To our distinguished owner

250R, 350R Motorcycle Instruction Manual

Rev. 1 (March 2025)

First of all, congratulations on your purchase of a brand new KOVEMOTO!

If you choose products of KOVEMOTO, you will become a member of the KOVEMOTO family.

This Instruction Manual introduces the main specifications, basic structure, adjustment method and maintenance knowledge of the motorcycle. It will guide you to master the basic operation of the motorcycle and eliminate or reduce common faults, which can effectively ensure driving safety, play the best performance of the vehicle, and improve the service life of the vehicle.

This Instruction Manual contains the introduction of the basic configuration of the motorcycle. The contents and pictures are for reference only, please refer to the physical object.

Due to the production time, user needs and design improvements, the actual motorcycle may be different from the contents of the Manual. We reserve the right to make changes at any time, and we will no longer notify and assume any obligations. Sorry for any inconvenience caused.

The Instruction Manual is one of the necessary accessories of the motorcycle, and when it is sold to others, it should be attached to the motorcycle.

The copyright of this Instruction Manual belongs to the company, and no reproduction is allowed without the written consent of the company, and violators will be prosecuted.

To ensure your safety, and increase your riding pleasure:

- Please read the Instruction Manual carefully.
- Please follow all recommendations and procedures in the Instruction Manual.
- Please pay close attention to the safety information recorded in the Instruction Manual and pasted on the motorcycle body.

Safety Precautions

The safety of you and others is very important, and the safe driving of this motorcycle is an important responsibility.

To help you make an informed decision about your safety, we provide steps and other information on the safety label and in the Instruction Manual to remind you. This information is intended to alert you to the potential danger of harm to you or others.

It is impractical for us to list all the hazards associated with motorcycle riding and maintenance, and you must make the right judgment yourself.

It is forbidden to install electrical equipment, because the battery used in the motorcycle equips with a relatively low capacity, and the installation of electrical equipment may cause a loss of power.

The motorcycle is equipped with a high-speed engine. For your driving safety, it is recommended that you reduce violent driving.

You'll see important security information in a variety of forms, including:

- Safety labels on the body of a motorcycle;
- The safety information is preceded by a safety warning symbol ⚠ and one of the following three warnings : Caution, danger, and warning.

The meanings of the three warnings are as follows:

⚠ Caution -If you do not follow the instructions, you may be injured.

⚠ Warning -If you do not follow the instructions, you will cause serious casualties.

⚠ Danger -If you do not follow the instructions, you will cause serious casualties.

Other important information is listed under the following headings:

Notes -Information to help you avoid damage to your motorcycle, other property, or the environment.

Contents

Motorcycle safety.....4

User Manual.....13

Maintenance.....28

Fault Handling.....54

Relevant information.....64

Technical Parameters.....74

Motorcycle safety

This section contains important information about the safe riding of motorcycles, please read this section carefully.

Safety instructions.....5

Safety Precautions.....8

Riding precautions 9

Spare parts and modifications.....12

Loading guide 12

Safety instructions

To enhance your driving safety, please follow these guidelines:

- Perform all routine and routine inspections as specified in the Instruction Manual.
- Before filling the tank, turn off the engine and keep away from sparks and open flames.
- Do not start the engine for a long time in a closed or semi-closed space, because the exhaust gas contains carbon monoxide, which is a toxic gas and can be fatal.

Always wear a helmet

It has been proven that helmets and protective clothing can significantly reduce the chance of injury to the head and other parts, and reduce the degree of injury. Therefore, please be sure to wear a certified motorcycle helmet and protective clothing when driving.

Before the ride

Make sure you're in good physical condition, paying attention, and not drinking or taking medication. Make sure that you and your passengers are wearing a certified motorcycle helmet and protective clothing. Make sure your passenger to firmly grip the passenger handholds or hold your waist, place his/her feet on the pedals, and lean with you when you turn, even when the motorcycle is stopped.

Take time to study and practice

Even if you have driven other motorcycles, you should practice riding this motorcycle in a safe area to familiarize yourself with the operation and operation of this motorcycle and adapt to the size and weight of the motorcycle.

Have a sense of protection when riding

Always pay attention to the vehicles around you, do not think that other drivers can see you, always be prepared to make emergency brakes or avoid detours.

Make yourself easier to see

Especially at night, wear bright reflective clothing to make yourself more eye-catching, stop so that other drivers can see you, turn on the signal light before turning or changing the lane, and when necessary, use the horn to remind pedestrians.

Don't drink and ride

Alcohol and driving are not compatible. Never exceed your personal ability when driving, and do not exceed the speed specified by the vehicle, fatigue and negligence will weaken your ability to make correct judgments and safe driving.

Keep your motorcycle in a safe state

It is important to take good care of your motorcycle so that your motorcycle is always in good condition. Check your motorcycle before each ride and complete all recommended maintenance and repairs. **Do not modify motorcycles or add accessories that will affect safety without authorization, and overload is strictly prohibited.**

Dealing with incidents

Your personal safety is your first priority. If you or anyone else is injured, you should first carefully evaluate the severity of the injury and determine whether it is safe to continue driving, and call for emergency assistance if necessary. f other persons or vehicles are involved in a collision, the applicable local laws and regulations should also be followed.

If you decide to continue driving, first turn the ignition switch to the "⊗" (off) position, and then evaluate the condition of the motorcycle. Check whether there is oil leakage, check whether the key nuts and bolts are fastened, and check the steering handle, steering column, brake and wheel to ensure that the personnel and vehicle are safe. Please drive slowly and carefully.

Your motorcycle may have suffered damage that will not be immediately apparent, please submit it to a special repair shop or a qualified special repair shop of KOVEMOTO for a thorough inspection as soon as possible.

Carbon monoxide hazard

The exhaust gas contains toxic carbon monoxide, a colorless and odorless gas, and inhaling higher concentrations of carbon monoxide can cause people to lose consciousness and may even be fatal.

Do not start the engine for long periods of time in a garage or other enclosed space.

⚠Warning

- If the engine is started for a long time in a closed or semi-closed space, it may cause a rapid accumulation of toxic carbon monoxide gas.
- Inhaling this colorless, odorless gas causes rapid loss of consciousness and death.
- Motorcycle engines should only be started in well ventilated outdoor areas.

Safety Precautions

- Be careful when riding, always keep your hands on the throttle grips and your feet on the pedals.
- Make sure your passenger to firmly grip the passenger handholds or hold your waist, place his/her feet on the pedals.
- Always pay attention to the safety of riders, passengers and other drivers on the road.

Protective clothing

Make sure that you and any accompanying passenger are wearing a certified motorcycle helmet, goggles and eye-catching protective clothing, and drive carefully according to the weather and road conditions.

▮ Helmet

It is certified to safety standards, eye-catching, and sized to fit your head size.

- It must be safe and comfortable and secured with a chin strap.
- It does not obstruct the line of sight of the mask or other certified goggles.

▮ Gloves

High-wear-resistant full-finger leather gloves.

▮ Boots or riding shoes

Boots that are strong and slip-resistant and protect the ankle.

▮ Clothing

It includes a protective eye-catching long-sleeved shirt suitable for riding and wear-resistant pants (or protective suits).

⚠Warning

· Not wearing a helmet increases the chance of serious injury in an accident.

· Make sure that you and your passengers always wear certified helmets and protective clothing.

Riding precautions

Run-in period

Follow these guidelines during the first 500 km of driving to ensure the motorcycle's later reliability and performance.

- Avoid full throttle start or rapid acceleration.
- Avoid emergency braking and rapid downshifting.
- Ride carefully.

Brake

Follow the following guidelines:

- Avoid excessive emergency braking and downshifting
  - Sudden braking will reduce the stability of the motorcycle.
  - Slow down before turning, or you may slip.
- Be careful when driving on slippery roads
  - Tyres are easier to slide on slippery surfaces and require longer braking distances.
- Avoid continuous braking
  - In the long and steep slope down the slope, repeated braking will lead to serious overheating of the brake, affecting the braking effect. You should use the engine brake and use the brake intermittently to slow down.
- The front and rear brakes can be used at the same time to achieve a complete braking effect.

Anti-lock brake system (ABS)

This model is equipped with an anti-lock braking system to prevent tire lock-up during emergency braking.

- When the vehicle speed is less than 10 km/h, the anti-lock braking system does not work.
- During braking, after ABS intervention, the brake handle or Foot brake lever may slightly rebound, which is a normal phenomenon.
- Always use the recommended tyres to ensure that the anti-lock braking system works correctly.

Engine brake

When you release the throttle, the engine brake will help the motorcycle slow down. If you want to slow down in a further degree, you can downshift to a low gear. When descending a long and steep slope, the engine should be braked and the brake should be used intermittently to slow down.

A humid and rainy environment

In a wet and rainy environment, the road surface will be wet and slippery, and the wet brake will also reduce the braking efficiency. You need to be very careful when braking. If the brake is wet, it can be intermittently repeated during low-speed driving and riding, which helps to dry the brake quickly.

Parking

- Stay on solid, flat ground.
- If you must stop on a slightly inclined or loose ground, make sure to stop the motorcycle and make sure that the motorcycle cannot move or tip over.
- Ensure that high temperature parts do not come into contact with flammable materials.
- Do not touch the engine, muffler, brake and other high temperature parts before cooling.
- To avoid the possibility of theft, be sure to lock the steering handle and remove the key before leaving the unattended motorcycle.

Stop the motorcycle with the side support

1. Extinguish engine.
2. Lower side support.
3. Tilt the motorcycle slowly to the left until its weight is concentrated on the side bracket.
4. Turn the steering handle completely to the left.

▸ If the steering handle is turned to the right, it will reduce stability and may cause the motorcycle to fall.

5. Turn the ignition switch to the "🔒" (lock) position and remove the key.

Fueling/brake fluid and fuel guide

Follow these guidelines to protect your engine and catalytic converter:

- Use only unleaded gasoline.
- It is recommended to use high octane gasoline. The use of low octane gasoline will reduce the performance of the engine.
- It is not recommended to use ethanol gasoline, which will reduce the performance of the engine.
- Do not use spoiled or contaminated gasoline, or oil-gasoline blends.
- Prevent dirt and water from entering the tank.
- Since the brake fluid has a certain corrosive effect, be sure to avoid splashing into the eyes, adhering to the skin and avoiding contact with nonmetallic materials of the vehicle when adding.

Spare parts and modifications

We strongly recommend that you do not use any accessories other than KOVEMOTO, and do not modify the original design of the motorcycle, which will cause the motorcycle to be unsafe. Unauthorized modifications to your motorcycle will void your warranty service and result in your motorcycle being unable to legally drive on public roads and highways. Before you decide to add accessories to your motorcycle, first determine which modifications are safe and legal.

It is prohibited to attach a trailer or a sidecar to a motorcycle and to modify or install other equipment at the engine installation point. Your motorcycle does not have the design of these accessories, and their use will seriously damage the maneuverability and safety of the motorcycle.

⚠Warning

- Improper accessories or modifications may cause safety accidents, in which you may be seriously injured or even life-threatening.
- Please follow all instructions in the Instruction Manual for accessories and modifications.

Loading guide

- The additional load will affect the maneuverability, braking and stability of the motorcycle. When riding with heavy loads, be sure to maintain a safe speed.
- Please stay within the specified loading limit. The payload of the vehicle is 161kg. Do not overload it.
- Fix all luggage and place it evenly and smoothly near the center of the motorcycle.
- Do not place objects in the headlights or Mufflers.

⚠Warning

- Overloading or improper loading will lead to accidents, resulting in serious casualties.
- Please follow the loading instructions in the Instruction Manual.

User Manual

This section contains important information about the operation of the motorcycle,please read this section carefully.

Component location diagram.....14

Instruments.....16

Switch.....21

Ignition switch.....23

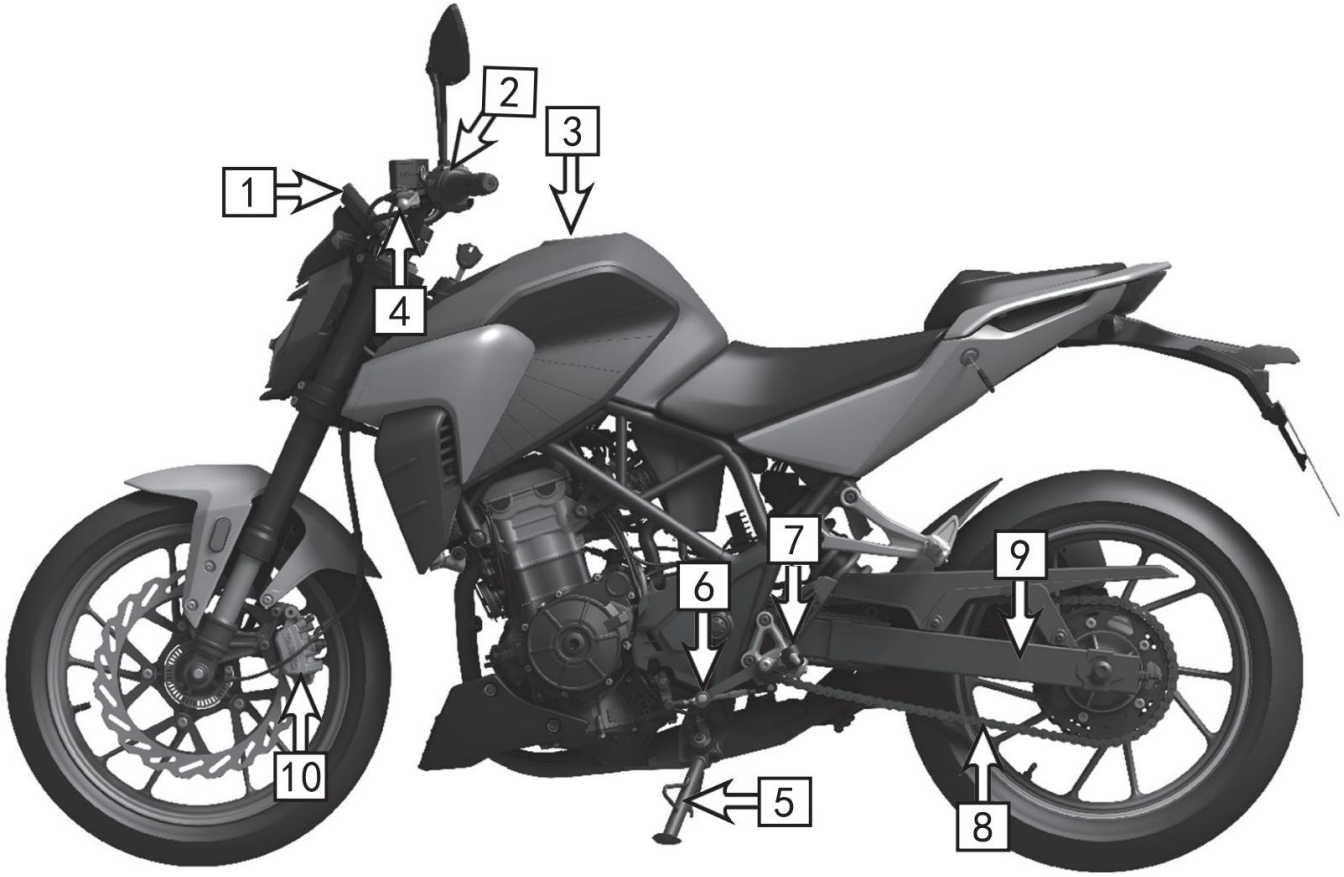
Start the engine.....24

Gear shifting.....25

Traction Control System (TCS).....26

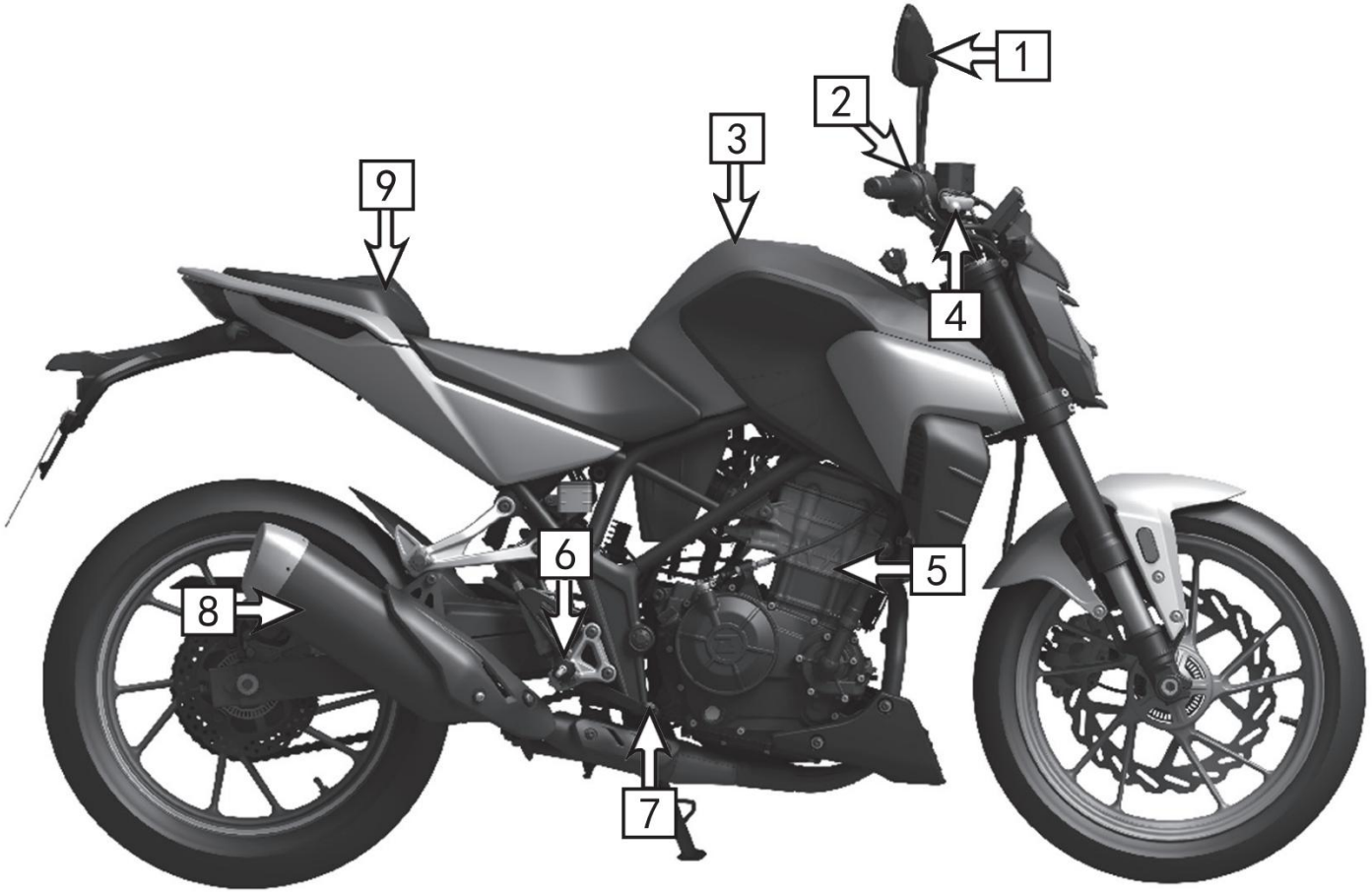
Refueling.....27

Component location diagram



1. Instrument assembly 2. Left combination switch 3. Fuel Tank Lock 4. Clutch Lever 5. Side stand 6. Shift Pedal 7. Left Front Footrest 8. Chain 9. Swingarm 10. Brake Calipe

Component location diagram



1. Rear view mirror 2. Right combination switch 3. Fuel tank 4. Front brake lever 5. Engine 6. Right front footrest 7. Rear brake pedal 8. Muffler.9 Seat Cushion

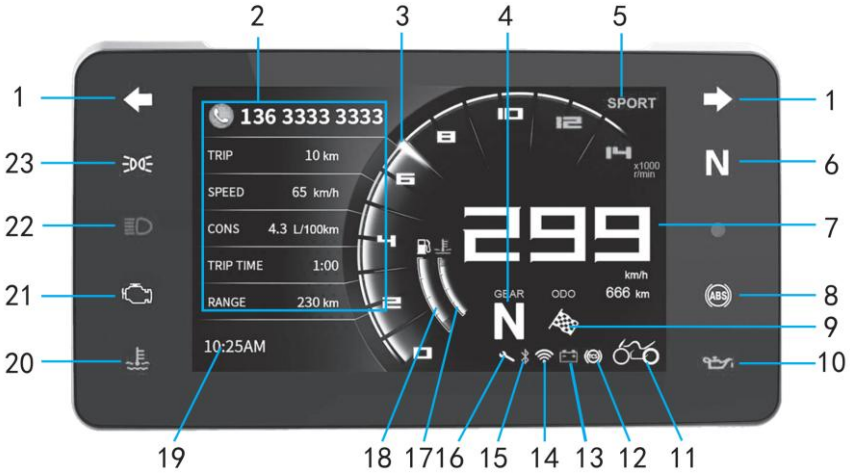
Instruments



Display check

When the ignition switch is turned to "○" (ON), the instrument is powered on to play the start-up animation, and then self-test is performed, and all functional modules and symbols are displayed. If the display is missing during self-test, Please go to the special repair shop of KOVEMOTO for repair.

Instrument interface Description -1



S/N	Name	Functional description
1	Turn indicator light	When the left turn signal is on, the left indicator flashes; when the right turn signal is on, the right indicator flashes
2	Message display	① Location Information display (After connecting to the phone bluetooth) ② Riding data display ③ APP message push (Needs to be set in the Phone APP) ④ Incoming call display (After connecting to the phone bluetooth)
3	Tachometer	Engine speed display
4	Gear indication	Display the current gear
5	Riding mode	ECO is displayed in economy mode, SPORT is displayed in sport mode
6	Neutral indicator	When in neutral, this light turns on
7	Vehicle speed display	Display the current speed
8	ABS malfunction indicator light	① This light is on when a fault occurs ② After the whole vehicle is powered on, this lamp flashes as a normal phenomenon (0.5S on, 0.5S off). When the vehicle speed is > 5km/h, the ABS self-test is extinguished immediately after passing

S/N	Name	Functional description
9	Launch display	When the launch control function is activated, the indicator light starts blinking; when the launch control function is ready, the indicator light stays on steadily.
10	Oil pressure indicator	When the oil pressure is insufficient, this light is on
11	ABS status display	① Front and Rear Wheels Remaining Lit: ABS Function Activated ② Rear wheel Flashing: ABS Rear Wheel Deactivated ③ Front and Rear Wheel Flashing: ABS Function Deactivated
12	TCS Indicator	① When TCS Function is Activated: indicator OFF ② When TCS Function is Deactivated: indicator On ③ When TCS Malfunctions: indicator stays On (Function Activated) ④ When TCS Intervenes: indicator flashes
13	Battery Voltage Indicator	This light is on when the battery voltage is too low
14	WIFI Connection Display	When connected to WIFI, this light turns on
15	Bluetooth Connection Display	When connected to a phone bluetooth, this light turns on.
16	Service indicator light	When the motorcycle reaches the maintenance setting condition, this lamp is on
17	Water temperature display	① When the water temperature indicator block displays red and lights up the “water temperature alarm lamp”, it means that the water temperature is too high. In the case of ensuring safety, stop for inspection, and continue driving after the water temperature drops ② When the water temperature data is abnormal, all water temperature blocks and icon will simultaneously
18	Fuel display	Displays oil level of fuel ① When the oil level is lower than 1 bar (after a period of continuous use, the red oil level will flash at the same time as the oil level symbol), please replenish the fuel as soon as possible; ② If the fuel symbol and oil level flash simultaneously, it indicates abnormal oil level signal. Please visit KOVE authorized repair shop for inspection as soon as possible.
19	Time display	Displays the instrument time
20	Water temperature indicator	When the water temperature is too high, this light turns on
21	Electronic injection malfunction indicator light	This light turns on when there is a fault in electronic fuel injection system (Engine power on normally)
22	High beam indicator	This light is on when the high beam is switched on
23	Position indicator light	This light is on when the position light is on

Menu Description

Level 1 menu	Level 2 menu	Description
Riding mode	SPORT	Set the engine power output mode (SPORT: sport mode, ECO: economy mode), and the riding mode has a memory function
	ECO	
ABS mode	Open front and rear wheel	Set the ABS working status, and the current ABS working status is displayed through the instrument icon
	Turn off the rear wheel	
	Turn off the front and rear wheels	
TCS mode	Open	Set TCS working status
	Close	
Riding data setting	Sub-total mileage	Set the vehicle data display items interface. The selected items are displayed on the first page (if the number exceeds the display limit, they are automatically moved to the next page), and the unselected items are moved to the next page. Note: 1. When the average vehicle speed ≤ 0, the average vehicle speed displays “--” 2. When the vehicle needs to refuel, the range is displayed as "--". 3. The average fuel consumption and driving range calculation result is affected by many factors such as vehicle working conditions and ride habits. The display data is for reference only. 4. Press and hold the BACK key to pop up sub-total mileage clearing menu and follow the prompts to operate.
	Average speed	
	Average fuel consumption	
	Riding time	
	Range	
	Battery voltage	
Settings	Connection settings	Set up bluetooth/WIFI connection with the phone (to ensure normal connection, the dedicated APP on the phone needs to enable permissions as prompted; when using WIFI connection, do not choose to use instrument WIFI for internet access, otherwise it will affect the phone's internet function).
	Display settings	Display mode: Users can choose the day and night UI mode that has been used according to their preferences, and the factory default is automatic
	Automatic headlights	Set headlight to turn on or off.
	Time/Date	Users can manually set instrument time/date. If automatic mode is selected, it will synchronize with the phone's time when connected via thread.
	Language settings	Switch between Chinese and English menus.
	Maintenance setting	Setting and clearing of maintenance mileage or time: The first guarantee is 500km or one year, the second guarantee is 1500km or one year. This default parameter cannot be modified, and the user can set the maintenance reminder cycle according to the actual situation Maintenance prompt clearing method: Long press ENT key under the maintenance service interface to pop up the clearing dialog box, and operate according to the prompt content
	Unit settings	Switch display units.
	Version Number	Display the current version number of instrument. If the version is not the latest, it can be upgraed via the upgrade APP.

The instrument functions are as follows:

Vehicle data viewing:

On the main interface of the instrument, you can press the Up and Down keys to flip through pages and view relevant vehicle data.

Information viewing:

1. When a message prompt appears on the main interface (e.g., fault information), you can press the SET button to view details, and press the BACK button to clear it.

2. When the mobile phone is connected with Bluetooth, the message display panel will reflect the information pushed by the mobile phone. Press the SET key to view the details, and press the BACK key to clear it. Instrument

Navigation Operation:

When Bluetooth/WIFI connection with the phone is normal and the dedicated APP on the phone has set up navigation, long press the Up button to enter full-screen navigation instrument, long press the Down button to enter simple navigation instrument, and press the BACK button to exit the navigation interface on the instrument.

Function setting:

Press the SET key to enter the instrument menu. You can set riding mode (SPORT or ECO), ABS mode, instrument brightness , riding data, headlight (on or off), time, language, and other parameters according to the human-machine dialogue menu.

Instrument and mobile phone interconnection:

1. The positioning function, navigation function, information push function, weather function, automatic time function, altitude display and other functions in the TFT instrument can only be realized after interconnection with the mobile phone installed with the relevant APP.

2. Steps to install the phone APP: ① Enter instrument setting menu; ② Select connection settings; ③ Choose Bluetooth, use a phone connected to the internet to scan the QR code on interface, and download and install the APP as prompted (for a better user experience, please refer to the APP usage guide when using the phone APP).

3. When the instrument needs to be disconnected from the phone, enter the phone resetting menu and select Disconnect Bluetooth/Disconnect WIFI.

Notes

- If you need to modify the ABS mode, it must be conduct while the vehicle is parked.

Instrument Program Update Steps:

1. Download the upgrade APP "Instrument Upgrade";

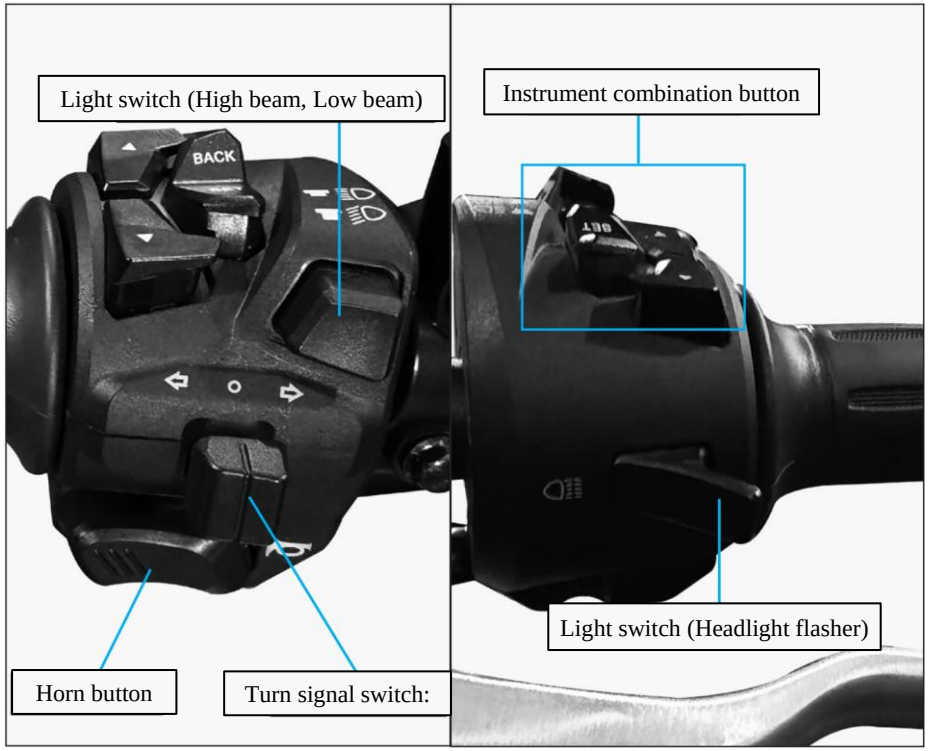
2. Turn on the instrument and navigate to the version number interface in the menu, long press the Down button and the SET button simultaneously in this interface to pop up instrument-up;

3. Open the phone hotspot settings, set up according to the hotspot name and password displayed in the instrument-up, and the instrument will automatically connect within a range of no more than half a meter;

4. After successful connection, enter upgrade interface for the corresponding vehicle model. If the program on interface is not the latest version, delete the file and download the latest version. After the download completed, transfer files for "OS" and "MCU" respectively. After completing the transfer of each individual file, wait for the instrument to upgrade itself. Do not operate the instrument until it restarts (Note: Do not power off the instrument during the upgrade process). Then connect again to proceed with the next upgrade item.

5. After completing the above operations, check again in the version number opti 7on to see if the program has been updated.

Switch



Menu switch: This combination button is used to set different functions of the instrument.

▲▼: Select to switch Up and Down

BACK: Back button

SET: Set instrument function button

Turn signal switch:

⇦ Turn on the left turn signal: toggle the switch to the left, and the turn signal switch returns to its original position after operation.

⇨ Turn on the right turn signal: toggle the switch to the right, and the turn signal switch returns to its original position after operation.

○ Turn off the turn signal: When the turn signal switch is in the middle position, press this button to turn off the turn signal.

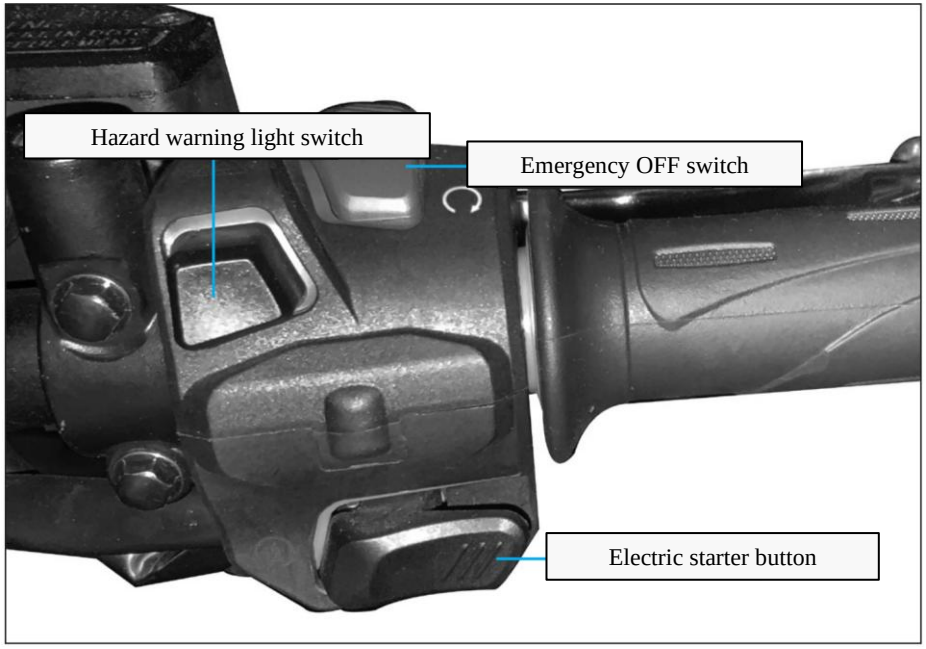
Light switch

Turn on headlight flasher (Headlight flasher is located on the back handlebars)

Turn on the high beam

Turn on the dipped beam

Switch



Emergency OFF switch:

Only when the switch is in "○ " (ON) position, the engine can be started.;

When the switch is in "⊗" (OFF) position, the engine cannot be started.

► In case of emergency, switch to the "⊗" (stop) position to extinguish the engine.

Hazard warning light switch:

⚠ Use in emergency situations. When pressed, it simultaneously activates the left and right turn signal.

Electric starter button：

When the emergency OFF switch is set to "START" position:

① If the engine is in neutral, press the " ⚡" button to start the engine.

② If the engine is not in neutral, pull handle, retract side stand, and press the "⚡" button to start Engine.

Notes

- When the headlights are illuminated by the automatic headlight function, the light switch cannot turn off the headlights at this time.
- To extend the lifespan of the switch, it is recommended to blow out any accumulated water inside the switch after car washing or heavy rain

Ignition switch

When the key is in the "△" position, turn the direction handle to the leftmost, press the key simultaneously, and rotate it counterclockwise to the "△" position, and the direction can be locked; if users need to unlock, rotate the key clockwise.



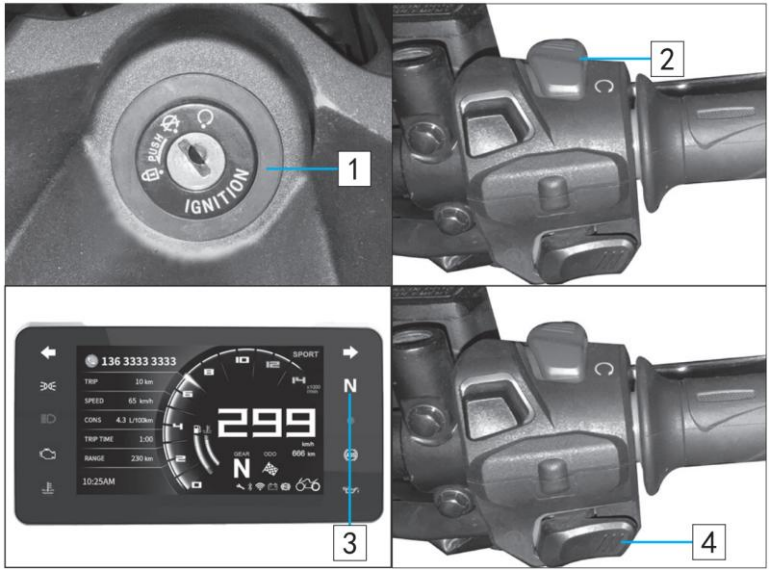
Position	Function	Notes
⊗	Used in parking (vehicle is powered off)	Key can be removed
○	Used in starting or driving	Key cannot be removed

⚠Warning

· During the parking (including parking for a long time), the ignition switch must be in the "⊗" or "🔒" position to ensure the safety of the vehicle and prevent the battery from "losing power".

· Do not push the motorcycle while the steering mechanism is locked, otherwise it will be out of balance.

Start the engine



Regardless of whether the engine is cold or hot, please follow the instructions below to start the engine.

1. Turn the ignition switch to the "○" (ON) position.
2. Make sure that the engine switch is in the "○" (ON) position.
3. Shift the gear to neutral, or pull the clutch lever and retract the side stand, then start the motorcycle with the transmission in gear.
4. With the throttle fully closed, press the starter button to start the motorcycle.

If the engine fails to start:

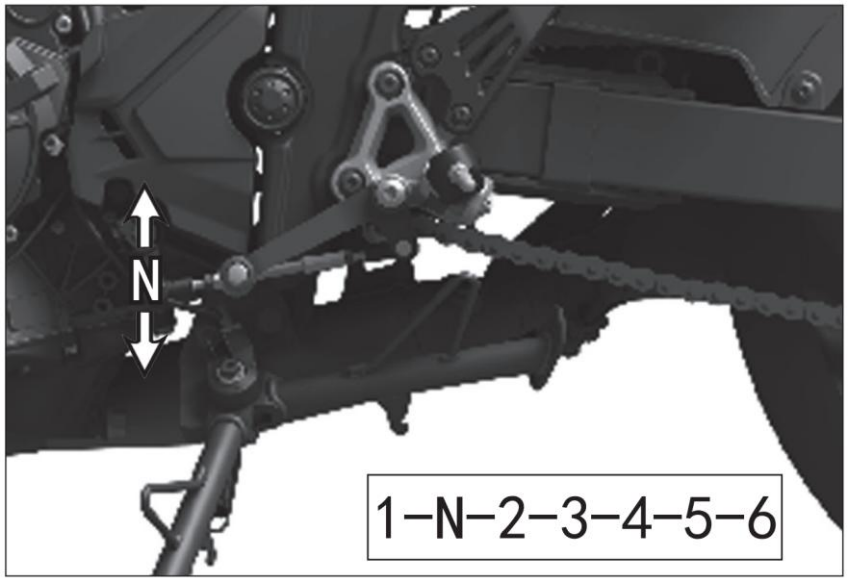
If the engine does not start within 3 seconds, wait for 10 seconds before repeating step 4.

Notes

- If the engine starts but idles unevenly, slightly increase the throttle.
- Prolonged high-speed idling and rotation can harm the engine and exhaust system.
- Sudden acceleration or prolonged idling at high speed for more than 5 minutes may cause the exhaust pipe to discolor.
- If the throttle is fully open, the engine will not start.

Gear shifting

Your motorcycle features 6 forward gears with a 1-down, 5-up shifting pattern.



Gear shifting method:

Warm up the engine to ensure smooth operation.

1. When the engine is idling, disengage the clutch and press the gear shift pedal downward to engage the low gear (1st gear).
2. Gradually increase the engine speed while slowly releasing the clutch lever, coordinating these two actions to ensure a smooth start.
3. When the motorcycle reaches a steady riding state, reduce the engine speed, disengage the clutch, and lift the gear shift pedal to engage the 2nd gear, and so on.

Things to pay attention to while driving:

1. Avoid unnecessary engine idling, and do not allow the engine to idle at high speeds, as this can severely damage the components.
2. Driving with the clutch partially engaged will quickly wear out the clutch plates.
3. If you feel the engine lacks power while climbing a slope, promptly shift to a lower gear.
4. On steep slopes, curves, and situations that may cause loss of vehicle control, do not use the front brake alone or coast in neutral. Do not ride without holding the handlebars.
5. When stopping, reduce the throttle, disengage the clutch at the same time, and then apply the brakes.

Traction Control System (TCS)

The motorcycle is equipped with TCS (Traction Control System), which allows the motorcycle to achieve optimal traction during driving. It effectively suppresses the rear wheel slippage during starts, sudden acceleration, etc., on slippery surfaces (such as ice, snow, rain, muddy), thereby improving driving stability and safety.

You can turn the TCS function on or off through instrument settings. It is recommended to keep the TCS function on unless there are special circumstances. When TCS is turned off and the rear wheel loses grip, the system will not request torque reduction, which may cause the vehicle to yaw or crash. The rider should adjust their riding style accordingly.

On slippery surfaces, TCS will not operate due to the engine's inherent braking intervention. If you suddenly decelerate by releasing accelerator, it may cause uncontrollable rear wheel slippage. Do not suddenly close the accelerator, especially when riding on slippery surfaces.

TCS may not be able to handle rapid refueling operations on rough roads. When accelerating, please consider the road and weather conditions, as well as your skills and physical condition. If motorcycle is stuck in mud, snow, or sand, temporarily turning off the TCS can make it easier to get motorcycle out. Turning off the TCS helps maintain control and balance during off-road riding.

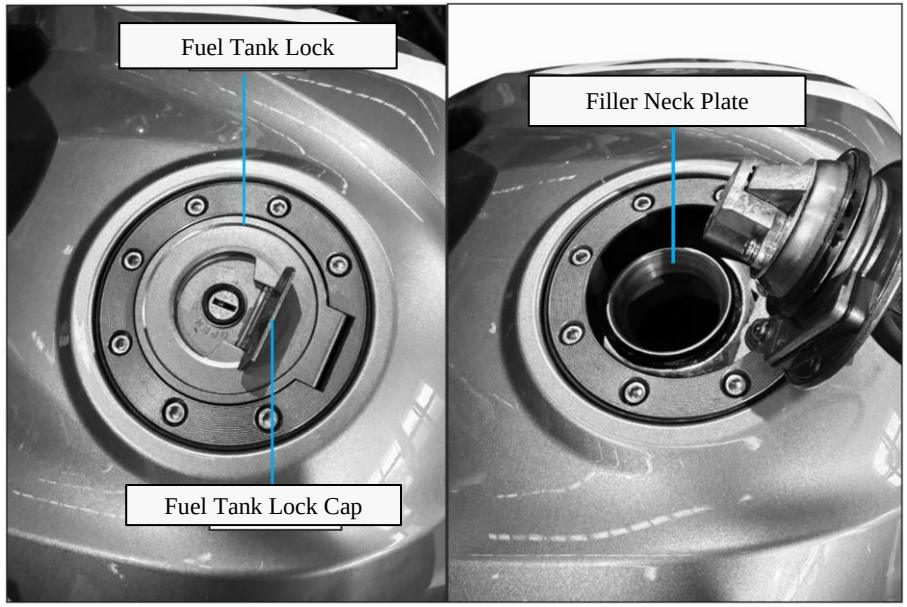
Always use the tire specifications, wheel speed sensors, and ring gears recommended by KOVE to ensure the TCS run properly.

When the TCS function is active, you may feel a weaker power output from the vehicle. This is normal and there is no need to worry or take any additional measures.

Notes

· While riding, if TCS indicator comes on, it may indicate that you have turned off the TCS function or that the TCS function has malfunctioned. Please turn off the key switch, then turn it back on, and also turn on the ignition switch on the right handlebar. If the indicator still remains on, it indicates an abnormality in the TCS function. Please take the vehicle to an authorized KOVE motorcycle repair shop as soon as possible for troubleshooting.

Refueling



Open the fuel tank cap:

Lift the lock cover, insert the ignition key, and turn it clockwise to open the fuel tank cap.

Close the fuel tank cap.

1. After refueling, press down the oil tank until it locks.
2. Remove the key and close the oil tank.

When refueling:

After stabilizing the motorcycle with side stand, open oil tank cap for refueling. Do not refueling above the filler neck plate. The fuel tank capacity is 13 liters. The capacity of the fuel tank is 20 L.It is recommended to use 95# or above unleaded gasoline. After the fuel is filled, close and lock the fuel tank cap.

⚠Warning

· When refueling, always do so outdoors, ensure the engine is turned off, stay away from heat sources, sparks, or open flames, and immediately wipe up any spills.

Maintenance

Please carefully read the "Maintenance" and "Maintenance Guidelines" sections before preparing for maintenance. Refer to "Technical Parameters" for maintenance data.

Maintenance 29
Maintenance interval table 30
Critical Component Torque Periodic Inspection Checklist 31
Maintenance Guidelines 32
Replacement Parts 33
Removal and Installation of Body Components 40
Engine oil 42
Coolant 44
Brake 46
Side stand 48
Drive Chain 49
Clutch 51
Accelerator 52
Headlight 53

Maintenance

The Importance of Maintenance

Always maintain your motorcycle in good condition, as it is essential for your safety, protecting your property, achieving optimal performance, preventing breakdowns, and reducing air pollution.

Maintenance is a crucial responsibility for motorcycle owners. Make sure to perform checks before each ride and conduct regular inspections according to the maintenance interval table.

Maintenance Safety

Please read the maintenance instructions before each service to ensure you have the necessary tools, parts, and skills. We cannot alert you to every potential hazard that may occur during maintenance. Only you can determine whether maintenance or repair is necessary.

Please follow these guidelines during maintenance:

- Extinguish the engine and remove the key.
- Park the motorcycle on a firm and level surface using the side stand, or support it with a maintenance stand.
- Wait for the engine, muffler, brakes, and other high-temperature components to cool down before starting operations; otherwise, it may cause burns.
- Start the engine under specified conditions and ensure it is in a well-ventilated environment.

⚠Warning

- Failure to perform regular maintenance before riding or to properly address faults may result in serious or fatal accidents.
- Please follow the inspection, maintenance recommendations, and maintenance interval table provided in the user manual.

Maintenance interval table

The vehicle should be serviced within the specified time frame. To ensure safety, only authorized KOVEMOTO Motorcycle service centers are qualified for the maintenance.

The meanings of the symbols in the table are as follows:

I: Inspect, clean, and adjust R: Replace A: Adjustment L: Lubrication

Maintenance Item		Initial	Odometer				Cycle		
		1000km (600mi)	6000Km (4000mi)	11000Km (7000mi)	16000Km (10000mi)	21000Km (13000mi)	1 year	2 years	When the mileage reaches 26000Km (16000mi), maintenance should be repeated every maintenance interval starting from 6000Km (4000mi).
※	Throttle control system	I	I	I	I	I	I	I	※This item should be serviced by personnel from the authorized KOVEMOTO Motorcycle service centers. If the user has specialized tools, repair accessories, and repair skills, they can also perform the maintenance themselves. Repair instructions can be found in this Instruction Manual.
	Air filter element	I/R	I/R	I/R	I/R	R	R	R	
※※	Valve clearance					I			※※To ensure safety, this project can only be serviced by authorized maintenance personnel from the authorized KOVEMOTO Motorcycle service centers.
※	Engine oil	R	R	R	R	R	R	R	
	Oil filter element	R	R	R	R	R	R	R	
※	Timing chain tension	I	I	I	I	I	I	I	
	Transmission chain	I&L	I&L	I&L	I&L	I&L	I&L	I&L	
	Brake pad wear	I	I		I	I	I	I	
※	Brake system	I		1	I	I	I	I	
※	Clutch	I	I	I	I	I	I	I	
※	Fasteners	I					I		
※	Steering bearing	I	I&L	I&L	I&L	I&L	I&L	I&L	**Pay special attention (when riding in dusty or polluted areas):** 1. Clean the air filter element every day. 2. Clean the shock absorber every day
※※	Deep groove ball bearing with buffer	I	I&L	I&L	I&L	I&L	I&L	I&L	
※	Front and rear wheel bearings	I	I&L	I&L	I&L	I&L	I&L	I&L	
	Battery			I		I	I		
※	Fuel system oil line/filter			R		R	R	R	
※	Spark plug			I		I	I	I	
※	Plain fork bearing					I&L	I&L	I&L	The tire pressure sensor needs to be replaced every 4-5 years because the battery will deplete and stop working.
※	Brake fluid						R	R	
	Coolant	I					I	R	
※※	Tire pressure sensor								Replace every 4-5 years

Critical Component Torque Periodic Inspection Checklist

S/N	Name of Fastening Location	Recommended inspection interval
1	Front and rear wheel axle tightening	Torque inspection is required during each maintenance cycle.
2	Upper and lower triple clamps tightening to secure the front shock absorber.	
3	Upper triple clamp and steering stem tightening	
4	Steering stem 4-slot nut tightening	
5	Handlebar lower clamp tightening	
6	Engine sprocket installation tightening	
7	Engine mounting fastening	
8	Rear shock absorber fastening	
9	Fastening of cradle bolts	
10	Front section of muffler with engine	
11	Front and rear brake caliper tightening	
12	Rear brake pump tightening	
13	Shift lever and adjustment rod end bearing tightening	
14	Brake pedal and adjusting lever end bearing tightening	
15	Entire brake line tightening	When cleaning the fuel lines, perform maintenance according to the specified torque requirements.
16	Fuel rail tightening	
17	Fuel pump tightening	
18	Front and rear brake discs tightening	During each maintenance cycle inspection or replacement, perform maintenance according to the specified torque and sealing method.
19	ABS ring gear	
Note: For torque cycle inspection items not specified in this Instruction Manual, the torque standards shall be followed as per our company's "Maintenance Manual"		

.

Maintenance Guidelines

To ensure safety, you are responsible for performing a pre-ride inspection and making sure that any issues identified have been resolved Pre-ride inspection is essential.

Inspection Items	Inspection Details
Handlebar	Smooth and flexible rotation, free from play or looseness
Brake system	Check its operating condition, and inspect the front and rear brake fluid levels and brake pad wear.
Fuel level	Sufficient fuel for the planned journey (refuel if necessary)
Accelerator	Check if it can open smoothly and close completely in all steering positions.
Clutch	Check its operating condition and adjust the free stroke if necessary.
Wheels/tires	Check its usage status and tire pressure, and inflate if necessary.
Drive Chain	Inspect its usage condition and sag, and adjust and lubricate if necessary.
Lighting, horn	Check the lighting system and horn to ensure they are functioning correctly.
Engine oil level	Add engine oil as needed and check for leaks.
Instrument Indicators	Check if all indicators on the instrument panel are functioning properly.

Replacement Parts

Battery

Inspect and replace the battery.

1 Before installing the battery, if the electrodes are found to be dirty, clean them thoroughly before installation; otherwise, poor contact may lead to malfunction.

2 If during use, the battery exhibits abnormal phenomena such as deformation, overheating, or smoking, stop using it immediately and have it inspected by an authorized KOVEMOTO Motorcycle service center.

3 If the battery is stored in a high-temperature or humid environment for an extended period, it may malfunction or experience a shortened lifespan. Before reuse, ensure the battery's appearance and functionality are normal.

4 If the vehicle fails to start, check whether the battery is functioning properly. If the battery is damaged, replace it immediately.

5 When installing the battery, ensure the battery terminal bolts are securely tightened.

If the battery is not used for an extended period, please note the following:

- To prevent over-discharge, the battery should be charged every two months.
- When the battery is not in use, it should be stored in a cool, dry environment, and the positive and negative terminals should be protected from short-circuiting.

Notes

- Improper handling of batteries may harm the environment and human health. Please dispose of used batteries in accordance with local environmental regulations.
- The addition of electrical appliances may cause battery drain and even electrical system malfunction.

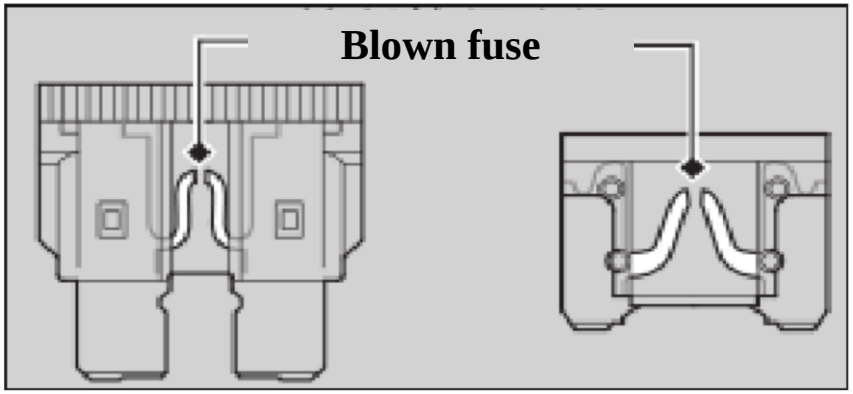
fuse

Fuses protect your motorcycle's electrical circuits. If any electrical components of your motorcycle stop functioning, inspect and replace the blown fuse.

Inspect and replace the fuses

Turn the ignition switch to the " ⊗ " (off) position, then remove and inspect the fuse. If the fuse is blown, replace it with a fuse of the same specification. Refer to the "Technical Parameters" section for the fuse Parameters.

If the fuse blows frequently, there may be a hidden issue with the electrical system. Please have it inspected by a authorized KOVEMOTO Motorcycle service center.



Notes

- Fuses must be replaced with ones of the same rating. Using a fuse with a higher rating increases the risk of damaging the electrical system and may pose a fire hazard.
- Installing non-KOVEMOTO electrical accessories can overload the electrical system, lead to battery discharge, and even damage the system.

Engine oil

Engine oil consumption and degradation vary depending on riding conditions and usage duration. The higher the engine speed, the faster the oil consumption rate. When operating at high speeds or high RPM for extended periods, shorten the oil change interval. Regularly check the engine oil level and add the recommended engine oil if necessary.

When used in extreme temperatures, oil degrades more rapidly. Dirty or aged oil should be replaced promptly.

Brake fluid

Do not add or replace brake fluid except in an emergency.

Only use brake fluid that has been freshly taken from a sealed container. If you have added brake fluid, please have the brake system inspected by an authorized KOVEMOTO Motorcycle service center as soon as possible.

Coolant

Only use the original undiluted KOVE Motorcycle pre-mixed coolant, which offers superior protection against corrosion and overheating. Regularly check the coolant level and promptly add more if it falls below the minimum mark. The coolant has a freezing point ＜ -40°C and a boiling point ＞ 110°C.

▮ Choosing Engine Oil

The engine oil should be of API classification SL grade or above, with the specification SN10W-40 or above.

Notes

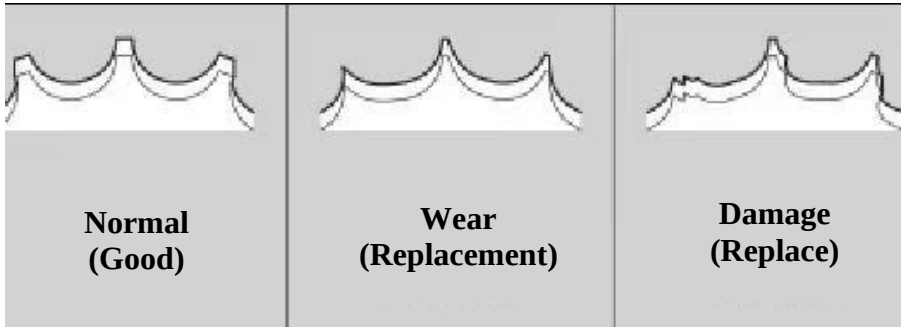
- Brake fluid can damage plastic and painted surfaces. If spilled, wipe it off immediately and clean thoroughly.
- Recommended brake fluid: DOT4 or equivalent.
- Do not use coolant that is not specifically designed for aluminum alloy engines; ordinary tap water and mineral water can easily cause engine corrosion and scaling.

Drive Chain

The drive chain must be regularly inspected and lubricated. If frequently ridden on poor road surfaces, at high speeds, or with repeated rapid acceleration, the chain should be checked more often.

If the drive chain does not operate smoothly, produces unusual noises, has damaged rollers or loose pins, or missing or bent seals, have the chain inspected by an authorized KOVEMOTO Motorcycle service center.

Also inspect the drive sprocket and driven sprocket. If either shows wear or damaged teeth, have them replaced by an authorized KOVEMOTO Motorcycle service center.



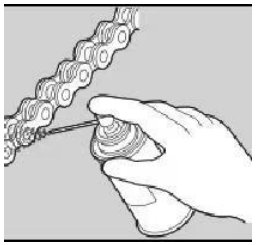
Brake fluid

Cleaning and Lubricating

After checking the sag, clean the chain and sprockets while rotating the rear wheel using a dry cloth, a chain cleaner for sealed chains, or a neutral detergent. If the chain is dirty, use a soft brush. After cleaning, dry it and lubricate with the recommended chain oil.

Avoid using steam cleaners, high-pressure cleaners, wire brushes, volatile solvents like gasoline and benzene, scrubbing agents, chain cleaners, and lubricants that are not specifically designed for oil-sealed chains, as they may damage the chain oil seals.

Avoid getting lubricant on the brakes or tires, and refrain from using excessive lubricant to prevent it from splashing onto clothing or the motorcycle.



Notes

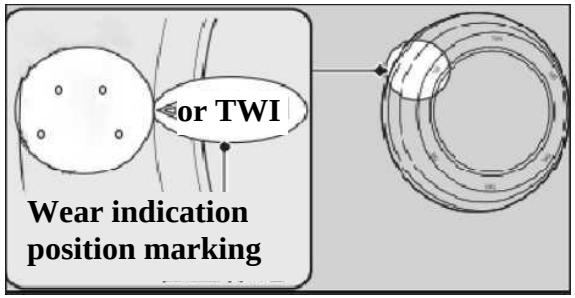
- Using a new drive chain on worn sprockets will accelerate chain wear; both the drive chain and sprockets should be replaced simultaneously.
- Recommended lubricant: Specialized lubricant for chain oil seals.

Tire (Inspection/Replacement)

Tire specifications

Front tire: 110/70R17

Rear tire: 250R: 140/60R17; 350R: 150/60R17



Abnormal wear check

Inspect the tire's contact surface for any signs of abnormal wear.

Inspect the tread depth

Check the tread wear indicator marks; if the wear reaches the indicators, replace the tire immediately.

Check the tire pressure

When you feel the tire pressure is low, measure it with a pressure gauge. Check the tire pressure when the tires are cool, and do this at least once a month. Ensure the valve core cap is securely tightened; replace it with a new one if necessary.

The standard tire pressure is: Front tire: 230 kPa; Rear tire: 250 kPa.

Check the damage

Inspect the tires for cuts, cracks, exposed fabric, tire cords, nails, or other foreign matters embedded in the sidewall tread, and also check for any abnormal bulges or swelling on the tire sidewall.

Whenever replacing tires, follow these guidelines:

- Use the recommended tires or equivalent products with the same size, structure, speed rating, and load capacity.
- After installing the tires, use the original KOVEMOTO motorcycle wheel balancer or equivalent equipment to balance and align the wheels.
- This motorcycle rim is designed for use with inner tubeless tires. Do not install Inner tube in tire yourself. If Inner tube is installed, it will rub against rim during rapid acceleration or braking, and the excessive heat will cause Inner tube to burst.

⚠Warning

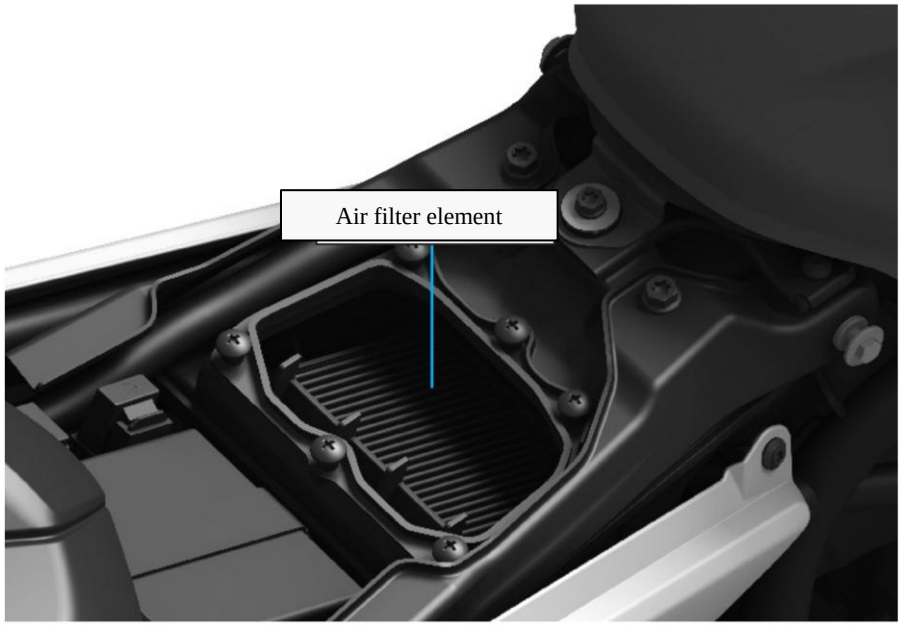
· Using excessively worn or improperly inflated tires can lead to accidents, resulting in serious injuries or fatalities. Please follow the relevant tire inflation and maintenance guidelines provided in the Instuction Manual.

· Installing unsuitable tires can impair handling and stability, potentially causing accidents and even endangering lives.

· Always use the tire size and type recommended in this Insruction Manual.

Air filter

This motorcycle is equipped with a paper air filter element. Do not perform maintenance yourself. It should be cleaned or replaced by an authorized KOVEMOTO Motorcycle service center.



Tools

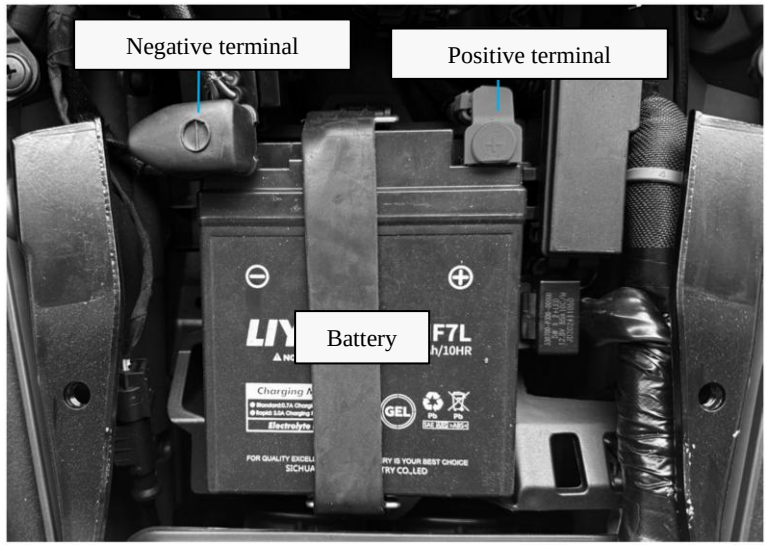
The onboard tools are embedded under seat cushion towards the back.

You can use the onboard tools to conduct some simple repairs, fine-tune, and replacement of parts.

- Double-ended screwdriver
- Double-ended wrench 8*10
- Double-ended wrench 12*14
- T25-T30 hexalobular wrench
- 6mm Hexagon wrench
- Fish tail pliers

Removal and Installation of Body Components

Battery



- Disassembly

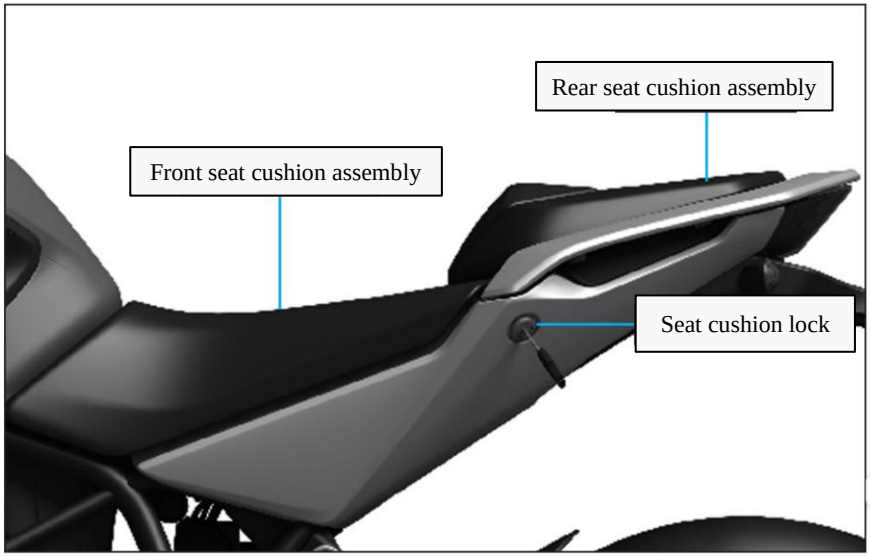
Make sure the ignition switch is turned to the " ⊠" (off) position.

1. Remove the seat cushion.
2. Release the rubber strap from the back.
3. Disconnect the negative (-) terminal of the battery.
4. Disconnect the positive (+) terminal of the battery.
5. Remove the battery, being careful not to leave the bolts and nuts.

- Installation

Install all parts in the reverse order of removal, ensuring to connect the positive terminal (+) first and the negative terminal (-) last; ensure that the bolts and nuts are tightened.

Seat Cushion



Disassembly

1. Insert the ignition key into the seat cushion lock, rotate the key clockwise, and at the same time, apply slight force to the front end of the rear seat cushion assembly. Then, lift the rear end upwards to disengage it from the lock, and finally, apply slight force backwards to remove the rear seat cushion assembly.
2. Use the onboard tools to remove bolt at the rear left and right of seat cushion, then lift it up.

Installation

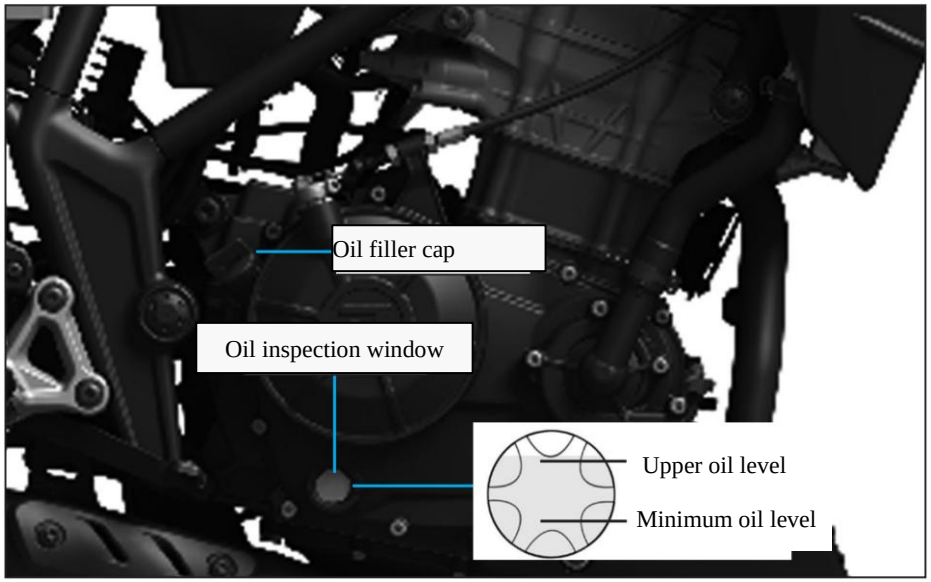
1. Align the rear end of the front seat cushion assembly with the rear hole positions and install the screws.
2. Insert the front and rear pins of the rear seat cushion assembly into the frame slot respectively.
3. Align the seat lock pin with the lock hole, press the rear part of the seat downward, insert the lock pin into the lock hole of the seat lock and lock it automatically by the lock tongue, and pull it up slightly to ensure that the seat is firmly locked in place.
4. Whe the seat cushion is closed, the seat cushion will automatically lock.

Notes

- Ensure the seat pin is securely inserted into the frame slot; otherwise, the seat may not support your weight and could be damaged.

Engine oil

Inspect and top up engine oil



Check the engine oil

1. Let the engine idle for 3 - 5 minutes, turn the ignition switch to the "⊗" (OFF) position, and then wait for 2 - 3 minutes.
2. Place the motorcycle vertically upward on a stable and flat ground, remove the left windshield and check whether the oil level is between the upper and lower limit mark from the engine oil inspection window.

Add the engine oil

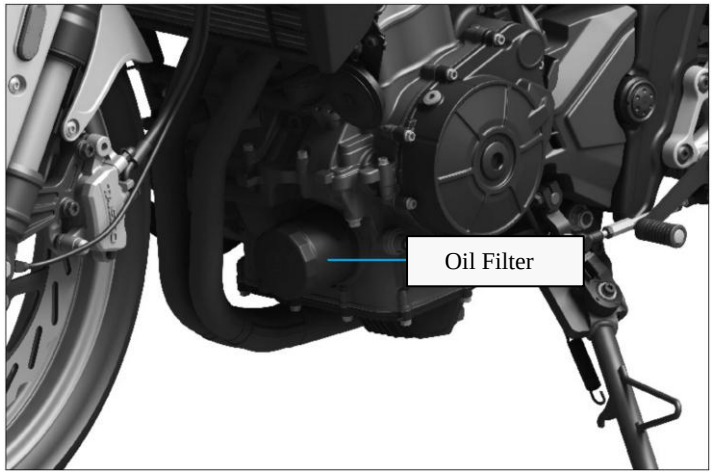
When the engine oil level is below or close to the lower limit mark, add the recommended engine oil.

1. Remove the engine oil filler cap, add the recommended oil to the upper mark of the oil level. Do not exceed the upper limit mark, and ensure that no foreign matters enter the engine oil filler. If there is any spillage, wipe it off immediately.
2. Reinstall and tighten the engine oil filler cap.

Notes

- Long-term skin contact with oil shall be avoided. Wash thoroughly after contact with oil.
- Overfilling or underfilling the oil will damage the engine. Do not mix oils of different brands and grades, as this will affect lubrication and clutch operation.
- The used engine oil and container are harmful to health and the environment. They cannot be disposed of as household waste and should be handled in accordance with local environmental regulations.

Replace the engine oil and the oil filter



Replace the engine oil and the oil filter

Special tools are required to replace the engine oil and the oil filter. We recommend that the inspection and maintenance be completed by an authorized KOVEMOTO Motorcycle service center. Please refer to the "Maintenance Interval Table" for the maintenance interval of engine oil and secondary oil filter.

1. If the engine is cold, please idle for 3-5 minutes, turn the ignition switch to the "⊠" (OFF) position, and then wait for another 2-3 minutes.
2. Park the motorcycle on a stable, level surface and place an oil drain pan beneath the drain bolt.
3. Remove the filter neck cap, drain bolt and sealing washer, and drain the oil until it drips.
4. Use filter wrench to remove the filter, drain the remaining engine oil, and ensure that the old rubber ring is not stuck to the engine.
5. Apply a thin layer of engine oil to the rubber seal on the new oil filter.
6. Install an new engine oil filter and tighten it.
7. Install a new sealing washer on the oil drain bolt and tighten the oil drain bolt.
8. Add the recommended original engine oil into the crankshaft tank, and tighten the oil filler cap after filling.
9. Check the engine oil for leakage.

When replacing the filter element, the required oil level: 2.4 L

When the filter element is not replaced, the required oil level: 2.2 L

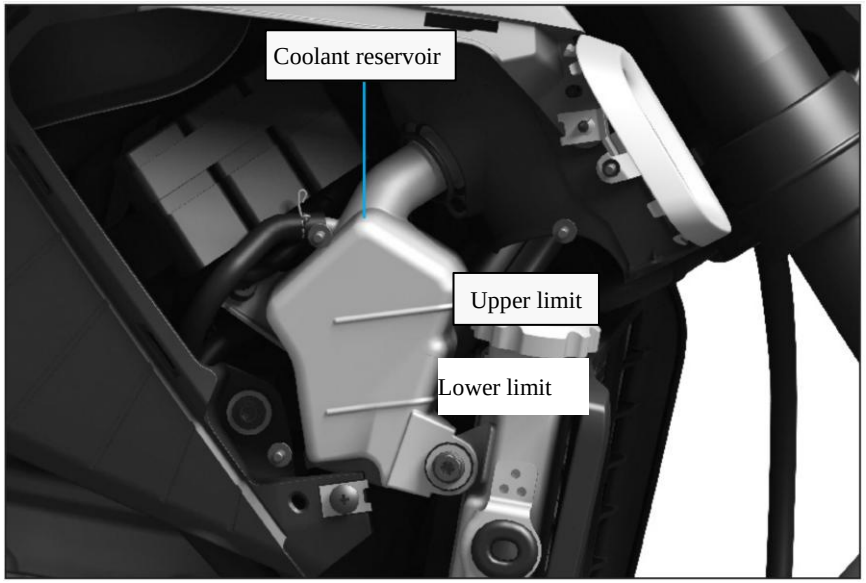
When reassembling after disassembling the engine, the required oil level: 2.5 L

Notes

- Using the wrong engine oil and oil filter can seriously damage the engine.
- Dispose of the engine oil and oil filter at the appropriate recycling center.
- Use the specified KOVEMOTO original engine oil and oil filter.

Coolant

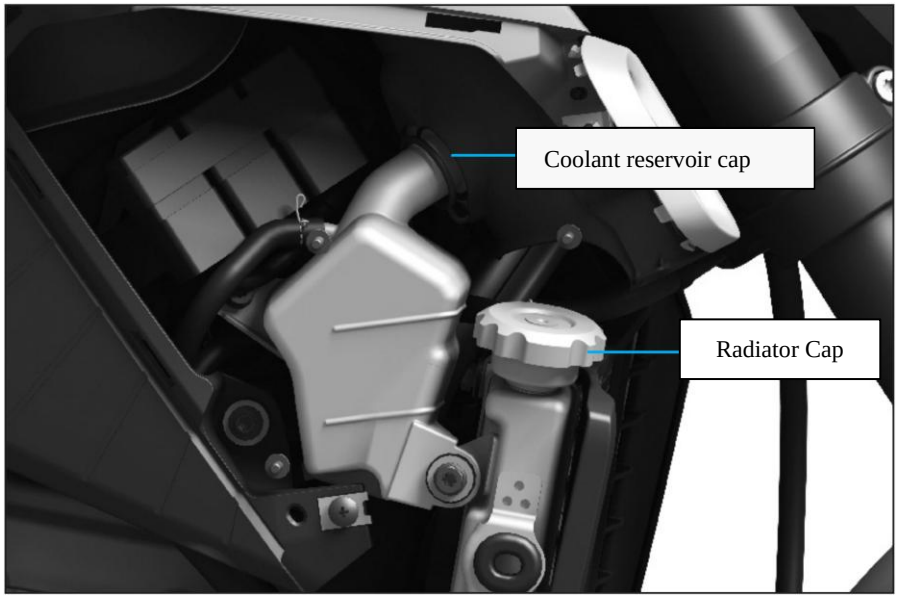
Inspect the coolant level



Check the coolant level in the reservoir when the engine is cool.

1. Park the motorcycle on a firm and flat level.
2. Keep the motorcycle upright.
3. Check if the coolant level in the coolant reservoir is between the upper limit and lower limit marks.
4. If the coolant level drops significantly or the reservoir is empty, there may be a serious leak. Please have it inspected by an authorized KOVEMOTO Motorcycle service center.

Add coolant



If the coolant is below lower limit, add the recommended coolant until the level reaches upper limit.

When adding the coolant, open the radiator cap to release pressure when the engine is cool, then open the water reservoir at the other end to add coolant. Ensure no foreign matter enter the cap opening and do not exceed upper limit during the process.

After completing the addition, reinstall the relevant caps.

Replace the coolant

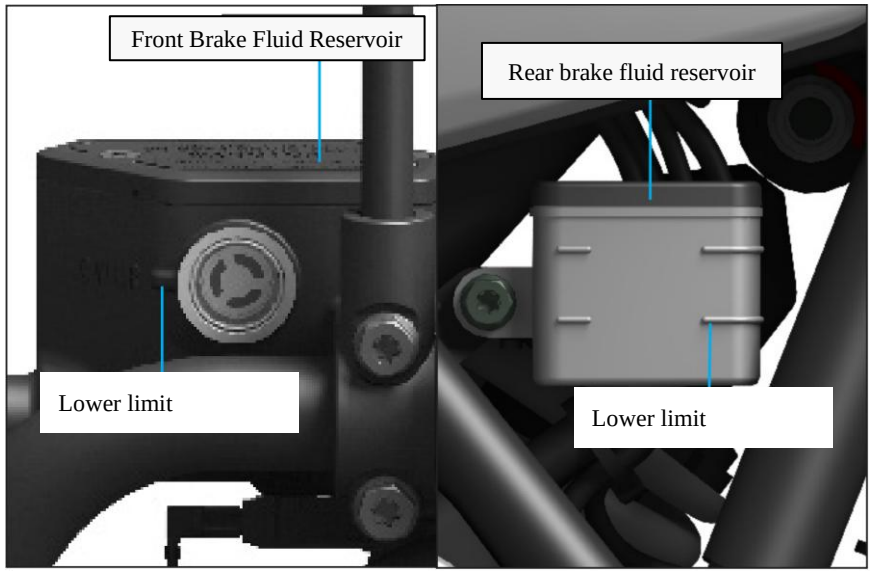
Unless you possess the appropriate tools and qualified mechanical skills, please entrust the coolant replacement to the authorized KOVEMOTO Motorcycle service center.

⚠Warning

· Do not remove the radiator cap while the engine is still hot, as this may cause the coolant to spray out and potentially cause burns.

Brake

Inspect the brake fluid.



1. Place the motorcycle vertically on a firm and flat ground.
2. Check if the brake fluid reservoirs are horizontal.
3. Check if the brake fluid is visible in the inspection window. If the brake fluid level is below the lower limit of the inspection window, add it immediately.

If the brake fluid level in the oil cup is lower than the lower limit (LOWER) level mark or the free stroke of the brake rod and pedal is out of limit, users must check whether the brake pad is worn. If the brake pad is not worn, there may be leakage. Please have it repaired by an authorized KOVEMOTO Motorcycle service center.

Check the brake pads.

Inspect the condition of the brake pad wear indicator. If the brake pad wears down to the indicator mark, it must be replaced.

Front

Inspect the brake pad from beneath the brake caliper.

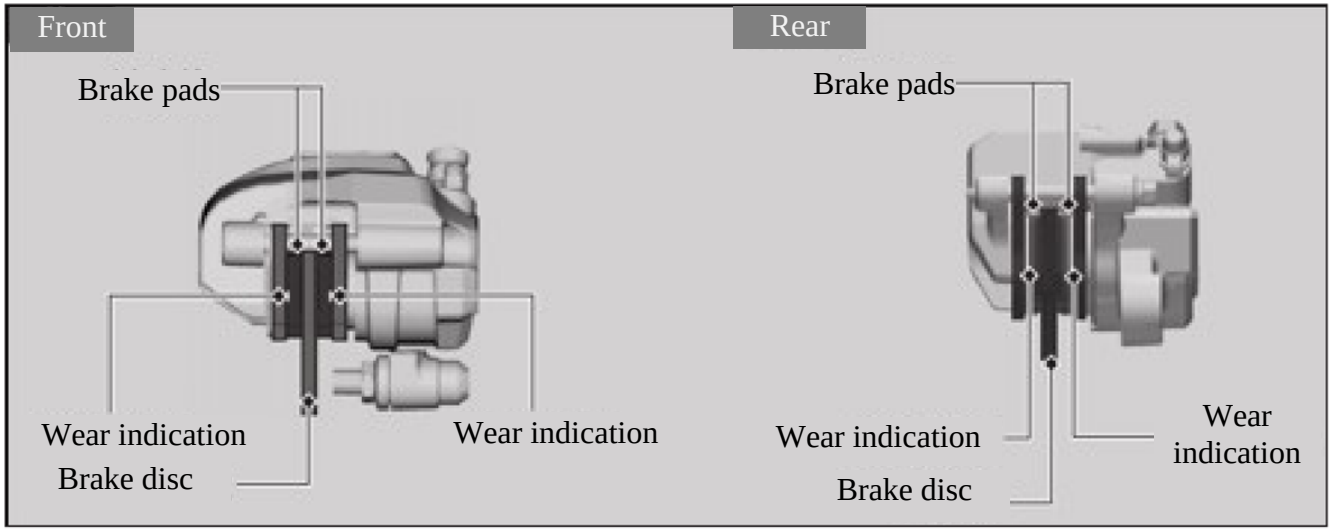
Brake pad lining thickness: 6.5mm (indicator mark indicates the wear limit)

Rear

Inspect the brake pad from the right rear of the brake caliper.

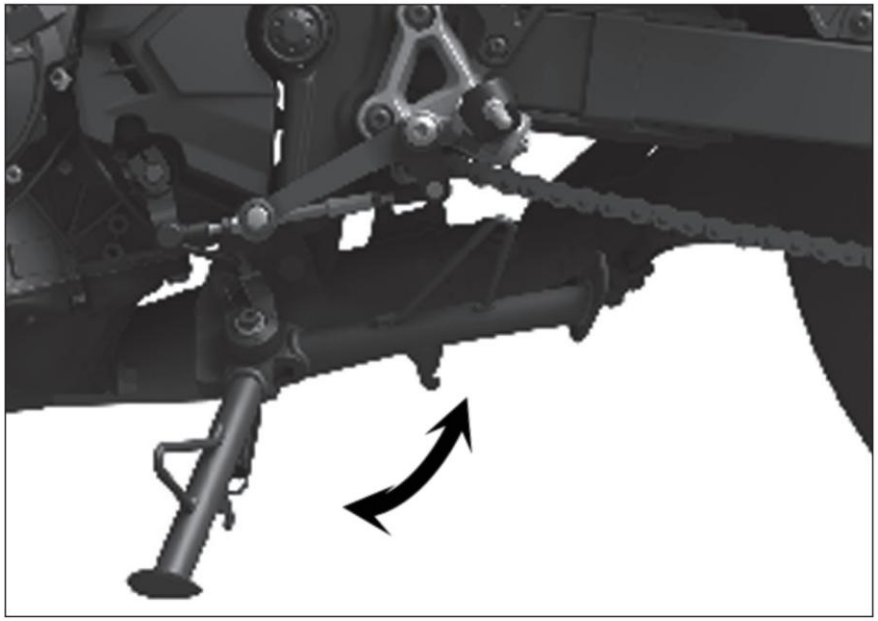
Brake pad lining thickness: 6.5mm (indicator mark indicates the wear limit)

If necessary, have the brake pads replaced by an authorized KOVEMOTO Motorcycle service center (when the wear limit is reached, both the left and right brake pads must be replaced simultaneously).



Side stand

Check side stand



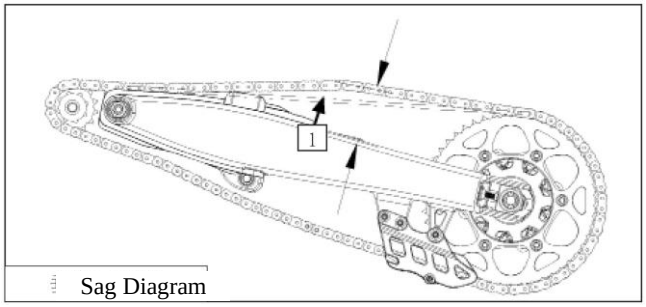
1. Check if the side stand operates smoothly. If the side stand is stuck or makes a squeaking noise, clean the pivot area and lubricate with clean grease.
2. Check the spring damages or inelasticity.

Drive Chain

Check the drive chain sag

Check the sag at various points along the chain. If the sag is inconsistent at any point, some links may be bent or kinked. Please have the chain inspected by an authorized KOVEMOTO motorcycle service center.

1. Put the transmission into neutral and turn off the engine.
2. Place the motorcycle vertically on a firm and flat ground.
3. Determine the chain sag by pushing the chain toward the swingarm in the area behind the chain guard.
4. Rotate the rear wheel forward and check if the chain operates smoothly.
5. Inspect the sprocket.
6. Clean and lubricate the drive chain.



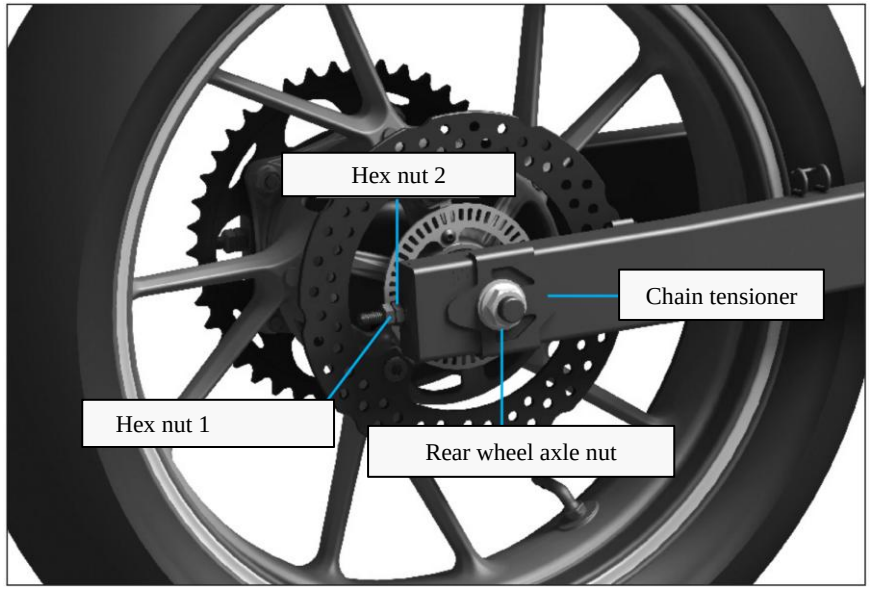
Sag Diagram

Drive chain sag: 20-35 mm
If the sag exceeds 35mm, you must not continue riding the motorcycle.

Notes

- When inspecting the drive chain sag, ensure that the upper section of the chain is properly tensioned.

Adjust the sag of the drive chain



When adjusting the sag of the drive chain:

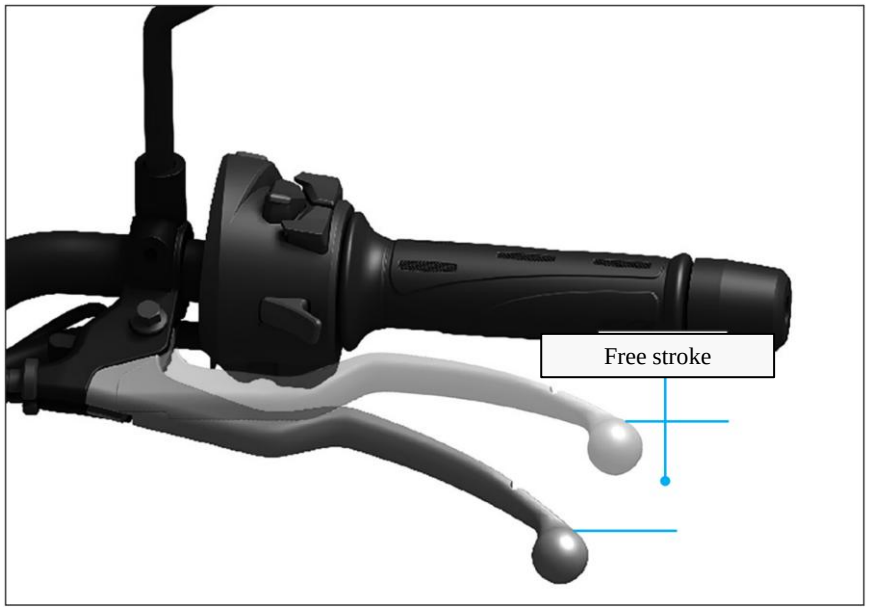
1. Put the transmission into neutral and turn off the engine.
2. Place the motorcycle vertically on a stable and flat surface, and support the vehicle with the side stand.
3. Loosen the rear wheel shaft and loosen the hex nut 1 on both sides of the swingarm.
4. Adjust the hex nut 2 on both sides; turning them clockwise will tighten the chain, while turning them counterclockwise will loosen the chain.
5. Rotate hex nut 2 on both sides to adjust the chain sag, ensuring left and right on both sides are on sag. The chain sag adjustment range is 20-35mm (see the sag diagram for details).
6. Check the chain tension to ensure it meets the requirements.
7. Tighten nut 1 on both sides and tighten the wheel shaft nut (Torque: 128 N·m).

Notes

- When adjusting the drive chain sag, ensure that the upper section of the chain is taut.

Clutch

Clutch lever free stroke: 10-15mm



Inspect the clutch cable for any bends or signs of damage. If necessary, have it replaced by an authorized KOVEMOTO motorcycle service center.

Lubricate the clutch cable with a dedicated cable lubricant to prevent premature wear and corrosion.

Notes

- Incorrect adjustment of the free stroke can lead to premature wear of the clutch.

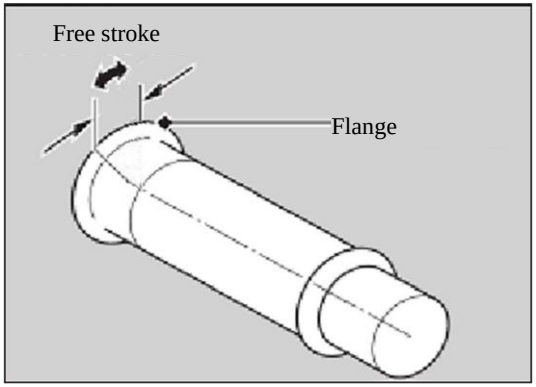
Accelerator

Inspect the throttle

With the engine off, check if the throttle can smoothly transition from fully closed to fully open in all handlebar positions and if the free play is correct.

If the throttle operation is not smooth, it automatically closes, or the cable is damaged, have it inspected by an authorized KOVEMOTO motorcycle service center.

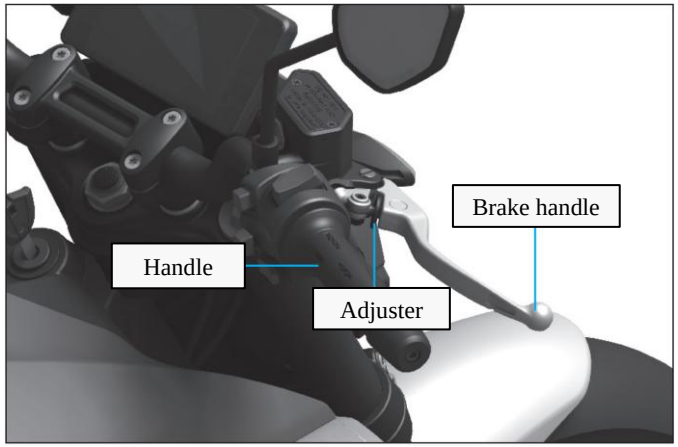
Free play of the throttle handle flange: 2-6mm



Notes

- Do not turn the adjuster beyond its natural limit..

Adjust the brake handle



You can adjust the distance between the top of the brake handle and the handlebar grip.

Adjustment method

Push the brake lever outward to the desired position, and then rotate the adjuster. When rotated clockwise, the brake lever will move closer to the handlebar; when rotated counterclockwise, the brake lever will move farther away from the handlebar. After adjustment, check whether the brake handle works correctly before riding.

Headlight

Adjust the headlight beam

You can adjust the angle of the headlight beam by rotating the adjusting screw, and the clockwise rotation is the overall decline of the headlight beam; The counterclockwise rotation is the overall rise of the headlight beam. Please comply with local laws and regulations.



Fault Handling

Please carefully review the "Maintenance" and "Technical Parameters" sections before servicing. For repair data, refer to the "Technical Parameters."

The engine fails to start. 55

The Warning Indicator is On or Flashing 56

Puncture 58

Removing the Wheel 59

Electrical malfunction 63

The engine fails to start.

The starter motor runs, but the engine fails to start.

Inspect the following items:

- Verify that the correct engine start sequence is being conducted.
- Check if there is fuel in the tank.
- Check whether the battery voltage is too low.
- Check if side stand retracted.

The starter motor is not functioning.

Inspect the following items:

- Verify that the engine start sequence is correct.
- Ensure that the engine OFF switch is in the operating position.
- Check whether the battery voltage is too low, the fuse is blown, or the battery connection is loose. If the problem persists, please have it inspected by an authorized KOVEMOTO motorcycle service center.

Notes

- Continuing to ride with an overheated engine can cause serious engine damage.
- Running the engine at high speed in neutral for an extended period may trigger a high coolant temperature alarm.

Overheating (water temperature warning indicator on)

If the engine gets overheating caused by the water temperature warning indicator on and slow acceleration, push motorcycle to a safe roadside and take the following measures:

1. Extinguish the engine with the ignition switch, then rotate it to the " " (on) position.
2. Check if radiator fan runs normally, then rotate the ignition switch to the " " (off) position.

If the fan does not run: Do not start the engine, and have your motorcycle checked and repaired by a KOVE authorized service center.

If the fan runs: Keep the gnition switch in the " " (off) position and wait for the engine to cool down.

3. After the engine has cooled, check the radiator for leaks.

If there is a leak: Do not start Engine, and have your motorcycle by a KOVE authorized service center.

4. Check the coolant in the water reservoir and add if necessary.
5. If all checks from items 1 to 4 are normal, you may continue riding, but please keep a close attention on the indicators.

The Warning Indicator is On or Flashing

Oil pressure indicator

If the oil pressure indicator is on, push the motorcycle to a safe side of the road and turn off the engine, and take the following measures:

1. Check the engine oil level and add oil if necessary.
2. You can continue to ride only after the indicator goes out.
3. When the oil is at or near the lower limit, a rapid increase in speed may cause the indicator light to illuminate.
4. If the oil level is at a normal level and the indicator is still on, please turn off the engine and contact the special repair shop of KOVEMOTO.
5. If the engine oil drops quickly, your motorcycle may leak oil or have other serious problems, please send it to the special repair shop of KOVEMOTO.

Electronic injection malfunction indicator light

If the EFI fault indicator comes on while riding, there may be a serious problem with your electronic fuel injection system. Please slow down and have it inspected by a KOVE authorized service center as soon as possible.

Notes

- Continued driving at low oil pressure can seriously damage the engine.

ABS fault indicator (Anti-lock braking system)

If the ABS fault indicator shows any of the following conditions, it indicates a fault in your ABS, and emergency braking will not provide anti-lock function. Please have it inspected by a KOVE authorized service center as soon as possible.

- During riding, the ABS fault indicator stays on or flashes.
- When Ignition is rotated from "⊗" (off) to "○" (on), indicator does not come on.
- When the speed is above 5 km/h, the indicator does not extinguish.

The fault indicator may flash or stay on under the following conditions:

- Rotating the front wheel alone.
- Rotating the rear wheel alone.
- The rear wheel gets slippery.
- Riding on special road surfaces.

You can rotate the ignition switch to the "⊗" (OFF) position and then to the "○" (ON) position to power on the system.

Puncture

Repairing a flat tire or removing a wheel requires special tools and professional skills. We recommend leaving such maintenance tasks to a KOVE authorized repair shop. If you have performed overtightened tire repair, be sure to have tire inspected or tire replace KOVE authorized service center.

Perform emergency repairs using a tire repair kit

If your tire has a minor puncture, you can use an inner tubeless tire repair kit to perform emergency repairs.

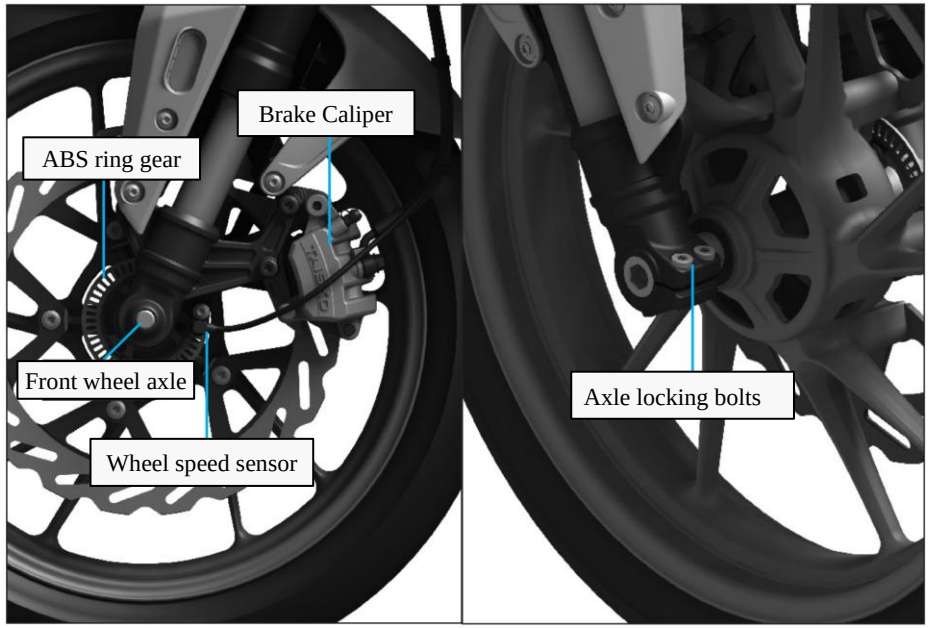
Follow the instructions provided by the tire emergency repair kit. Riding a motorcycle with a temporarily repaired tire is very dangerous, and the speed should not exceed 50 kilometers per hour. Please have the tire replaced as soon as possible at an KOVE motorcycle repair shop.

⚠Warning

- Riding a motorcycle with a temporarily patched tire is extremely hazardous. If the patch fails, it could lead to an accident, causing severe injuries or fatalities.
- If you must ride a motorcycle with a temporarily repaired tire, ride cautiously and slowly, not exceeding 50 km/h, until the tire is replaced.

Removing the Wheel

If you need to remove the wheel to repair a punctured tire, follow the steps below. Be careful not to damage the wheel speed sensor and ABS ring gear when removing and installing the wheel.



Disassemble:

1. Securely support your motorcycle with a maintenance bracket or a crane and lift the front wheels off the ground.
2. Remove the brake caliper.

- Support the brake caliper assembly well and do not hang it on the brake hose. Do not twist the brake hose.
- Avoid getting lubricating oil, engine oil or dirt on the brake disc or brake pad.
- When the brake caliper is removed, do not pull the brake handle.
- Be careful to prevent the brake caliper from scratching the wheel during removal.

3. Loosen the wheel axle locking bolt and front wheel axle.
4. Remove the front wheel axle and front wheel.

Installation

1. Place the front wheel between the front shock absorber, insert bushing (left) into the left mounting bore of the front wheel, and brake discs into caliper.

2. Insert the front wheel axle from right to left through the front wheel, tighten the front wheel axle, and then install the two locking bolts on the right side. (Front wheel axle M16, torque: 88 N·m; front wheel axle locking bolt M8, torque: 22 N·m.)

3. Install the caliper and tighten the bolt. (Torque: 22 N·m) Prevent the brake caliper from scratching the wheel during installation. Please use a new assembly bolt when installing the brake caliper.

4. Place the front wheel on the ground.

5. Operate the hand brake lever several times, then shake the front fork up and down several times.

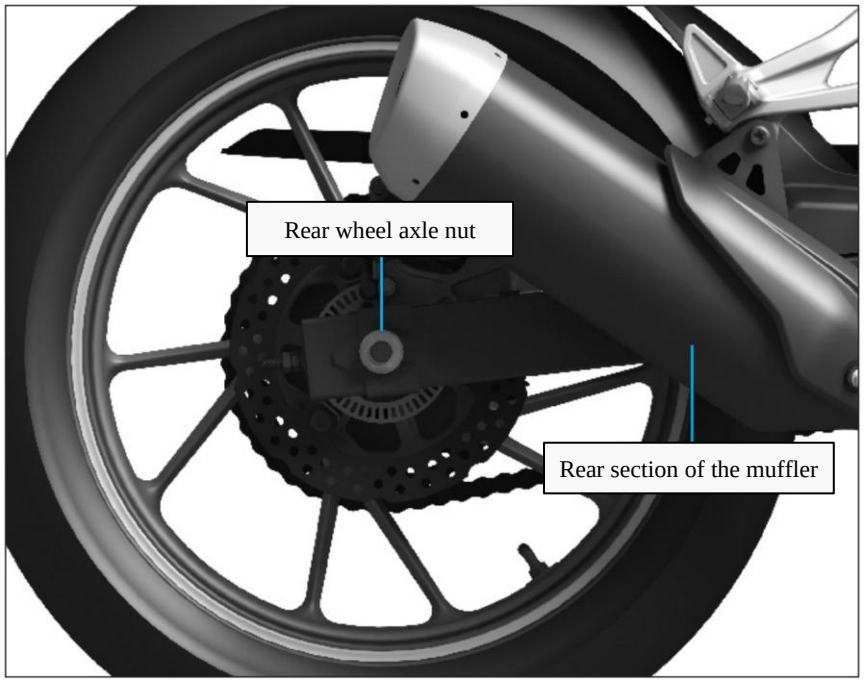
6. Lift the front wheel off the ground again, and after releasing the brake lever, check if the wheel turns smoothly.

During installation, please fasten the corresponding bolts according to the torque mentioned above. If you do not have a torque wrench, please have it done at KOVE authorized repair shop as soon as possible. Improper installation may lead to reduced braking performance.

Notes

- When reinstalling the wheel or caliper, carefully position the brake disc between the brake pads to prevent scratching them.
- When installing the front wheel, first tighten the front axle, then secure the lock bolt on the right side of the front axle. The order of these steps cannot be reversed.

Rear wheel



Disassembly

1. Park the motorcycle on a firm and flat level.
2. Firmly support your motorcycle with side stands or service bracket and lift the rear wheel off the ground.
3. Remove the rear axle locking nut, washer, and adjusting block on both left and right sides.
4. Hold the rear wheel to remove the rear wheel axle and the left and right rear wheel bushings.
5. Push the rear wheel forward to disengage the chain from the large sprocket.
6. Remove the rear wheel.

Installation

1. Install the rear wheel in the reverse order of removal to prevent the brake caliper from scratching the wheel during installation.
2. Apply the grease evenly on bearing.
3. Align the holes of the rear wheel with the locating pins on the rear wheel axle and insert them into the assembly holes of the rear wheel.
4. Install the left and right bushings of the rear wheel along with the washer (apply the grease evenly to the area where the rear wheel bushings contact the washer).
5. Tighten the rear wheel axle nut (Torque: 128 N·m).
6. Check if the wheel rotates smooth.

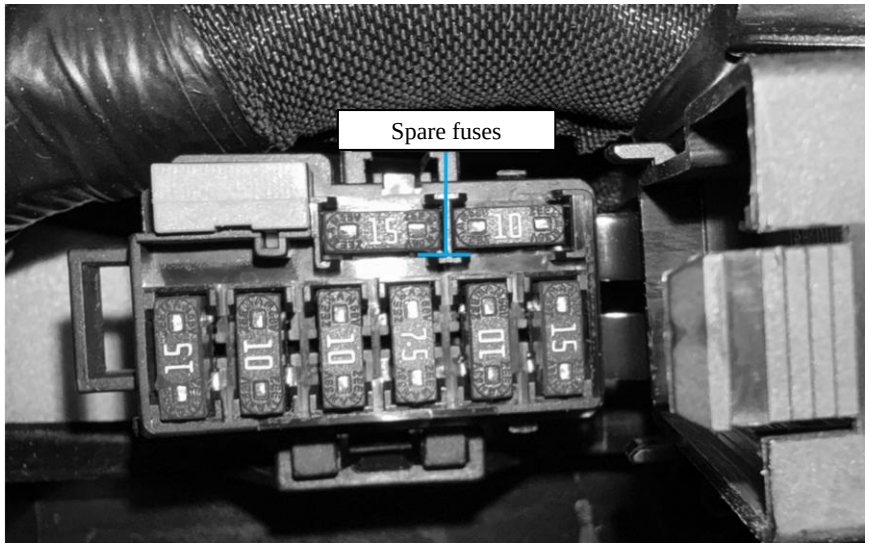
If a torque wrench was not used during the installation process, please take it to an authorized KOVEMOTO motorcycle service center as soon as possible. Improper installation may result in reduced braking performance.

Notes

- When reinstalling the wheel or caliper, carefully position the brake disc between the brake pads to avoid scratches.

Electrical malfunction

Fuse blown

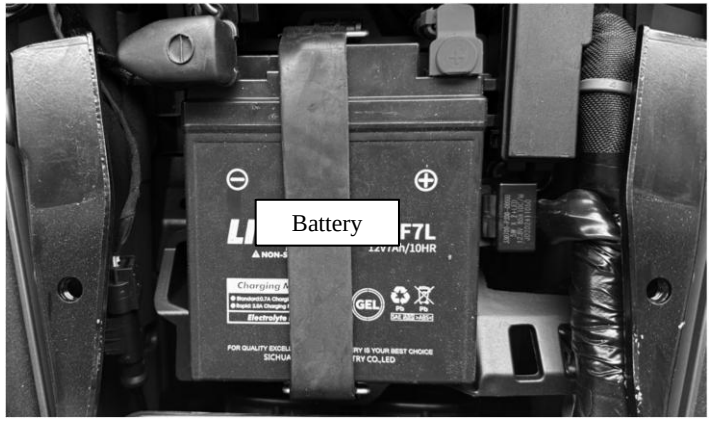


Replace the fuse wire.

1. Remove the seat cushion.
2. Open the fuse box, remove the fuse, and check if the fuse is blown. If blown, be sure to replace it with the fuse with the same specification.
3. Close the fuse box cover and install the seat cushion.

The battery is dead.

Please charge the battery using a dedicated motorcycle lithium battery charger. Remove the battery from the motorcycle before charging. If the battery does not recover after charging, please contact the authorized KOVEMOTO Motorcycle service center.



Notes

- Avoid using a car battery charger or a motorcycle lead-acid battery charger for charging, as this may result in battery damage or even a fire.
- Before handling the fuse, please refer to "Inspect and replace the fuses".

Relevant information

Key 65

Instrument, Controls, and Other Functions 66

Motorcycle Care 67

Motorcycle Parking 70

Motorcycle Transport 70

You and Your Environment 71

Vehicle identification number, engine number, and nameplate 72

Catalytic Converter 73

Key

Ignition Key



The motorcycle comes with two ignition keys, which are used to start the engine.

- Do not bend the key or subject it to excessive pressure.
- Avoid prolonged exposure to direct sunlight or high-temperature environments.
- Do not grind, bore, or alter its shape in any way.

Notes

- To prevent loss, please keep your key safe. If you are concerned about losing it, make a duplicate immediately.

Instrument, Controls, and Other Functions

Ignition Switch, Engine OFF switch

Ignition switch

1 When parked, please set the ignition switch to the "  " or "  " position to avoid unnecessary battery drain. Excessive battery drain may prevent starting.

2 Do not turn the key while riding.

Engine OFF Switch

Do not use the engine OFF switch unless in an emergency. Doing so while riding will cause the engine to stop suddenly, making the ride unsafe.

Odometer, Trip Meter (Sub-total)

Odometer

When the reading exceeds 999,999, the display will lock at 999,999.

Trip Meter

When the reading exceeds 999.9, the display will automatically reset to zero.

Motorcycle Care

Regular cleaning and polishing ensure a long motorcycle lifespan. A clean motorcycle makes it easier to spot potential faults. It is particularly noteworthy that anti-icing seawater and salt scattered on the road can accelerate corrosion. Be sure to clean the motorcycle thoroughly after driving on the coastal or above-mentioned road.

Cleaning

Wait for the engine, muffler, brakes, and other high-temperature components to cool before cleaning.

1. Thoroughly rinse the motorcycle with a low-pressure hose to remove loose dirt.
2. If necessary, use a sponge or soft towel dipped in mild detergent to remove dust and dirt.
3. Thoroughly rinse the motorcycle with ample clean water and dry it using a clean, soft cloth.
4. After drying the motorcycle, lubricate the moving parts, ensuring that no lubricant splashes onto the brakes or tires. Oil-contaminated brake discs, brake pads, brake drums, or brake shoes can significantly reduce braking performance and may lead to accidents.
5. After washing and drying the motorcycle, lubricate the drive chain promptly.
6. Waxing helps prevent corrosion.

Avoid using products containing strong detergents or chemical solvents, as these substances can damage the motorcycle's metal parts, paint, and plastic components. Do not wax the tires and brakes.

If your motorcycle has parts with a matte finish, avoid waxing these matte surfaces.

Cleaning Precautions

Avoid using a high-pressure water jet:

- High-pressure water jets can damage moving parts and electrical components, rendering them irreparable.

Moisture from the intake port may be drawn into the throttle body or enter the air filter.

Avoid direct water rinsing of the muffler:

- Water in the muffler may cause starting problems and rust. If detected, remove all traces and dirt immediately.

- Dry the brakes:

Water reduces braking performance. After washing, intermittently use the brakes at low speed, repeatedly pressing the brake pedal lightly to generate heat from friction, drying the water until braking efficiency is restored.

- Avoid direct water contact beneath the seat cushion:

Water entering under the seat cushion may damage electrical appliance parts.

- Avoid rinsing the air filter directly with water.

- If the air filter gets wet, the engine may fail to start.

- Avoid direct water contact near the headlight:

- After washing or riding in the rain, the internal lens of the headlight may temporarily fog up, but this does not affect its functionality. However, if you notice a significant accumulation of water or ice inside the lens, have it inspected by an authorized KOVEMOTO Motorcycle service center.

- Avoid waxing or polishing matte finishes:

- Use sufficient water and a mild cleanser to clean matte paint surfaces, and dry them with a clean, soft cloth.

Aluminum Components

Aluminum corrodes when exposed to dirt, mud, or salt. Regularly clean aluminum components and follow these guidelines to prevent scratches:

- Avoid using stiff brushes, steel wool, or any abrasive cleaning materials.
- Do not drive or scrape against the curb.

Panel

Follow these guidelines to prevent scratches and damage:

- Gently clean with a sponge and sufficient water.
- Clean with diluted detergent and rinse thoroughly with ample water to remove stubborn stains.
- Avoid exposing the instrument panel and lamp covers to corrosive liquids like gasoline and brake fluid.

Motorcycle Parking

If you leave your motorcycle outdoors, you should consider using a full motorcycle cover. If you do not ride for an extended period of time, please follow these guidelines:

- Wash the motorcycle and wax all painted surfaces (excluding matte finishes), then apply anti-rust oil to all chrome parts.
- Lubricate the drive chain.
- Place the motorcycle on a maintenance stand and elevate it with wooden blocks to ensure both tires are off the ground.
- After rain, remove the body cover and dry it in a ventilated place.
- Remove the battery to avoid discharging.

Fully charge the battery and store it in a cool, well-ventilated area. If you leave the battery in place, disconnect the negative terminal to prevent discharge. Before reusing a stored motorcycle, inspect all items as specified in the maintenance interval table.

Motorcycle Transport

If you need to transport your motorcycle, use a motorcycle trailer, loading ramp, or flatbed truck equipped with a lifting platform, and secure it with motorcycle tie-down straps. Never attempt to tow a motorcycle with its wheels on the ground.

Notes

- Towing a motorcycle can severely damage the drivetrain.

You and Your Environment

Owning and riding a motorcycle is an enjoyable experience, but you must take responsibility for protecting the environment.

Select the appropriate detegrent

Use biodegradable detergents when washing your motorcycle, and avoid sprays containing chlorofluorocarbons (CFCs) as they harm the protective ozone layer in the atmosphere.

Waste Recycling

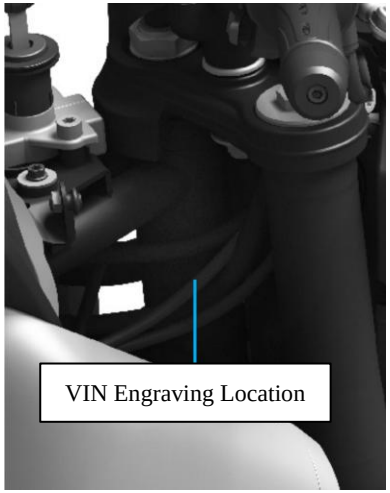
Sort the oil and other toxic wastes into approved containers and send them to the recycling center. Call the local national public affairs or environmental service office for the recycling center in your area and the disposal method of non-recyclable wastes. Do not pour used engine oil into trash cans, sewers or ground, because the used oil, gasoline, coolant and cleaning solvent contain toxic substances, which will hurt cleaners, pollute drinking water, lakes, rivers and seas.

Vehicle identification number, engine number, and nameplate

When registering a motorcycle, you must provide the vehicle identification number and engine number. These unique identifiers are used to distinguish your motorcycle. When ordering replacement parts, ensure you record these numbers and store them in a secure location.

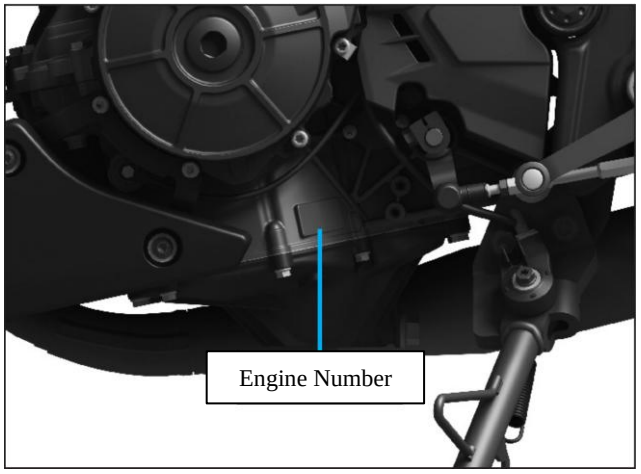
Vehicle Identification Number (VIN)

The VIN is engraved on the left side of the frame upright tube



Engine Number

The engine number is engraved on the middle position of the left rear side of the engine transmission case.



Nameplate

The nameplate is riveted on the left side of the frame upright tube



Catalytic Converter

This motorcycle is equipped with a three-way catalytic converter. The catalytic converter contains precious metals as catalysts for high-temperature chemical reactions, transforming hydrocarbons (HC), carbon monoxide (CO), and nitrogen oxides (NOx) in the exhaust into compliant mixtures.

A faulty catalytic converter can pollute the air and reduce your engine's performance. When replacing it, always use genuine Buick motorcycle parts.

- Follow these guidelines to safeguard your motorcycle's catalytic converter:
- Only unleaded gasoline should be used, as leaded gasoline can damage the catalytic converter.
- Maintain the engine in optimal operating condition.

If the engine fails to start, backfires, stalls, or exhibits other poor performance, stop riding immediately and turn off the engine. Have the motorcycle inspected by an authorized KOVEMOTO motorcycle service center.

Technical Parameters

Vehicle-Related Parameters.....75

Vehicle-Related Parameters -1

Vehicle Model	KY250R, KY350R	Engine Model	KY250R: Z262MM KY350R: Z269MP
Total length (mm)	1980	Bore (mm) × Stroke (mm)	KY250R: 62.0*41.4 KY350R: 69.0*46.0
Total width (mm)	835	Compression ratio	12.5:1
Total height (mm)	1075	Maximum power (kW/r/min)	KY250R: 24.0/11500 KY350R: 35.0/11500
Wheelbase (mm)	1370	Maximum torque (N·m/rpm)	KY250R: 22.5/9000 KY350R: 32.0/9000
Wheelbase (mm)	/	Idle speed (rpm)	1750±150
Curb weight (kg)	153	Cylinder capacity (mL)	KY250R: 249 KY350R: 344
Payload (kg) To prevent the brake caliper from scratching the wheel during installation, please use new parts when installing caliper.	150	Spark plug	BN9RD
Front tire specifications	110/70R17	Spark plug gap (mm)	0.7-0.9
Rear tire specifications	KY250R: 140/60R17 KY350R: 150/60R17	Valve clearance (mm)	intake valve: 0.1-0.16
Maximum speed (km/h)	KY250R: 145 KY350R: 180		Exhaust valve: 0.16-0.22

Vehicle-Related Parameters - 2

Lubricating oil capacity (L)		Main fuse	30A
Fuel capacity (L)	13±0.2	Neutral indicator light	LED
Primary transmission ratio	2.457	Headlight	LED
First gear	3.077	Front position lamp	LED
Second gear	2.200	Rear position lamp/Brake lamp	LED
Third gear	1.737	Front turn signal	LED
Fourth gear	1.350	Rear turn signal	LED
Fifth gear	1.182	Rear license plate lamp	LED
Sixth gear	1.043	Turn indicator light	LED
Final transmission ratio	KY250R: 3.357 KY350R: 3.000	Instrument indicator light	LED
Battery	12V7Ah	Ignition mode	ECU controls ignition