CFMOTO

MORE FUN.

150 AURA

Owner's Manual

Read this manual carefully

It contains important safety information.
Make sure operator holds a valid driver license.
Passengers under 12 are prohibited.

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FOREWORD

Thank you for purchasing a CFMOTO vehicle, and welcome to our world-wide family of CFMOTO enthusiasts. Be sure to visit us online at www.cfmoto.com for the latest news, new product introductions, upcoming events, and more.

CFMOTO is an international company that specializes in the development, manufacture, and marketing of motorcycles, e-motorcycles, e-bicycles, all-terrain vehicles, utility vehicles, large displacement motorcycles, and their core components. Founded in 1989, CFMOTO is devoted to the development of independent brand cultivation and R&D innovation.

CFMOTO products are currently distributed through more than 2000 companions worldwide in more than 100 countries and regions. CFMOTO is edging into the advanced ranks in the world of powersports, and aims to supply superior products to dealers and fans globally.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance. Information about major repairs is outlined in the CFMOTO Service Manual.

Your CFMOTO dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.

The information in this manual includes the most current product information available at the time of publishing and may contain product information that does not apply to your particular market. The instructions contained in this publication are not legally binding. CFMOTO reserves the right to modify or completely delete technical instructions, service instructions, maintenance instructions, prices, colors, shapes, materials, designs, configurations and similar content without prior notice and without reason. Due to continuous improvements in the design and quality of production components, minor discrepancies may result between the actual vehicle and the information provided within. No liability can be accepted for omissions, deviations, inaccuracies, printing defects or errors in the delivery method, drawings and

instructions. Any reproduction or reuse of the images, descriptions and/or procedures within, whether whole or in part, is expressly prohibited without written permission from the copyright holder.

Before every ride, please inspect your vehicle and follow the basic maintenance procedures before riding. Please keep this manual together with your vehicle, even when transferring the vehicle to others.
Zhejiang CFMOTO Power Co., Ltd reserves the final explanation rights of the owner's manual.
This manual is for the following vehicles: CF150T-32 / CF150T-32A

⚠DANGER
Operating, servicing and maintaining on-road or off-road vehicles can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information, go to: www.p65warnings.ca.gov

EVAP System (Evaporative Emission Control System)

(If Equipped)

When required by environmental emissions regulations, this vehicle is manufactured with a fuel evaporation system (EVAP) to prevent fuel vapors entering the atmosphere from the fuel tank and fuel system.

During routine maintenance, visually inspect all hose connections for leaks or blockage. Ensure the hoses are not clogged or kinked, which could damage the fuel pump or distort the fuel tank. No other maintenance is necessary.

Contact your dealer if repair is required. Do not modify the EVAP system. Modifying any part of this system will violate environmental emissions regulations.

Signal Words

A signal word calls attention to a safety message or messages, a property damage message or messages, and designates a degree or level of hazard seriousness. The standard signal words in this manual are: DANGER, WARNING, CAUTION and NOTE.

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual:

⚠DANGER
This safety alert and icon indicates a potential hazard that may result in serious injury or death.

⚠WARNING
This safety alert and icon indicates a potential hazard that may result in minor or moderate personal injury and/or damage to the vehicle.

⚠CAUTION
This safety alert and icon indicates a potential hazard that may result in damage to the vehicle.

NOTE:

A note or notice will alert you to important information or instructions.

READ THE OWNER'S MANUAL
FOLLOW ALL INSTRUCTIONS AND WARNINGS

⚠WARNING
Read, understand, and follow all of the instructions and safety precautions in this manual and on all product labels. Failure to follow the safety precautions could result in serious injury or death. Failure to follow the safety precautions could result in serious injury or death.

⚠WARNING
The engine exhaust gas from this product contains CO, which is deadly and can cause headaches, giddiness, loss of consciousness, or even death.

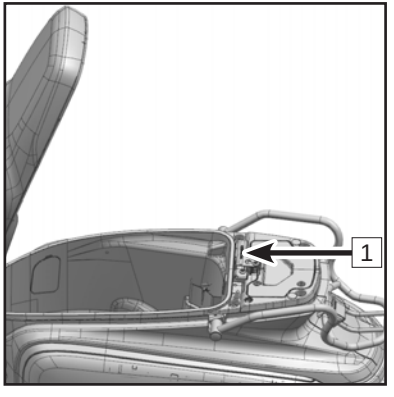
VIN AND ENGINE SERIAL NUMBER

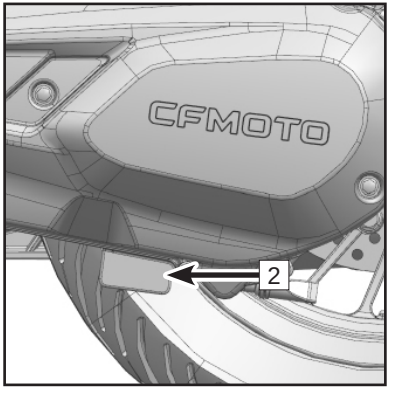
Please record the VIN, engine serial number and name plate information in the spaces below.

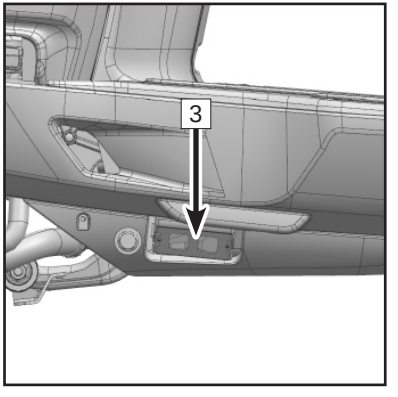
Vehicle Identification Number:

Engine Serial Number:

Vehicle Plate:







1	VIN	2	Engine Serial Number	3	Vehicle Plate

SPECIFICATIONS

	150 AURA	
	CF150T-32	CF150T-32A
Performance		
Max Power	15.8 Hp (11.8 Kw) / 8500 RPM	
Max Torque	10.5 ft-lb (14.3 N•m) / 6500 RPM	
Min. Turn Diameter	12.8 ft (3.9 m)	
Top Designed Speed	61.5 mph (99 km/h)	
Size		
Length	74.4 in. (1890 mm)	
Width	28.5 in. (725 mm)	
Height	45.1 in. (1146 mm)	
Wheelbase	52.9 in. (1343 mm)	
Seat Height	30.3 in. (770 mm)	
Ground Clearance	4.1 in. (105 mm)	
Curb weight	291 lb. (132 kg)	
Engine		
Type	Single Cylinder, Four Stroke, Horizontal, Liquid cooled, SOHC	
Displacement	149.5 cm^3	
Bore × Stroke	2.29 in x 2.2 in (58.3 mm × 56 mm)	
Compression Ratio	11.6 : 1	
Starting System	Electric Starter	
Fuel Supplying System	EFI	

Ignition Control System		ECU Ignition
Lubrication System		Pressure/Splash Lubrication
Oil Capacity		When changing an oil filter: 0.95 qt (0.9 L)
Engine Oil Type		SAE 10W-40 SJ and above JASO MA2
Transmission Oil Type		
Transmission Oil Capacity		4.06 oz (0.12 L)
Coolant Capacity		18.6 oz + 2.54 oz (550 ml + 75 ml) (Reservoir)
Coolant Type		CFMOTO recommended organic coolant, do not use inorganic coolant
Idle speed		1700 RPM ± 170 RPM
Transmission		
Transmission Type		CVT
Clutch type		Dry Centrifugation
Driving System		Belt Drive
Primary Reduction Ratio		0.82~3.02
First Gear		3.667
Second Gear		2.688
Chassis		
Tire Size	Front	110/70-12 47L
	Rear	120/70-12 51L
Rim Size	Front	E 12×MT2.75
	Rear	E 12×MT2.75
Capacity of Fuel Tank		2.1 gal (8 L)

Storage capacity of fuel tank when meter is flashing (max)		0.29 gal (1.1 L)
Average fuel consumption per 100 km		≤ 0.71 gal (2.7 L)
Electric Components		
Battery		12 V/7 Ah
Headlight		Low Beam LED: 11.5 W High Beam LED: 19.5 W Front Position Light LED: 4.7 W
Turn Light	Front	LED: 4.6 W
	Rear	LED: 3.8 W
Tail Light		Brake Light LED: 13.2 W Rear Position Light LED: 2.4 W
License Light		LED: 0.26 W
Shock Absorbers		
Front Shock Absorber Travel		3.6 in (90.8 mm)
Front Shock Absorber Preload Adjustment		Unadjustable
Front Shock Absorber Rebound Damping Adjustment		Unadjustable
Front Shock Absorber Compression Damping Adjustment		Unadjustable
Rear Shock Absorber Travel		3.1 in (79.2 mm)

Rear Shock Absorber Rebound Damping Adjustment	Unadjustable
Rear Shock Absorber Compression Damping Adjustment	Unadjustable
Rear Shock Absorber Spring Preload	Unadjustable

OPERATOR SAFETY

General Safety Precautions

⚠WARNING
Please read this manual carefully before operating the vehicle and understand all safety warnings, precautions and operating procedures.

Age Limit

This model is for adults only. The operator must acquire a driving license as required by local laws and regulations, and children under the age of 12 are not allowed to ride CFMOTO's passenger-carrying vehicles.

Know Your Vehicle

As the operator of the vehicle, you are responsible for your personal safety, the safety of others, and the protection of the environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

Equipment Modifications

CFMOTO is concerned with the safety of our customers and of the general public. Therefore, we strongly recommend that consumers should not mount on a vehicle, any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create substantial safety hazards and increase the risk of body injury. The warranty on your vehicle is terminated if any unapproved accessory equipment has been added to the vehicle, or if any modifications have been made to the vehicle that increase its speed or power.

NOTE:

Any specific equipment that may change the handling and performance of the vehicle, including but not limited to side boxes, exhaust, side wheels, etc. Use only approved equipment and familiarize yourself with their functions and roles on the vehicle.

⚠CAUTION
The components and accessories of this motorcycle have been specially designed and verified, so we strongly recommend you use original components and install our approved accessories.

⚠CAUTION
The change of the weight of the motorcycle has a great impact on its dynamic performance, so you must accept the weight of the cargo, the number of passengers and the installed accessories stipulated by us.

Avoid Carbon Monoxide Poisoning

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, giddiness and even death. Carbon monoxide is a colorless, odorless, tasteless gas that may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can accumulate rapidly, and you can quickly be overcome and unable to save yourself. Also, deadly concentration of carbon monoxide can remain for hours or days in enclosed or poorly ventilated areas.

To prevent serious injury or death from carbon monoxide:

- Never run the vehicle in poorly ventilated or partially enclosed areas.
- Never run the vehicle outdoor where engine exhaust can be drawn into a building through openings such as windows and doors.

Avoid Gasoline Fires and Other Hazards

Gasoline is extremely flammable and highly explosive. Fuel vapors can spread and be ignited by a spark or flame many feet away from the engine. To reduce the risk of fire or explosion, follow these instructions:

- Use an approved gasoline tank to store fuel.
- Strictly adhere to proper fueling procedures.
- Never start or operate the engine if the fuel cap is not properly installed. Gasoline is poisonous and can cause injury or death.
- Never siphon gasoline by mouth.
- If you swallow gasoline, get any in your eye (s) , or inhale gasoline vapor, see a doctor immediately.
- If gasoline spills on you, wash with soap and water and change your clothes.

Fuel Minimum Octane Rating and Safety Warnings

The recommended fuel for your vehicle is E5 or 92(RON). Non-oxygenated (ethanol-free) fuel is recommended for best performance in all conditions.

⚠WARNING
Gasoline is highly flammable and explosive under certain conditions. Allow the engine and exhaust system to cool before filling the tank. Always be highly cautious whenever handling gasoline. Always refuel the vehicle when the engine is stopped outdoors or in a well-ventilated area. Do not smoke or allow open flames or sparks in or near the area where refueling is performed, or where gasoline is stored. Do not overfill the tank. Do not fill fuel to the tank neck. If gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing. Never start the engine or let it run in an enclosed area. Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time. The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.

Avoid Burns From Hot Parts

The exhaust system and engine become hot during operation. Avoid touching them during and shortly after operation to avoid burns.

Owner Responsibilities

Be Qualified and Responsible

Read this Owner's Manual and the warning labels on this vehicle carefully. Take a safety training course on open areas if possible and practice at low speed. Higher speed requires greater experience, knowledge and suitable riding conditions. Be familiar with the control technology and the general operations of the vehicle.

This vehicle is an ADULT VEHICLE ONLY. The operator must acquire a driving license as required by local laws and regulations. Operators must be tall enough with physical capacity to: be properly seated, hold the handlebar with both hands, fully operate the brake lever with the left hand/right hand, be able to firmly put both feet on the foot pegs, and be able to balance the vehicle with the feet when stopped and seated.

Carrying a Passenger

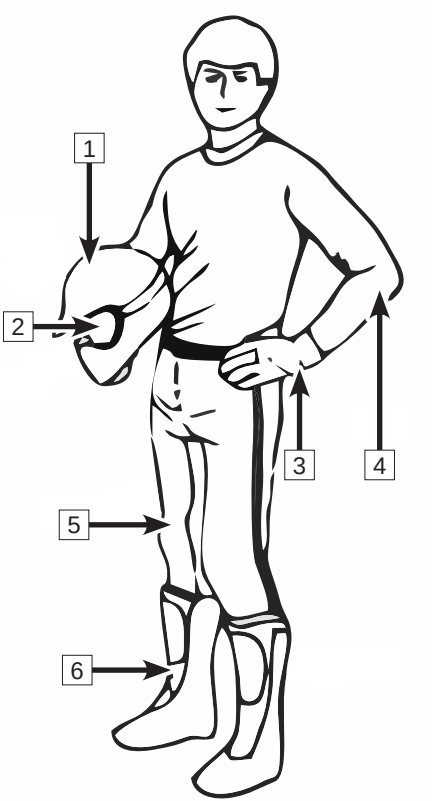
- Only carry one passenger. The passenger must be properly seated in the passenger seat.
- The passenger should be over 12 and be tall enough to always be properly seated when holding handhold, and feet firmly put on the foot pegs.
- Never carry a passenger who has used drugs or alcohol, or is tired or ill. These slow reaction time and impair judgment.
- Instruct the passenger to read the vehicle's safety labels.
- Never carry a passenger if you think that their ability or judgment is insufficient to concentrate on the terrain conditions and adapt accordingly.

Safe Riding Gear

Always wear clothing suited to the type of riding for the driver and passenger, including:

1. An approved helmet
2. Goggles
3. Gloves
4. Long-sleeved shirts or jackets
5. Long pants
6. Over-the-ankle boots

According to the actual weather, you may need extra apparel, such as anti-fog eye protection, thermal underwear and a face guard may be required for cold weather. The operator must never wear loose clothing that may get entangled in the vehicle or on tree branches and shrubs.



Helmets and Goggles

An approved helmet can prevent a serious head injury if an accident occurs. Please note that even the best helmet is no guarantee against injury.

The helmet you choose should meet the standard for your country or area. A closed-face helmet with a face shield will be better at preventing impacts from insects, flying rocks, dust and scattered debris, etc.

An open-face helmet cannot offer the same protection for your face and jaw. Please wear detachable face masks and goggles when wearing an open-face helmet.

Do not depend on eyeglasses or sunglasses for enough eye protection, as they are not rated for impact protection. Debris may fly up and break a lens, causing eye injury.

Use tinted masks or goggles in the daytime only, do not use them at night or in poor lighting. They may impair your ability to distinguish colors. Do not use them if your color discrimination is affected.

Gloves

Full-finger gloves could protect your hands from wind, sun, heat, cold, and splash. Well-fitted gloves are helpful for steering and relieving hand fatigue. If the gloves are too heavy, it will be difficult to operate the vehicle.

A pair of strong motorcycle riding gloves offer protection for your hands in the event of an accident or turnover. Snowmobile gloves offer better protection when operating in cold areas.

Jackets, Pants and Motorcycle Suits

Wear a jacket or a long-sleeved shirt and long pants, or a full set of riding suit. Quality protective gear will provide comfort, and it can help you avoid being distracted by adverse environmental elements. In case of an accident, good quality protective gear made of sturdy material may prevent or reduce injury.

In cold-weather riding, protect yourself against hypothermia. Hypothermia, a condition of low body temperature, can cause loss of concentration, slowed reactions and loss of smooth, precise muscle movement. In cool conditions, proper protective gear like a windproof jacket and insulated layers of clothing are essential. Even while riding at moderate temperatures, you can feel very cold due to the wind. Protective gear that is appropriate for cold-weather riding may be too hot when stopped. Dress in layers so that clothing can be removed as desired. Topping the protective gear with a windproof outer layer can

prevent cold air from reaching the skin.

Boots

Always wear closed-toe, over-the-ankle boots. Sturdy over-the-ankle boots with non-slip soles offer more protection, and allow you to put your foot properly on the foot pegs. For winter riding conditions, rubber-soled boots with either nylon or leather uppers and removable felt liners are best suited.

Other Riding Gear

Rain Gear

When riding in rainy weather, a rain suit or a waterproof riding suit is recommended. On long rides, it is a good idea to carry rain gear. Keeping clothes dry results in being much more comfortable and alert.

Hearing Protection

Long-term exposure to wind and engine noise when riding can cause permanent hearing loss. Properly worn hearing protective devices such as earplugs can help prevent hearing loss. Check local laws before using any hearing protective devices.

Basic Information

General Precautions Before Riding

1. Passengers should be familiar with the vehicle's performance. An improperly seated passenger can impact motorcycle stability and/or control. Passengers should stay balanced and stably seated when riding. They should neither influence the driver's operating nor carry animals.

2. Package luggage as low as possible to help stabilize the vehicle. Evenly distribute luggage on both sides of the motorcycle, and avoid luggage extending too far beyond the back of the motorcycle. If not necessary, it is recommended not to bring luggage.

3. If there is a need to carry luggage, firmly secure luggage on the motorcycle, and ensure that luggage is unmovable before riding. Re-check luggage during travel breaks. If luggage becomes unstable during the trip, stop the vehicle and re-adjust it.

4. Do not carry overloaded or oversized luggage. Overloading influences the vehicle's handling and power performance.

5. Do not mount any parts or luggage that will reduce vehicle performance. Make sure that each operation will not affect the lights, ground clearance, brake performance, side tilt, operating performance, tire compression ratio stroke, front fork or related riding performance.

6. Increased weight on the handlebar or front fork affects steering and can cause safety issues.

7. An air deflector, back or other large component will affect vehicle stability and performance. It increases the vehicle's weight and reduces the power performance. A lack of design verification may cause safety issues.

8. This vehicle cannot be modified to a side tricycle. Do not use it for towing a trailer or other vehicle. CFMOTO will not be responsible for damage or problems caused by improper modifications.

Maximum loading weight setting from the factory: 375 lb (170 kg) (including driver, passenger, luggage, and accessories)

Maximum passenger number (including driver): 2 people

AVOID DANGEROUS RIDING BEHAVIORS

The following behaviors may cause serious consequences, so instructions must be followed to avoid dangerous behaviors.

Operation Errors

⚠WARNING: Operation errors may cause serious damage to the operator, passenger and people around.

Read every instruction in this manual and be familiar with every function of this vehicle. Must participate in the safety training and know how to operate the vehicle properly in different situations and on different types of terrain.

Age Limit

⚠WARNING: It is restricted to allow underage people to ride the vehicle and people under 12 to be passengers.

Severe injury and/or death could occur if a child under the minimum age limit operates this vehicle. Even though a child may be within the recommended age group for operating, he/she may not have the skills, abilities, or judgment needed to operate safely and could be susceptible to accidents or injuries. The vehicle can only be operated by people of legal age with safe driving skills and the required license.

Illegal Carrying

⚠WARNING: It is restricted to carry more passengers than allowed.

Carrying more passengers than allowed is illegal and will much affect the vehicle's riding performance and may cause serious accidents.

Riding on Unpaved Roads

⚠WARNING: The vehicle must not ride on unpaved roads.

The tires of this vehicle are designed to drive on paved roads, not suitable for use on unpaved roads such as sand, mud, puddles and dirt roads. Driving on unpaved roads will seriously affect vehicle handling, which will greatly increase the incidence of accidents. If it is impossible to avoid short periods of driving on unpaved roads, reduce your speed and ensure that you do not make sharp turns, sudden braking, etc.

Safe Riding Gear

⚠WARNING: Riders must wear an approved helmet, goggles and protective clothing when riding.

Unapproved helmets increase the risk of head injury and death in the event of an accident. Failure to use goggles increases the risk of eye injury and death in the event of an accident. Always wear a whole set of gear to reduce accidents and increase your own protection.

Drinking and Medication

⚠WARNING: Do not operate a vehicle under the influence of alcohol, medication or drugs.

Drinking, taking medication and taking drugs will seriously affect drivers' judgment and reaction ability, as well as their perception and balance, which will greatly increase the incidence of accidents. Do not operate vehicles after drinking, taking medication or taking drugs.

Speeding

⚠WARNING: No speeding.

Speeding increases the risk of losing control of the vehicle, leading to accidents. Choose your driving speed based on vehicle load, terrain, visibility, driving conditions, and never exceed the maximum speed.

Stuns

⚠WARNING: Do not try stunts.

All stunts are dangerous, including but not limited to slippery tires, jumping, side-slip, front wheel upturn, etc. Stunt or demonstration riding can result in serious accidents. Always use normal driving methods.

Inspections and Maintenance

⚠WARNING: Check vehicle conditions before riding and service the vehicle regularly.

Checking vehicle conditions before riding can reduce the probability of accidents. Maintain the vehicle regularly to ensure the equipment is in good condition. Please follow the instructions for inspection and before driving and regular maintenance.

Lift Hands and Feet From the Vehicle

⚠WARNING: Do not lift your hands off the handlebars or your feet off the pedals when riding.

Even leaving with only one hand or foot can reduce your ability to control the vehicle or cause you to lose your balance and fall off from the vehicle. If the driver's feet are not firmly put on the pedal, they may be unable to operate the brake or accelerator in time or may be influenced by external environmental factors, resulting in an accident.

Tire size

⚠WARNING: Do not use tires with wrong gauge, wrong tire pressure or uneven tire pressure.

Wrong tires may cause accidents. It is forbidden to use wrong tires. Check the tire pressure regularly to ensure that the tires are always within the normal pressure range.

Modifications

⚠WARNING: Any non-standard modifications are prohibited.

Any modifications will affect vehicle handling, which can lead to accidents. It is prohibited to mount any equipment which would increase the speed or power of the vehicle, or to make any other modifications to the vehicle for these purposes. All equipment and accessories added to the vehicle must be original or designed for use on the vehicle.

NFC card

⚠WARNING: Do not leave NFC cards in the vehicle. Lock the stem lock before leaving the vehicle.

NFC cards left on the vehicle may result in unauthorized use of the vehicle, causing an accident or property damage, so please take the key away when the vehicle is not in use.

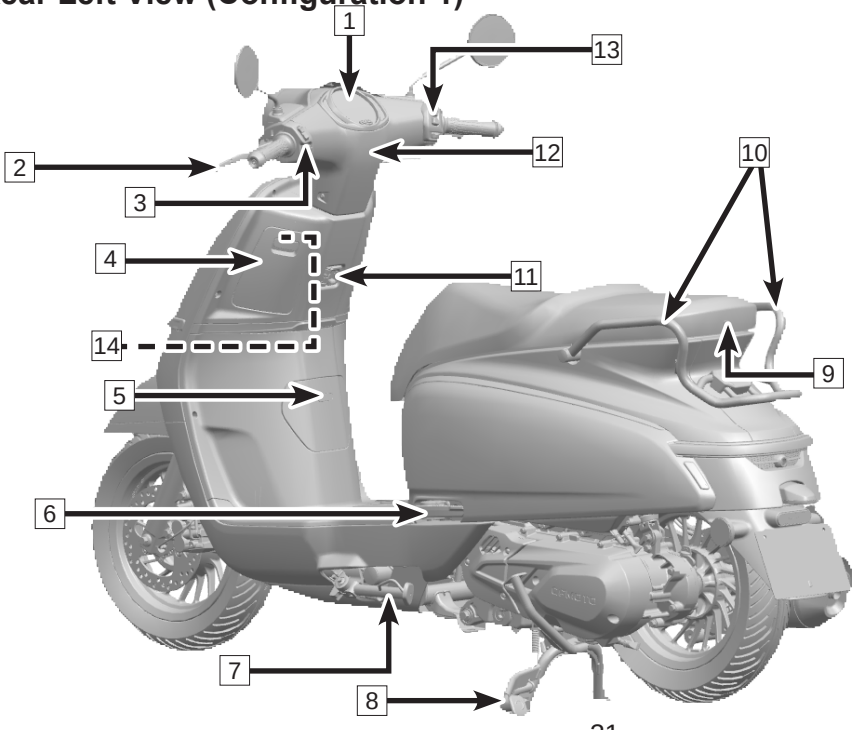
Dangerous Transportation

⚠Warning: Do not transport flammable, explosive or other dangerous goods.

Transportation of dangerous goods may cause serious injuries or accidents.

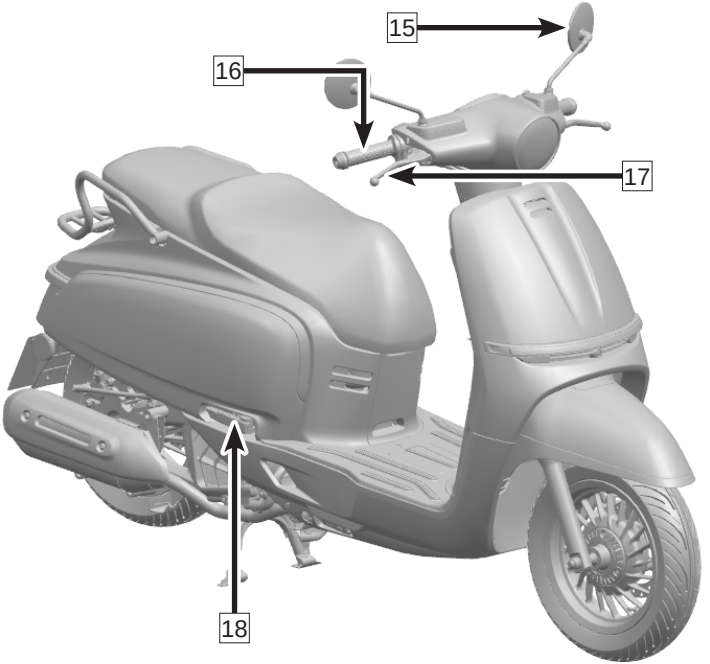
VEHICLE VIEW

Rear Left View (Configuration 1)



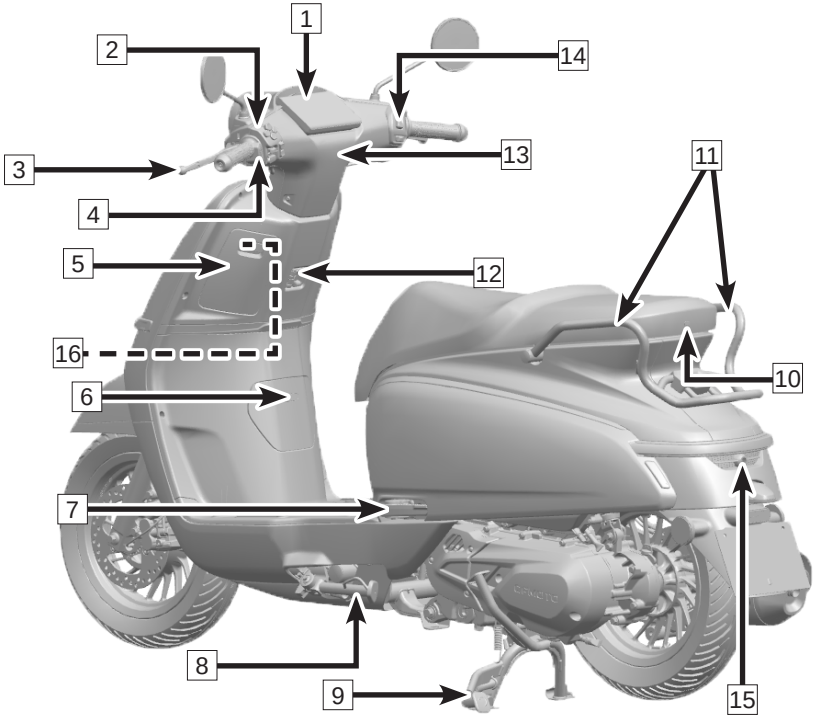
1: Instrument (LCD)
2: Rear Brake lever
3: Handlebar Switch, LH
4: Storage Box
5: Fuel Tank Cap Switch
6: Footrest Kit
7: Side Stand
8: Main stand
9: Seat Lock Switch
10: Passenger Handhold
11: Storage Hook
12: NFC Sensing Area
13: Handlebar Switch, RH
14. USB Output Socket Assembly

Front Right View (Configuration 1)



15: Rearview Mirrors
16: Throttle Grip
17: Front Brake Lever
18: Footrest Kit

Rear Left View (Configuration 2)



1: Instrument (TFT)

2: Handlebar Switch, LH

3: Rear Brake Lever

4: Handlebar Heating Switch

5: Storage Box

6: Fuel Tank Cap Switch

7: Footrest Kit

8: Side Stand

9: Main stand

10: Seat Lock Switch

11: Passenger Handhold

12: Storage Hook

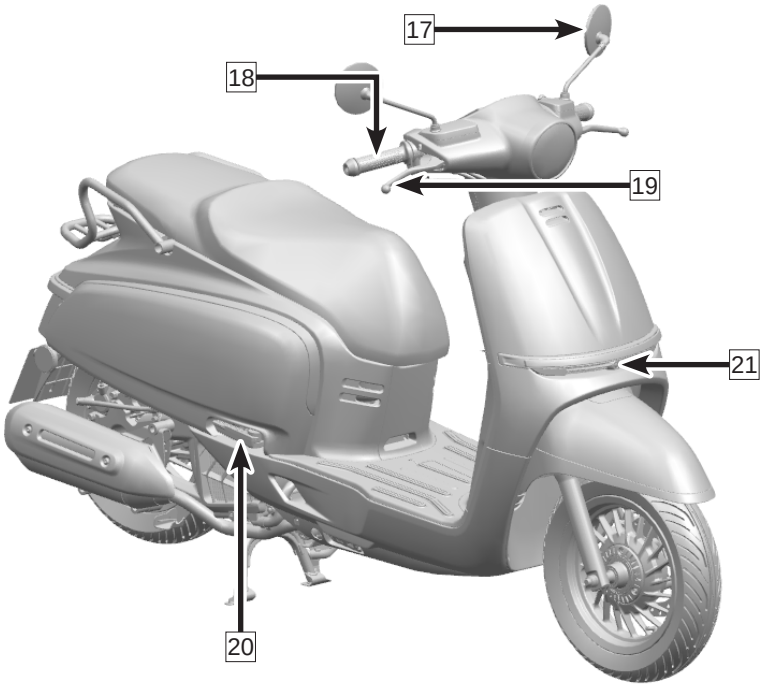
13: NFC Sensing Area

14: Handlebar Switch, RH

15: Rear Camera

16. USB Output Socket Assembly

Front Right View (Configuration 2)

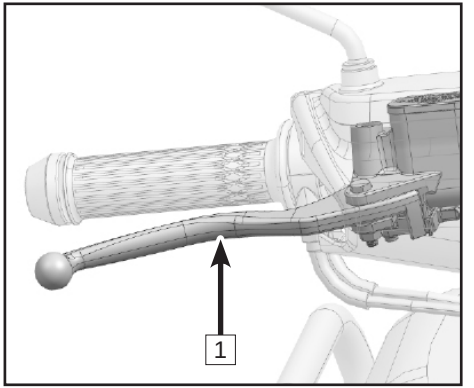


17: Rearview Mirrors
18: Throttle Grip
19: Front Brake Lever
20: Footrest Kit
21: Front Camera

OPERATING PARTS

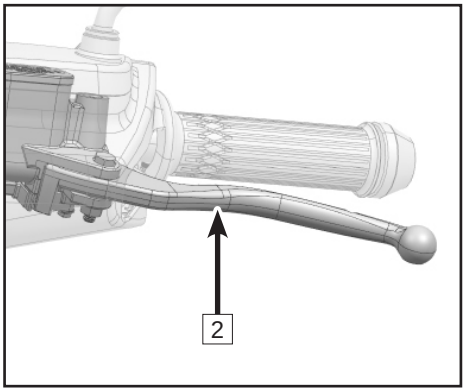
Front Brake Lever

Front hand brake lever 1 is on the right side of handlebar. Using this lever activates the front brakes.



Rear Brake Lever

Rear hand brake lever 2 is on the left side of handlebar. Using this lever activates the rear brakes.

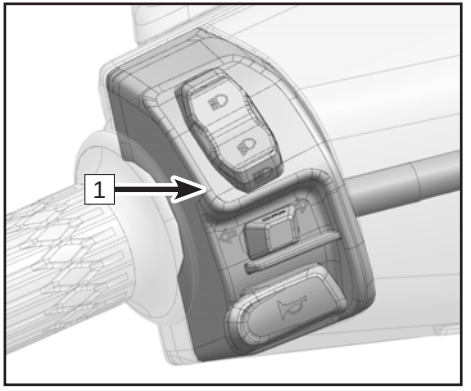


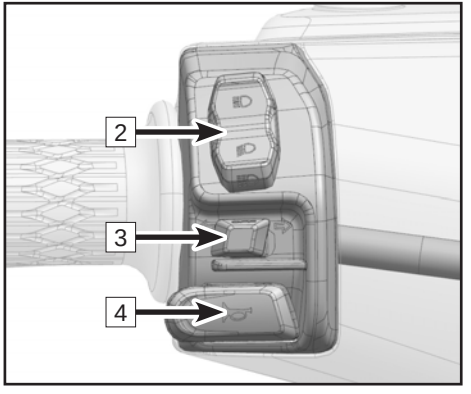
Handlebar Switch, LH (if Equipped)

Left handlebar switch [1] is on the left side of the handlebar.

Functions of left handlebar switch

[2]	Dimmer push switch		Press the button to activate high beam headlights.
			Turn to this position to activate low beam headlights.
			Adjust to this position to flash the headlights (i.e., press the low-beam button).
[3]	Turn light switch		Pushing this switch to the right activates the right turn light.
			Pushing this switch to the left activates the left turn light.
		OFF	Press this switch to cancel the LH/RH turn light.
[4]	Horn button		Press and the horn will sound.



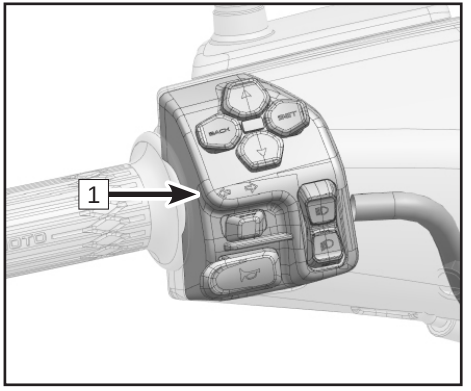


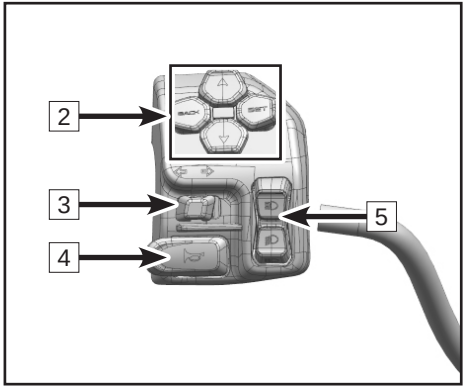
Handlebar Switch, LH (if Equipped)

Left handlebar switch [1] is on the left side of the handlebar.

Functions of left handlebar switch

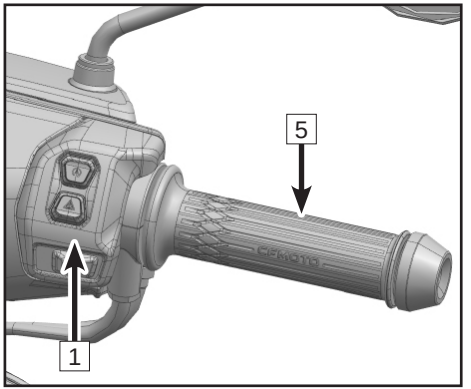
[2]	Instrument button	Instrument operations are detailed in the instrument section of the manual.	
[3]	Turn light switch	⇨	Pushing this switch to the right activates the right turn light.
		⇦	Pushing this switch to the left activates the left turn light.
		OFF	Press this switch to cancel the LH/RH turn light.
[4]	Horn button		Press and the horn will sound.
[5]	Dimmer push switch		Press the button to activate high beam headlights.
			Turn to this position to activate low beam headlights.
			Adjust to this position to flash the headlights (i.e., press the low-beam button).





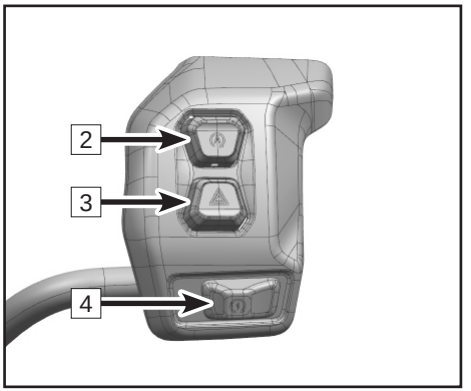
Handlebar Switch, RH

Right handlebar switch 1 is on the right side of the handlebar.



Functions of Right Handlebar Switch

2	Auto start/stop button		Press the button to activate the auto start/stop function. When the vehicle stops completely, the engine will automatically shut down. When operating the throttle again, the engine reignites. Press the button again to deactivate this function, the button will return to its original position.
3	Hazard flasher switch		Press to turn on the hazard flasher light.
4	Start switch		Grip the brake lever, turn the switch to the left, and quickly release to start the vehicle.



Throttle

Throttle 5 is on the right side of the handlebar.

Auto Start / Stop Function

The auto start/stop function can be enabled or disabled via the start/stop button. When activated, the vehicle will automatically shut off and restart the engine under specific conditions, while the indicator light on the instrument displays the current status of the function.

Functional status description

1. Start/Stop Button ON

Press the start/stop button, the green indicator light  on the instrument illuminates for 2 seconds and then turns off, indicating the function is on. After 4 seconds, the auto start/stop amber indicator light  is on.

Press the start/stop button again, the indicator light extinguishes instantaneously with simultaneous function deactivation.

2. Function Initialization

After the function turns on, the vehicle needs to drive at a speed of more than 15 Km/h for a period of time (at least 3 seconds) before the function can be initialized.

3. Activation Conditions

After the initialization is completed, when the battery is fully charged and the engine water temperature reaches above 65 °C, the green indicator light  on the instrument will always be on, indicating that the function has been activated.

4. Auto Engine Shutdown (Idle Stop)

When the vehicle stops, the throttle returns to its original position, and the speed falls below 1 Km/h for 4 seconds, the engine will automatically turn off.

After the flameout, the green indicator light  on the instrument will start to flash (once per second).

5. Restart (via Throttle)

Under the flameout condition, gently grip the throttle to restart the engine.

After successful start-up and activation conditions are met, the green indicator light Ⓐ will always be on, and the vehicle will return to its normal driving state.

If the start-up fails, the indicator light Ⓐ will start to flash (once per second), indicating the rider to reattempt starting via the throttle.

6. Protection Mechanisms

CAN communication fault protection: If there is a problem with the vehicle's signal or the engine normal signal is not received, the start/stop function will be temporarily disabled with simultaneous flashing of the green indicator.

Low-voltage protection: When battery voltage drops below 11.5V, the start/stop operation will be disabled for 60 seconds before automatic recovery.

Side stand protection: Deployment of the side stand triggers immediate deactivation of the auto start/stop function.

NOTE:

1. The start/stop function will only take effect when the start/stop switch is turned on and all conditions are met.

2. When the instrument displays a low battery warning (green indicator flashes 8 times at 0.3s ON/0.3s OFF intervals with 3-second cycles), please recharge promptly to prevent function disruption.

3. If the battery is low, do not turn on the start/stop function.

4. To protect the battery, sometimes the start/stop function may not be activated automatically.

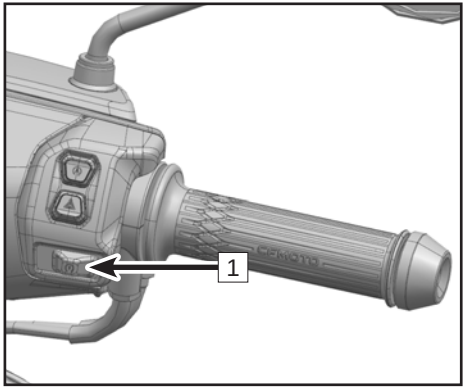
5. If the start/stop function does not work properly, please contact the dealer or after-sales services for maintenance.

Start / Stop Indicator Light State

Item	Content	State	Remark
Start/Stop Function	No temperature or throttle signal received.	The green light flashes twice.	Light on for 0.5 seconds, and light off for 0.5 seconds with an interval of 3 seconds.
	The flameout signal has been sent, but it has not been stalled.	The green light flashes three times.	
	The battery voltage is low after entering the start/stop state. (When the battery voltage is low, even if the start/stop flameout function is activated, the engine will not shut down.)	The green light flashes four times.	
Fault	Overcurrent protection	The green light flashes twice.	Light on for 0.3 seconds, and light off for 0.3 seconds with an interval of 3 seconds.
	Hall effect	The green light flashes three times.	
	Overvoltage protection	The green light flashes four times.	
	Motor stalling	The green light flashes five times.	
	Relay abnormality	The green light flashes six times.	
	Start timeout	The green light flashes seven times.	
	Battery power loss or not charging	The green light flashes eight times.	

Flameout Method

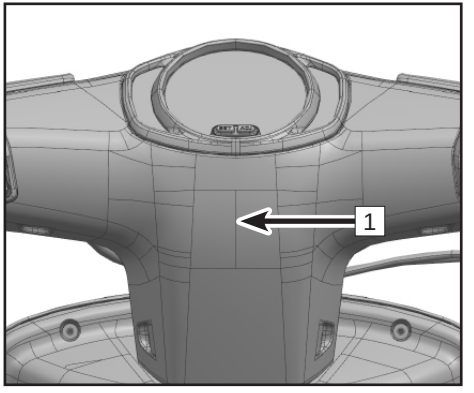
Flameout Method	Operation Steps	NOTE
Normal flameout	1. The vehicle is stationary and the engine is started. 2. Toggle the start switch 1 to the left and release immediately, causing engine flameout.	• Ensure that the vehicle is completely stopped before toggling the start switch to avoid accidental operation.
Side stand flameout	Lower the side stand to trigger engine shutdown.	• Ensure that the vehicle is completely stopped before lowering the side stand to avoid inertia-induced tip-over. The factory default setting is Instant Kill Mode.



Flameout Method	Operation Steps	NOTE
Delayed flameout	When the side stand is lowered, the vehicle will shut off after the preset delay time. LCD instrument: Set flameout time via CFMOTO RIDE APP. TFT instrument: Adjust flameout time through CFMOTO RIDE APP or by entering Vehicle Setting - Side Stand Kill.	• The delay duration should not exceed 3-5 seconds to ensure operational safety. Never operate the side stand while riding.
Power-off flameout	Turn off the vehicle power supply, and the engine stalls.	Ensure that the vehicle has stopped before the power-off flameout to avoid accidental start.

Vehicle Power-On (if Equipped)

Power-on Method	Operation Steps	NOTE
NFC	1. Use the NFC card to touch the sensing area 1. 2. The instrument displays power-on success, and the stem lock automatically unlocks.	• Ensure the NFC card touches the sensing area for more than 1s. • The NFC card need to be paired with the vehicle in advance.
Seat sensor	1. Enable Bluetooth on your mobile phone and maintain connection with the vehicle. 2. Ensure the seat sensor function turns on. 3. Sit on the seat cushion. 4. The instrument displays power-on success, and the stem lock automatically unlocks.	• Ensure Bluetooth on your mobile phone is successfully connected with the vehicle.

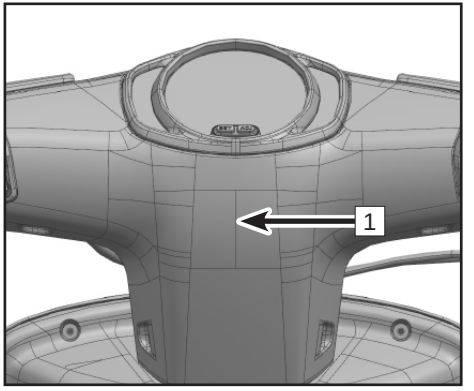


Power-on Method	Operation Steps	NOTE
Bluetooth (method 1)	1. Enable Bluetooth on your mobile phone and maintain connection with the vehicle. 2. Toggle the start switch to the left and quickly release. 3. The instrument displays power-on success, and the stem lock automatically unlocks.	Ensure Bluetooth on your mobile phone is successfully connected with the vehicle.
Bluetooth (method 2)	1. Keep Bluetooth on your mobile phone connected with the vehicle, and retract the side stand. 2. The instrument displays power-on success, and the stem lock automatically unlocks.	

⚠CAUTION
Do not turn on the power supply for a long time when the engine is not started, which may cause the power loss and the engine cannot work normally.

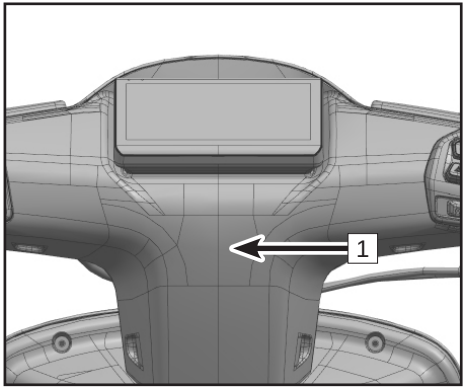
Vehicle Power-Off (if Equipped)

Power-off Method	Operation Steps	NOTE
NFC	1. Use the NFC card to touch the sensing area 1. 2. The instrument displays power-off success, and the stem lock automatically locks.	• Ensure that the vehicle is stopped and the engine is turned off. • Ensure that the NFC card touches the sensing area for more than 1s.
Toggling the start switch	1. Toggle the start switch to the left for ≥2 seconds. 2. The instrument displays power-off success.	• Ensure that the vehicle is stopped and the engine is turned off. • Ensure enough time to toggle the switch to avoid operation failure.
Auto power-off	1. Stop the vehicle and turn off the engine. 2. Get up and leave the seat. 3. The vehicle powers off automatically.	• Ensure the auto power-off function on the CFMOTO RIDE APP is turned on, and the power-off time is preset. • Ensure the vehicle is stopped and the engine is completely off. • Automatic power-off takes some time. Wait patiently.



Vehicle Power-On (if Equipped)

Power-on Method	Operation Steps	NOTE
NFC	1. Use the NFC card to touch the sensing area 1. 2. The instrument displays power-on success, and the stem lock automatically unlocks.	• Ensure the NFC card touches the sensing area for more than 1s. • The NFC card need to be paired with the vehicle in advance.
Password	1. Toggle the start switch to the left for ≥5 seconds to wake up the password unlock interface on the instrument. 2. Enter the preset password and press the SET button. 3. The instrument displays power-on success, and the stem lock automatically unlocks.	• The password function is turned off by default. The initial password needs to be turned on and preset in the TFT instrument-settings-password unlock or CFMOTO RIDE APP. • Entering an incorrect password too many times will lock the vehicle. If you forget the password, contact the after-sales service.

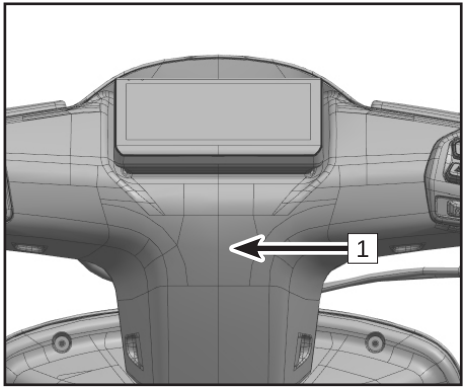


Power-on Method	Operation Steps	NOTE
Seat sensor	1. Enable Bluetooth on your mobile phone and maintain connection with the vehicle. 2. Ensure the seat sensor function turns on. 3. Sit on the seat cushion. 4. The instrument displays power-on success, and the stem lock automatically unlocks.	• Ensure Bluetooth on your mobile phone is successfully connected with the vehicle.
Bluetooth (method 1)	1. Enable Bluetooth on your mobile phone and maintain connection with the vehicle. 2. Toggle the start switch to the left and quickly release. 3. The instrument displays power-on success, and the stem lock automatically unlocks.	
Bluetooth (method 2)	1. Keep Bluetooth on your mobile phone connected with the vehicle, and retract the side stand. 2. The instrument displays power-on success, and the stem lock automatically unlocks.	

⚠CAUTION
Do not turn on the power supply for a long time when the engine is not started, which may cause the power loss and the engine cannot work normally.

Vehicle Power-Off (if Equipped)

Power-off Method	Operation Steps	NOTE
NFC	1. Use the NFC card to touch the sensing area 1. 2. The instrument displays power-off success.	• Ensure that the vehicle is stopped and the engine is turned off. • Ensure that the NFC card touches the sensing area for more than 1s.
Toggling the start switch	1. Toggle the start switch to the left for ≥2 seconds. 2. The instrument displays power-off success.	• Ensure that the vehicle is stopped and the engine is turned off. • Ensure enough time to toggle the switch to avoid operation failure.

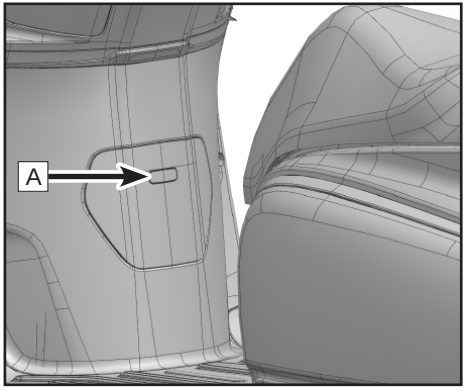


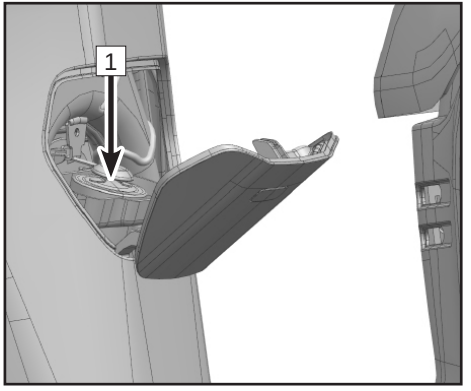
Power-off Method	Operation Steps	NOTE
Auto power-off	1. Stop the vehicle and turn off the engine. 2. Get up and leave the seat. 3. The vehicle will power off automatically.	•Ensure the auto power-off function is turned on, and the power-off time is preset. (Method 1: operate in the CFMOTO RIDE APP. Method 2: Activate the auto power-off function, see TFT instrument-vehicle setting-auto power-off section for details.) • Ensure the vehicle is stopped, the engine is completely off, and the rider leaves the seat (no operation during the process). • Automatic power-off takes some time. Wait patiently.

Locks

Fuel Tank Lock

Unlock Method	Operation Steps	NOTE
Power-on unlock	1. Ensure that the vehicle is stopped and the engine is turned off. 2. Keep the vehicle in the power-on state. 3. Press the fuel tank cover switch A to unlock the fuel tank cover. 4. After the fuel tank cover automatically pops open, unscrew the fuel tank cap 1.	• Before operation, ensure the vehicle is fully stationary. • Do not operate the fuel tank cover switch when the vehicle is not turned off or fully stopped.
Power-off unlock	1. The vehicle is in the power-off state. 2. Method 1: Within 1 minute of power off, press the fuel tank cover switch A to unlock the fuel tank cover. 3. Method 2: Keep Bluetooth on your mobile phone connected to the vehicle, press the fuel tank cover switch A to unlock the fuel tank cover. 4. After the fuel tank cover automatically pops open, unscrew the fuel tank cap 1.	Method 1: It is only valid within 1 minute after the vehicle is powered off, and it needs to be powered on again to unlock beyond the time. Method 2: Ensure Bluetooth on your mobile phone is successfully connected with the vehicle.



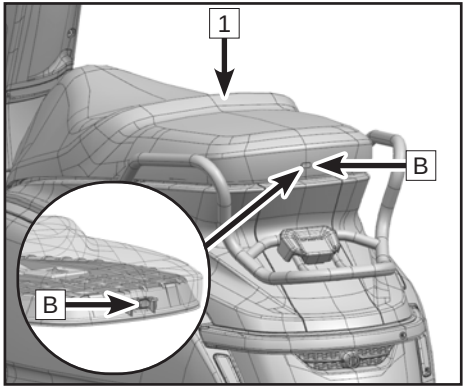


Possible intelligent unlocking methods

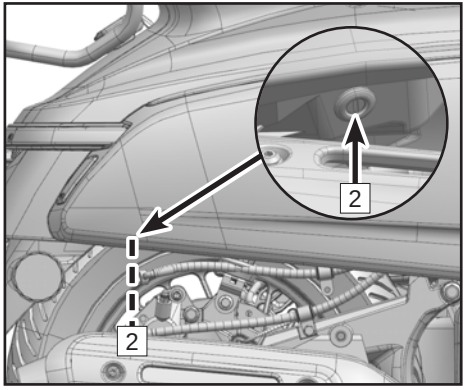
A new intelligent unlocking feature for the fuel tank lock may be added via subsequent OTA updates. If this functionality becomes available in your CFMOTO RIDE APP after an OTA update, operational procedures will be accessible through the app. If this feature is unavailable, please use conventional unlocking method.

Seat Lock

Unlock Method	Operation Steps	NOTE
Power-on state (flameout)	1. Ensure that the vehicle is stopped and the engine is turned off. 2. Keep the vehicle in the power-on state. 3. Press the seat lock switch B at the back of the seat to unlock the seat. 4. After unlocking, open the seat 1.	• Ensure that the vehicle completely stops and the engine is turned off. • When operating in the power-on state, the vehicle may start at any time, please pay attention to safety. • Avoid accidental contact with other components during operation.
Power-on state (vehicle speed≤3 km/h)	1. The vehicle is powered on. 2. Method 1: The engine has been started and the speed is ≤ 3 km/h, press the seat lock switch B at the back of the seat to unlock the seat. 3. Method 2: when the vehicle speed is ≤ 3 km/h, toggle the start switch to the left twice to unlock the seat. 4. After unlocking, open the seat 1.	• It is only valid at low speed. Ensure the vehicle is stable. • When toggling the start switch, avoid misoperation that causes the vehicle to stall or start accidentally. • Ensure that the vehicle speed meets the requirements before operating.



Unlock Method	Operation Steps	NOTE
Power-off state	1. The vehicle is powered off. 2. Method 1: Keep Bluetooth on your mobile phone connected to the vehicle, toggle the start switch to the left twice to unlock the seat. 3. Method 2: Keep Bluetooth on your mobile phone connected to the vehicle, press the seat lock switch B at the back of the seat. 4. After unlocking, open the seat 1.	• Ensure Bluetooth on your mobile phone is successfully connected with the vehicle.
Mechanical key unlock	1. Insert the vehicle's mechanical key into the keyhole 2 located at the lower right side of the rear. 2. Rotate the key to unlock the seat. 3. After unlocking, open the seat 1.	• Use a mechanical key to unlock the seat in case of emergency such as battery power loss or circuit failure. • Avoid violent operation when inserting the key, so as not to damage the keyhole or key. • Ensure that the key is inserted into the keyhole correctly before rotating to avoid misoperation.

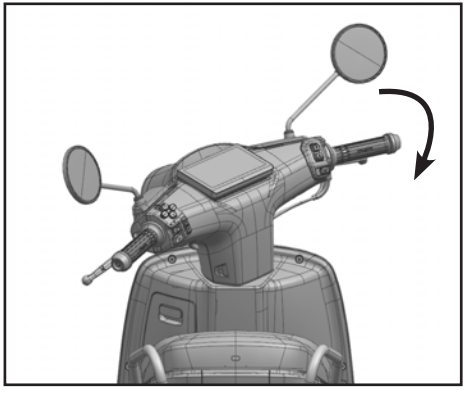


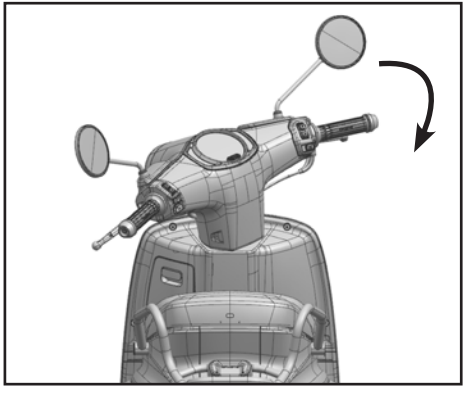
Possible intelligent unlocking methods

A new intelligent unlocking feature for the seat lock may be added via subsequent OTA updates. If this functionality becomes available in your CFMOTO RIDE APP after an OTA update, operational procedures will be accessible through the app. If this feature is unavailable, please follow the above unlocking method.

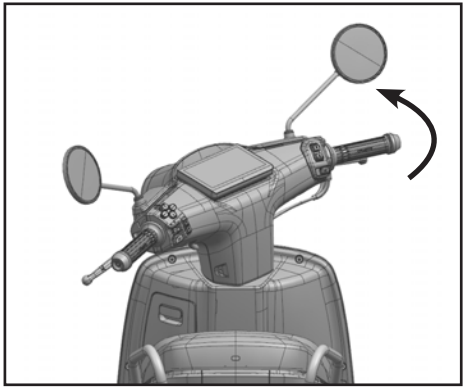
Electronic Stem Lock

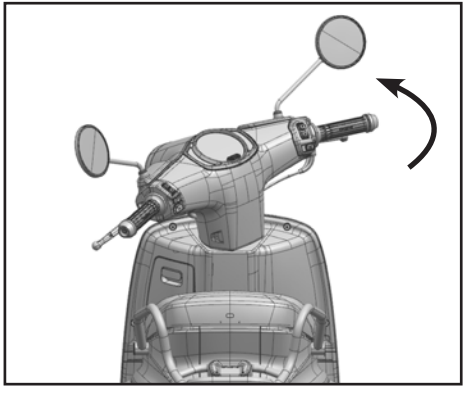
Unlock Method	Operation Steps	NOTE
Power-on state	When the vehicle is powered on, the electronic stem lock will be automatically unlocked (see the section on vehicle power-on for details).	• The unlocking of the stem lock is automatically completed when the vehicle is powered on without additional operation.





Lock Method	Operation Steps	NOTE
Power-off state	When the vehicle is powered off, the electronic stem lock will be automatically locked (see the section of powering off vehicle for details).	• Ensure that the vehicle completely stops and the engine is turned off before powering off.
Start switch	After powering off the vehicle, toggle the start switch to the left for ≥2 seconds and ≤5 seconds.	• Ensure enough time to toggle the switch to avoid operation failure.





NOTE:

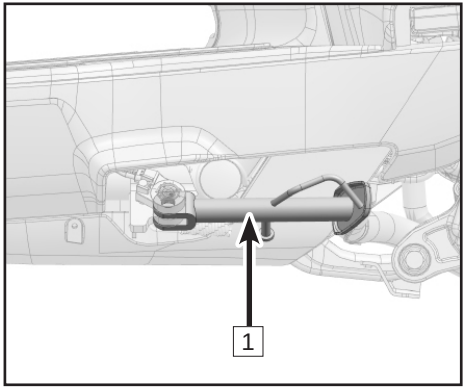
The handlebar can be locked in any position, but it can only be completely locked if the handlebar is turned to the left end position.

Possible intelligent unlocking methods

A future OTA update may add an auto stem lock feature. When enabled, the stem lock will unlock automatically; when disabled, auto-unlocking will not occur. If this functionality becomes available in your CFMOTO RIDE APP after an OTA update, operational procedures will be accessible through the app. If this feature is unavailable, please follow the above unlocking method.

Side Stand

The side stand 1 is on the left side of the vehicle and is an important support component when parking to ensure stable parking. The side stand is equipped with a side stand switch (sensor) to detect the status of the side stand. When the side stand is lowered, the vehicle will trigger the parking protection function. The specific functions are as follows:



Parking protection function

1. Invalid throttle: If the side stand kill function is in delayed kill mode and the vehicle is stationary (engine running), lowering the side stand and applying the throttle at this time will not move the vehicle forward, and the engine turns off after the preset delay time.

2. Stand kill function: If the side stand kill function is in instant kill mode, the engine cannot be started when the vehicle is powered on and the side stand is lowered.

Equipped with TFT instrument: The stand kill time can be set by vehicle setting or CFMOTO RIDE APP (see TFT instrument-vehicle setting-side stand kill for instrument operation or follow in-app instructions).

Equipped with LCD instrument: The stand kill time can be set by CFMOTO RIDE APP (operate according to real-time prompts in the application).

Operation tips

1. After parking: Be sure to lower the side stand to ensure stable parking.

2. Before starting or riding: Please retract the side stand first to disable the parking protection function.

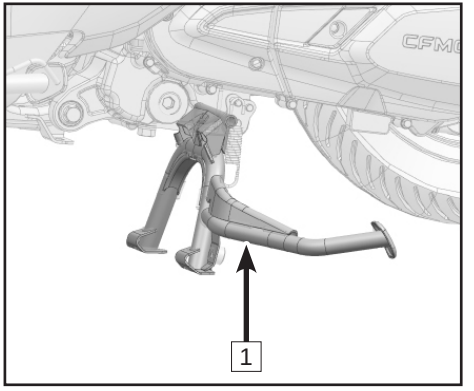
3. Please regularly check the connection status of the side stand and sensor to ensure they are working properly. If necessary, contact an authorized service center for repair.

Safety Tips

1. Do not attempt to start or ride the vehicle without retracting the side stand to avoid triggering the parking protection function.

2. In complex road conditions or emergencies, ensure the side stand is retracted to ensure normal vehicle operation.

Main stand



The main stand 1 is an important support component of the scooter, fixed to the bottom of the vehicle's engine, providing stable support for the vehicle through its connection with the engine. This design allows the main stand to better bear the vehicle's weight and enhance overall stability.

Advantages of the main stand

1. Better support effect: Through its position and structural design, the main stand can more evenly disperse the weight of the vehicle and provide more stable support.

2. Enhance vehicle safety: When parked for a long time, using the main stand can effectively prevent the vehicle from tipping over, especially on slopes or uneven surfaces.

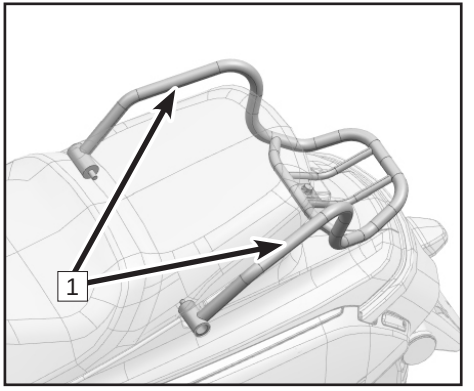
3. Protect vehicle structure: The main stand can reduce the pressure of the frame and suspension system and prolong the service life of the vehicle.

Recommendation for use

When the vehicle needs to be parked for a long time (such as long-term parking or storage), it is recommended to lower the main stand and ensure it is in complete contact with the ground. The stable support of the main stand can prevent the vehicle from tipping over due to uneven surfaces or external forces.

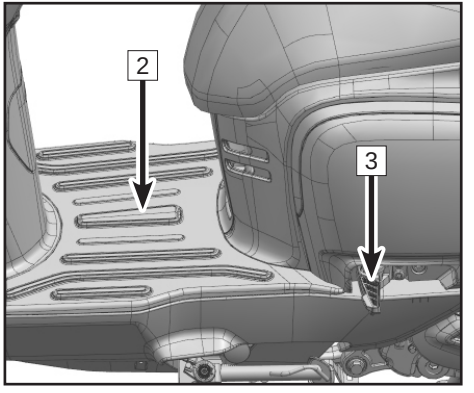
Passenger Handhold, Foot Pedal, and Footrests

Passenger handhold [1] is mounted on the motorcycle and can be held by a passenger.



Foot pedals [2] and footrests [3] are pedals or footboards fixed on the motorcycle for the operator and passenger to put their feet.

Footrests [3] are flexibly designed and can be folded inward when not in use and opened outward when needed.

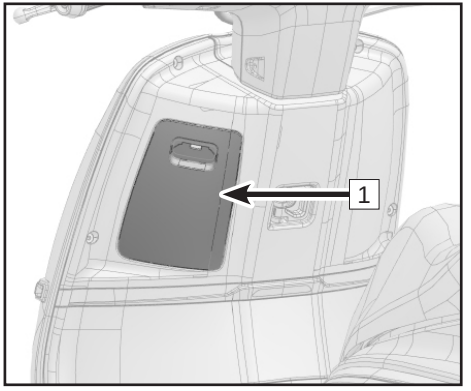


Storage Box and Storage Hook

The vehicle is equipped with a storage box 1 and storage hook 2, which are practical storage spaces, providing convenience for riders and passengers while enhancing riding comfort and safety. The specific functions are as follows:

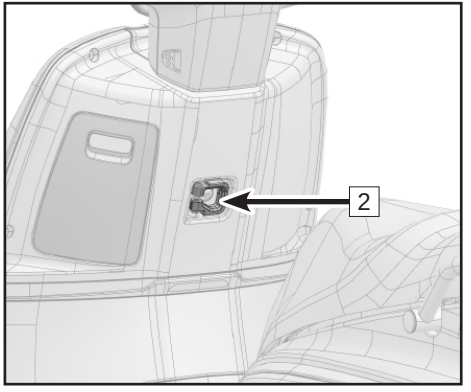
1. The storage box is located at the lower left of the dashboard rear guard, which is convenient for the rider or passenger to store and access small items such as gloves and keys.

2. The storage box is equipped with a cover plate as a sealing structure that can protect internal items from the intrusion of external environments such as wind and rain, which is particularly useful when riding in bad weather.



1. The storage hook is located directly below the dashboard rear guard and is used for hanging backpacks, handbags, helmets, and other lightweight items. It allows riders or passengers to secure items on the vehicle without holding them by hand, thereby focusing more on riding or maintaining balance.

2. The storage hook is designed to be flexible and can be retracted inward when not in use. When needed, it can be opened outward to hang or remove items at any time.



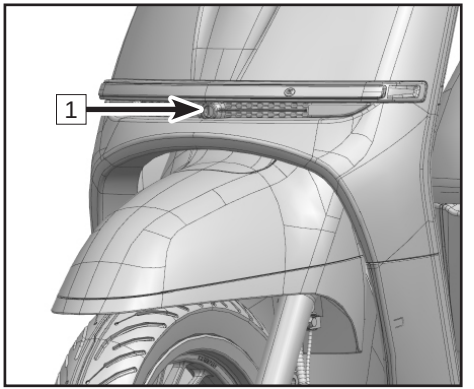
Riding Recorder (if Equipped)

The vehicle is equipped with a front camera 1 and a rear camera 2, positioned as shown in the image, with the following functions.

1. Record the road conditions ahead and behind in real time, providing the rider with a complete driving record.

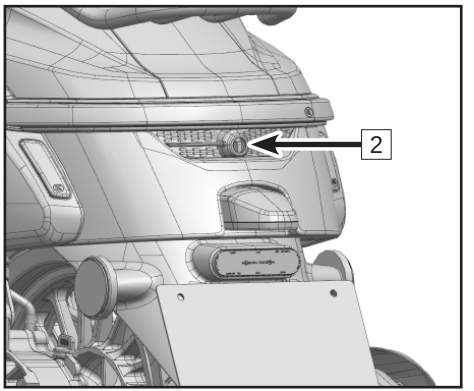
2. Capture landscapes, videos, or photos during rides to preserve memorable moments.

3. Facilitate sharing of riding footage with friends or cycling communities.



Turn on and off

When the vehicle starts, the camera starts shooting. When the vehicle shuts down, the camera stops shooting.



Storage & Playback

Recorded content is stored in the built-in memory cards or via mobile APP, enabling riders to access and export data at any time.

Users can view recorded videos or set some functions in the CFMOTO RIDE APP.

1. Users can connect their mobile phones with the recorder through the recorder WIFI.

2. Preview function of driving recorder (front and rear camera switching, recording switch, photographing, recording video entrance, setting entrance).

3. Driving recorder video viewing and playback (including loop recordings, emergency video), download function.

4. Driving recorder setting (including WIFI name/password modification, microphone on/off, loop recording duration, collision sensitivity, storage formatting, and factory reset, etc.)

Privacy Protection

Riders must comply with local regulations and refrain from capturing third-party private scenes.

NOTE

Regularly clean the camera with clean running water to ensure a clear picture.

Don’t use high-pressure water guns to wash the camera.

Don’t use corrosive solvents such as alcohol, stain remover, and cleaning agent to wipe the camera.

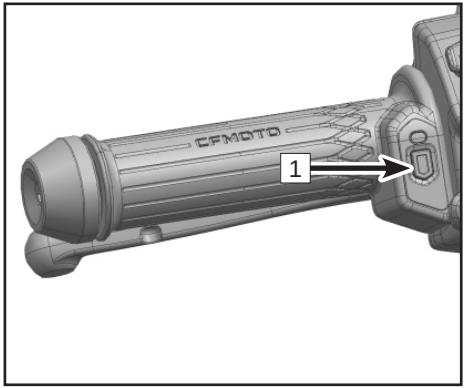
Don’t watch driving records during riding.

Don’t watch the display screen to judge the situation of vehicles ahead or behind while riding.

Product Specifications

Image Sensor	CMOS
Video Resolution	1920×1080 30FPS
Video Format	H.264 Encoding MOV Format
Recording Mode	Loop Recording (Loop recording duration offers two selectable intervals: 1-minute and 3-minute segments.)
Recording Function	Synchronous Audio and Video Recording
Power Supply	DC 12V to 5V/2A Step-Down Converter
Storage Card Type	TF Card (Pre-installed with 32GB storage, expandable up to 256GB)
Capacity	Supports up to 256GB C10 High-Speed Card
Gsensor	Supports High/Medium/Low Sensitivity
WIFI	Wireless Transmission via Wi-Fi Hotspot with Mobile App Live Preview
Waterproof Rating	Camera module: IP67 rated / Main unit: IP65 rated.
Operating Temperature	-30℃ ~75℃
Field of View	98°±5°, 45°±5° vertical
Supported OS	Android, iOS, HarmonyOS

Handlebar Heating (if Equipped)



The heated handlebar button 1 is located on the left handlebar. Turning on the handlebar heating function in cold weather conditions can improve driving comfort.

ON: After the vehicle starts, press the heating button 1 to turn on the handlebar heating function.

Modes: When the handlebar heating function is turned on, and the electric heating power reaches 40%, the button light is blue. Press the button 1 a second time, and the electric heating power of the handlebar heating function reaches 70%, the button light is green. Press the button 1 a third time, and the electric heating power of the handlebar heating function reaches 100%, the button light is red.

OFF: Press the button 1 a fourth time to turn off the handle heating function.

NOTE: The handle heating function automatically adjusts during use based on the battery voltage condition. When the battery voltage is too low, the system automatically turns off the heating function if it does not recover within 7 seconds, ensuring device safety. Similarly, when the battery voltage is too high, the system immediately cuts off the heating function to prevent overheating damage.

⚠CAUTION
When the vehicle is powered on, do not turn on the handlebar heating function. During engine idling, avoid prolonged activation of the handlebar heating function to prevent battery depletion, which may fail to start the engine. Follow local regulations. Any modifications to the original handlebar heating system are strictly prohibited.

⚠WARNING
The handlebar heating function generates active thermal energy during operation. Minors may lack the judgment or self-protection awareness to avoid inadvertent contact with heated grips, potentially causing discomfort or burns. When using the handlebar heating function, ensure minors do not touch it.

USB Output Socket Assembly

USB output socket assembly [1] is mounted in the storage box (which is accessible after opening the storage box cover) for charging electronic devices.

USB output socket assembly includes a Type-A port and a Type-C port.

Basic electrical characteristics:

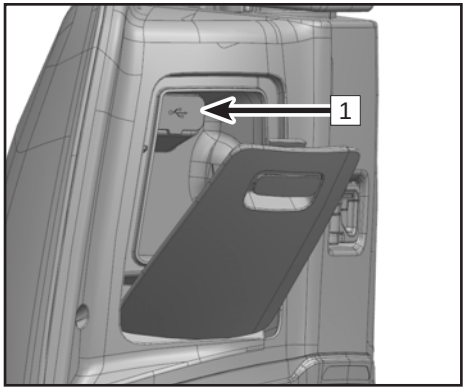
1. Nominal voltage: DC 12V

2. Working voltage: DC 10V~24V

3. Output voltage range: DC 3V~12V

4. Maximum output power: 18W+18W (5V@3A, 9V@2A, 12V@1.5A)

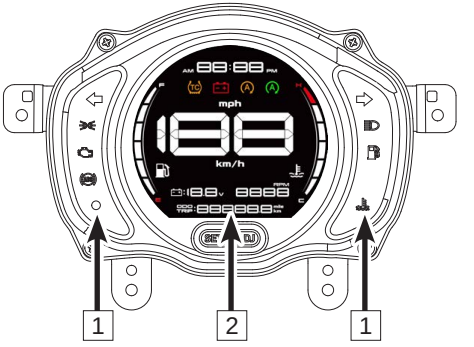
- Always close the storage box cover when the USB port is not in use, which prevents dust, water, or foreign objects from entering the port to avoid short-circuit or damage.
- Ensure electronic devices are securely fastened during connection to prevent device displacement, damage, or accidental disconnection caused by vibration while riding.



⚠CAUTION
Avoid charging electronic devices for extended periods when the engine is off or idling, to prevent battery depletion, which could prevent the engine from starting normally.
Do not connect devices exceeding rated power capacity to prevent circuit overload or equipment damage.
Ensure connected devices are compatible with the specified voltage range to avoid device damage due to voltage mismatch.
Never perform unauthorized modifications or add external devices to the USB output socket assembly, so as to maintain functionality and eliminate safety hazards.
Do not allow children to plug and unplug the device or operate the USB port to avoid accidental damage or electric shock hazards.
Do not use the USB output socket for extended periods in high-temperature or humid environments to avoid affecting its performance or creating safety hazards.
If you notice any abnormalities with the USB interface (such as overheating, unusual odors, or damage), stop using it immediately and contact the professionals at the after-sales service center for inspection.

LCD INSTRUMENT (If EQUIPPED)

NOTE
Due to function, adjustment, and version updates of the instrument and renewed vehicle configurations by market, some contents of the instrument may change. Please selectively refer to this section according to your vehicle.



Instrument

The instrument is mounted in the middle of the handlebar and divided into two functional areas:

1: Instrument Indicators

2: Instrument Display

Activation and Testing

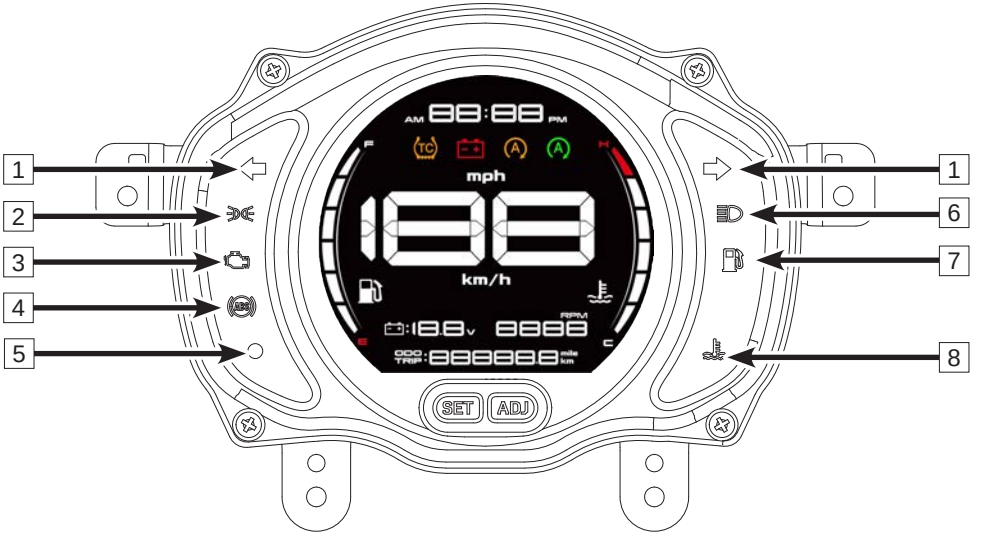
Activation

The instrument is activated synchronously when the motorcycle is powered on.

Testing

Upon activation, the instrument goes into self-inspection mode, in which a start-up animation displays and indicator lights are turned on. At this time, the selection button will not respond until the self-inspection has completed.

Instrument Indicators

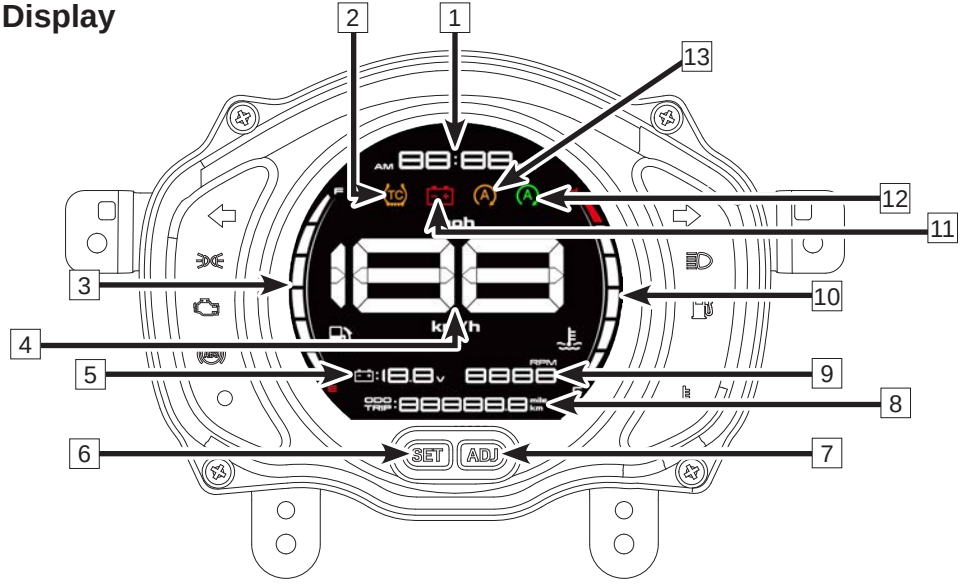


1	LH/RH Turn Light Indicator	4	ABS Fault Indicator	7	Fuel Gauge/Low Fuel Indicator
2	Position Light Indicator	5	Photosensitive Sensor	8	Coolant Temperature Alarm Indicator
3	EFI Fault Indicator	6	High Beam Indicator		

Number	Symbol	State	
1		Flash	When turning signal indicators are flashing, the corresponding turning lights are on.
2		On	When the position light indicator is on, the position light is turned on.
3		On	When the vehicle is powered on and the engine is off, the fault indicator is on. If the engine is not off but the fault indicator is also on, then this means that the vehicle detects a fault in its circuit and the fault will be shown in the Instrument Indicators area. When this fault indicator is on, please park the vehicle in line with local laws and regulations, and contact an authorized CFMOTO service center.
4		On	When the vehicle is powered on, the ABS indicator is on and then off after the vehicle starts and achieves a speed of more than 5 km/h, which is a normal phenomenon. If the ABS indicator is still on after the vehicle starts and achieves a speed of more than 5 km/h, it indicates there is any fault of ABS braking system, and at this time, the ABS system will stop working, but general braking functions may still play their roles. Please reduce the speed and avoid sudden braking and timely contact an authorized CFMOTO service center.

5	○		When the brightness control indicator is enabled, the photosensitive sensor automatically adjusts its brightness of according to the external environment light.
6		On	When the high beam indicator is on, the high beam light is turned on.
7		On	When the fuel level bars show zero bars, the fuel indicator light is on.
8		On	When the coolant temperature is higher than 115°C, the coolant temperature warning indicator will be turned on. Please park the vehicle according to local laws and regulations to wait for the temperature drop. If this indicator turns on frequently, please contact an authorized CFMOTO service center.

Instrument Display



1	Clock	6	SET Button	11	Low Battery Warning Indicator
2	TC Indicator	7	ADJ Button	12	Auto Start/Stop Indicator Light 2
3	Fuel Display	8	Information Center	13	Auto Start/Stop Indicator Light 1
4	Speed Display	9	Engine RPM		
5	Battery Voltage	10	Coolant Temperature		

Clock - 1

The current time is displayed here.

TC Indicator - 2

Functions of TC indicator: TC work indicator, TC fault indicator, TC off indicator.

When the vehicle is powered on, it is normal for the TC indicator light to be on. Riding speed is more than 3mph (5 km/h), and TC is not enabled, the TC indicator light is off and will not light up again at this time. The TC indicator light flashes when riding while the TC is enabled.

The TC off indicator will appear when TC is off. The TC fault indicator will be on if a fault occurs.

Fuel Level Display - 3

The fuel level display consists of several bars. The more bars light up, the more fuel there is. When the fuel level is at bar 1 or above, the white fuel symbol "  " is on, which is normal. When the fuel level is at zero bar, the amber fuel indicator light "  " is on, indicating that the fuel level is nearing its limit.

When the fuel level is close to the limit, arrange the remaining travel to add fuel as soon as possible. Insufficient fuel may cause damage to the fuel pump.

If the instrument does not receive a fuel level signal or the fuel level sensor fails, the white fuel symbol "  " and the bars flash at the same time.

When the fuel runs out, the white fuel symbol "  " flashes.

Speed Display - 4

The current speed per hour is displayed here.

Battery Voltage - 5

The current voltage of the battery is displayed here.

SET Button - 6 / ADJ Button - 7

The "SET" button and "ADJ" button are used to set and adjust functional parameters.

The SET button is mainly used to enter and confirm settings. The ADJ button is used to adjust specific parameter values in the settings.

Information Center - 8

Displays the vehicle's ODO, TRIP mileage, TCS switch, and instrument backlight brightness.

Engine RPM - 9

Displays the current engine RPM of the vehicle.

Coolant Temperature - 10

Coolant temperature is displayed with progress bars. The closer the progress bar is to the H end, the higher the coolant temperature. When the progress bar turns from white to red, the coolant has reached a dangerous temperature.

⚠WARNING
Extreme temperatures may damage the engine. If the coolant reaches the dangerous temperature, please park the vehicle in line with local laws and regulations, and wait for the coolant temperature to drop. Please replenish coolant to its proper level after the cooling system has totally cooled. Under normal riding conditions, if the coolant frequently reaches the dangerous temperature, please timely contact an authorized CFMOTO service center.

Battery Warning Indicator - 11

The indicator light turns on when the vehicle battery is low. Charge the battery or inspect the battery condition in time to avoid the motorcycle from starting.

Auto Start/Stop Indicator Light 2 - 12

When the auto start/stop function is turned on, the indicator light illuminates and turns off after two seconds. It remains steadily lit when the function is active.

Auto Start/Stop Indicator Light 1 - 13

When the auto start/stop indicator light 2 extinguishes for four seconds, this indicator light is always on.

Instrument Settings

Display	SET button	ADJ button	Operation
ODO	Short press		Shift to TRIP
		Long press >3s	Reset TRIP to 0
TRIP	Short press		Shift to TCS switch status
		Long press >3s	TCS switch status switching: ON→OFF→ON
TCS switch status	Short press		Shift to backlit brightness level
		Short press	Backlit brightness level adjustment: Led 1→Led 2→...→Led 5→Led 1
Backlit brightness level	Short press		ODO display

Display	SET button	ADJ button	Operation
Any display content	Long press >3s		Enter the clock setting, "Hour" and colon flash.
		Short press	Hour value +1
		Long press	Hour value automatically increases
"Hour" setting: "Hour" and colon flash	Short press		Set "Minute". "Hour" stops flashing, "Minute" and colon flash.
		Short press	Minute value +1
		Long press	Minute value automatically increases
"Minute" setting: "Minute" and colon flash	Short press		Complete clock time setting. Enter 12/24-hour clock switch, "Hour", "Minute", and “colon” all flash.
		Short press	12-hour clock → 24-hour clock, or 24-hour clock → 12-hour clock.
12/24-hour clock setting: "Hour", "Minute", and “colon” all flash	Short press		Complete 12/24-hour clock setting, and enter metric/imperial unit setting.
		Short press	Metric → imperial, or imperial → metric.
Metric/Imperial unit setting: No special display	Short press		Exit settings.

NOTE: No button operation within 15±2s will exit settings, but settings are still valid (including selected but unconfirmed parameters).

TFT INSTRUMENT (If EQUIPPED)

NOTE
Due to function, adjustment, and version updates of the instrument and renewed vehicle configurations by market, some contents of the instrument may change. Please selectively refer to this section according to your vehicle.

Instrument

The instrument is mounted in the middle of the handlebar and divided into two functional areas:

1: Instrument Indicators

2: Instrument Display

Activation and Testing

Activation

The instrument is activated synchronously when the motorcycle is powered on.

Testing

Upon activation, the instrument goes into self-inspection mode, in which a start-up animation displays and indicator lights are turned on. At this time, the selection button will not respond until the self-inspection has completed.

Instrument Indicators

Number	Symbol	State	
1		Flash	When turning signal indicators are flashing, the corresponding turning lights are on.
2		On	When the high beam indicator is on, the high beam light is turned on.
3		On	The ABS indicator will be on when the vehicle is powered on, which is a normal phenomenon. It should turn off when the vehicle speed exceeds 3 mph (5 km/h) after the vehicle starts. The ABS system has a fault if the ABS indicator is still on at such a speed. At this time, the ABS system will stop working, but general braking functions may still play their roles. Reduce speed, avoid sudden braking and timely contact an authorized CFMOTO service center.
4		On/Flash	Functions of TC indicator: TC work indicator  , TC fault indicator  , TC off indicator  . When the vehicle is powered on, it is normal for the TC indicator to be on. When riding speed is more than 3 mph (5 km/h), and TC is not enabled, TC indicator light is off and will not light up again at this time. The TC indicator light flashes when riding while the TC is enabled. The TC fault indicator will be on if a fault occurs. The TC off indicator will illuminate when TC is off.

5		On	When the auto start / stop function is turned on, the indicator light illuminates and turns off after two seconds. It remains steadily lit when the function is active.
6		On	When the auto start/stop green indicator light extinguishes for four seconds, this indicator light is always on.
7		On	Tire pressure indicator (if equipped) will be on when tire pressure is abnormal or it does not receive a tire sensor signal. When this indicator is on, stop the vehicle and inspect the tire pressure and condition. If an abnormal condition (tire wear or bulge) is found, contact a CFMOTO dealer for service. If tire condition appears normal, drive slowly, keep tire pressure at specification, and service the tires soon. If there is no tire sensor signal, stop the vehicle, thoroughly inspect the front and rear tires, and contact a CFMOTO dealer for inspection. **NOTE: Inspect tire pressure when the tires are cold.**
8		On	When the vehicle is powered on and the engine is off, the fault indicator is on. If the engine is running and the fault indicator is on, then the vehicle has detected a fault. When this fault indicator is on, park the vehicle in line with local laws and regulations, and contact an authorized CFMOTO service center.

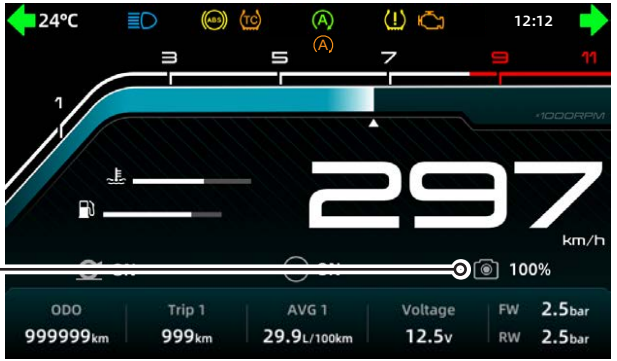
9	○		When the screen brightness is set to “automatic” in the settings, the photosensitive sensor will automatically adjust the instrument’s brightness according to the external environment light.
10	○	Flash/On	(if equipped)When you turn on the mobile phone's Bluetooth and connect with the T-BOX (if equipped) of the vehicle, the Bluetooth indicator light on the instrument will display the following status: 1. Bluetooth indicator light flashing: Indicates successful authentication, but the mobile Bluetooth key is out of range. 2. Bluetooth indicator light steadily lit: Indicates successful authentication with the mobile Bluetooth key within range.

Instrument Display

Sports Camera (Only Select Markets)

This feature records riding moments. It can be used only when equipped with T-BOX, and it is only for Insta x3 (launch permission selectively). Users can pay the fee via the CFMOTO RIDE App (monthly/half-yearly/yearly).

Make sure the vehicle is connected to the camera effectively via Bluetooth.



1. **Start shooting:** When the sporting camera is connected to the vehicle, long press the switch button ▽ on the LH handlebar for > 1 second, which can help to realize the pre-set function of recording/shooting.

2. **Stop shooting:** When the camera is shooting, long press the switch button ▽ on the LH handlebar for >1 second, which could stop the shooting.

3. **Connection:** When the equipment is connected, the UI interface will display the connecting conditions and remaining power of the sporting camera.

4. **Shooting state display:** The camera icon on the dashboard will turn red with a breathing blinking effect, to remind users of the changes in the shooting condition.

5. **Delivery of vehicle information:** riding information (speed, gear, RPM, vehicle body tilt tendency, riding track, etc.) can be transmitted via Bluetooth. When editing the video, a CFMOTO module is available.

Engine RPM

The unit of engine speed is 1000 revolutions per minute. During the break-in period, avoid too-high engine speed. Avoid engine speed approaching the red zone at all times as much as possible, which will damage the engine life. Avoid high engine speed until the engine is heated up.

Coolant Temperature

Coolant temperature is displayed with bars. When the coolant reaches a dangerous temperature, this area turns red, and the coolant temperature alarm indicator turns red.

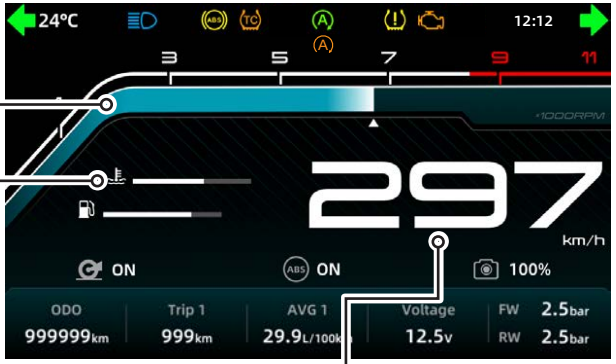
⚠WARNING

Extreme temperatures may damage the engine.

If the coolant reaches the dangerous temperature, please park the vehicle in line with local laws and regulations, and wait for the coolant temperature to drop.

Please replenish coolant to its proper level after the cooling system has totally cooled.

Under normal riding conditions, if the coolant frequently reaches the dangerous temperature, please timely contact an authorized CFMOTO service center.

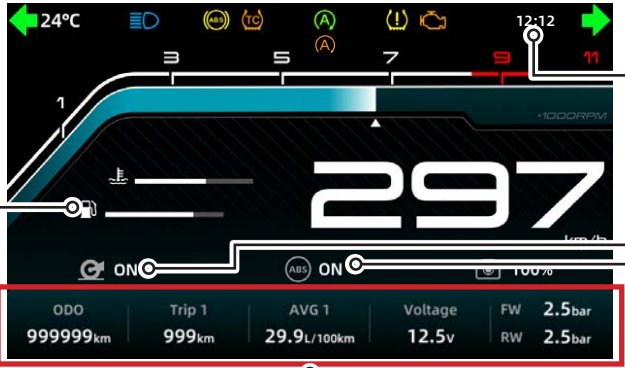


Speed

The current speed per hour is displayed here.

Metric km/h and imperial mph can be switched through the menu.

The vehicle speed shown in the picture is for reference only.



Clock

The current time is displayed here.

Set the current time through the menu.

Switch between 12-hour clock and 24-hour clock through the menu.

TC Display

The current state of the vehicle's TC (on/off) is displayed here.

ABS Display

The current state of the vehicle's ABS (on/off) is displayed here.

Information Bar

The set optional information in the vehicle settings by users can be displayed here.

Fuel

Fuel level displays the current remaining fuel in the fuel tank. When the level is low, the indicator will turn yellow. Replenish fuel soon in this situation, or the fuel pump may be damaged.

Instrument Menu

Adjust instrument settings through the instrument menu to enhance the riding experience.

Press the menu button on the left handlebar switch to enter the instrument menu.

⚠WARNING
The menu mode is only allowed when the motorcycle is parked and safe.

The menu button is on the left handlebar switch and is used to operate relevant instrument functions.

For Main interface: press it to switch Optional Info in the information bar.

For the first-level menu, second-level and lower menu: press it to select the prior choice.

For Music: at the main interface, press it to increase the volume and long press it to select the prior song. For Music: on the menu, short press to increase volume/long press for the previous track.

When on the phone: press it to increase the volume.

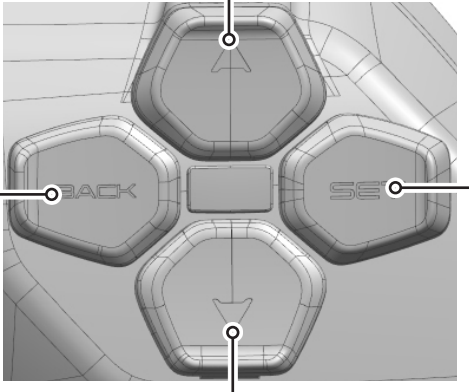
For Main Menu: press it to clear the popup fault window.

For the first-level menu, second-level and lower menu: press it to return to the prior menu.

For Calling: press it to hang up.

For projection screen: press it to return to the projection screen interface.

For Music: press it to return to the prior menu.



For Main interface: press it to enter the first-level menu.

For the first-level menu, second-level and lower menu : press it to enter the next menu or to confirm the choice.

For Calling: press it to answer the call.

For Music: at the main interface, press it to enter the first-level menu.

For Music: on the menu interface, press it to pause or play.

For Main interface: press it to switch Optional Info in the information bar.

For the first-level menu, second-level and lower menu: press it to enter the next menu.

When on the phone: press it to decrease the volume.

For Music: at the main interface, press it to decrease the volume, and long press it to select the next song. For music: on the menu interface, press it to decrease the volume, and long press it to select the next song.

NOTE: The priority of buttons is calling, fault, phone, music and then others.

Vehicle Setting

Users can set the following items in the setting menu:

TC

ABS

ESS

Theft Alert

Easy Ride

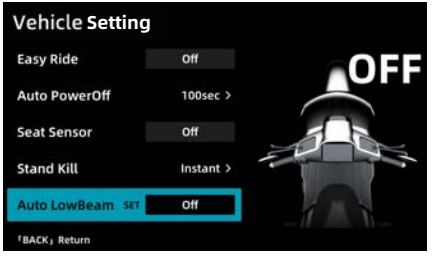
Auto Power Off

Seat Sensor

Stand Kill

Auto Low Beam (If Equipped)

The above function settings shall be subject to the actual vehicle.



TC (Traction Control System)

The TC system automatically adjusts engine output or applies braking force by detecting drive wheel slippage to prevent uncontrolled wheel slipping.

The TC function is set to be enabled by default after each power-on.

Functions

1. Improve vehicle stability during acceleration or on complex road conditions.
2. Prevent drive wheel slippage and reduce accident risk.
3. Collaborate with ABS to enhance overall safety performance.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

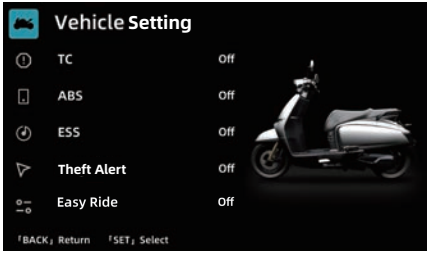
Press △ or ▽ to select **TC**, and press SET to turn on/off TC function.

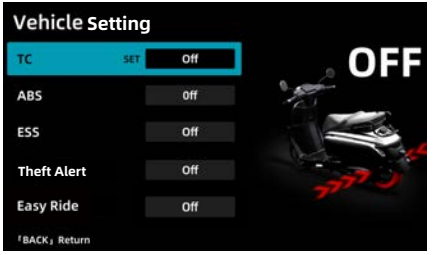
After adjustment, press BACK to return.

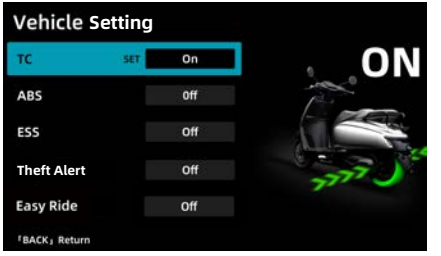
⚠CAUTION
When the rear-wheel ABS function is disabled, the TC function will be simultaneously disabled.

Safety tips

Avoid turning off the TC system for a long time under extreme road conditions to prevent affecting vehicle stability.







ABS

ABS (Anti-lock Braking System) is an important safety feature of the vehicle, used to prevent the wheels from locking during emergency braking, thus enhancing the vehicle's stability and handling during braking.

In the vehicle settings, you can choose to turn off the rear wheel ABS (the front wheel ABS remains on). After turning off the rear wheel ABS, the rear wheels may lock during braking, leading to decreased braking performance.

The ABS function is turned on by default after each power-on.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

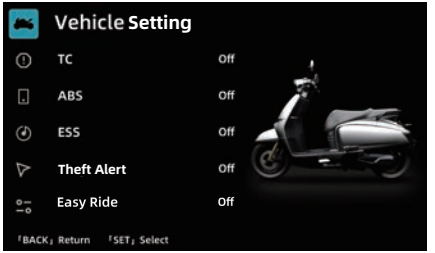
Press the △ or ▽ to select **ABS**, press SET to turn on the ABS function or to turn off the rear wheel ABS function.

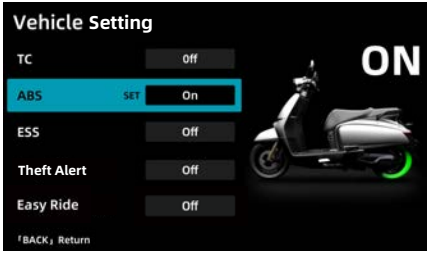
After adjustment, press BACK to return.

Safety tips

1. Turning off the rear wheel ABS will reduce the vehicle's stability during emergency braking, and it is recommended to use this function only in special circumstances (for example, as required by specific road conditions or advanced drivers).

2. In complex road conditions (such as slippery, muddy, or uneven surfaces), it is recommended to keep the rear wheel ABS on to ensure brake safety.





ESS (Emergency Stop Signal)

Its function is to flash the front, rear, left, and right turn signals at the same time when emergency braking occurs during driving. The light intensity of the rear taillights can remind the rear vehicles to pay attention to the situation ahead in low visibility or on night roads. Keep the distance between vehicles and brake in advance.

The ESS function is set to be enabled by default after each power-on.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter

Press △ or ▽ to select **ESS,** and press SET to turn on or turn off the ESS function.

After adjustment, press BACK to return.

Safety tips

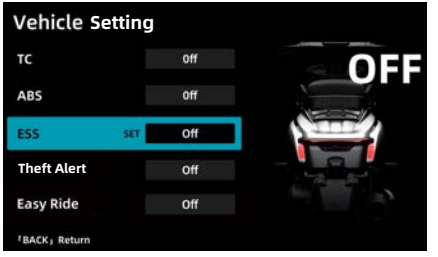
1. ESS is an important safety feature, and it is recommended to keep it on in most situations to enhance driving safety.

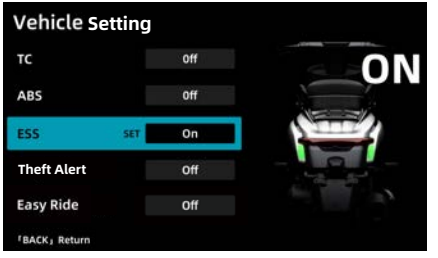
2. ESS is only triggered during emergency braking and will not affect the normal running of the vehicle.

3. If the ESS function is turned off, the hazard lights will not automatically activate during emergency braking, which may increase the risk of a rear-end collision.

Special situations

1. In special cases, such as vehicle maintenance or testing, users can choose to turn off the ESS function, but it is recommended to only operate it when necessary.





Theft Alert

The anti-theft alert function perform real-time monitoring of the vehicle's status through Bluetooth key sensing and vehicle sensors. When abnormal conditions (e.g., unauthorized movement or operation of the vehicle) are detected, it triggers customized alerts and simultaneously pushes notifications to the user's mobile app. The function provides three alert modes (lights, sound, sound & lights), and supports the power-off memory function to ensure that the user can quickly restore the previous settings every time they use it.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter

Press △ or ▽ to select **Theft Alert,** and press SET to select the wanted theft alert status (Lights, Sound, Sound & Lights or OFF).

After adjustment, press BACK to return.

1. Lights

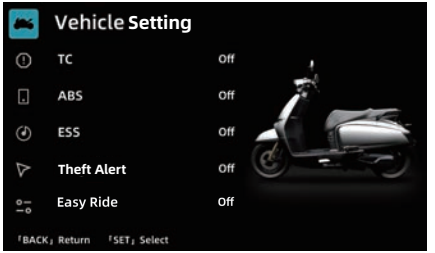
Feature: When the anti-theft alarm is triggered, the front light strip illuminates and flashes in specific patterns to visually alert surroundings that the vehicle is in security mode.

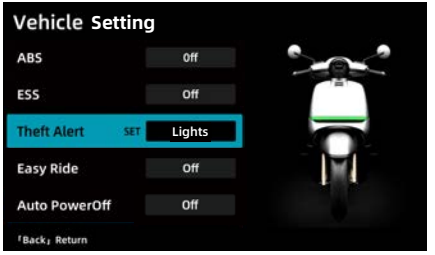
Use Case: Ideal for scenarios requiring visual warnings without noise disturbances (e.g., at night or in quiet areas).

2. Sound

Feature: Activates a high-decibel alarm siren upon theft detection to deter potential theft.

Use Case: Suitable for environments needing audible alerts (e.g., daytime or noisy areas) to ensure vehicle security.

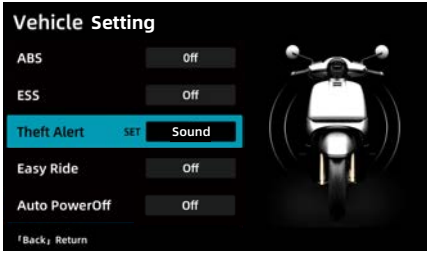




3. Sound & Lights (factory default)

Feature: When the anti-theft alarm is triggered, the front light strip flashes while simultaneously activating an audible siren, providing comprehensive security alerts.

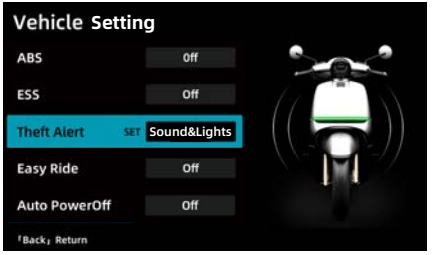
Use Case: Suitable for most scenarios, delivering dual visual-audible alerts to maximize security effectiveness and deterrence.



Power-off memory function

Feature: The anti-theft alert function supports power-off memory function. After the vehicle is powered off, the setting of the anti-theft alert selections retains without needing reset upon next vehicle start.

Use Case: Allows personalized anti-theft mode configuration. The system can automatically recall preferences to enhance operational convenience.



Check the anti-theft alert status

Users can check the anti-theft alert settings through the app.

Deactivating anti-theft alerts

When your phone's Bluetooth pairs with the vehicle and approaches it, the anti-theft alert automatically deactivates.

Powering on the vehicle also disables the anti-theft alert function.

Easy Ride

The easy ride function is an intelligent starting mode that simplifies the vehicle's starting process and enhances riding convenience. When the vehicle is powered on and enable the easy ride function, sit on the seat and retract the side stand, the engine automatically starts and slowly apply the throttle to ride.

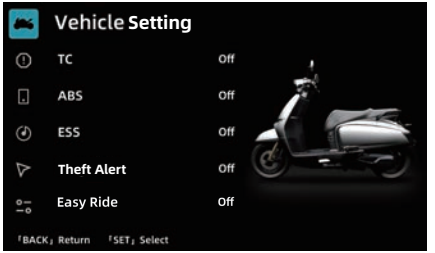
This function is turned off by default and needs to be manually turned on through the vehicle settings.

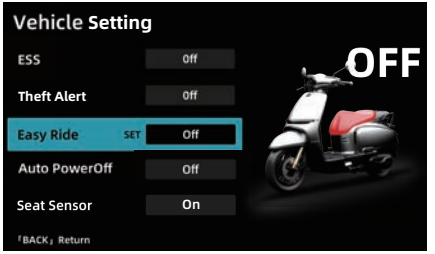
When the seat sensor is on:

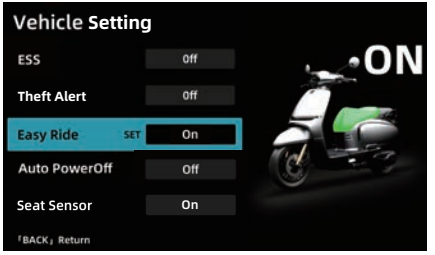
Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

Press △ or ▽ to select **Easy Ride**, and press SET to turn on or off the easy ride function.







When the seat sensor is off:

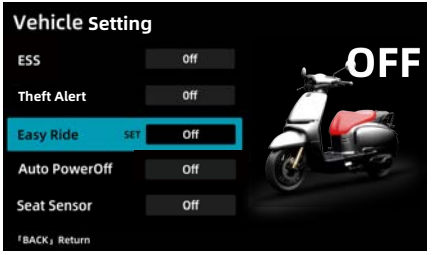
Press SET to enter the menu interface.

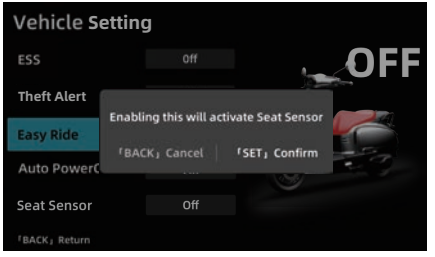
Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

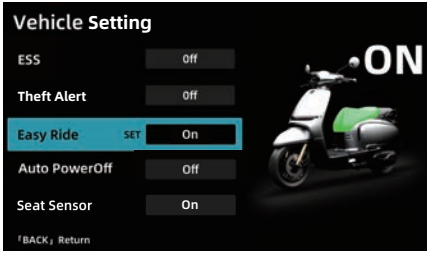
Press △ or ▽ to select **Easy Ride**, and press SET to turn on the easy ride function, the instrument displays a pop-up window.

Press SET to confirm, the easy ride function enable successfully and activate the seat sensor function.

Press BACK to cancel, the seat sensor function will not be activated and the easy ride function will fail to turn on.







Function limitations

1. If the vehicle is in a low battery state or an abnormal state, the easy ride function will not be able to start the vehicle.

2. The easy ride function relies on the seat sensor function. If the seat sensor function is not activated or is abnormal, the easy ride function will not work properly.

Safety tips

1. When using the easy ride function, please ensure the environment around the vehicle is safe to avoid the risk of accidental activation.

2. If the easy ride function does not work as expected, please check whether the vehicle settings are correct and ensure all sensors are functioning normally.

3. Regularly check the sensitivity of the seat sensor function to ensure the easy ride function is normally available.

Auto Power Off

The auto power off function is an intelligent power management feature designed to help users automatically turn off the power supply to save power and protect the battery when the vehicle is not used for a long time.

Users can set the automatic power-off time according to their needs (such as 100 seconds, etc.) to ensure the vehicle powers off promptly when not in use.

The auto power off function is turned off by default, and users can manually turn it on or off as needed.

When the seat sensor is on:

Press SET to enter the menu interface.

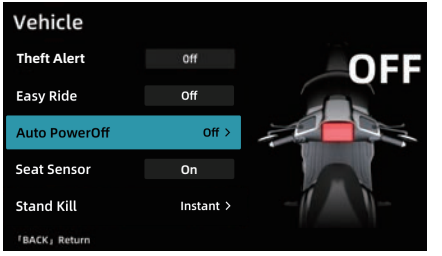
Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

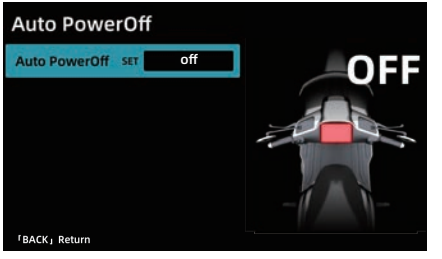
Press △ or ▽ to select **Auto Power Off**, and press SET to enter.

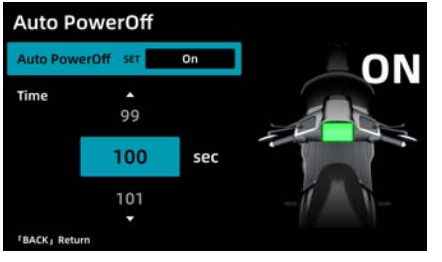
Press SET to turn on the auto power off function.

After enabling the auto power off function, press △ or ▽ to select the desired power-off time.

After setting, press BACK to return.







When the seat sensor is off:

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

Press △ or ▽ to select **Auto Power Off**, and press SET to enter.

Press SET to turn on the auto power off function, the instrument displays a pop-up window.

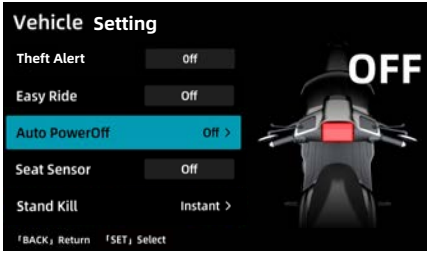
Press SET to confirm, the auto power off function enable successfully and activate the seat sensor function.

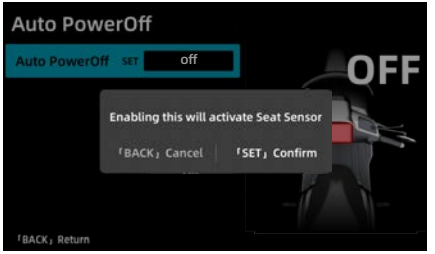
Press △ or ▽ to select the desired power-off time. After setting, press BACK to return.

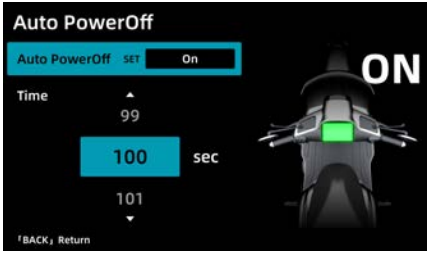
Press BACK to cancel, the seat sensor function will not be activated and the auto power off function will fail to turn on.

Auto power off setting successful

When no vehicle usage is required, park the vehicle stably on firm and level ground, turn off the engine, lower the side stand, and leave the seat. The auto power off function will execute the power-off operation after the preset time interval.







Instructions

When the seat sensor function is enabled, if the vehicle detects occupancy on the seat during the preset power-off time, the auto power off function will be canceled, and the vehicle will immediately resume powered-on status. Upon detecting that the seat is unoccupied, the power-off function will be re-enabled and will initiate power-off according to the preset time interval.

Safety tips

The auto power off function will not affect the vehicle's safety systems (such as ABS, ESS, etc.), and these functions will be activated normally when the vehicle is powered on.

Operation tips

Regularly check the vehicle's battery status to ensure battery health for the normal operation of the auto power off function.

Special situations

1. If the vehicle is not used for a long time, it is recommended to manually turn off the power to save energy further.

2. If the auto power off function is not operating properly, it may be due to an abnormal seat sensor function or low battery power. Contact an authorized service center for inspection and repair.

Seat Sensor

The seat sensor function is an intelligent detection system that determines whether a rider is seated on the vehicle. By monitoring pressure changes on the seat, it provides intelligent operational support for the vehicle. This function serves as the foundation for both the Easy Ride and Auto Power Off features. These two functionalities can only operate when the seat sensor is enabled.

The function is turned on by default.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

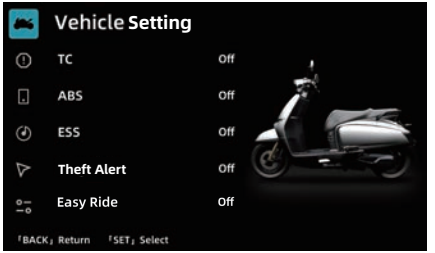
Press △ or ▽ to select **Seat Sensor**, and press SET to turn on or off the seat sensor function.

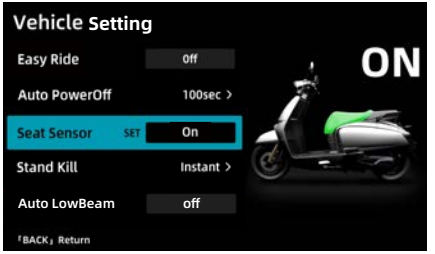
NOTE

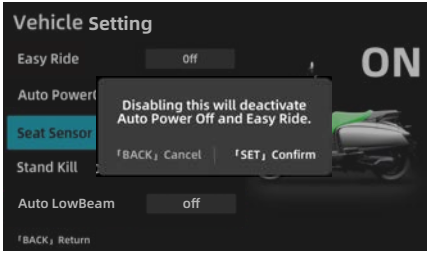
If the seat sensor function is disabled, both the Easy Ride and Auto Power Off will be disabled and automatically turned off.

If the seat sensor function is abnormal (e.g., false detection or failure to detect occupancy), the Easy Ride and Auto Power Off functions may be affected and cease to operate normally.

Under extreme weather conditions (e.g., low/high temperatures, rain, or humid environments), the sensitivity of the seat sensor function may decrease. It is recommended to manually disable the Easy Ride and Auto Power Off functions to ensure safety.







Side Stand Kill

The side stand kill function is a safety auxiliary feature used to automatically shut off the engine when the vehicle is stationary (such as when the user dismounts and lowers the side stand), according to the set mode, to enhance the vehicle's safety and prevent accidental starts.

This function offers two modes:

1. Instant kill mode: The engine shuts off immediately after the side stand is lowered.

2. Delayed kill mode: The engine will shut off following a set delay time after the side stand is lowered.

The side stand kill function is set to instant kill mode by default.

Users can choose the mode according to personal needs and set a specific delay time when selecting "Delayed" (as shown in the image on the right).

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

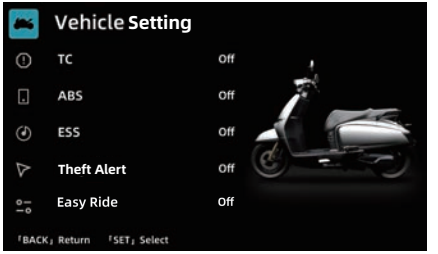
Press △ or ▽ to select **Side Stand Kill**, and press the SET to select “Instant” or “Delayed”.

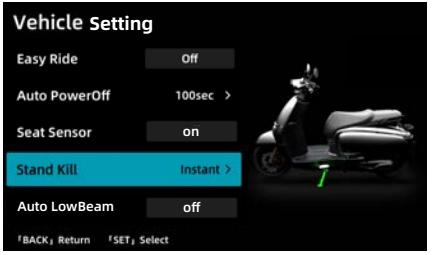
Set delayed time

After selecting "Delayed", the instrument will guide you to set a specific delay time.

Press △ or ▽ to select the desired time (as shown in the right image).

Once set, press BACK to return.





Instructions

When the side stand kill function is activated, the vehicle will detect the status of the side stand:

If the side stand is lowered (when the vehicle is stationary), the system will execute the shutoff operation according to the set mode.

Side stand delayed kill function description

This function allows the vehicle to delay engine shutdown for a period after the side stand is lowered. It is implemented by the vehicle's control module via the telematics system (CAN).

Shut-off logic

Case 1: Start/Stop Function OFF & Engine OFF

If the side stand is lowered, grip the brake lever and left toggle the start switch, the engine can be restarted.

When the delay time expires, or the vehicle begins to move (speed exceeds 3 km/h), the engine will immediately shut off.

Case 2: Start/Stop Function OFF & Engine Running

If the side stand is lowered, the vehicle begins to move (speed exceeds 3 km/h) or the delay time expires, the engine will immediately shut off.

Case 3: Start/Stop Function ON

If the vehicle is moving (speed exceeds 3 km/h), or the side stand is lowered, the engine will immediately shut off.

Case 4: Left Toggling the Start Switch

Regardless of side stand delayed kill status or start/stop function activation, the engine immediately shuts down when the start switch is left toggled and quickly released while the vehicle is stationary with the engine running.

Safety tips

1. This function will not affect the vehicle's safety systems (such as ABS, ESS, etc.), which will be normally activated while the vehicle is running.
2. The side stand kill function depends on the detection of the side stand status. Regularly check the condition of the side stand and related sensors to ensure the function is working properly.

Operation tips

When the auto star/stop function is turned on, the delayed kill function will be disabled. The system will trigger a pop-up window: "Side stand delayed shutoff will be effective when the auto start/stop function is turned off.

Special situations

1. If the vehicle is not used for a long time, it is recommended to turn off the engine manually to save fuel and protect the vehicle.
2. If the side stand shutoff function is not working properly, it may be due to a malfunctioning side stand sensor or system failure. Contact an authorized service center for repair on time.

Auto Low Beam (if Equipped)

The auto low beam function is an intelligent light management function designed to enhance safety while riding at night or in low-light environments and save energy. This function detects the intensity of external ambient light through the photosensitive sensor on the vehicle's Instrument and generates an electrical signal based on the light changes, sending it to the BCM to automatically turn the low beam on or off.

When the auto low beam function is turned on, the system automatically adjusts the state of the low beam based on light intensity:

In dim light conditions: The low beam will automatically turn on to provide basic illumination.

In sufficient light conditions: The low beam will automatically turn off to save power.

This function is turned off by default. Users can manually turn it on or off according to their needs.

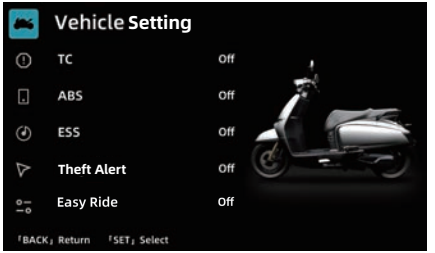
Press SET to enter the menu interface.

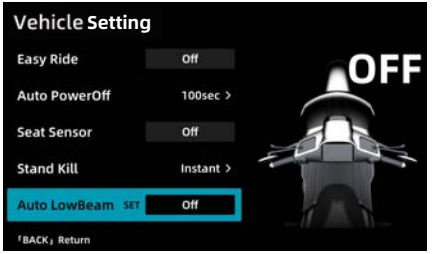
Press △ or ▽ to select **Vehicle Setting**, and press SET to enter.

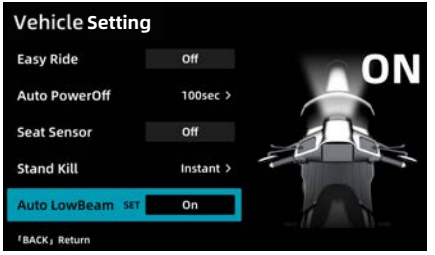
Press △ or ▽ to select **Auto Low Beam**, press SET to turn the auto low beam function on or off.

Safety tips

1. The auto low beam function will not affect the driving safety of the vehicle, the low beam will automatically turn on in low light to ensure riding safety.







2. Ensure that the photosensitive sensor and BCM are functioning properly to guarantee the reliability of the auto low beam function.

Operation tips

1. If the auto low beam function does not work properly, it may be due to a dirty or damaged photosensitive sensor or abnormal BCM. Clean it or contact an authorized service center to check the related components.

2. In environments with frequent light changes (such as tunnels, urban roads, etc.), the system may frequently turn the low beam lights on and off. It is recommended to choose whether to turn on the function based on actual needs.

Special situations

1. If parking for an extended period in a dimly lit environment, it is recommended to manually turn off the low beam lights to save power.

2. If you need to use low beam lights for a long time (such as on rural roads with insufficient light), it is recommended to turn off the auto low beam function to avoid frequent switching due to light changes.

Vehicle Information

In the vehicle information menu, users can check the following items:

1. Basic Information
2. Driving Information
3. Warnings

Basic Information

On the basic information interface, users can check battery voltage, range, coolant temperature, remaining service mileage, and tire pressure and tire temperature (if equipped).

When any of the above items are abnormal (abnormal items will turn red), users should pay attention. If necessary, please troubleshoot abnormal items at an authorized CFMOTO service center.

Press SET to enter the menu interface.

Press △ or ▽ key to select **Vehicle Information**, and press SET to enter.

Resetting service mileage:

On the basic information interface, press SET for 10 seconds to reset successfully.

A CFMOTO service center can also reset the service mileage after performing the required maintenance. It is recommended not to reset the service mileage by yourself.

Driving Information

On the driving information interface, users can check ODO, TRIP1 mileage, TRIP 2 mileage, and the set average speed, average fuel consumption, mileage, and riding time.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Information**, and press SET to enter.

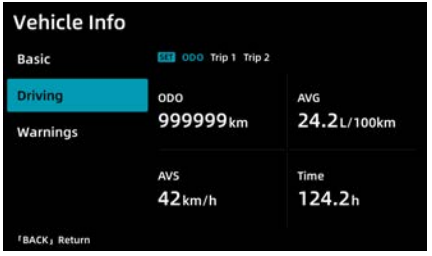
Press ▽ to select **Driving Information**, and enter the driving information interface.

Press SET to switch between ODO, TRIP1 mileage, and TRIP2 mileage.

TRIP 1 / TRIP 2 Reset

Press SET to switch to TRIP1 mileage or TRIP2 mileage interface, long press SET to reset TRIP1 or TRIP2.

NOTE: Odometer cannot be reset.



Warnings

On the warnings interface, users can check fault information or a fault reminder. To clear a fault when it occurs, contact an authorized CFMOTO service center if necessary.

Press SET to enter the menu interface.

Press △ or ▽ to select **Vehicle Information**, and press SET to enter.

Press ▽ to select **Warnings**, and enter the warnings interface.

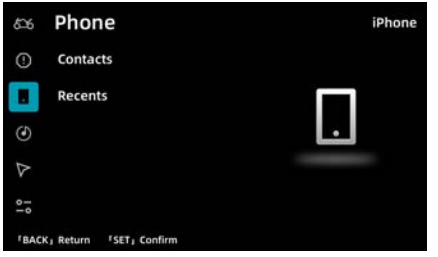
Phone

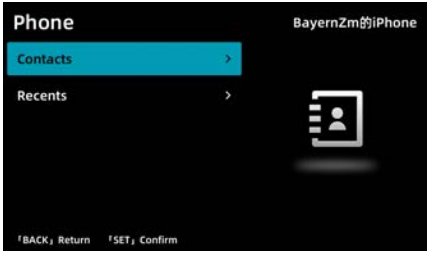
NOTE: Before using the phone, the equipment must be correctly connected. Connect the phone with the instrument via Bluetooth (see system settings-phone connection for details).

In the phone menu, users can check the following contents.

Contacts

Recent Calls





Contacts

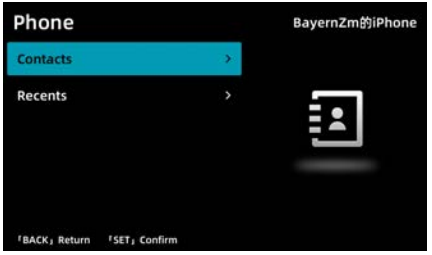
On the contacts interface, users can view the contacts recorded by their Bluetooth-connected mobile phones and dial the numbers.

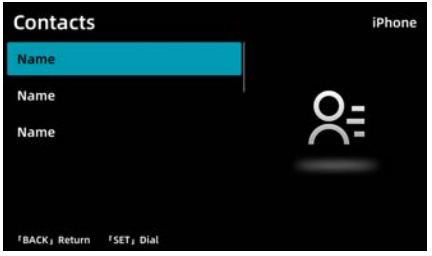
Press SET to enter the menu interface.

Press △ or ▽ to select **Phone**, and press SET to enter.

Press △ or ▽ to select **Contacts**, and press SET to enter.

Press △ or ▽ to select the number, and press SET to dial the number.





Recent Calls

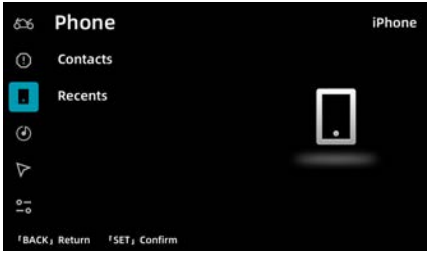
On the recent calls interface, users can view recent calls recorded by their Bluetooth-connected mobile phones and dial the numbers.

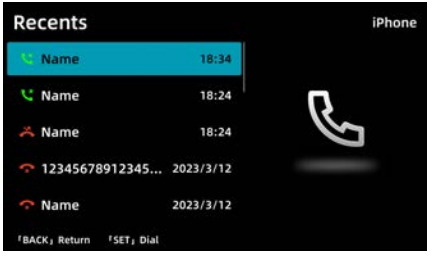
Press SET to enter the menu interface.

Press △ or ▽ to select **Phone**, and press SET to enter.

Press △ or ▽ to select **Recents**, and press the SET to enter.

Press △ or ▽ to select the number in the latest calls, and press SET to dial the number.





Music

On the music interface, users can play songs on the phone through Bluetooth, and through the button on the LH handlebar to switch the previous song and the next song, or to pause, and play, to adjust volume and other functions.

Press SET to enter the menu interface.

Press △ or ▽ to select **Music**, and press SET to enter.

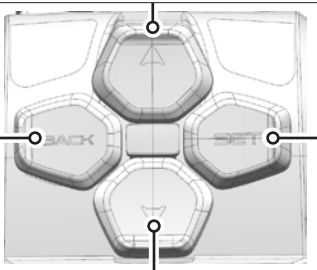
Playing songs through your phone.

Description: A few mobile phones may be unable to pause and play the previous/next music due to an uncommon mobile operating system or Bluetooth protocol.

For Music: on the main interface, press it to increase the volume, long press it to switch the previous song.

For Music: on the menu, press it to increase the volume, long press it to switch the previous song.

For Music: on the menu, press it to return to the main interface.



For Music: on the main interface, press it to enter the first-level Menu, and long press to pause or play.

For music: on the Menu interface, press it to pause or play.

For Music: on the main interface, press it to decrease the volume, long press it to switch the next song.

For Music: on the menu, press it to decrease the volume, and long press it to select the next song.

Navigation (if Equipped)

Users can complete phone interconnection through the easy connection and QR code scanning, and the projection screen function can be used after interconnection. The easy connection can be achieved through MotoPlay on the CFMOTO RIDE APP. QR code scanning needs to enter the navigation interface on the instrument and scan the QR code to realize the projection screen function (refer to the QR code on the vehicle).

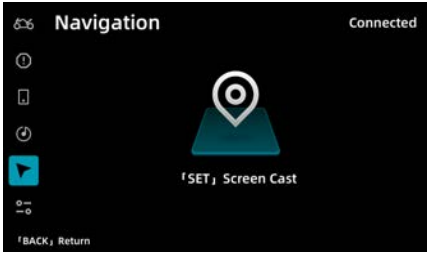
Follow the steps below to scan the QR code:

1. Press SET to enter the menu interface.

2. Press △ or ▽ to select **Navigation**.

3. Open the CFMOTO RIDE APP to enter MotoPlay. Click ‘Scan the QR code’ and scan it to enter the projection interface.

When users close the CFMOTO RIDE APP or the Internet is disconnected, the interface on the instrument will return to the interface before interconnection. Under the condition of interconnection, route navigation initiated on the phone can also enter the projection screen interface when the instrument is in the Menu or main interface.



System Settings

In the system settings, users can adjust and set the following contents:

Connect phone

Information

Display & brightness

Unit

Time

Language

Password Unlocking

System Update

About

Reset

Connect phone

Phone calls, music and other functions can be used after the phone is connected to the instrument via Bluetooth.

Follow these steps to connect your Bluetooth:

Ensure that the Bluetooth of the mobile phone to be connected is turned on.

Press SET to enter the menu interface.

Press △ or ▽ to select Settings, and press SET to enter.

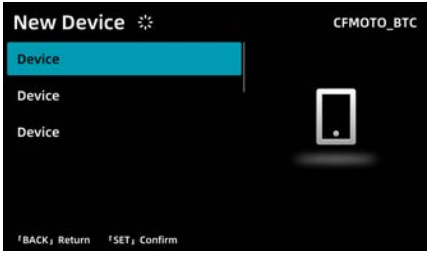
Press △ or ▽ to select Connect Phone, and press SET to enter.

Press △ or ▽ to select New Device, press SET to enter, and the instrument will automatically search for the Bluetooth device.

Press △ or ▽ to select the wanted equipment, and press SET to connect.

On your phone, a pop-up window for connection confirmation will be displayed. Click it to connect.

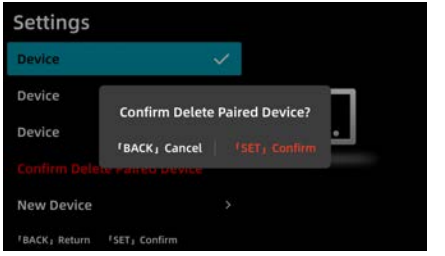
Wait until your device is successfully connected, a "√" will appear at the end of the Bluetooth ID and be pinned to the top of the device list (See red box in the second image. The device list can only retain 3 Bluetooth IDs. If a new ID is added, the ID at the end of the list will be automatically covered).



Disconnection

Press △ or ▽ to select the connected Bluetooth device, and press SET to disconnect, a “×” will appear at the end of the Bluetooth ID. Press SET again to reconnect.

The Bluetooth ID of the mobile phone that exists in the device list does not need to be paired if it is connected again after completely disconnecting (turning off the Bluetooth of the mobile phone), and will be automatically connected. Otherwise, you need to reconnect the Bluetooth of the mobile phone and pair it.



Delete Paired Device

Press △ or ▽ to select “Confirm Delete Paired Device”.

Press SET to enter the confirmation pop-up window.

Press BACK or SET to cancel or confirm.

Information

Select messages from Information to display on the main interface.

Press SET to enter the Menu interface.

Press △ or ▽ to select **Settings**, and press SET to enter the Settings interface.

Press △ or ▽ to select **Information**, and press SET to enter.

Press △ or ▽ to select **Layout**, and press SET to toggle between “Normal/Simple”.

Default Selection

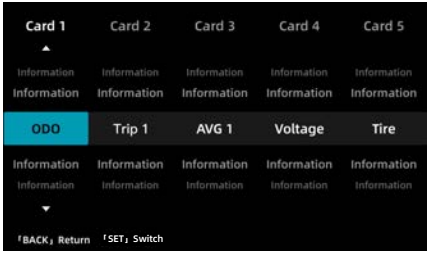
Press ▽ to select Menu 1, and press SET to enter.

Press △ or ▽ to select the wanted information displayed on selection bar 1. After selection, press SET to switch to selection bar 2 for selection, and so on until selection bar 5 is selected.

Press BACK to return.

Use the same operation method to select the information in Menu 2.

After selection, press BACK until it returns to the main interface (see the image on the next page for details).



Simple Selection

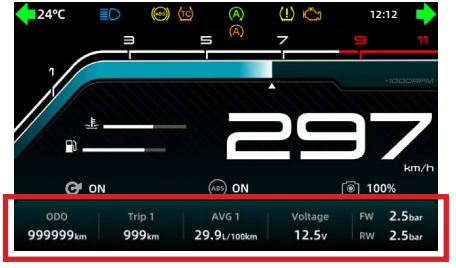
Press ▽ to select Menu 1, and press SET to enter.

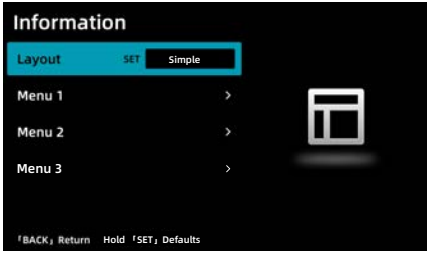
Press △ or ▽ to select the wanted information displayed on selection bar 1. After selection, press SET to switch to selection bar 2 for selection, and so on until selection bar 3 is selected.

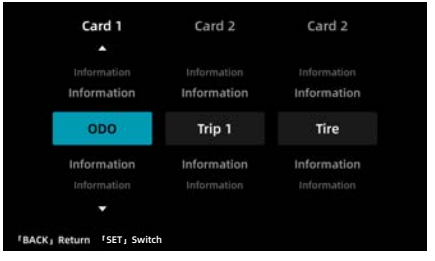
Press BACK to return.

Use the same operation method to select the information in Menu 2 and Menu 3.

After selection, press BACK until it returns to the main interface.







Display & Brightness

1. Switch the instrument theme to meet your preferences.

2. Change the color scheme of the instrument main display to meet your preferences.

3. Manually adjust the brightness of the instrument or turn on the automatic brightness adjustment function (after turning it on, the photosensitive sensor will automatically adjust the instrument's brightness according to the external environment light.).

4. Switch the text size "Big/Small" to suit your reading habits.

Press SET to enter the menu interface.

Press △ or ▽ to select **Settings**, and press SET to enter the Settings interface.

Press △ or ▽ to select **Display & Brightness**, and press SET to enter.

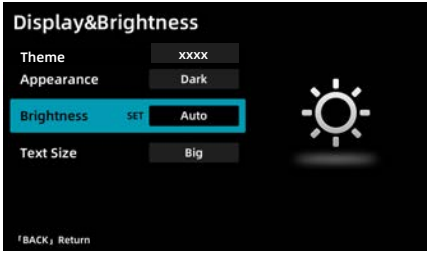
1. Press △ or ▽ to select **Theme**, and press SET to switch.

2. Press △ or ▽ to select **Appearance**, and press SET to change the color scheme of the instrument main display.

3. Press △ or ▽ to select Brightness, and press SET to switch between "Auto/Manual" of modes of the instrument's brightness. Take the third image as an example, when the screen brightness is in the "Auto" mode, continue to press SET, then the instrument's brightness mode will switch from "Auto" to "1" of the "Manual" mode. Continue to press SET, the instrument's brightness will be from 1→2→3→4→5→Auto→1→2→3…..

4. Press △ or ▽ to select **Text Size**, and press SET to switch between "Big" and "Small" of the instrument's text.

After adjustment, press 'BACK' to return.



Unit

Switch units of speed, temperature and tire pressure (if equipped) to suit your preference.

Press SET to enter the menu interface.

Press △ or ▽ to select **Settings**, and press SET to enter.

Press △ or ▽ to select **Unit**, and press SET to enter.

Press or ▽ to select the unit you need to switch (**speed / temperature / tire pressure-if equipped**), and press SET to switch the unit.

km/h mph

℃ ..... ℉

kPa bar psi

Time

Users can adjust the time displayed on the main interface.

Press SET to enter the menu interface.

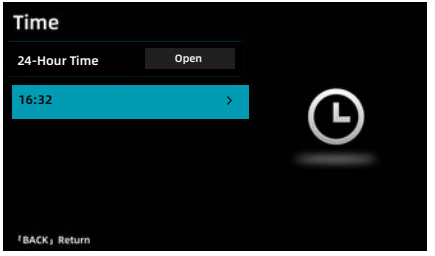
Press △ or ▽ to select **Settings**, and press SET to enter the Settings interface.

Press △ or ▽ to select **Time**, and press SET to enter.

Press SET to switch on/off 24-Hour Time.

When turning on the 24-Hour Time, the time can be adjusted.

Press ▽ to select “16:32”, and press SET to enter.



Press △ or ▽ to adjust “Hour”.

After the hour adjustment, press SET to switch to minutes.

Press △ or ▽ to adjust “Minute”.

After the minute adjustment, press BACK to return. At this time, the adjustment of the 24-Hour Time is completed.

When turning off the 24-Hour Time, users can adjust the 12-Hour Time.

Press ▽ to select "06:32", and press SET to enter.

Press △ or ▽ to adjust “AM”/“PM”.

After adjusting the time period, press SET to switch to the “Hour”.

Press △ or ▽ to adjust “Hour”.

After the hour adjustment, press SET to switch to minutes.

After the minute adjustment, press BACK to return. At this time, the adjustment of the 12-Hour Time is completed.

Language

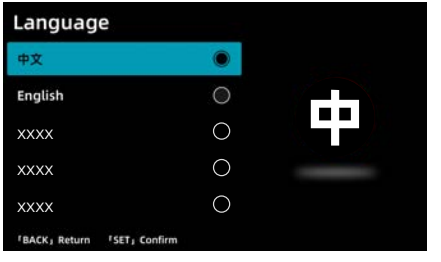
Adjust the instrument's language to suit your preference.

Press SET to enter the menu interface.

Press △ or ▽ to select **Settings**, and press SET to enter.

Press △ or ▽ to select **Language**, and press SET to enter.

Press △ or ▽ to select your language**,** and press SET to confirm.



Password Unlock

This vehicle supports unlocking and powering on the vehicle with a preset digital password. Users can turn this function on/off or change the password through the system settings (The initial password needs to be set for the first time to open this function. Set it according to the instrument notification. Remember the initial password, and contact customer service in time if you forget it).

Press SET to enter the menu interface.

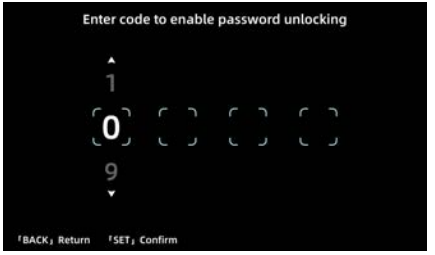
Press △ or ▽ to select **Settings**, and press SET to enter.

Press △ or ▽ to select **Password Unlock**, and press SET to enter.

Press SET to turn on/off password unlock (turning on/off password unlock needs to enter password to operate successfully).

Enter the password input interface, press △ or ▽ to select the first digit of the password, after that, press SET to switch to next (if the previous password is incorrect, press BACK to return to the previous password), and so on until input the fourth digit of the password, and press SET to confirm.

If you want to exit this operation, long press BACK to return.



NOTE: If the password is incorrect, the prompt function will be triggered (the password input box turns red, and the prompt text appears at the bottom). If the wrong password is entered three times consecutively, the password unlock function will be temporarily locked and accompanied by a prompt text.

If you want to change the unlock password, press ▽ to select "Change Password” (see the second image on the previous page), and press SET to enter.

Enter the current unlock password, then enter your new password and enter it again to confirm. Press SET to complete the password reset.

System Update

When a new system version becomes available, the system upgrade module will pop up a window to alert you. If you cannot upgrade immediately, press “BACK” to disregard the upgrade window. Then, when you are ready, enter the system settings to perform the upgrade. Follow the steps below:

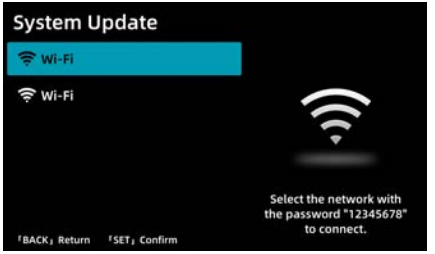
Press SET to enter the menu interface.

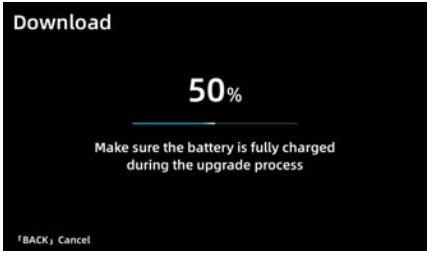
Press △ or ▽ to select **Settings**, and press SET to enter.

Press △ or ▽ to select **System Update**, and press SET to enter, the system will automatically search for available networks. Press △ or ▽ to select your network, and press SET to connect.

After connection, the system will automatically search for the newest system version.

When the newest version is found, press SET to upgrade. Then wait until the installation package is installed. A few important notes are on the next page.





NOTE:

1. Don’t turn off the vehicle’s power supply. If vehicle power is turned off, installation of the update will be disrupted. Users need to download the installation package again.

2. Downloading the system update will fail if the Internet is disconnected for 30 seconds or more.

3. Users can cancel a download in progress by pressing “BACK”, which will return you to the New Version interface (see the second image on the previous page).

4. Ensure the battery is fully charged before you try to upgrade the system.

5. If the download fails, press SET to download the installation package again.

6. Don’t turn off the vehicle power supply during the system upgrade after the download, or it will damage the instrument.

About

On the About interface, users can check the current system version, MCU version, UUID, frame number, and parts code.

Press SET to enter the menu interface.

Press △ or ▽ to select **Settings**, and press SET to enter.

Press △ or ▽ to select **About**, and press SET to enter.

Reset

You can reset all instrument settings.

NOTE: This function does not reset ODO or related functions.

Press SET to enter the menu interface.

Press △ or ▽ to select **Settings**, and press SET to enter.

Press △ or ▽ select **Reset**, and press SET to enter the popup window.

Press BACK or SET to select **Cancel** or **Confirm**.

OPERATING YOUR VEHICLE

Break-In Period

The break-in period for this vehicle is the first 600 miles (1000 km). Maintain the vehicle according to the break-in period requirements.

The following items should be observed during the break-in period:

1. Do not run high engine speeds immediately after the engine starts. Allow the engine to warm for 2 ~ 3 minutes at idle speed and let oil flow into all engine lubricating parts.

2. Do not run the engine at high RPM when the transmission is in neutral.

3. During the break-in period, CFMOTO suggests the top engine speeds as below:

Odometer	Maximum Engine RPM
0 ~ 300 miles (0 ~ 500 km)	4000 RPM
300 ~ 600 miles (500 ~ 1000 km)	6000 RPM

⚠DANGER
New tires can be slippery. Unsafe riders may lose control and cause damage. Tire pressures should be at the specified value during the break-in period. Avoid sudden, maximum braking/acceleration and hard cornering during the break-in period.

Brake break-in period

⚠WARNING
1. During the break-in period, the brake system pads and discs require wear-in and may not have reached optimal performance. 2. When operating on new brake pads and discs, do not follow other vehicles too closely or apply the brakes suddenly to avoid accidents.

Daily Safety Inspection

Inspecting the following items before daily riding will help keep your vehicle in a safe and reliable condition. If anything unusual appears, please refer to the Maintenance and Adjustment section or contact your dealer. Do not ride the vehicle in an abnormal condition, as it may lead to serious damage or accidents.

Item	Content
Engine oil	Inspect the oil level to see whether it is proper.
Rear brake fluid reservoir	Inspect the rear brake fluid level to see whether it is proper.
Rear Wheel	Inspect the rear wheel and tire for excessive wear, cracks or cuts, embedded items or other damage. Inspect the rear tire pressure to see whether rear tire pressure is within the standard range.
Rear brake	Inspect the thickness of rear brake pad. Inspect the thickness of rear brake disc and inspect for any dirt or damage.
Front wheel	Inspect the front wheel and tire for excessive wear, cracks or cuts, embedded items or other damage. Inspect the front tire pressure to see whether front tire pressure is within the standard range.
Front brake	Inspect the thickness of the front brake pad. Inspect the thickness of front brake disc and inspect it for any dirt or damage.
Front brake fluid reservoir	Inspect the front brake fluid level to see whether it is proper.
Luggage (if equipped)	Inspect the luggage to see whether it is fastened securely, and make sure the luggage height is in line with local regulations.
Coolant	Inspect the coolant level to see whether it is proper.

Instrument	Inspect the instrument's fault indicators and inspect the fuel level to see whether there is enough fuel.
Rearview mirrors	Inspect the rearview mirrors to see whether they are in an appropriate view angle.
Lights	Inspect all the lights to see whether they all work well and whether the beam height for front lights meets the local regulations.
Operating parts	Inspect the steering, front and rear brakes, throttle and switches to see whether they can be operated smoothly.
Side stand	Inspect the return spring of the side stand for any looseness or damage.
Stop switch	Inspect the stop switch to see whether it works properly.

⚠DANGER
Inspect the vehicle every time before riding.
The operator must have the appropriate license to ride the vehicle.
Learn the local regulations, and do not ride the vehicle in the areas where motorcycles are not allowed.
Do not start the vehicle in a closed area or an area without good ventilation. The exhaust generated during engine operation may cause people to lose consciousness or even cause deaths.

Regular Riding

Starting

Make sure the main stand is retracted.

Unlock the vehicle power supply and stem lock (See the Vehicle Power-On and Electronic Stem Lock section for details.).

Retract the side stand, sit on the vehicle seat with your right foot on the footrest and left foot on the ground.

Grip the brake lever with your left hand, and toggle the start switch to the left with your right thumb to start the vehicle.

⚠CAUTION
Running an engine at high RPMs in low temperatures will impact the lifespan of the engine. Always warm the engine at a low speed.
Do not start the vehicle with the start switch until the instrument self-inspection has completed.
The vehicle is equipped with a side stand switch. If the side stand is not retracted, it will trigger the parking protection function.
Do not repeatedly toggle the start/stop switch to the left multiple times in succession. Please wait for more than 15 seconds to press the start switch again, or it will cause the battery to discharge.
It is recommended that the vehicle should not idle for a long time. Idling for 30 minutes or more will cause the battery temperature to be too high, which affects battery life.

Starting Off

Release the brake lever, slowly apply the throttle, after the vehicle starts, raise your left foot and place it on the footrest.

Riding

Hold the front/rear brake at all times with both hands for braking in advance in case of special or emergency conditions.

The vehicle speed increases by varying throttle position when driving.

Keep the throttle slightly open. Please control the vehicle speed within the legal speed limit.

⚠WARNING
Avoid any abrupt load alterations or strong brake operation, which can cause loss of control.
Adjust your speed according to road conditions and the situation around you.
When the engine speed is high, the vehicle speed is also high. Release the throttle first to brake and reduce the speed, lowering the engine speed.
All adjustments for vehicle operation should be made when the vehicle is parked.
The passenger must be seated properly on the passenger seat with feet on the rear foot pedals, wearing a helmet and other safety protection, and holding onto the operator or grabbing the handle.
Comply with local traffic regulations for minimum passenger age.
Comply with all local traffic regulations, and ride defensively and cautiously to detect danger as early as possible.
When the tires are cold, their road grip performance is reduced. Be cautious and ride at a safe speed until the tires reach operating temperature.
Do not exceed the maximum full load, which includes the motorcycle, driver, passenger, and luggage.

⚠WARNING
Luggage sliding will affect the riding performance, so inspect luggage to confirm it is properly secured on the vehicle and to ensure that its width does not exceed 0.15m from the handlebar on the left and right sides. In the event of an accident, the damage from crashing could be more serious than it looks. Inspect the vehicle completely to make sure it is safe, or take the vehicle to a CFMOTO dealer for inspection. Improper operation of the brakes and throttle may reduce the life of the drive belt. If equipped with the quick gear shifting function, it can be used when this function is activated in the instrument setting. Operate the throttle according to the road conditions and climate. Do not aggressively rotate the throttle during turns.

Easy ride

Starting

Ensure the main stand is retracted.

Unlock the vehicle power supply and stem lock (see the Vehicle Power-On and Electronic Stem Lock section for details).

Enable the easy ride function (if equipped). Operate the APP or the instrument (see Vehicle Setting - Easy Ride for details) to enable this function.

Retract the side stand and sit on the vehicle seat. The engine starts automatically, step your right foot on the footrest and your left foot on the ground.

⚠CAUTION
Running an engine at high RPMs in low temperatures will impact the lifespan of the engine. Always warm the engine at a low speed.
Do not start the vehicle with the start switch until the instrument self-inspection has completed.
The vehicle is equipped with a side stand switch. If the side stand is not retracted, it will trigger the parking protection function.
Do not repeatedly toggle the start/stop switch to the left multiple times in succession. Please wait for more than 15 seconds to press the start switch again, or it will cause the battery to discharge.
It is recommended that the vehicle should not idle for a long time. Idling for 30 minutes or more will cause the battery temperature to be too high, which affects battery life.

Starting Off

Slowly apply the throttle. After the vehicle starts, raise your left foot and place it on the footrest.

Riding

Hold the front/rear brake at all times with both hands for braking in advance in case of special or emergency conditions.

The vehicle speed increases by varying throttle position when driving.

Keep the throttle slightly open. Please control the vehicle speed within the legal speed limit.

⚠WARNING
Avoid any abrupt load alterations or strong brake operation, which can cause loss of control.
Adjust your speed according to road conditions and the situation around you.
When the engine speed is high, the vehicle speed is also high. Release the throttle first to brake and reduce the speed, lowering the engine speed.
All adjustments for vehicle operation should be made when the vehicle is parked.
The passenger must be seated properly on the passenger seat with feet on the rear foot pedals, wearing a helmet and other safety protection, and holding onto the operator or grabbing the handle.
Comply with local traffic regulations for minimum passenger age.
Comply with all local traffic regulations, and ride defensively and cautiously to detect danger as early as possible.
When the tires are cold, their road grip performance is reduced. Be cautious and ride at a safe speed until the tires reach operating temperature.
Do not exceed the maximum full load, which includes the motorcycle, driver, passenger and luggage.

⚠WARNING
Luggage sliding will affect the riding performance, so inspect luggage to confirm it is properly secured on the vehicle and to ensure that its width does not exceed 0.15m from the handlebar on the left and right sides. In the event of an accident, the damage from crashing could be more serious than it looks. Inspect the vehicle completely to make sure it is safe, or take the vehicle to a CFMOTO dealer for inspection. Improper operation of the brake and throttle can reduce the life of the drive belt. If equipped with the quick gear shifting function, it can be used when this function is activated in the instrument setting. Operate the throttle according to the road conditions and climate. Do not aggressively rotate the throttle during turns.

Braking

Release the throttle when applying the brake, and use front and rear wheel brakes for braking at the same time.

Finish braking before turning.

On a long downhill ride, keep driving at low speed and brake slowly to avoid continuous braking and brake attenuation.

⚠WARNING
Moisture, dirt and snow melting salt will impair the brake system. Brake carefully several times to dry out moisture and remove dirt or snow melting salt from the brake pads and discs.
If the front and rear brake levers feel soft, stop riding until the brake system is fully inspected and the faults eliminated.
Take your hand off the brake lever when you are not braking. Long-time braking will cause brake pads overheating and excessive wear, which will affect service life and safety.
When carrying a passenger or luggage, the required braking distance will be increased. Please adjust the brake time according to the vehicle load.
When the ABS is used, you can achieving the maximum brake power, when in the low grip surface, such as sandy, wet or slippery road with no risks of the locking of the wheels.
When the ABS is fail, the urgent brake may locking of the wheels. Before riding the vehicle that make sure the ABS works normally to have the protection role.
Under certain circumstances, ABS may lead to the braking distance increased. Adjust the braking method according to the riding situations and road conditions.

Parking

Release the throttle and use the brakes to stop the vehicle.

Turn off the engine (see the Flameout Method for details).

⚠CAUTION
When only turning off the engine without powering off the vehicle, the vehicle will remain powered on, and the power supply to most electrical devices will not be interrupted, causing the battery to discharge. Be sure to power off the vehicle before leaving.

Park the vehicle on firm, level ground.

Get off the vehicle and lower the side stand.

Turn the handlebar to the left.

Power off the vehicle and lock the stem lock (see the Vehicle Power-off and Electronic Stem Lock section for details).

NOTE:

When parking the vehicle with the main stand, turn the handlebar left to the maximum, stand at the left side of the vehicle, and hold the left handlebar and rear left armrest.

Step on the auxiliary pedal on the left side of the main stand with your right foot, pull upward and backward with your hands, and press downward with your foot to support the vehicle.

⚠WARNING
When the engine is running, do not leave the vehicle unattended.
Secure the vehicle against use by unauthorized people.
Lock the steering when leaving the vehicle unattended.
After using the vehicle, the temperature of some parts will be very high. Do not touch parts such as the exhaust system, cooling system, engine, or brake system.
Do not park the vehicle near materials that are highly flammable or explosive. Hot parts may ignite these materials.
Improper parking may cause the vehicle to slip and roll over, which will lead to severe damages.

SAFETY OPERATION

Safe Riding Tips

The following items are applicable for daily motorcycle use and should be carefully observed for safe and effective vehicle operation:

For safety, goggles and a helmet are strongly recommended. You must be aware of traffic regulations for the safe riding. Safe riding gear such as gloves and suitable footwear should also be used for protection.

Wear protective apparel when riding in case of any collision with other vehicles. Without protective apparel, no safety can be ensured. Before changing lanes, look over your shoulder to make sure the way is safe. Do not rely solely on the rear-view mirrors. You must judge distance and speed of other cycles, or accidents may occur.

When climbing up steep slopes, shift to a lower gear to increase the motor's torque output, thus avoiding overloading.

When applying the brakes, apply both the front and rear brakes at the same time. Applying only one brake for sudden braking may cause the vehicle to skid and lose control.

When going down long downhill slopes, control vehicle speed by releasing the throttle. Use the front and rear brakes for auxiliary braking.

In wet conditions, rely more on the throttle to control vehicle speed and less on the front and rear brakes. The throttle should also be used judiciously to avoid skidding the rear wheel during rapid acceleration or deceleration.

Riding at the proper speed and avoiding unnecessary acceleration are important not only for safety and low fuel consumption, but also for longer vehicle life and quieter operation.

When riding in wet conditions or on loose roadway surfaces, vehicle performance will be reduced. All of your actions should be smooth and flexible under these conditions. Sudden acceleration, braking or turning may cause loss of control.

Practice your operating skills cautiously and slowly in an open area and hold the fuel tank with the knees for better stability.

When there is a quick acceleration, shift to a lower gear to obtain the necessary power.

Do not downshift at high RPM to avoid damage to the engine.

Avoid unnecessary use of fabric tape which may entangle the rider or motorcycle.

Additional Cautions for High Speed Operation

Brakes: Braking is very important, especially during high speed riding and the braking force cannot be too large. Inspect and adjust the brakes to get better performance.

Handling: Looseness of the handling parts may cause loss of control. Inspect the steering to see whether it can turn freely without shaking.

Tires: High speed operation requires the tires to be in good condition. Good-condition tires are crucial for safe riding. Inspect all the tires' pressure and ensure stable moving.

Fuel: Ensure that there is enough fuel and a smooth supply of fuel for high speed operation.

Oil: To avoid engine failures which could result in loss of control, make sure the oil level is maintained between the upper and lower level lines.

Coolant: To avoid overheating, check and make sure that the coolant level is between the two level lines.

Electrical Equipment: Make sure that the headlights, tail/brake light, turn signals, horn and etc. work properly.

Fasteners: Make sure that all nuts and bolts are tight and that all safety-related parts are in good condition.

⚠DANGER
Do not speed on expressways. Obey the relevant laws and regulations. Motorcycles may be banned on expressways in some places unless they are approved by traffic authorities and operators have the appropriate skills and protection.

MAINTENANCE

Careful and periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment, and lubrication of important components are explained in the Periodic Maintenance Chart.

Inspect, clean, lubricate, adjust, and replace parts as necessary. When inspection reveals the need for replacement of certain parts, always use original parts from your dealer.

⚠NOTE
Periodic maintenance and adjustments are critical. If you are unfamiliar with maintenance procedures, have a qualified dealer do that for you.

Pay special attention to the oil level during cold weather operation. A rise in oil level can indicate that there are contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, stop using the vehicle and inspect for reasons or see your dealer.

Improper Use

CFMOTO defines improper use of the vehicle as:

- Riding in the extreme environment (such as dust, mud, salty water places).
- Riding in the extreme climate (such as high temperature, low temperature, high moisture places).
- Racing or race-style use of high RPM.
- Running at low speed for a long time, and carry heavy load.
- Idle the engine for a long time.
- Short-distance operation in a cold weather.

- For commercial use.
- Start and stop the vehicle frequently.
- Riding on the uneven or bumping road.

If this vehicle is used in a way that matches any of these definitions, decrease the maintenance intervals by 50%.

Key Points of Lubrication Schedule

Check all components at the intervals outlined in the Periodic Maintenance Chart. Items not listed in the schedule should be lubricated at the general lubrication interval.

- Change lubricants more often under severe conditions, such as being used in wet or dusty conditions.
- Lubricate before long periods of storage, after pressure washing, or after submerging drive system.

Item	Specifications	Method
Engine oil	SAE 10W-40 SJ and higher JASO MA2	Check the oil level using the engine oil dipstick.
Brake fluid	DOT3 or DOT4	Keep the level between upper and lower lines.

Break-in Periodic Maintenance Chart

Item		Break-In Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Engine					
■	Oil	-	600	1000	Replace.
■	Transmission gear oil	-	600	1000	Replace.
■	Coarse oil filter	-	600	1000	Clean.
	Idle	-	600	1000	Inspect.
■	Coolant	-	600	1000	
■	Throttle System	-	600	1000	
Electrical system					
■	Functions of electrical parts	-	600	1000	Inspect.
	Battery	-	600	1000	
	Fuses or circuit breakers	-	600	1000	
Brake					
	Brake discs	-	600	1000	Inspect.
	Brake pads	-	600	1000	
	Brake fluid level	-	600	1000	
■	Brake hoses	-	600	1000	Inspect for damage and sealing.
	Front and rear brake levers	-	600	1000	Inspect free play.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Break-In Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Wheels					
	Tire condition	-	600	1000	Inspect.
	Tire pressure	-	600	1000	
Suspension					
■	Rear and front shock absorbers	-	600	1000	Inspect for oil leakage (maintain front forks and the rear shock absorber according to the requirement and purpose).
Cooling system					
	Coolant level	-	600	1000	Inspect.
■	Coolant	-	600	1000	
■	Radiator fan function	-	600	1000	
	Coolant hoses	-	600	1000	
Steering system					
■	Steering bearings	-	600	1000	Inspect.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Break-In Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Other parts					
■	Fault control memory	-	600	1000	Read with DSCAN.
■	Movable parts	-	600	1000	Lubricate, and inspect their flexibility.
■	Bolts and nuts	-	600	1000	Inspect their firmness.
■	Cables	-	600	1000	Inspect them for damage, bending and inspect their setting.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Periodic Maintenance Chart

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Engine					
■	Oil	3M	1800	3000	Replace.
■	Transmission gear oil	3M	1800	3000	Replace.
■	Coarse oil filter	3M	1800	3000	Clean.
■	Clutch shoe	12M	7200	12000	Inspect and repair or replace if necessary.
	Idle	-	3600	6000	Inspect.
■	Coolant	-	3600	6000	Observe the color and state of the coolant in the reservoir, and replace if necessary.
		24M	21000	35000	Replace.
	Throttle	-	3600	6000	Inspect and adjust if necessary.
■	Throttle body	-	3600	6000	Clean.
▲■	Air filter elements	18M	5400	9000	Replace (after improper use, inspect promptly and replace if necessary).
		36M	10800	18000	
■	Spark plug	-	3600	6000	Inspect and replace if necessary.
		-	11000	18000	Replace.
■	Valve clearance	-	1800	3000	Inspect and adjust if necessary.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Electrical system					
■	Functions of electrical parts	6M	3600	6000	Inspect and repair or replace if necessary.
	Battery	6M	3600	6000	Inspect and recharge if necessary.
	Fuses or circuit breakers	6M	3600	6000	Inspect and replace if necessary.
■	Cables	6M	3600	6000	Inspect for any damage and bending when they are being set.
Wheels					
	Tire condition	6M	3600	6000	Inspect and repair or replace if necessary.
	Tire pressure	6M	3600	6000	Inspect and replenish if necessary.
■	Wheel bearings	-	3600	6000	Inspect and repair or replace if necessary.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Brake					
	Front and rear braking systems	6M	3600	6000	Inspect and repair or replace if necessary.
	Brake discs	6M	3600	6000	
▲	Brake pads	6M	3600	6000	
	Brake fluid level	6M	3600	6000	Inspect and replenish if necessary.
■	Brake hoses	6M	3600	6000	Inspect them to see whether they are damaged and sealed.
	Front and rear brake levers	6M	3600	6000	Inspect free play.
■	Brake fluid	24M	-	-	Replace.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Suspension					
■	Suspension system	-	3600	6000	Inspect and repair or replace if necessary.
■	Front and rear shock absorbers	6M	3600	6000	Inspect for oil leakage (maintain front forks and rear shock absorber according to the requirement and purpose).
Vehicle body					
	Frame	-	18000	30000	Inspect and repair or replace if necessary.
Steering system					
■	Steering bearings	12M	7200	12000	Inspect and repair or replace if necessary.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Cooling system					
	Coolant level	6M	3600	6000	Inspect and replenish if necessary.
■	Radiator fan function	12M	7200	12000	Inspect and repair or replace if necessary.
■	Cooling hoses	12M	7200	12000	
Transmission					
■	Drive belt	12M	7200	12000	Inspect and replace if necessary.
		-	14000	24000	Replace.
▲	Weight roller set (pulley)	12M	7200	12000	Inspect and replace if necessary.
▲	Drive pulley	12M	7200	12000	Inspect and replace if necessary.
■	Driven pulley	12M	7200	12000	Inspect and replace if necessary.

▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Other parts					
■	Fault control memory	6M	3600	6000	Read with DSCAN.
■	Movable parts	6M	3600	6000	Lubricate and inspect their flexibility.
■	Bolts and nuts	12M	7200	12000	Inspect their firmness.
■	Cables	6M	3600	6000	Inspect them for damage, bending and their setting.
■	Pipes, ducts, hoses and sleeves	12M	7200	12000	Inspect them to see whether they have cracks, are sealed and set corrected.
■	Exhaust pipe sealed gasket	6M	3600	6000	Inspect the exhaust connecting part to see whether there is leakage, inspect the gasket for damage, and replace it if necessary. After disassembling the muffler, replace the old gasket with a new one.

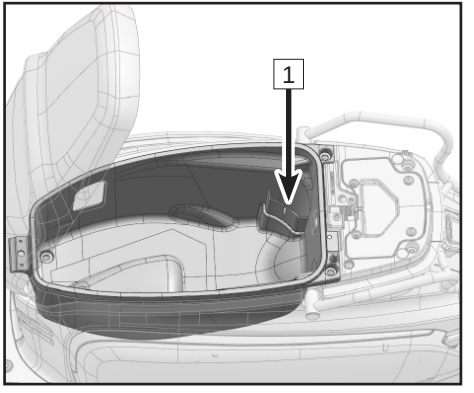
▲ = The maintenance interval is shortened by 50% if the motorcycle is used badly.

■ = Have an authorized dealer repair involved components and systems.

TOOL KIT

The tool kit can be placed in the storage box 1 under the seat (which is visible when opening the seat). It can help maintain and disassemble some parts of the vehicle.

NOTE: The accessory box is equipped with a tool kit in the factory, which includes simple and basic maintenance tools.



FUEL SYSTEM

Fuel Tank Refilling

Avoid spilling fuel to the outside of the fuel tank when filling. If a spill occurs, wipe it off immediately to avoid pollution or causing danger.

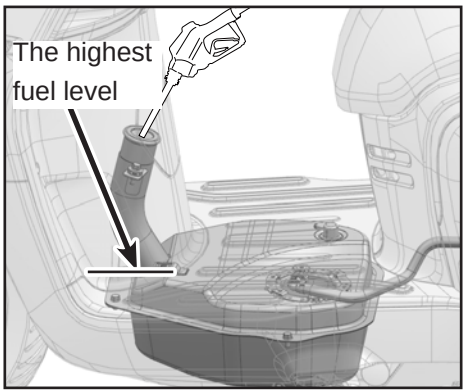
Fuel tank volume: 2.1 gal (8 L)

⚠DANGER
Gasoline is flammable, so fuel should be filled in a ventilated area. Before refueling, turn off the engine and wait for the engine and muffler to cool. No smoking or any acts that cause sparks are allowed in the fuel filling area or fuel storage area.
Never fill the tank excessively. Avoid the fuel from overflowing onto high-temperature parts. The fuel level should not exceed the tank opening. As the temperature rises, fuel can heat and expand, and then may spill over and damage vehicle parts.
Fuel is toxic and harmful to health. Avoid touching the skin, eyes and clothes. Do not inhale fuel vapor.
If the fuel touches the skin, wash the skin with plenty of clean water.
If the fuel touches the eyes, wash eyes immediately with clean water and see a doctor immediately.
If the fuel touches the clothes, change the clothes immediately.
If the fuel is swallowed by mistake, see a doctor immediately.
After maintenance or disassembling parts of the fuel system, please contact your dealer for complete inspection to avoid fuel leaks or other dangers.
Dispose of fuel properly to avoid damage to the environment.

Refueling

When filling fuel, please inform the gas station staff to adjust the fuel nozzle to a small flow state to refuel the fuel tank. Please do not fill the fuel quantity beyond the limit bar to prevent fuel overflow.

⚠WARNING
Gasoline is volatile and expansive. If refueling in a large flow state, a large amount of fuel will spill out of the fuel tank quickly, causing environmental pollution and possibly causing safety accidents. If overfilling, it may damage the fuel tank and cause fuel leakage, causing major safety accidents.



Fuel Requirements

The recommended fuel for your vehicle is E5 or 92(RON). Non-oxygenated (ethanol-free) fuel is recommended for best performance in all conditions.

⚠CAUTION
Do not use leaded gasoline, as it will destroy the catalytic converter. (For further understanding, please consult related materials about the catalytic converter) Be sure to use fresh gasoline. Gasoline oxidation will result in loss of octane and volatile compounds. It also produces colloidal and lacquer deposits which could damage the fuel system.

Octane Rating (RON)

'RON' is a technical term commonly used to describe the octane rating of gasoline. The higher the number RON, the greater the resistance to knocking and detonation. Always use unleaded gasoline with an octane rating equal to 92 or higher.

⚠CAUTION
If the engine has a knocking cylinder or detonation, use a unleaded gasoline of higher quality or higher RON.

ENGINE ASSEMBLY

For the engine, transmission, clutch and other parts to work properly, make sure that the engine oil level is between the upper and lower limit lines, and check and replace the oil according to the Periodic Maintenance Chart. Extended use of engine oil will not only produce dirt and metallic impurities, but the oil will also consume itself.

⚠DANGER
Riding the motorcycle with insufficient, deteriorated or highly contaminated oil will cause accelerated wear and may result in engine or transmission's damage, which could cause an accident and/or personal injury.

Oil Level Inspection

Support the vehicle on level ground with a main stand.

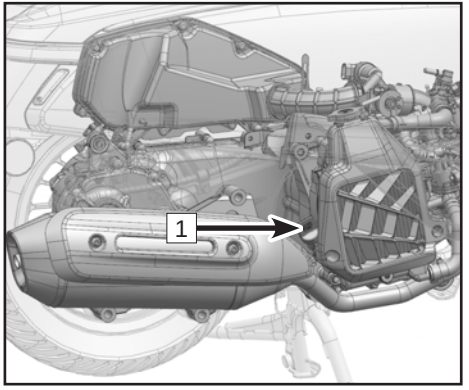
Idle the engine for several minutes. Then turn off the engine.

Wait a few minutes to allow the oil to settle before inspection.

Keep the vehicle upright, or support the vehicle with the main stand to achieve vertical alignment with the ground surface, and then remove the dipstick 1.

Wipe the dipstick clean and reinsert it into the oil injection hole.

Remove the dipstick and observe the oil level.

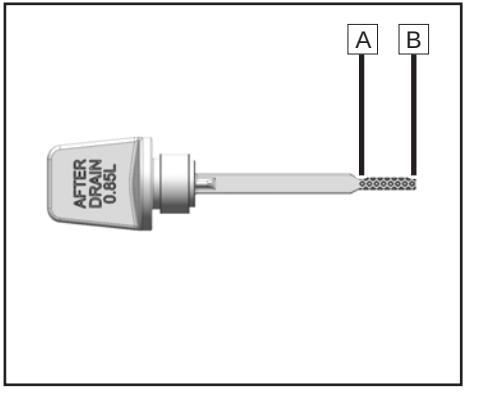


Inspect the oil level to see whether it is between the upper limit line A and the lower limit line B.

If the oil level exceeds upper limit line A, drain out the oil until it is between the upper limit line A and the lower limit line B.

If the oil level is between the upper limit line A and the lower limit line B, it is at the proper level.

If the oil level is lower than the lower limit line B or the oil dipstick is almost dry, replenish the engine with the same brand of oil until the level is between the upper limit line A and the lower limit line B.



Oil and Oil Filter Replacement

Support the vehicle on level ground with the main stand.
Idle the engine for several minutes. Then turn off the engine.

⚠WARNING
Warming up the engine for a long period may lead to high temperature of the engine and oil. Please wear suitable protective clothing and gloves when changing oil. In the event of scalding, wash the scaled area immediately with running water for more than 10 minutes until feeling no pain and see a doctor.

Place an oil basin under the oil drain position (left side of the engine).

Remove the magnetic oil drain bolt and washer 1.

Remove the coarse oil filter cover and O-ring assy 2.

Remove the spring 3.

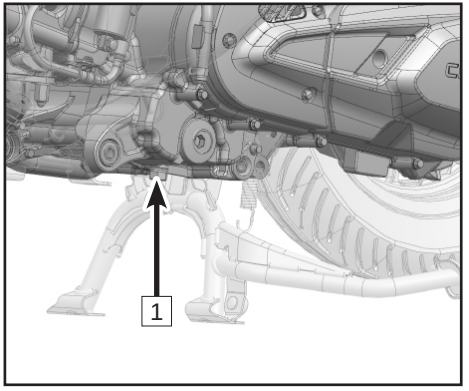
Remove the coarse oil filter 4.

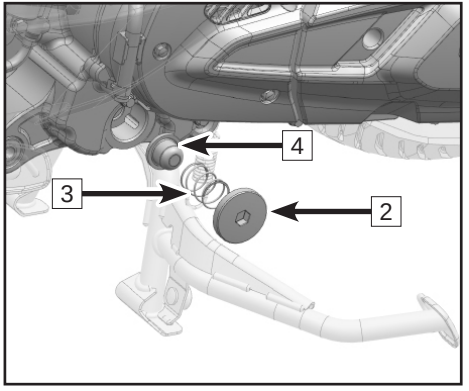
Drain out completely the used oil.

⚠WARNING
Oil is a toxic substance, so the used oil should be disposed of properly.

Clean the magnetic oil drain bolt and the area around the oil drain hole.

Clean the coarse oil filter cover and O-ring assy 2, as well as the coarse oil filter 4.





Install the coarse oil filter 4.

Install the spring 3.

Install the coarse oil filter cover and O-ring assy 2, and tighten to the specified torque.

⚠WARNING
Check the O-ring to ensure it is not twisted, deformed, or damaged. If damaged, replace it with a new one and apply oil to the O-ring.

After replacing the new washer, reinstall the magnetic oil drain bolt and washer 1, and tighten to the specified torque.

Coarse Oil Filter Cover Torque: 18.4 ft-lb (25 N•m)

Magnetic Oil Drain Bolt Torque: 25.8 ft-lb (35 N•m)

Remove the dipstick 5.

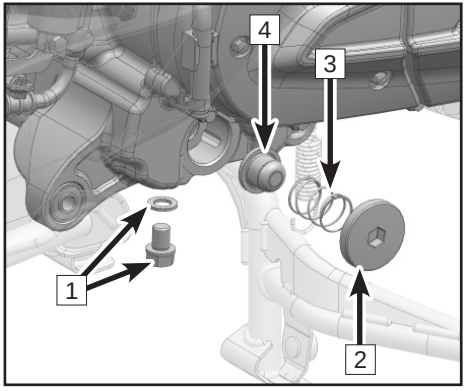
Fill with 0.95 qt (0.9 L) oil of SAE10W-40 SJ and above JASO MA2.

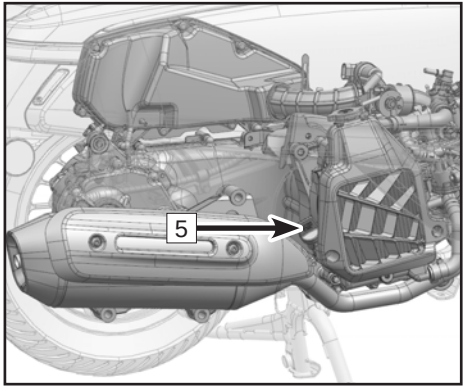
Remount the dipstick 5.

Idle the engine for several minutes to fully lubricate the engine interior.

Turn off the engine.

Inspect the oil level and adjust it as necessary until the required level is reached.





⚠CAUTION
Inadequate oil or low-quality oil will lead to premature engine wear.
To ensure the optimum performance of oil, do not mix different kinds of oil.
Replace oil as necessary.

Transmission Oil Replacement

Support the vehicle on a level ground with a main stand.

Place an oil basin under the oil drain.

Remove the oil drain bolt and washer 1.

Remove the gearbox dipstick and O-ring assy 2.

Drain out completely the used oil.

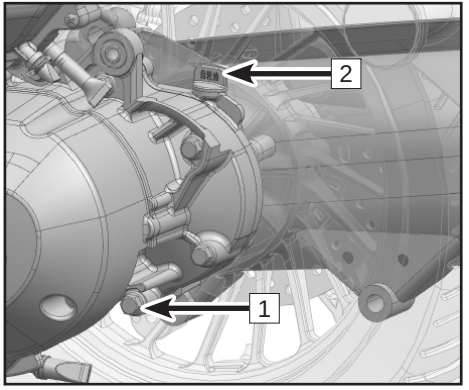
⚠WARNING
Oil is a toxic substance, so the used oil should be disposed of properly.

Clean the magnetic oil drain bolt and the area around the oil drain hole.

Remount the oil drain bolt and washer 1 after replacing the new washer.

Oil Drain Bolt Torque: 19.9 ft-lb (27 N•m)

Fill with 0.13 qt (0.12L) SAE10W-40 SJ and higher JASO MA2.



⚠CAUTION
Inadequate oil or low-quality oil will lead to premature engine wear. To ensure the optimum performance of oil, do not mix different kinds of oil. Replace oil as necessary.

Tighten the gearbox dipstick and O-ring assy 2.

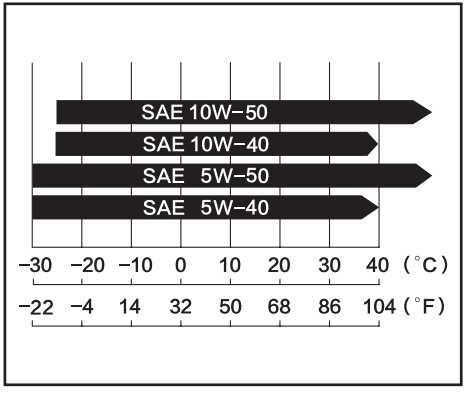
⚠WARNING
Check the O-ring to ensure it is not twisted, deformed, or damaged. If damaged, please replace it with a new O-ring.

Engine Oil / Transmission Oil Capacity

Replace oil and clean the coarse oil filter: 30.44 oz (0.9 L)

Replace transmission oil: 4.06 oz (0.12 L)

CFMOTO recommends oil with API “SJ” or higher. JASO MA2 is the primary choice, and JASO MA is an acceptable alternative. Although 10W-40 oil is the recommended oil for most conditions, the oil viscosity may need to be changed to accommodate atmospheric conditions in your riding area. Please choose oil viscosity according to the right chart.



Spark plug

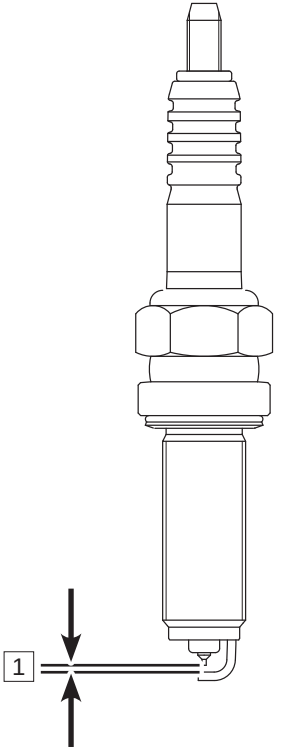
The spark plug should be replaced in accordance with the Periodic Maintenance Chart.

Its disassembly should only be performed by an authorized dealer.

Spark plug type: BN8RTI

Spark plug clearance [1]: 0.03 in ~ 0.04 in (0.8 mm ~ 1 mm)

Torque: 8.8 ft-lb ~ 11.1 ft-lb (12 N•m~15 N•m)



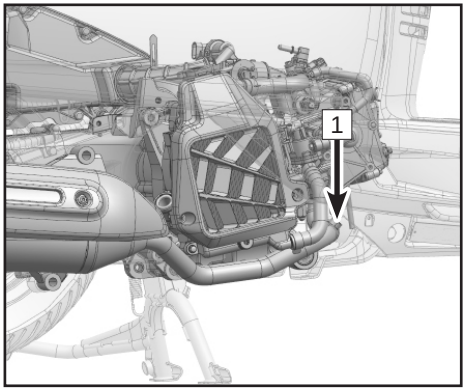
Idling

The idling speed of this vehicle has been adjusted at the factory and cannot be adjusted by users, otherwise its performance will be affected. When parts affecting idling speed need to be replaced, contact your dealer for replacement and recalibrate the ECU with DSCAN.

⚠DANGER
Improper adjustment of idling may cause serious consequences.

AIR INTAKE AND EXHAUST SYSTEM

Exhaust Detecting System



Exhaust detecting system depends on oxygen sensor 1 mounted on exhaust pipes, and it can detect the air & fuel combustion degree by measuring oxygen density and transferring it as an electrical signal to the ECU. If the ECU determines that combustion is not thorough, it will adjust fuel injection in accordance with signals from the Throttle Position Sensor and Intake Air Temperature sensors. By this way, the ratio of air to fuel can be optimized for thorough combustion.

Air Intake / Exhaust Valve

An air intake valve is a valve which inhaling the fresh air into the engine to mix with the fuel for combustion. To provide the engine with the necessary oxygen and fuel, to finish the combustion process. Have a dealer inspect the air intake valves in accordance with the Periodic Maintenance Chart. Also, have the air intake valves inspected whenever stable idling cannot be performed stably, engine power is greatly reduced, or there are abnormal engine noises.

An exhaust valve is a valve that expels the waste gas from the combustion to help dissipate heat and to prevent the engine from overheating. Have a dealer inspect the exhaust valve in accordance with the Periodic Maintenance Chart. Inspect the exhaust valve if the acceleration is powerless, slightly backfires when sharply applying the throttle, there is abnormal noise from exhaust pipe noise, or the vehicle is failure to start.

Air intake/exhaust valve removal and inspection should only be performed by an authorized CFMOTO dealer.

Valve Clearance

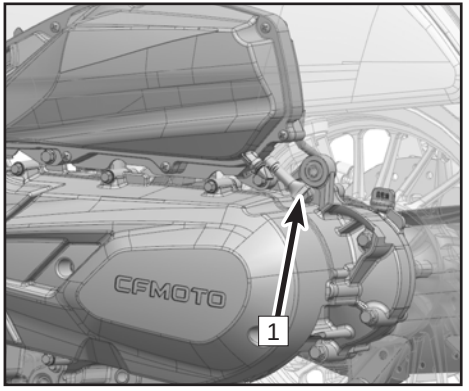
The valves and valve adjusting bolt will wear during operation, thus the need for adjustment after being used for a period of time.

⚠WARNING
When valves and valve seat are wore during use, and if adjustment of the valve clearance is not performed, it will eventually result in no clearance or cause the valves remaining partly open, which reduces performance, creates valve noise, and can cause serious engine damage. Valve clearance for each valve should be inspected and adjusted in accordance with the Periodic Maintenance Chart. Inspection and adjustment should be performed by a CFMOTO dealer.

Air Filter

A clogged air filter restricts air flow, increases fuel consumption, reduces engine power, and causes spark plug fouling. The air filter element must be replaced in accordance with the periodic Maintenance Chart. When riding in dusty, rainy, or muddy conditions, the air filter element should be maintained by an authorized dealer more frequently than the recommended in the periodic Maintenance Chart.

The air filter storage hose [1] is set below the back of the air filter. If the air filter housing has oil or water residue inside, it should be drained manually.



⚠CAUTION
Oil on tires and plastic or other parts will cause damage. If engine intakes with the unfiltered air, will have a negative effect on the service life of the engine. Never start to use the vehicle without an air filter.

Throttle Body

The stop screws on the throttle body have been set precisely and can not be adjusted. Inspect the vehicle to see whether its idling is stable, and if the idling is not stable, please ask CFMOTO to assign professional technicians to deal with this problem.

COOLING SYSTEM

Radiator and Cooling Fan

Inspect the radiator fins for deformation and obstruction by mud, and clean off any obstruction with clean water.

⚠WARNING
When the fan is working, prevent your hands and clothing from getting inside the fan to avoid any injury.
Using high-pressure water to clean the vehicle could damage the radiator fins and reduce the radiator's effectiveness.
Mounting unauthorized accessories in front of the radiator or behind the cooling fan may obstruct or change the radiator airflow, and can lead to overheating and damage.
If the radiator is obstructed more than 20% by irremovable obstructions or irreparable deformed fins, then replace it with a new radiator.

Radiator Hoses

Inspect the radiator hoses for leaks, cracks, aging, rust, corrosion and connections for leaks or looseness daily before riding the motorcycle. Inspect the vehicle in accordance with the Periodic Maintenance Chart.

Coolant

Coolant absorbs heat from the engine and transfers it to the air by the radiator. If the coolant level is too low, the engine will overheat and may suffer from severe damages. Inspect the coolant level daily before riding the motorcycle and perform maintenance in accordance with the Periodic Maintenance Chart. Follow the Periodic Maintenance Chart to replenish the coolant as if its level is too low.

To protect the cooling system (engine and radiator are made of aluminum) from rust and corrosion, the use of anti-corrosion and anti-rust chemicals in the coolant is essential. If the coolant has already these chemicals, there is no need to add them separately.

⚠DANGER
Coolant is toxic and harmful to health.
Do not allow the coolant to touch skin, eyes or clothing.
If coolant is swallowed, see a doctor immediately.
If coolant touches the skin, flush the skin with plenty of clean water immediately.
If coolant touches the eyes, flush the eyes with plenty of clean water and see a doctor immediately.
If coolant splashes on clothes, change the clothes and wash them immediately.
Any corrosion or rust remains from the engine and radiator should be disposed of by special instructions, because the chemicals inside are harmful to the human body.

⚠CAUTION
Do not add tap water to the coolant system, for it will cause deposit inside the cooling system. When the temperature is below 0°C, ice will occur and severely affect the coolant system and damage the engine. Available bottled antifreeze in the market contains anti-corrosion and anti-rust chemicals. When it is diluted, it loses its anti-corrosion and anti-rust function. Keep the diluted concentration of antifreeze the same as the instructions from the manufacturer. When replenishing the coolant which color is green and contains ethylene glycol. When the environment temperature is below -31˚F (-35˚C), please ensure the coolant has a freezing point below -31˚F (-35˚C).

CFMOTO coolant is an Organic Acid Technology (OAT) formula. When replenishing or replacing coolant, verify the label states ‘compatible with one or more of the following formulas: OAT or Si-OAT, G30, G40, G12++’

Coolant Inspection

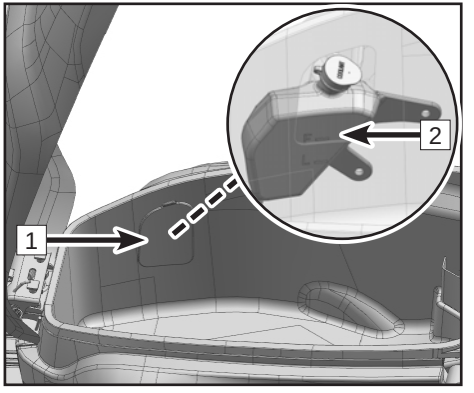
Stand the vehicle upright on a level surface or use the main stand to make it vertically.

Open the seat, remove the reservoir cover [1], and check the coolant level in the reservoir [2].

If the level exceeds area 'F': Drain out the redundant coolant until it is between areas 'F' and 'L'.

If the level is between areas 'F' and 'L': The coolant is at the proper level.

If the level is at area 'F' or cannot be seen: Replenish it with the same coolant until the level is between area 'F' and 'L'.



⚠WARNING
When the vehicle is running, the coolant will have a very high temperature and stay in a state of compression. Before the engine or cooling system has cooled down completely, do not open the radiator, radiator hoses, reservoir cover or other cooling-related parts. In the event of scalding, wash the scaled area immediately with running water for more than 10 minutes until the pain can not be felt and see a doctor.

Coolant Replenishment

Open the reservoir cover and replenish coolant to the area between 'F' and 'L'.

⚠CAUTION
If coolant needs to be replenished frequently, or the reservoir is completely dry, there is probably a leak in the system. Have the cooling system inspected by an authorized dealer.

Only recommend the original CFMOTO coolant. Contact your dealer for replacing coolant. Mixing different coolants may lead to engine damage.

TIRES

This vehicle only uses tubeless tires, rims and inflating valves. Only use the recommended standard tires, rims and inflating valves. Do not mount inner tube tires on tubeless rims. Improper mounting of tires may cause air leakage. Do not mount an inner tube inside a tubeless tire.

Tire Specifications

Tire specifications	Front wheel	110/70-12 47L
	Rear wheel	120/70-12 51L
Tire pressure	Front wheel	200 kPa
	Rear wheel	200 kPa
Minimum tread depth	Front wheel	0.03 in ~ 0.04 in (0.8 mm ~ 1 mm)
	Rear wheel	0.03 in ~ 0.04 in (0.8 mm ~ 1 mm)

Improper tire pressure or exceeding the tire load limit may affect the vehicle handling and performance, causing a loss of control.

Make periodic inspections on the tire pressure by a tire pressure gauge and adjust tire pressure accordingly.

Too-low tire pressure may cause the tire improper wear or overheating.

Proper tire pressure offers the best comfort and the longest service life.

NOTE:

Inspect the tire pressure when the tires are cold.

Tire pressure is affected by the change of environment temperature and altitude. If the environment temperature and altitude have a big change during riding, tire pressure should be adjusted and inspected accordingly.

Most countries have their own regulations of minimum tread depth. Please follow local regulations. When mounting new rims or tires, always inspect the wheel balance of the tires.

⚠CAUTION
In order to ensure safe and stable operation, please only use the tire and pressure recommended. If the tire is punctured and repaired, please do not ride the vehicle at over 30 mph (50 km/h) until 24 hours after, and the speed cannot exceed 30 mph (50 km/h) at any other time.
The front and rear wheel should come from same manufacture and with the same tread pattern.
New tires can be slippery and may cause a loss of control and injury. Please ride the vehicle in proper ways and use different tilt angles to have the tires create friction with the ground over the entire surface. Normal friction surface will be formed after a break-in period of 60 miles (100 km). Avoid sudden braking, heavy acceleration, and high-speed sharp turns during the break-in period.

Tire Friction

When tire tread wears too severely and the tire cannot be used, the tire becomes more susceptible to punctures and failures. An accepted estimate is that 90% of all tire failures occur during the last 10% of tire service life, so it is unsafe to continue to use bald tires.

In accordance with the Periodic Maintenance Chart, measure the depth of the tread with a depth gauge, and replace any tire that has been worn down to the minimum allowable tread depth.

Visually inspect the tire tread for cracks and cuts, and replace it with a new tire if it is severely damaged. For example, if partial expansion appears on the tire, it means the tire is broken.

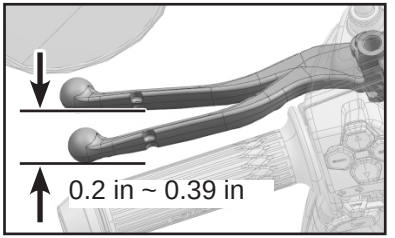
Remove any embedded stones or other foreign particles form the tread.

⚠ CAUTION
When the environment temperature is below 32°F (0°C), it is recommended to place the vehicle indoors if required to be stored for a long time.
Do not use side stand to park the vehicle for long time in winter. Use the frame to park the vehicle, to let the tires be free of the wheel weight.
Do not allow the tires to sink into snow or ice for a long time when parking the vehicle in winter.
When parking the vehicle for a long time outside in winter, it is recommended to put objects that can preserve the heat such as branches, paper or sand under the tires.

BRAKE SYSTEM

In order to guarantee excellent performance of your vehicle and personal safety, please inspect and maintain the vehicle according to the Periodic Maintenance Chart. Make sure all the parts of the brake system are in a good state. If any damage occurs to the brake system, please stop riding and have your vehicle inspected and maintained by an authorized dealer.

Rear Brake Lever Inspection



Park the vehicle with the side stand on level ground.

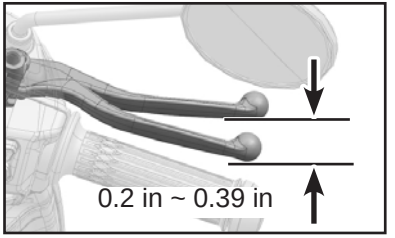
Lightly grip the rear brake lever and inspect its free play.

Free play: 0.2 in ~ 0.39 in (5 mm ~ 10 mm)

Inspect the rear brake lever for any cracks or abnormal noise.

If these problems occur, replace the rear lever with a new one.

Front Brake Lever Inspection



Park the vehicle with the side stand on level ground.

Grip lightly the front brake lever and inspect its free play.

Free play: 0.2 in ~ 0.39 in (5 mm ~ 10 mm)

Inspect the front brake lever for any cracks or abnormal noise.

If these problems occur, replace the front lever with a new one.

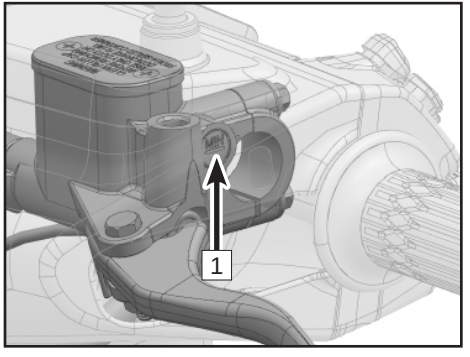
⚠WARNING
If the brake levers feel soft during operation, there may be air or a lack of fluid in the brake hoses. In this dangerous situation, it is forbidden to drive the vehicle. Have the brake system inspected immediately by an authorized CFMOTO dealer.

Brake Fluid Level Inspection

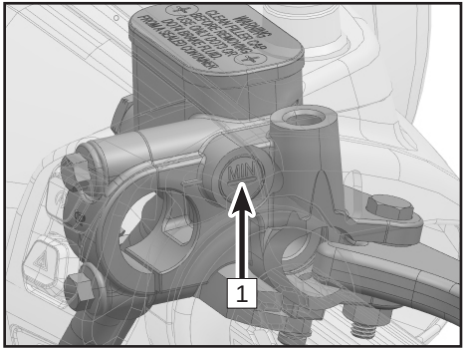
On a level surface, support the vehicle upright or use the main stand to keep the fluid reservoir vertical to the ground.

Check whether the fluid level in the front and rear brake fluid reservoirs is level and above the MIN mark.

⚠WARNING
If the fluid level in any fluid reservoir drops below the MIN mark, or if the brake lever play exceeds specifications, the brake pad wear value must be inspected. If brake pad wear is within normal range, there may be a brake fluid leak. Immediately contact an authorized dealer for inspection and repair.



Rear brake fluid reservoir



Front brake fluid reservoir

Brake Fluid Replenishment

⚠WARNING
Brake fluid can irritate the skin. Keep brake fluid out of the reach of children. Keep brake fluid away from skin, eyes, or clothing. Wear protective clothing and goggles when operating the vehicle. If brake fluid is swallowed, see a doctor immediately. If brake fluid touches the skin, wash the skin with plenty of clean water. If brake fluid touches the eyes, wash eyes immediately with clean water and see a doctor immediately. If brake fluid spills onto your clothing, change the clothing and wash it immediately.

⚠WARNING
Brake fluid used for a long time will reduce braking efficiency. Please change the brake fluid according to the Periodic Maintenance Chart. Only use the same type DOT3 or DOT4 brake fluid as marked on the fluid reservoir. Mixing different brake fluids may cause brake system damage or failure, so it is recommended to always use the original CFMOTO brake fluid. If you cannot make sure the original brand, please contact your authorized CFMOTO dealer for brake fluid maintenance.

NOTE
When the brake fluid level goes down, it causes negative pressure inside the fluid reservoir, which may lead the reservoir gasket to sag. Remove the reservoir cap to release the pressure, adjust the reservoir gasket and then remount the gasket and cap.

Rear brake fluid reservoir

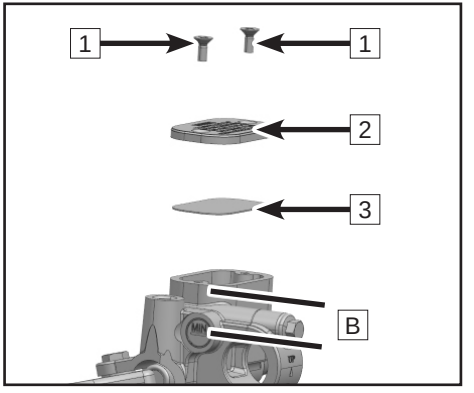
Remove the bolts [1].

Remove the reservoir cover [2] and the seal gasket [3].

Replenish brake fluid to area B.

Install the seal gasket [3] and the reservoir cover [2] in place.

Install the bolts [1].



Replenish the front brake fluid using the same method.

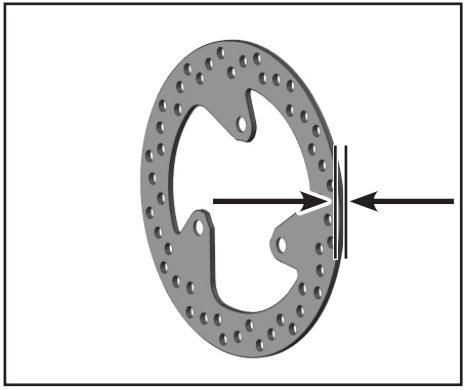
NOTE
Inspect for oil spills, if any, wipe them off.

Brake Disc Inspection

Inspect brake discs periodically for any damage, out of shape, cracks or wear. Damaged brake discs may cause braking failure. Worn-out brake discs will decrease braking performance. If brake discs are damaged or exceed the wear limit, contact an authorized dealer to replace them with new ones immediately.

Inspect the thickness of front and rear brake discs in several positions.

Front and rear brake discs wear limit: 0.14 in (3.5 mm)



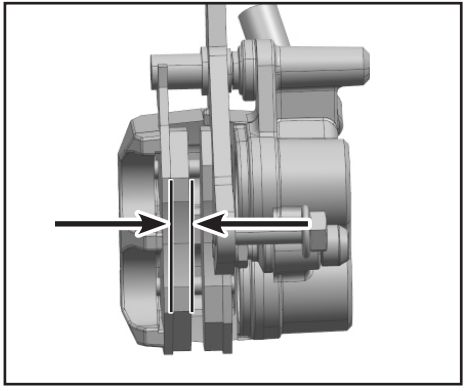
Brake Caliper Inspection

Inspect the brake calipers before riding. Inspect the minimum thickness of brake pads periodically. If the brake pads are too thin, their brackets will rub the brake discs, which will severely reduce the brake effect and damage the brake pads.

Inspect the minimum thickness of brake pads on all brake calipers.

Brake pad minimum thickness: 0.06 in (1.5 mm)

If the brake pad thickness is less than the minimum limit, or the brake pads are damaged, please contact an authorized dealer immediately to replace the pads in pairs.



Anti-lock Braking System (ABS)

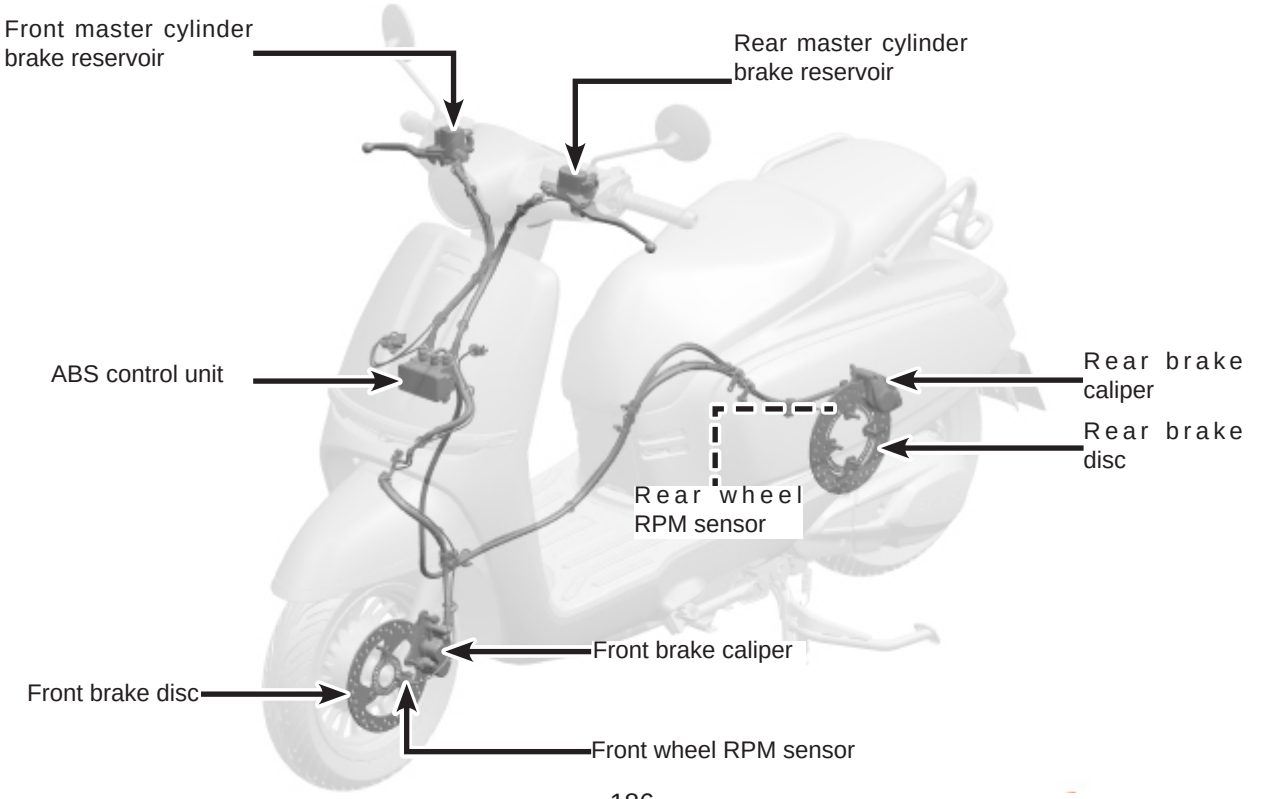
ABS is a safety system that prevents locking of the wheels when riding in a straight line or a curve without the influence of lateral forces.

With the assistance of ABS, when riding on gritty, water-logging, sliding or other low-adhesive force roads, the vehicle can use its full brake force and will face no risk of wheel locking.

⚠DANGER
Driving assistance can only prevent the vehicle from rolling over within the physical limits. In extreme driving conditions, such as high baggage loading center of gravity, changeable road conditions, steep slopes, and full-speed braking, motorcycle rollovers may occur.

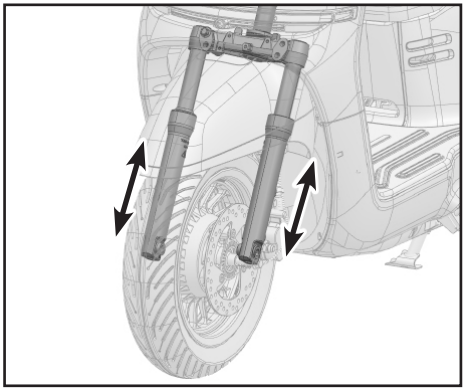
ABS works with two independent brake circuits (front and rear brakes). When the brake electronics control unit detects a locking tendency in a wheel, ABS begins to work by adjusting the brake pressure. The adjusting process can be felt through as a slight bouncing of the front or rear brake levers.

The ABS indicator will be on when the vehicle is powered on, and turn off when the vehicle speed exceeds 3 mph (5 km/h) after the vehicle starts. The ABS system has a fault if the ABS indicator is still on when the vehicle starts and its speed reaches above 3 mph (5 km/h) or lights up again during riding. If a fault occurs, ABS will not activate, and the wheels may lock during hard braking. The braking system still functions normally. Only the ABS system itself is deactivated.


Front master cylinder brake reservoir
Rear master cylinder brake reservoir
ABS control unit
Rear brake caliper
Rear brake disc
Rear wheel RPM sensor
Front brake caliper
Front brake disc
Front wheel RPM sensor

SHOCK ABSORBERS

Both the front and rear shock absorbers of the vehicle are oil shock absorbers, adjusted at the factory to the position best suited for most situations, with preload and damping both non-adjustable. The shock absorber absorbs road vibrations through the flow of its internal oil, providing a smooth riding experience while safeguarding both the vehicle and rider comfort.



Inspection and Maintenance of Shock Absorbers

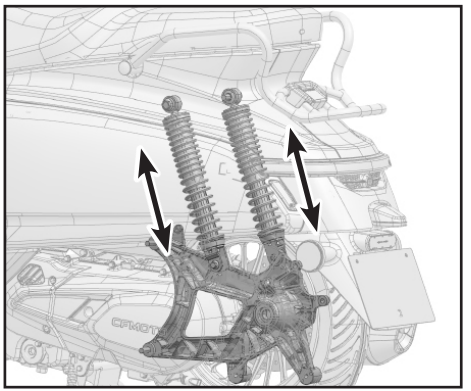
To ensure the normal operation and extend the lifespan of the shock absorbers, please regularly check their working condition.

Inspection Method:

Holding the handlebar and front brake, compress the front fork several times to inspect it to see whether its working is smooth.

Visually inspect the front shock absorbers for oil leaks and front fork for scratches or friction noise.

After riding, inspect the front fork to see whether it has mud, dirt or debris, and if so, clean them, or they will lead to oil seal damage and shock absorber oil leak.



Press down the seat several times to inspect it to see whether the rear shock absorber works smoothly.

Inspect the rear shock absorber for oil leaks.

If you have any doubt about the front or rear shock absorber performance, please contact an authorized CFMOTO dealer.

ELECTRICAL SYSTEM AND LIGHTS

Battery

The vehicle is equipped with a maintenance-free battery, so it is not necessary to check the battery electrolyte level or add distilled water. However, for optimal battery life, you must properly charge the battery to provide enough power to start the vehicle. When the motorcycle is used frequently, the battery charge is maintained by the motorcycle charging system. If the motorcycle is used only occasionally, or is used only for short rides, the battery can remain discharged. Batteries can also self-discharge from infrequent use. The rate of discharge varies by battery type and ambient temperature. When the ambient temperature rises, the discharge rate increases. For example, the rate of discharge could increase by a factor of 1 for every 15°C temperature rise.

In cold weather, if the battery is not charged properly, it can easily freeze the electrolyte, which may lead to battery cracking and metal electrode plates out of shape. Charging the battery can improve the freezing resistance.

⚠CAUTION
To avoid battery damage and power loss, do not idle the vehicle for more than 30 minutes. Otherwise the vehicle cannot be started.

Battery Sulphation

A common battery failure is sulfation. When the battery is short of power for a long time, electrolyte can be sulfated. Sulfation is an abnormal product produced by chemical reactions in the battery. If battery sulfation occurs, battery discharging can cause the battery plate permanent damage, and cause the battery to be impossible to be charged. When such a failure occurs, the battery must be replaced with a new one.

Battery Maintenance

Always keep the battery fully charged, or it may damage the battery.

If the vehicle is driven infrequently, inspect the battery voltage weekly with a voltmeter. If it drops below 12.8 volts, the battery should be charged (contact your dealer for inspection). If you will not use the vehicle for longer than 2 weeks, the battery must be charged with a charger. Do not use an automotive quick-charger, which may overheat the battery and damage it.

Clean the battery housing with a soft brush dipped in a mixture of baking soda and water.

Use a wire brush to remove corrosion on positive and negative lug plates and positive and negative anodes.

If the vehicle is not used for one month or longer, please remove the battery, and place it in a dry, cool place. Ensure that the battery is fully charged before mounting it in the vehicle.

The battery must be removed from the vehicle when it is being charged.

Battery Charger

Contact your dealer for proper battery charger specifications.

Battery Charging

Remove the battery from the vehicle.

Connect the charger cables, and ensure that the charging current is 1/10 A of the battery capacity. For example, if battery capacity is 10 Ah, the charging current should be 1 ampere.

Ensure that the battery is fully charged before reinstalling.

⚠WARNING
Do not remove the battery sealing strip, or the battery will be damaged. Do not mount an ordinary wet-cell battery in this vehicle, or the electrical system may not work properly. When removing the battery, firstly disassemble the negative electrode and then the positive electrode. During installation, the connection sequence of positive and negative is the opposite of that of disassembly.

NOTE:

When charging a maintenance-free battery, always follow the instructions in this manual.

Battery Removal

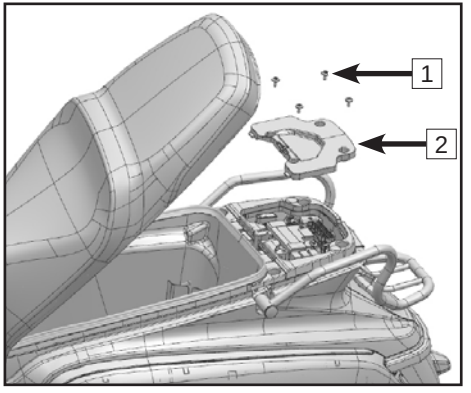
Place the vehicle on level ground and park it.

Completely turn off the engine and power supply of the vehicle.

Open the seat (see the seat lock for details to open).

Remove the four bolts 1.

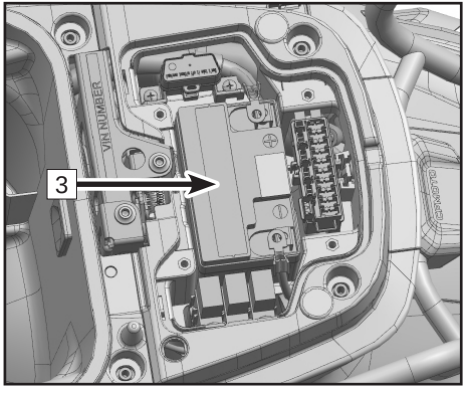
Remove the battery cover plate 2.



Remove the black negative wire (-).

Remove the red positive wire (+).

Remove the battery 3.



Battery Installation

Place the vehicle on level ground and park it.

Put in the battery.

Mount the red positive wire (+).

Mount the black negative wire (-).

Install the battery cover and fastening bolts.

Close the seat.

⚠WARNING
Avoid direct contact with the skin, eyes, and clothing. Always protect eyes when working near the battery. Keep the battery out of reach of children. Keep the battery away from sparks, open flames, cigarettes, or other ignition points. When using or charging batteries in a confined space, ventilate the area. Battery acid detoxification treatment: External: Rinse the touched area with clean water. Internal: See a doctor immediately. Eyes: Rinse the eyes with clean water for 15 minutes and see a doctor immediately.

⚠CAUTION
Improper disassembly and assembly of positive and negative wires may lead to a short circuit between the battery and the vehicle body.

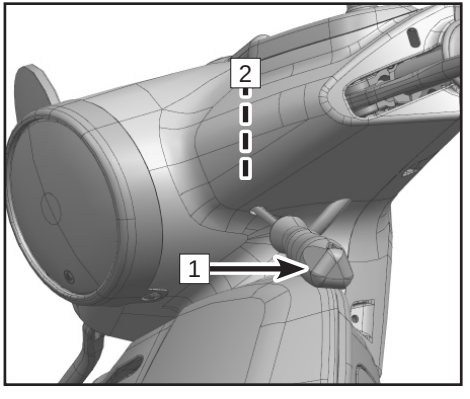
Lights

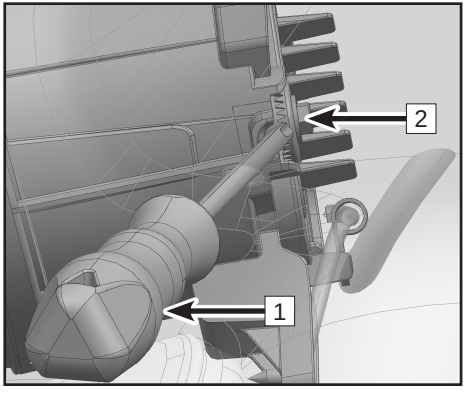
Headlight is adjustable. Rotate the light adjusting knob [2] with the screwdriver [1] to adjust light.

⚠CAUTION
Adjustment of high/low beams should be in accordance with local regulations. The standard is based on light emitted with the front and rear wheels on the ground and the rider sits in the vehicle.

All the lights are LED lights. Have your dealer replace the entire assembly if any LED is damaged or has failed.

⚠CAUTION
Do not leave the power turned on for a long time if engine will not be started. Leaving lights constantly on will use battery capacity and could cause the engine to fail to start.

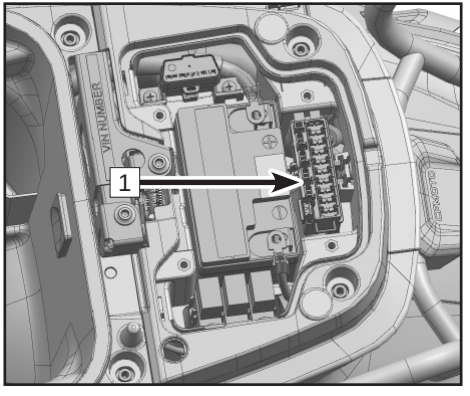




Fuses

Fuse box 1 is under the front seat. It is accessible after removing the battery cover plate (see the battery removal section for details). If a fuse is blown, inspect the electrical system for damage and replace the fuse with a new one.

⚠WARNING
Do not use any wire to substitute for the standard fuse. Replace a blown fuse with a new one of the same amperage. Ampere value is shown on fuse.



CATALYTIC CONVERTER

This vehicle is equipped with a catalytic converter in the exhaust system. Precious metals in the catalytic converter convert carbon monoxide, carbon oxides and nitrogen oxides in the exhaust gas into gases that are harmless to humans.

For proper operation of the catalytic converter, the following cautions must be followed:

Only use unleaded gasoline. Never use leaded gasoline, which significantly reduces the service life of the catalytic converter.

Do not let the vehicle skid when the ignition switch or the stop switch is off. Do not attempt to start the engine for a longer time when the battery is low in power. When the gear is not in Neutral, do not drag the vehicle or let the piston move. Under these improper conditions, extra unburned air/fuel mixture can flow into exhaust system, accelerating the reaction with the converter which will damage the heated engine, or reduce the converter performance when the engine is cooled off.

⚠CAUTION
Only use unleaded gasoline. Even only a little lead can damage the precious metals inside the catalytic converter, causing catalytic converter failure. Do not add anti-rust oil or engine oil into the muffler, which may result in catalytic converter failure.

EVAPORATIVE EMISSION CONTROL SYSTEM

(If Equipped)

This vehicle is equipped with an EVAP System. Please contact a CFMOTO dealer if the EVAP System has failed. Do not modify the System, or the System will not meet requirements for environmental regulations. After disassembly and repair, tube connections should be well connected without air leakage, blocking, and tubes should be without being squeezed, broken or damaged, etc. Fuel vapors from the fuel tank are drawn into a carbon tank through an absorption tube. The fuel vapors are absorbed by active carbon in carbon tank when the engine is stopped. When the engine is running, fuel vapors absorbed in the carbon tank will flow into the engine combustion chamber and get burned, avoiding environmental pollution by preventing fuel vapors being discharged directly into the air. Meanwhile, air pressure inside the fuel tank can be balanced by the absorption tube. If inner pressure of fuel tank is lower than the outside, it can be balanced through the ventage port of the carbon tank and absorption tube. In this context, all tubes should always remain clear without being blocked or squeezed, etc., and the anti-toppling valve should be mounted correctly, otherwise the fuel pump could be damaged, the fuel tank can also become deformed or broken or other parts may be damaged.

CLEANING AND STORAGE

General Precautions

Keeping your motorcycle clean and in the best performance will extend the vehicle service life. Protecting your motorcycle with a high quality, breathable motorcycle cover.

- Always clean the motorcycle after the engine and exhaust system have cooled.
- Avoid applying detergents on seals, brake pads, and tires.
- Clean the vehicle by hand.
- Avoid all chemicals, solvents, detergents, and household cleaning products like ammonium hydroxide.
- Gasoline, brake fluid, and coolant will damage painted surfaces. Wash them off with water immediately if splashed on any surface.
- Avoid metal brushes, steel wool, and all other abrasive pads or brushes to clean the vehicle.
- Be cautious when washing the windshield, headlight cover, and other plastic parts as they can be easily scratched.
- Avoid high water pressure, as it may penetrate seals and electrical components, resulting in vehicle damage.
- Avoid spraying water in waterproof areas, such as: air intakes, fuel system, electrical components, muffler outlets, and fuel tank lock.

Washing the Vehicle

- Rinse the vehicle with cold water to remove any loose dirt.
- Moderately mix a bucket of detergent (used for cleaning motorcycles or automobiles) with a bucket of clean water. Use a soft cloth or sponge to wash your vehicle. If necessary, mix a bucket of light degreaser to clean oil or grease stains.
- After washing, rinse your motorcycle with clean water to remove any residue (residue from the detergent can damage the components of your motorcycle).
- Dry off your motorcycle with a soft cloth and inspect it for any scratches.
- Start the engine and allow it to idle for several minutes. The heat from the engine will help dry off the vehicle in moist areas.
- Carefully ride the vehicle at a low speed and apply the brake for several times, which will help to dry the brakes and restores their normal operating performance.

⚠WARNING
If your vehicle is equipped with anodized components, please ensure that you only use water for cleaning. The anodizing process creates a dense oxide layer on the surface of these parts, which not only effectively prevents corrosion but also enhances their appearance. Using cleaners, abrasives, or chemical solvents for cleaning may damage this oxide layer, causing the components to lose their luster or suffer from corrosion. Therefore, it is recommended to clean these parts with water only and avoid using any products that may harm the oxide layer.

NOTE:

After driving on roads with high salt fog or near the sea, clean the vehicle with cold water immediately. Do not use warm water to wash your vehicle as it will accelerate the chemical reaction of the salt. After drying the vehicle, applying an anti-rust and anti-corrosion oil to all metal unpainted surfaces. In the case of riding

during a rainy day or just washing the motorcycle, spray may form on the inside of the headlight shade. If this happens, start the engine and turn on the headlight to remove the moisture.

Protecting the Surface

After washing your motorcycle, polish the painted metal and plastic surfaces with a specialized motorcycle/automobile wax. Wax should be applied every three months or as required, to avoid the surface from having satin lines or being lackluster. Always use non-abrasive wax and apply them according to the instructions.

Windshield (if Equipped) and Other Plastic Parts

After washing, use a soft cloth to gently dry off plastic parts. When the motorcycle is dry, use specified cleaning or glazing procedures for windshield glass, light shades and other uncoated plastic parts.

⚠CAUTION
If plastic parts come into contact with chemical reactive substances or household cleaning products can deteriorate and rupture, such as: Gasoline, brake fluid, window cleaning fluid, thread locker, or other chemicals. If a plastic part is exposed to any chemical substance, wash it off with water immediately, and then inspect for damage. Avoid using abrasive pads or brushes to clean surfaces of plastic parts, as they will damage their luster.

Chrome and Aluminum (if Equipped)

Chromium alloy and unpainted aluminum parts exposed to the air can oxidize, and thus will be lackluster. These parts should be cleaned with a detergent and polished with a lustering agent. Painted and unpainted aluminum wheels should be cleaned with specialized detergents.

Leather, Vinyl, and Rubber Products

If your motorcycle has leather accessories, use specialized detergents to clean them. Washing leather accessories with detergents and water will damage them and shorten their life.

Vinyl parts should be cleaned separately.

Tires and other rubber parts should be treated with a rubber protective agent to prolong their life.

⚠DANGER
Special care must be given to tires, and it should be noted that rubber-protective agents applied to tires will not affect their functions. If tires are not treated properly, it may decrease the adhesive force between the tire and ground, possibly causing a loss of control.

Preparation for Storage

Clean the entire vehicle thoroughly.

Run the engine for about 5 minutes, stop the engine, then empty all engine oil.

⚠DANGER
Motorcycle oil is toxic. Dispose of used oil properly. Keep the used oil out of reach of children. If skin touches the oil it should be washed off immediately.

Replenish new engine oil.

Replenish fuel and fuel additive.

⚠DANGER
Gasoline is extremely flammable and explosive under certain conditions. The vehicle must be powered off before operating. Do not smoke. Make sure the area is well ventilated and free of any source of flame or sparks, including any appliance with a pilot light. Gasoline is a toxic substance. Dispose of gasoline properly. If skin touches the oil it should be treated immediately. Keep the used oil out of reach of children.

Reduce tire pressure at least by 20% during storage period.

Raise wheels off the ground using wood boards to keep the vehicle away from moisture.

Spray a film of engine oil on all unpainted metal surfaces to prevent rusting. Avoid spraying on rubber parts or on the brakes.

Lubricate all cables.

Remove the battery. Store it in a cool and ventilated place. Ensure that the battery is fully charged according to the Periodic Maintenance Chart.

Wrap plastic bags over the muffler exhaust pipe to prevent moisture from entering.

Put a cover over the motorcycle to prevent dust and dirt.

Preparation After Storage

Remove the plastic bags from the muffler exhaust port.

Charge the battery if necessary, then mount the battery in the vehicle.

Do all daily safety inspections.

Lubricate any pivot points as necessary.

Take a test ride.

Transporting Your Vehicle

If your vehicle needs to be transported, it should be carried on a motorcycle trailer, a flatbed truck, or trailer that has a loading ramp or lifting platform, and it should be properly secured with motorcycle tie-down straps. Never try to tow your vehicle with a wheel or wheels on the ground.

⚠WARNING
The warning function of the T-BOX (If equipped) can be triggered by bumps during transportation, which will lead to battery consumption. To avoid this issue, disconnect the battery before transportation.

Battery disconnection operation

Use the proper tool (such as a wrench) to remove the bolt for the battery's negative terminal.

Remove the negative wire from the battery terminal, and wrap this wire with insulated rubber tape to prevent a short circuit.

Make sure there is no contact between the negative wire and the battery terminals.

Recover the power supply after transportation

After transportation, re-install the negative wire and bolt on the battery.

Check whether the electronic equipment on the vehicle is working normally.

Precautions

A power interruption may cause some electronic devices (e.g., clocks, instrument settings) to reset. Please record any important information before disconnecting the power supply.

COMMON PROBLEMS AND CAUSES

Problem	Component	Cause	Solution
Engine fails to start	Fuel system	No fuel in fuel tank	Refuel
		Pump blockage or damage: poor fuel quality	Clean or replace
	Ignition System	Spark plug failure: excessive carbon deposits, too long-time usage	Inspect or replace
		Spark plug cap failure: poor contact or burning	Inspect or replace
		Ignition coil failure: poor contact or burning	Inspect or replace
		ECU failure: poor contact or burning	Inspect or replace
		Trigger coil failure: poor contact or burning	Inspect or replace
		Stator failure: poor contact or burning	Inspect or replace
		Wiring failure: poor contact	Inspect or adjust
	Cylinder system	Starting mechanism failure: worn or damaged	Inspect or replace
		Intake and exhaust valves, and valve seats failure: too much fuel colloidal or too long-time use	Inspect or replace
		Cylinder, piston, piston ring failure: too much fuel colloidal or wear	Inspect or replace
		Intake pipe leakage: too long-time use	Inspect or replace
		Valve timing failure	Inspect or replace

Insufficient power	Valve and piston	Intake and exhaust valves, excessive carbon deposits in the piston: poor fuel quality and poor oil quality	Repair or replace
	Clutch	Clutch slips; poor oil quality, too long-time use and overloading	Adjust or replace
	Cylinder and ring	Cylinder, piston rings wear; poor oil quality and too long-time use	Replace oil
	Brake	Incomplete separation of brake; too-tight brake	Adjust
	Engine	Engine overheating; too-rich or too-lean mixture, poor oil and fuel quality, shelters, etc	Adjust or replace
Insufficient power	Spark plug	Improper spark plug clearance	Adjust or replace
	Intake pipe	Air leakage of intake pipe; too long-time use	Adjust or replace
	Cylinder head	Air leakage for cylinder head or valves	Inspect or replace
	Electrical System	Electrical system failure	Inspect or repair
	Air filter	Air filter clogging	Clean or adjust

Headlights, tail lights, position lights, turn lights, and license lights do not work	Cables	Poor connections	Adjust
	Left and right switches	Poor switch contact or switch damage	Adjust or replace
	Headlights, tail lights, position lights, turn lights, and license lights	LED and circuit board failure or damage	Replace
	Regulator	Regulator inspection: poor connection or burning	Inspect or replace
	Magneto	Magneto inspection: poor connection or burning	Inspect or replace
Horn does not work	Battery	No electricity	Charge or replace
	Left switch	Horn button failure or damage	Adjust or replace
	Cables	Poor connection	Adjust or repair
	Horn	Horn damage	Adjust or replace

The listed above are the common problems of a motorcycle. If your motorcycle has certain problems (especially in the electronic fuel injection system, fuel evaporation system), please contact an authorized CFMOTO dealer to inspect and repair the vehicle in time.

⚠DANGER
Do not try to fix mechanical problems without professional help. Otherwise it could cause an accident. You become responsible for accidents related to any repairs or maintenance not performed by a CFMOTO dealer.

GENERAL TORQUE CHART

Type	Torque (N•m)	Type	Torque (N•m)
M5 bolt and nut	5±1	M5 screw	5±1
M6 bolt and nut	10±2	M6 screw	8±1
M8 bolt and nut	25±5	M6 flange bolt and nut	12±1
M10 bolt and nut	55±5	M8 flange bolts and nuts	25±5
M12 bolt and nut	60±5	M10 flange bolt and nut	55±5

CRUCIAL TORQUE CHART

Type	Thread	Number	Torque (N•m)	Thread-locker
Muffler and rear swing arm (rear fork) mounting bolt	M10×1.25×65	3	45±5	No
Muffler and engine mounting nut	M8	2	25±5	No
Oxygen sensor	/	1	18±2	No
Front bracket assembly and frame mounting nut (cap)	M8	2	45±5	No
Engine front triple clamp assembly and frame mounting nut	M10×1.25	2	60±5	No
Engine front triple clamp assembly and engine mounting nut	M10×1.25	2	45±5	No
Side stand bolt	M10	1	15±5	No
Side stand nut	M10×1.25	1	25±5	Yes

Front wheel axle mounting nut	M12×1.25	1	70±5	No
Front brake disc mounting screw	/	3	25±3	Yes
Front brake caliper mounting bolt	M8×30	2	25±3	Yes
Rear wheel mounting nut	M16×1.5	1	125±5	No
Rear brake disc mounting bolt	/	4	25±3	Yes
Rear brake caliper mounting bolt	M8×25	2	25±3	Yes
Lower triple clamp shock absorber locking bolt	M10×1.25×50	4	45±5	Yes
Upper bearing cover assembly with bearing compression	/	1	First torque to 55±5 N·m. Then, rotate the front fork to the left and right steering limits, repeating this cycle 3 times each side. Back off the lock nut by 120~160°. Re-tighten it again to 25±3 N·m.	No
Steering column assembly lock nut	/	1	70±10	No
Rear shock absorber mounting bolt (upper)	M10×1.25×40	2	45±5	Yes
Rear shock absorber mounting bolt (lower)	M8×30	2	25±5	Yes
Rear swing arm (rear fork) and engine assembly bolt	M10×1.25×45	2	45±5	Yes

LH/RH rear footpegs and frame mounting bolt	M8×25	4	25±2.5	No
Rear rack front mounting bolt	M8×20	2	25±2.5	No
Rear rack rear mounting bolt	M8×20	1	25±2.5	No
Handlebar assembly mounting bolt	M10×1.25×50	1	45±5	Yes
Rearview mirror upper nut (connecting to the mirror face)	M8	2	25	No

"/": Indicates non-standard part.

CFMOTO RIDE APP / TELEMATICS BOX

CFMOTO RIDE is an intelligent, networked, mobile service platform that provides human-vehicle interconnection as its core. CFMOTO RIDE is committed to providing full-featured services for motorsport enthusiasts online. The telematics module, or T-BOX, is an intelligent vehicle terminal that builds a communication bridge between owners and vehicles through the CFMOTO RIDE App. When a T-BOX is equipped, the owner can enjoy the smart features of CFMOTO RIDE. The telematics module is optional in select markets. Check with your dealer to determine if your vehicle is equipped with telematics (T-BOX), or download the CFMOTO RIDE App, and send your question via the [feedback] option, and CFMOTO will check for you.

CFMOTO RIDE App

Scan the QR code to download the CFMOTO RIDE APP from the Apple App Store for iPhone or Google Play for Android.

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CFMOTO RIDE Website

Scan the QR code to explore the CFMOTO RIDE intelligent platform on the CFMOTO global website.

CFMOTO RIDE provides various smart features such as the vehicle owner's manual, riding details, navigation, Over-The-Air (OTA) updates, geofence, static reminders, etc. Available features will vary according to vehicle / model configuration and global market requirements. Please download CFMOTO RIDE and enjoy the intelligent riding experience!

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