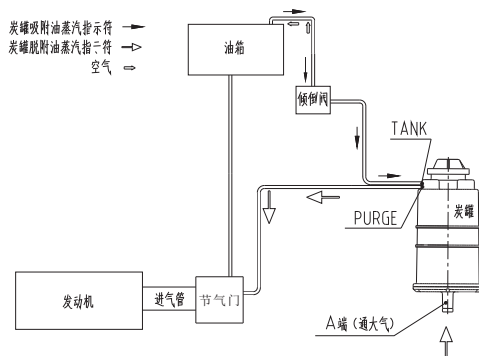


Figure of fuel evaporation system connection

Three-way catalyst

This motorcycle is equipped with three-way catalyst which enable decrease harmful ingredient.

Poor working of engine may damage the three-way catalyst, so the action below need be observed:

- Make periodic maintenance in relation to “Quality guarantee manual”
- When the engine worked unsteadily, contact VOGÉ dealer on time.
- When the fuel indicator is on, fill-up fuel on time, too low the fuel level may lead to poor fuel supplying
- Start the engine by pulling or pushing motorcycle is not allowed.
- Cut down ignition coil only when in idling speed.

Trouble shooting

Content of trouble shooting helps you find out common problems. But this is basic judge, in case it doesn’ t work, send the motorcycle to VOGÉ dealer.

Engine starting failure

Neutral gear, and the kill switch is on.

In gear, the kill switch is on, firmly hold clutch lever, and the side stand is picked up.

Check and confirm the fuel is enough.

Check and confirm the power of battery is enough.

Difficult engine starting

- Confirm if in cold temperature, in case it is, slightly turn grease grip when starting
- Insufficient power in battery
- Too thick the oil, judge and decide to replace the oil

Powerless engine

- Confirm the element of air filter is clean.-Check the fuel filter is blocked.
- Check if it is in high altitude area.
- Incorrect checking or adjustment may damage your motorcycle and unable to find out the failure cause. This kind of damage is out of VOGÉ after-sales service. In case operation is unknown, contact VOGÉ dealer.

Warning

Three-way catalyst is fragile, use unleaded gasoline, the gasoline with lead may damage three-way catalyst and other important parts.

Danger

Parking or driving on inflammables is not allowed, for example the dried grass, the three-way catalyst works with a very high temperature which easy to inflame the materials.

Checking and maintenance

Tool set

Tool set is laid in its box under passenger seat, open the seat lock and remove the seat, the tool box could be seen. When used in bad conditions, such as after washed or in rain, make corresponding lubrication. For driving safety, sound lubrication can prolong the working life.

Lubricating point of routine checking:

- Clutch lever shaft.
- Brake lever shaft.
- Brake pedal bearing.
- Side stand shaft and side stand spring hook.
- Main and auxiliary footrest shaft and their returning spring.
- Transmission chain

Caution

Coat with lithium lubricant except the transmission chain.

Battery maintenance

This model equipped with free-maintenance battery, periodic checking for electrolyte is unnecessary, but check power charging periodically is needed.

Caution

If it is possible, charge for 30 minutes before the first using can prolong the working life of the battery.

Power charging for battery :

In case the battery voltage is lower than 12.6V, power charging is suggested.

- Power charging is by stable DC source.

- Charging voltage DC (14.5 ± 0.3)V ; Charging current is not more than 1.2A;

- Charging hours is within 6 to 8, charging current more than 1.2A is not allowed;

- Overcharging may shorten the working life of battery which is not allowed.

- Cut down all the circuit before charging.

- Periodically check the terminals or wire joints are clean, in case corroded or oxidated, clean up on time

- In case long time without driving, cut down the negative terminal of battery.

- Without driving for more than a month, monthly power charging is necessary. Battery without charging for a long time may lead to automatic failure.

- Power charging needs the suitable charger and strictly follow its user manual.

- After charging finished, immediately cut down with the charger.

- Complete charging may need a long time.

- Proper disposal for worn-out battery or electrolyte is necessary, for which, pollution is not allowed.



Battery may produce inflammable hydrogen, keep far away from heat source or spark.
Wipe battery by dry cloth may produce ESD spark, so use the wet one for avoiding ESD.

Assembly and disassembly of battery :

- Turn off ignition key before assembly or disassembly.
- Remove the negative terminal before disassembling battery, and then remove the positive terminal.
- When assembling battery, install positive terminal first and then negative one.
- When the battery re-installed, turn on ignition switch for 1 minute and then start engine for initialization of electric equipment.
- Long time parking without cutting down the battery may lead to electrical parts(such as clock) use up the power, which the power is insufficient when need use battery.
- In case parking more than 1 month, cut down the connection of battery or charge before driving.

Warning

Oppositely lay the battery is not allowed, for which the electrolyte may leak from vent hole.

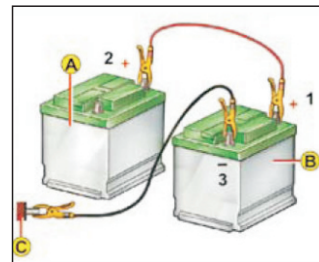
Use of external power supply

- When the battery power failed starting the engine, external power is usable.
- When external power is using, the special spring clip of isolation is needed for preventing short circuit or spark over.

Battery A is the one on motorcycle, while battery B is the external one.

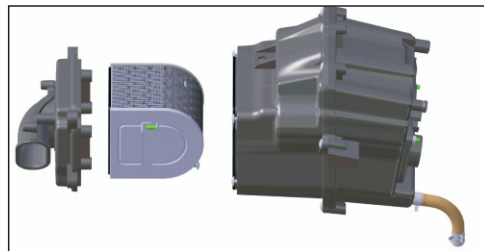
Positive terminal 1 of external power B connects the positive terminal 2 of battery A on the motorcycle, and the negative terminal 3 connects the metal body of motorcycle for contacting ground. Start the engine, in case failed, wait for minutes until next starting for protecting engine and battery.

The engine need work for minutes before removing external power. Cut down negative and ground wires, and then positive wire.



Maintenance for air filter

- Air filter located under fuel tank. In case air filter is blocked, the resistance of air inlet may increase and lead to power decrease and fuel consumption rise.
- Driving under dusty condition need increase the element cleaning and replacement.
- Cleaning and replacement of element of air filter:
 - Remove the seat
 - Remove the battery
 - Remove the 4 screws on cover of air filter body, and draw out as a whole.
 - Remove the 4 bolts connecting the element before it disassembled.
 - Carefully clean the element by compressed air.
- The broken air filter or its element may lead to dust enter the engine to be damaged, in case broken, please replace.
- Incorrect assembled position may lead to the dust bypassing the element and enter the engine, then damage the engine, in this case, correct assembly is necessary.



Caution

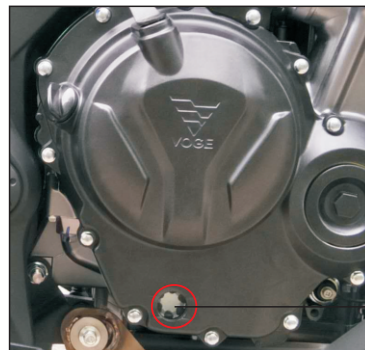
When cleaning the element, the air shall be blown from the side with metal screen. In case below from another side, the dust may retain in the gaps and decrease the effect of clean.

Maintenance of engine oil

Oil ensures not only engine's internal lubrication but also cooling down, and helps its sealing, so the maintenance for oil is important.

Check oil level

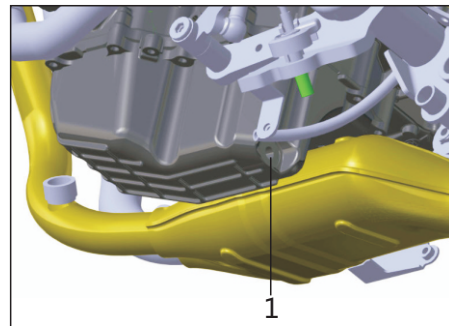
- Oil filling-up and viewing are both on the right cover of engine, refer to figure 1.
- Way for checking oil level:
 - Engine is cold.
 - Make sure the motorcycle is upright.
 - View the oil level from oil view window.
 - The correct level should be within the upper and lower scale lines of view window.
 - In case the oil level is higher than the upper scale line, drain the oil.
 - In case the oil level is lower than the lower scale line, fill up oil.
 - No matter drain or fill-up, re-check the oil level after the operation above finished.



·Oil drainage :

- In case too high the oil level, remove the oil drainage bolt by socket spanner (whose position shown as below figure 1), which located on the left lower of engine.
 - Drain out suitable oil and screw up the oil bolt.
- Too low the oil level may damage the engine, which is the same to high level.

Keep the correct oil level.

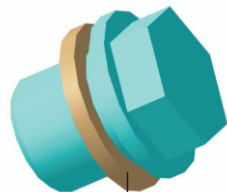


⚠ Caution

The oil may expand with temperature rise, so the oil level changes with temperature.
The oil level goes higher when the engine is hot, and lower when it is cold, both are normal.
Make sure the motorcycle is upright(vertical to ground) when checking oil level.

Replacement of engine oil

- Replace oil when maintenance period reached.
- Replace oil when the engine is hot for completely drain off the old oil.
- Way for replacement :
 - Make the motorcycle upright by auxiliary parking rack.
 - Turn anticlockwise and remove the cover of oil filling-up
 - Lay one oil plate under oil drainage bolt, and remove the bolt by tools, then drain off the old oil.
- Lock the oil drainage bolt before filling-up new oil.



Copper sealing washer

Warning

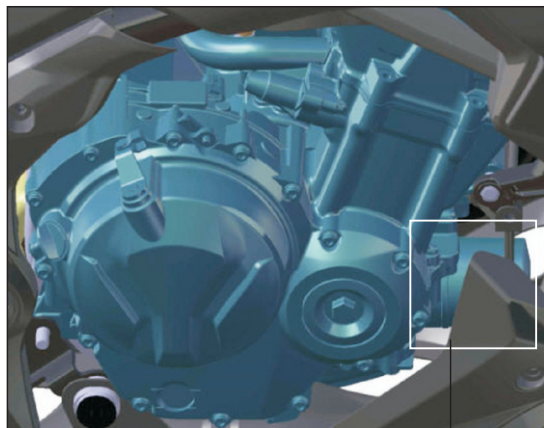
When the oil drainage bolt re-assembled, replace for new bolt and copper sealing washer, in case use the old one, the oil leakage may occur.

Danger

The oil could be completely drained off when the engine is hot, but the hot oil and muffler may lead to scald, so before drainage, wait for the drainage bolt and muffler cooled down.

Replace oil element

- Replace oil element in each maintenance period.
- Replace oil element shall be done after engine oil drained off.
- Remove lower fairing cover.
- Inlay one oil-absorbing sheet or cotton cloth under the oil element cover for preventing oil leak to engine surface after the cover removed
- Remove the oil element by special tools in the front of engine
- Remove the element and drain off the oil.
- Replace by new oil element.
- Re-assemble the oil element, and confirm the correct location of o-ring on element cover when installing, or may lead to oil leakage.



Oil element

Warning

Check the integrity of o-ring on element cover, replace for a new one if necessary. Replace for wrong oil element may damage the engine, use OEM parts of VOGÉ.

Filling-up engine oil

- Confirm the oil element is replaced and its cover is assembled.
 - The oil drainage bolt and the gasket are replaced and assembled.
 - Fill-up new “VOGE engine oil” by 2700ml. into the oil filling port, and then screw up the cap.
- Start the engine by various rotation speed and run for 5 minutes, when the engine is working, check the oil leakage on assembled or disassembled parts.
- Finally check the oil level.

Caution

Oil type : 10W/40 -SG Oil filling amount : 2.7L
In case the temperature is less than 10°C, use oil 5W/30 -SG .
Dispose the replaced old oil and element in environmental-friendly way,

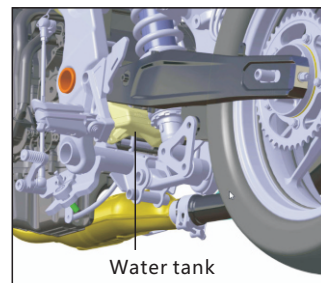
Warning

Wrong type of oil or bad quality one may damage the engine, EFI system, spark plug and internal catalyst, and the using is not allowed.

Check and maintain the coolant

Coolant is able to bring and radiate heat for high temperature parts and keep the working temperature

- Checking and filling-up are be done at expansion water tank.
- Turn off engine first.
- The coolant may expand when it is hot, so check its level when the engine is cold.
- Make sure the motorcycle is upright.
- View the coolant level in water tank for confirming the level is between LOWER and UPPER.
- In case the coolant is under scale line LOWER, fill-up from coolant port.
- Too high the coolant level may result in expansion when the temperature rising, in this case, the hot coolant may inject out, for avoiding scald, over-filled up is not allowed.
- Frequent coolant filling-up indicates the coolant system is with error, in this case ask VOGÉ dealer for trouble shooting.

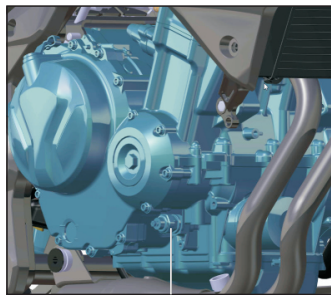


Warning

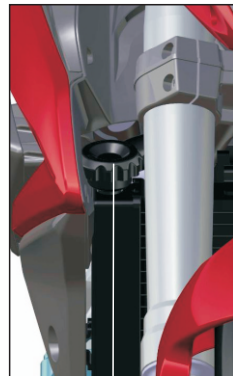
In case the coolant in expansion water tank is completely dried up, filling-up is not allowed, in this case, exhaust the air already entered water tank first, and this work shall be done by VOGÉ dealer.

Replace the coolant

- Drain off the coolant :
 - Keep the motorcycle upright by special kick stand.
 - Lay a fluid plate under the engine.
 - Remove the water drainage bolt. Because the whole heat-radiation system is connected, so all the coolant could be drained off.
 - After old coolant drained off, re-assemble the water drainage bolt.
- Fill-up the coolant :
 - Coolant need be filled from ports on both heat radiator and water tank :
 - Open the cap on heat radiator(refer to figure 2), and fill-up
 - View the coolant is full from the radiator cap, while pinching the water tube to exhaust the air until the coolant is full, then screw up the cap.
 - After the radiator cap screwed up, run the engine for 30s to make the coolant spread to each parts need to be cooled.
 - Turn off the engine, open again the radiator cap after the engine cooled down, then check the coolant is full, in case the level goes down, fill-up again, then screw up the radiator cap, repeat this action 2 or 3 times if necessary.
 - Finally remove the rubber cap of expansion water tank(refer to figure 3), fill-up the coolant level between the scale lines LOWER and UPPER



Water drainage bolt



Fill-up port

Warning

Fill up with water is not allowed, or the coolant system may damage. Mixture of different types of coolant is not allowed.

- In the case of air temperature is lower than the mark label, use coolant with higher performance.
- After VOGÉ tested, the coolant shall be the glycol one with ice point of -45°C. Please buy from VOGÉ dealer only.

Caution

- For keep the coolant performance, replace each 2 years.
- Coolant type: Coolant of glycol with ice point of -45°C.
- Coolant filling-up volume:1.5L
- Dispose replaced old coolant in environmental friendly way.

Danger

During the filling-up, after engine started, wait for it cooled down and then open the radiator cap, or the coolant with high temperature inject out may lead to scald.

Maintenance of brake fluid

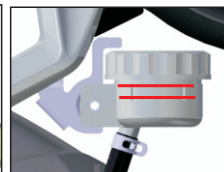
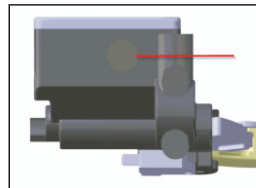
Brake fluid is an important transmission media in hydraulic system, which needs reliable high temperature performance and sound flowing performance in low temperature, meanwhile needs anti-corrosion for protection, so please choose the correct one.

Check the brake fluid

- Too low the level in brake oil cup may result in air entering the brake system which reduce the efficiency, so periodic check is needed.
- Checking and filling-up of brake fluid are done at oil cup of front or rear brake.
- The oil level shall not be higher than the MAX mark, and when the level is lower than MIN mark, fill it up.
- Brake fluid is corrosive which may corrode the surface of paint or plastic parts.

⚠ Warning

When the filling-up is needed, open the oil cup cap by yourself may result in water and air entering, which may largely reduce braking performance, in this case, ask VOGEL dealer for filling-up or replacing.



Types of brake fluid

- When the brake fluid absorbed water or impurities, timely filter or replace, or it may result in insufficient braking pressure and poor performance, which is very important in wet area.
- Brake fluid may go bad after used over 2 years, in this case, please replace on time.

⚠ Caution

Mixture of different kinds of brake fluid is not allowed which may reduce the brake performance due to various ingredient.

Brake fluid type:DOT4

Dispose the replaced old brake fluid in environmental-friendly way.

Maintenance for transmission chain

The transmission chain in this model is oil sealing one, whose pin with o-ring coat with lubricant grease, and the chain is without opening of ring, so the replacement need special tools, in case it is needed, ask the VOGÉ dealer.

Check and adjust the chain before daily driving and confirm the problems below:

- Flexible chain pin -Damaged pin roller -Chain plate rusted -Links turning jammed
- In case problems above were found, contact VOGÉ dealer for trouble shooting.

Abrasion of chain may also wear out the sprocket wheel, confirm problems below:

- Sprocket wheel is over worn-out -The teeth are broken or damaged
- In case problems above were found, contact VOGÉ dealer for trouble shooting.

Caution

When replacing the chain, pay attention to abrasion of sprocket wheel, replace together if needed.
·In case there is no chain oil for oil seal only, use gear oil of SAE90 with high thickness for substitution.

Cleaniness and lubrication

Dust or dirt on chain may influence its working life, so the periodic cleaning and lubrication is needed, because there is o-ring and grease at the pin of chain, so the incorrect washing and lubrication may damage the ring and grease which reduce the working life of chain.

- Use steel brush is not allowed.
- Wipe up water or cleanser immediately after washed, and dry in air for lubrication.
- Use the special chain oil for oil seal and evenly spread in internal and external chain plate. After coated with the oil, wipe up the surplus oil.
- Some chain lubrication oil may damage the sealing ring, please use the ones only for oil seal.

Warning

- Wash chain by water or neutral cleanser.
- Use the solvent of fugacity such as paint thinner or gasoline is not allowed.
- Use cleaner with high pressure for washing the chain is not allowed.

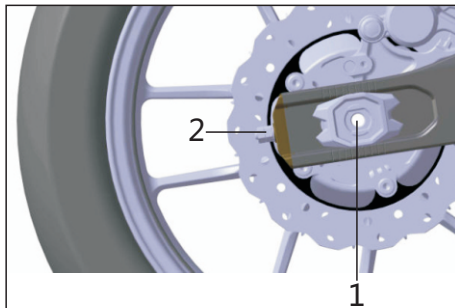
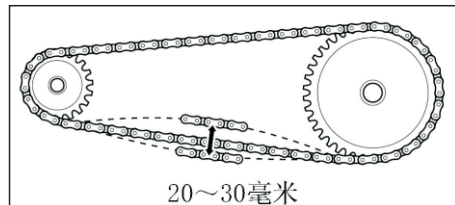
Adjustment for transmission chain

- Too tight or loose the chain are incorrect.
- Too loose the chain may lead to drop off which result in accident.
- Too tight the chain may reduce its working life and increase resistance.

Correct chain tightness is shown as below:

In case your motorcycle failed meeting the demand above, the adjustment is needed, and do as below:

- Keep the motorcycle upright by kick stand.
- Screw off nut 1 on rear wheel axle and adjusting nut 2, and adjust the bolt in relation to chain tightness.
- Too loose the chain, turn anticlockwise the bolt.
- Otherwise, too tight the chain, turn the bolt clockwise, and powerfully push forward and backward the motorcycle for increasing the tightness.
- After adjusted to the suitable tightness, finely adjust bolts on both side, make the mark lines on adjustable piece and rear fork get aligned.
- Lock the nut 1 on rear wheel axle and adjusting nut 2 on both sides.



Locking torque of adjusting nut : 14NM

Locking torque for nut on rear wheel axle : 95NM

The specification of the chain:

Type: 520 Links: 118

Oil seal Chain Link without opening

Danger

This chain adopted the link without opening, use the ones with opening may result in dropping off and accident.

Replace the chain need special tools, poor riveting of links without opening may also result in accident.

Maintenance for tires

The tires contact the ground which is important. Incorrect specification and size may largely influence the performance.

Tire pressure

- Incorrect tire pressure may reduce the working life.
- Too low the pressure may result in hard turning and more abrasion
- Too high the pressure may decrease the contact area with ground and bring motorcycle out of control or skidding
- When in high speed, under the action of centrifugal force, the valve core tend to open. For preventing sudden air leakage, add one rubber cap with metal liner.
- The charging pressure is with direct proportion to tire temperature. In this case, check tire pressure when the tire is with the same temperature with surroundings.



Danger

Incorrect tire pressure may influence driving and result in accident
Overloading may lead to tire failure and bring motorcycle out of control.

Monthly checking for tire pressure at least once.

Under normal temperature, check tire pressure as below:

	Driver	With passenger
Front	220KPa	250KPa
Rear	220KPa	250KPa

Check the limit of abrasion

- The tire is with abrasion mark on its surface.
- The tire is unable to be used when the abrasion mark reached
- The abrasion mark is near TWI logo on the tire edge, which in the water drainage groove on the tire crown, whose with shape of protrusion, when the protrusion worn out, the abrasion mark is reached, and please replace the tire.
- Excessive abrasion may produce penetration on tire and result in accident.



- The operation and ground holding force may largely decrease when the tire tread reached the min. depth.

Repair the tire

- Repair tiny hole on tubeless tire, put a patch internally rather than externally, because when it in high speed, the centrifugal force may lead to patch outside flexible.
- Driving speed more than 80km/h within 24 hours after repaired is not allowed.
- In case the tire side damaged, if the broken point is bigger than 6mm, the repair could not be done.
- Check the tire, in case many damages are found, such as broken, scratch, or abrasion to limit, replacement is necessary.

Replace the tire

- When replacing, tires with different brands, types, tread, and newness are unable to be used
 - The wheels with new tire need checking and correction for dynamic balance, the poor balance may lead to low operation performance and uneven abrasion.
 - The tire side with arrow marked out rolling direction. Turn and use tire along this direction which ensures skidding prevention, increase holding force, decrease noise and prolong working service, which optimize the tire performance.
 - Specified tire is strictly tested which satisfied the most road condition.
- The tires without testing is unable to ensure its suitability and safety.
- Tubeless tire need to be sealed at the joint between wheel rim and tire lip.
 - For avoiding air leakage, the disassembly and assembly of tubeless tire need special machine.
 - This work shall be down by dealers with authorization which equipped necessary tools and experience.

Fuse link

- Before replacing the fuse link, check failure cause and remove the failure first.
- This model adopted electrical box(1, with internal integrated relay) and 1 fuse box.
- All the specification and usage of fuse links are marked with explanation.
- Fuse link for motorcycle power source (30A) : Control EFI system, ABS, and other motorcycle electrical loading(meter, lights), and power charging cuicuit. Spare fuselink : 30A (1-green) 。
- ABS motor power source fuse (25A) : Control motor power supply for ABS
Spare fuse link : 25A (1-white) 。
- ABS fuse for solenoid valve power source (10A) : Control solenoid valve power supply for ABS. Spare fuse : 10A (1-red-in electrical box) 。
- Signal system power source fuse (10A) : Control the meter, light, horn, flasher, side stand kill switch, and starting relay. Spare fuse : 10A (1-red -in electrical box) 。
- Fuse link for EFI system (15A) . Control the power supply for ECU of EFI, oxygen sensor, ECU diagnosis interface, canister solenoid valve, fuel injector and ignition coil.
Spare fuse : 15A (2个-blue-in the electrical box)
- Fuse link for power source of fan (10A) : Control the power supply for fan.
Spare fuse : 10A (1-red-in the electrical box) 。
- Fuse link for fuel pump power source (10A) : Control the power supply for fuel pump. Spare fuse link : 10A (1-red-in the electrical box) 。

Electrical box

F1	EFI power fuse	15A
F2	Oil pump power fuse	10A
F3	Fan power fuse	10A
F4	Spare fuse	15A
F5	Spare fuse	10A
F6	Spare fuse	15A
F7	Spare fuse	10A

Fuse box

Spare fuse	Motorcycle power fuse
30A	30A
	Motor power fuse
	25A
Spare fuse	Solenoid valve power fuse
25A	10A
	Signal power source
	10A

- Fuse link for fuel pump power source (10A) : Control the power supply for fuel pump. Spare fuse link : 10A (1) . Power supply for fan. Spare fuse link : 10A (1) .
- After checked or replaced, well cover its cap, or the electrical failure may occur in rainy days or after washing.

 Caution

In case the fuse link usually blows out, which indicates failure in electrical system, please timely contact VOGÉ dealer.

 Danger

- Please use specified fuse link, substitution such as iron wire or aluminium foil is not allowed.
- Fuse links out of specified range is not allowed, or may seriously damage the electrical system even catch fire.

Brake pads

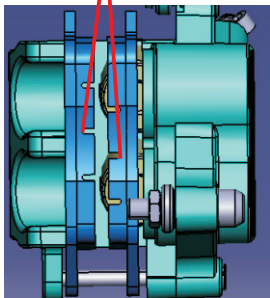
Abrasion of brake pads more than min. permitted thickness may decrease braking effect, even damage the brake system under some situations. For the reliability of braking, wear out over min. thickness is not allowed.

Replace the brake pads

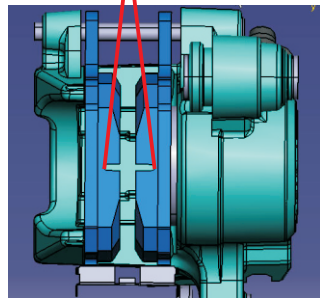
The correct way for replacing brake pads need remove the wheels, this work shall be done by VOGÉ dealer.

- Both the front or rear pads need to be replaced as a set, in case replace 1 piece only, the imbalance brake may occur which result in accident
- After the brake pads removed, operation on brake lever or pedal is not allowed, or the piston will be unable to return, meanwhile the brake fluid may leak.
- Oil or other dirt adhere on brake pads during replacement is not allowed, in case it is, please wipe up, or it may decrease braking effect even make skidding.

Abrasion limit for front pads :



Abrasion limit for rear pads :



Danger

After replaced, repeatedly confirm brake lever or pedal for confirming the new pads effectively pressed brake disc, while confirming the correct free travel of the lever and pedal.

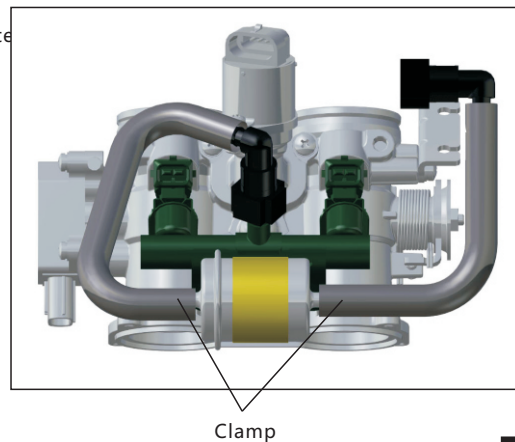
Replace the fuel filter

- Fuel filter is for cleaning impurities which reject it enter the fuel injector.
- Nozzle of fuel injector is very precisely machined and easy to be blocked, in case it blocked, the engine is unable to be started, so please replace secondary fuel filter timely.
- Remove the fuel tank, and the right side of air filter could be seem.
- Remove the clamp by screwdriver which still tightly hold the secondary filter.
- Wrap up the both ends of fuel filter by cotton cloth for preventing fuel splashing when removing the clamp due to there is residual fuel and pressure in fuel tube which may spill out.
- Remove the clamps on both ends of fuel filter by screwdriver.
- Replace by new fuel filter.
- Re-assembly is just opposite to disassembly.
- Use cotton cloth for absorbing the residual fuel when removing the fuel filter.

Caution

Replace the fuel filter by each 5000km.

Dispose the removed fuel filter
in environmental-friendly way.



Replace the signal lights

- You may in danger in case there is no light signals, because it may help you to be easily found, so please replace the broken light signals on time
- Headlight, position lights, turning signal lights, rear position light, brake lights and registration plate light are all LED sealed light, in case damaged, go to service station for replacing as a whole.



Replacement for signal lights please follow the specification below.

Dirt especially the grease on surface may seriously disturb the heat radiation, which may lead to overheat and shorten the working life of signal lights.

Warning

When the signal light is broken, use the new light with same power rating and specification, or may result in circuit overloaded or damage the bulbs.

Storage and cleanliness

Storage for motorcycle

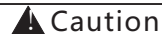
·In case parking for a period is needed, the special maintenance is necessary which need some special materials, equipments or technologies, in this case, these works shall be done by VOGÉ dealer.

·In case you prefer finish these works by yourself, do as below:

- Totally replace the old oil.
- Block the air inlet port of air filter and air exhaust port of muffler by cloth with new oil for preventing wet air.
- Completely drain off the fuel in the tank.
- Remove the battery and wash its surface by neutral suds, while cleaning up the oxide on positive and negative terminals.
- Store the battery in room with temperature higher than 0°C.
- Adjust the air pressure in tire to stipulated one.
- Totally wash the motorcycle,
- Spray the protector on rubber parts.
- Coat the body kit with protective wax.
- Cover the motorcycle by dry cloth and park in place which is dry and with sound ventilation.

Way for re-use

- Totally clean the motorcycle.
- Remove the cloth blocked on air inlet port of air filter and exhaust port of muffler.
- Replace oil in engine and its element.
- Assemble battery.
- Start the motorcycle



Caution

Charge the battery monthly.

Protection for motorcycle

- Usually wash the motorcycle in relation to driving, and keep it dry and clean.
- Timely wash up dirt on the surface.
- Use cover cloth for motorcycle, under sun shine for long time may result in aged body kit and color fading.

Cleanliness for motorcycle

- Wash the motorcycle by cold water.
- Totally wash the motorcycle by soft cloth and neutral cleanser.
- Use spray is not allowed.
- Wash by high pressure water is not allowed.
- In rainy weather or after washed, the internal of headlight or turning signal lights may have water mist, turn the light for a while the water mist may disappear, because the lights are designed with ventilation hole, which is normal.

Danger

Wet brake assy. may with low performance, repeatedly test the brake system after washed, and make it dry as soon as possible.

Refit and accessories

OEM parts or accessories are permissible.

·You are able to get OEM parts, accessories and other parts from dealers with authorization, meanwhile, staff with specialization may introduce you the correct installation way and use.

·These parts are safe and tested, we take responsibility on them.

·Oppositely, we take no responsibility on parts or accessories without authorization.

·Any time or any parts need to be replace, the law need be followed.

Make sure your motorcycle won' t break road, laws and regulations.

Danger

Refit the electrical parts and their control system without authorization may damage the motorcycle and result in accident.

Motorcycle parameters	
L×W×H	2100mm×770mm×1090mm
Wheel base	1445mm
Seat height	785mm
Ground clearance	165mm
Curb weight	198kg
Deadweight	150kg
Max. weight	348kg
Fr. Wheel loading	99kg
Rr. Wheel loading	99kg
Max. speed	160km/h
Max. gradeability	≥35°
Braking deceleration	In relation to GB20073
Fuel consumption	≤4.4L/100km
Fuel tank capacity	17.2L
Coolant volume	1.5L
Chain specification	520UX 118 pcs
Suspension rack/Brake system	
Front shock absorber	Inversed/Fork tube φ41mm travel 109mm
Rear shock absorber	Central/Travel 119mm
Front hub specification	3.50×17
Rear hub specification	4.50×17
Front tire specification	120/70ZR17M/C
Rear tire specification	160/60ZR17M/C
Front Brake plate, double pistons, floating caliper/diameter	189mm
Rear Single plate, single piston, floating caliper/diameter	240mm
ABS	Dual channel anti-lock

Engine system	
Engine type	2 cylinders in line/water cooling/8 valves/DOHC
Bore×Stroke	67mm×68.8mm
Displacement	471ml
Compression ratio	10.7 : 1
Air inlet clearance	(0.16±0.03) mm
Air exhaust clearance	(0.27±0.03) mm
Spark plug clearance	0.8mm-0.9mm
Spark plug type	CPR8EA-9
Max. net power/Rotation	35Kw/8500rpm
Max. torque/rotation	43N·m/7000rpm
Idling speed	(1300±100) r/min
Gear box	International 6 gears
Clutch	Wet and multiple layers
Oil volume	3.2L (10W/40-SG)
Fuel supplying	EFI system
Emission standard	State 4 phase (State IV)
Transmission system	
Primary transmission ratio	2.029
Final transmission ratio	3.000
1st	3.285
2nd	2.105
3rd	1.600
4th	1.300
5th	1.150
6th	1.043

Electrical system	
Battery type	12V10Ah
Headlight (high/low beam)	12V 29.4W/12.84W
Front position light	12V 2.9W
Rear position light	12V 0.84W
Rear brake light	12V 1.08W
Front turning signal light	12V 1.8W
Rear turning signal light	12V 1.8W
Registration light	12V 0.257W
Fuse link specification	30A, 25A, 15A, 10A

- Pay attention for periodic maintenance, and confirm completely do as this user manual.
 - Maintenance table gives the least maintenance need be done. In case you usually drive in rough conditions, the maintenance frequency shall be higher.
 - Driving for long journey, sand weather or in mud, special maintenance is necessary after travel finished
 - The maintenance above shall be done by VOG dealer.
- The waste from maintenance such as cleanser or oil shall be well disposed without pollution to the environment.
- Correct maintenance for parts is the key, in case the origin and the quality of parts are unable to be confirmed, use the OEM parts, improper maintenance may result in accident.
 - This kind of maintenance shall be done by dealer with authorization.

Maintenance plan

The table below shows the necessary checking in each periodic maintenance, the intervals is by the first coming of time and mileage. Each maintenance shall be done as below:

Power c	Coolant	2 years	\	\	\	\	\	\	R
	Check the sealing of air inlet		I	I	I	I	I	I	I
	Valve clearance		I	I	I	I	I	I	I
	Spark plug clearance		\	I	I	I	I	I	I
	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 part	Check lubrication and tightness of steering bearing		I	\	L	I	L	I	L
	Check lubrication for Fr. & Rr. Wheel and bearing on sprocket seat		L	L	L	L	L	L	L
	Check lubrication of turning shaft of main & auxiliary footrest		L	L	L	L	L	L	L
	Check lubrication for axle of side stand		\	L	L	L	L	L	L
	Check lubrication for shaft of brake and clutch lever		\	L	L	L	L	L	L
	Check lubrication for rocker rack bearing of rear shock absorber		L	L	L	L	L	L	L
	Check lubrication for rear fork bearing		\	L	L	L	L	L	L
Others	Check lubrication for chain		A	A	A	R	A	A	R
	Voltage of battery		\	I	I	I	I	I	I
	Sealing 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 syste		I	I	I	I	I	I	I
	Check runout of fastening parts		I	I	I	I	I	I	I
Meaning of the symbols : I:Check C : Wash. R : Replace. A : Adjust L : Lubricate									

Electrical diagram

