



MOREFUN



450NK

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: CF400-7A

** DANGER**

Operating, servicing and maintaining on-road or off-road vehicles can expose you to chemicals including engine exhaust, carbon monoxide, phthalate, 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.

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.

Key Signals

Warning signals call attention to the safety signal or other signals, as well as the performance default signal or other signals. They also specify the danger's severity. This manual's standard signals are: "DANGER", "WARNING", "CAUTION" and "NOTE".

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is at risk when these words and symbols appear on your vehicle. Please be familiar with their meanings when reading the manual:

DANGER

Indicating that it may cause deaths to operators or people around, if no measures are taken.
--

WARNING
--

Indicating that it may hurt operators or damage components, if no measures are taken.

CAUTION
--

Indicating that to prevent components from being damaged, precautionary measures should be taken.

NOTE:

Indicating that there are easier or clearer information for operation. No signal is used in this circumstance.

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 injuries or deaths.

** WARNING**

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

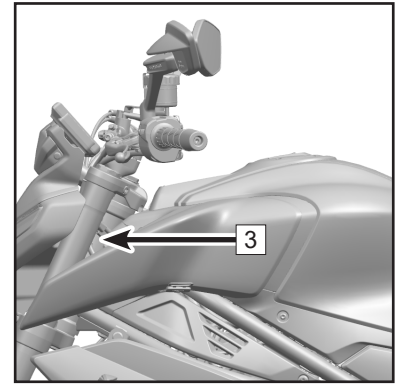
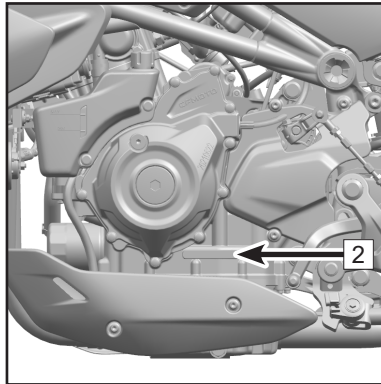
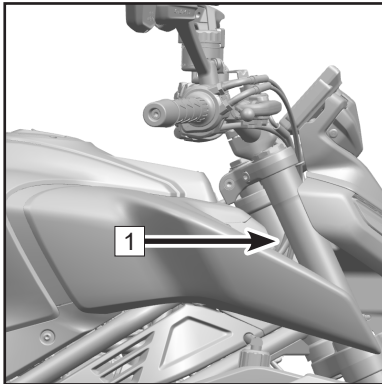
VIN AND SERIAL NUMBER

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

Vehicle Identification Number:

Engine Serial Number:

Name Plate Number:



1	VIN	2	Engine Serial Number	3	Vehicle Plate
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SPECIFICATIONS

	450NK
	CF400-7A
Performance	
Max power	51 Hp (38 Kw) / 9500 RPM
Max torque	29.5 ft-lb. (40 N•m) / 7750 RPM
Min. turn diameter	16 ft (5 m)
Top designed speed	110 mph (178 km/h)
Size	
Length	78.3 in (1990 mm)
Width	31.9 in. (810 mm)
Height	44.5 in. (1130 mm)
Wheelbase	53.7 in (1365 mm)
Seat height	31.3 in. (795 mm)
Ground clearance	7.6 in. (192 mm)
Curb weight	381.4 lb (173 kg)
Engine	
Type	Twin cylinder in parallel, four stroke, liquid cooled, vertical
Displacement	449 cm ³
Bore×stroke	2.83 × 2.17 in. (72 × 55.2 mm)
Compression ratio	11.5(±0.3) : 1
Starting system	Electric starter

Fuel supplying system		EFI	
Ignition control system		ECU Ignition	
Lubricating system		Pressure splash	
Oil capacity		2.64 qt. (2.5 L)	
Engine oil type		API SL or higher SAE 10W-40 JASO MA2 synthetic oil	
Coolant capacity		40.6 oz. (1200 ml) + 6.8 ± 0.68 oz. (200 ± 20 ml) (Reservoir)	
Coolant type		CFMOTO recommended organic coolant, do not use inorganic coolant	
Idle speed		1350 RPM ± 135 RPM	
Transmission			
Transmission type		6-speed, international standard gear	
Clutch type		Wet, multi disc,sliding clutch	
Driving system		Chain drive	
Primary reduction ratio		2.088	
Final reduction ratio		2.929	
Gear ratio	1 st	2.929	
	2 nd	2.056	
	3 rd	1.579	
	4 th	1.333	
	5 th	1.154	
	6 th	1.037	
Chassis			
Tire size	Front	110/70 ZR17 M/C 54W	110/70 R17 M/C 54H (alternative)
	Rear	150/60 ZR17 M/C 66W	150/60 R17 M/C 66H (alternative)

Rim size	Front	MT 3.0 × 17
	Rear	MT 4.0 × 17
Capacity of fuel tank		3.7 gal (14 L) ± 0.13 gal (0.5 L)
Storage capacity of fuel tank when meter is flashing (max)		0.66 gal. (2.5 L)
Average fuel consumption per 100 Km		≤1.3 gal. (4.8 L)
Electric components		
Battery		12 V 12 Ah
Headlight		LED
Turning light		LED
Tail light		LED
Shock Absorbers		
Front shock absorber travel		4.7 in. (120 mm)
Front shock absorber preload		Unadjustable

Front shock absorber rebound damping adjustment	Unadjustable
Front shock absorber compression damping adjustment	Unadjustable
Rear shock absorber travel	2.4 in. (62 mm)
Rear shock absorber rebound damping adjustment	Unadjustable
Rear shock absorber compression damping adjustment	Unadjustable
Rear shock absorber spring preload	Spring length factory setting: 6.7 in. (170 mm)
	Adjustment range of the spring length: 6.4 ~ 6.9 in. (163 mm ~ 175 mm)

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.

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 mounted. 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 95(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 stopped outdoors or in well-ventilated areas. 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 oil 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 clutch lever with the left hand, fully operate the brake lever with the right hand, fully operate the foot brake lever with the right foot, 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, includes:

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

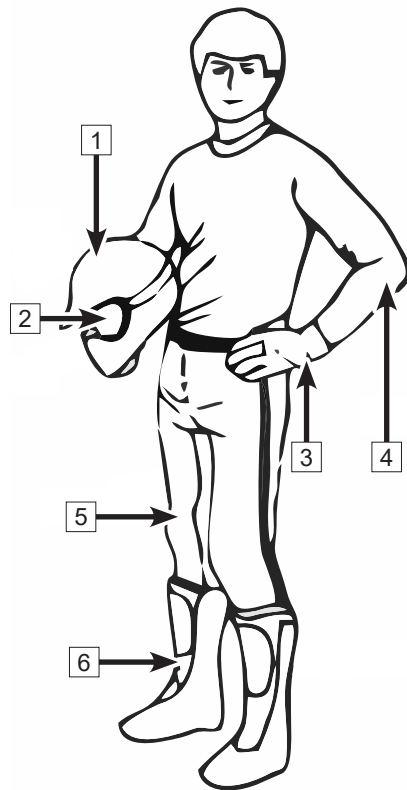
According to the actual weather, you may need extra apparel, such as anti-fog goggles, thermal underwear and a face guard for cold weather. The operator must never wear loose clothing that may get entangled in the vehicle or on tree branches and shrubs.

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 and its size should suit you. A closed-face helmet with face shield will be better at preventing impacts from insects, flying rocks, dust and scattered debris, etc.

An open-face helmet can not 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. Also, eyeglasses and sunglasses cannot block the wind and airborne objects entering glasses.

Use tinted masks or goggles only during the day in bright light, do not use them at night or in poor light. They may affect 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 gloves offers 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.

When riding in a cool weather, protect yourself against hypothermia which is a state of low body temperature and 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 the vehicle is 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. Avoid long shoelaces that could get entangled in the vehicle components. In winter, rubber-soled boots with either nylon or leather uppers and removable felt liners are best suited. Avoid rubber boots which may get trapped behind or in the foot brake pedal, impairing proper operation.

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 is beneficial for keeping operators 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 gear such as earplugs can help prevent hearing loss. Check local laws before using any hearing protective gear.

General 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. Do not carry luggage unless it is necessary. 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.
3. If carrying luggage is necessary, 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: 346.1 lb. (157 kg) including driver, passenger, luggage and attachments

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.

Wrong Operations

⚠ WARNING: Wrong operations 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 people under 18 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 over 18 years old and with safe driving skills and the driver's license.

Illegal Carrying

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

Carrying the passengers more 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 car 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: 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.

Stunts

⚠️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's conditions before driving and maintaining vehicle regularly.

Checking vehicle's conditions before driving 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 driving.

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.

Keys

⚠️ WARNING: Do not leave keys on the vehicle. Lock the stem lock before leaving the vehicle.

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

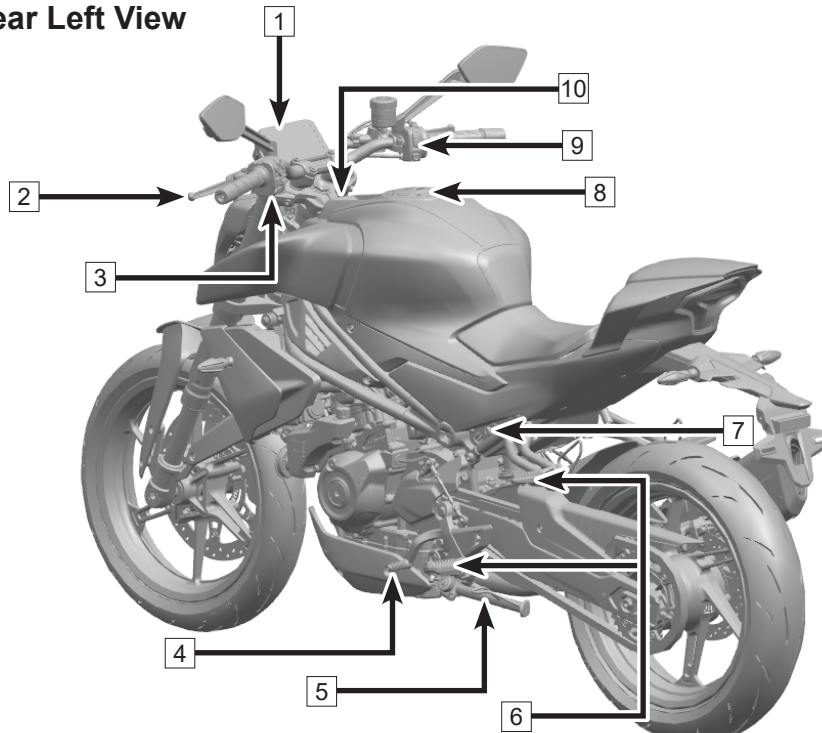
Dangerous Transportation

⚠️ WARNING: Do not transport inflammable, explosive or other dangerous goods.

Transportation of dangerous goods may cause serious injuries or accidents.

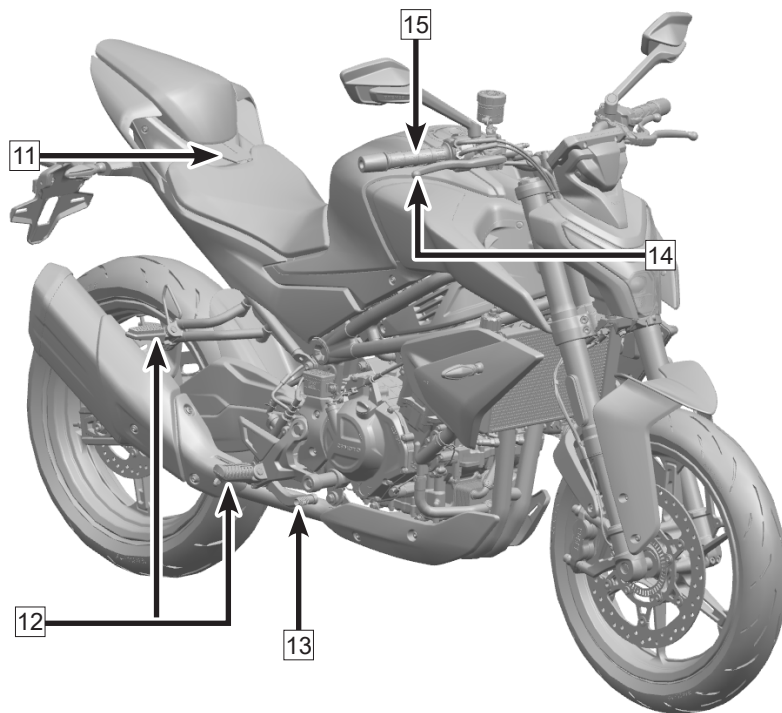
VEHICLE VIEW

Rear Left View



- 1: Instrument
- 2: Clutch Lever
- 3: Handlebar Switch, LH
- 4: Gearshift Lever
- 5: Side Stand
- 6: Footrest Kit
- 7: Seat Lock
- 8: Fuel Tank Lock
- 9: Handlebar Switch, RH
- 10: Ignition Switch Lock

Front Right View



11: Passenger Handhold

12: Footrest Kit

13: Rear Brake Pedal

14: Front Brake Lever

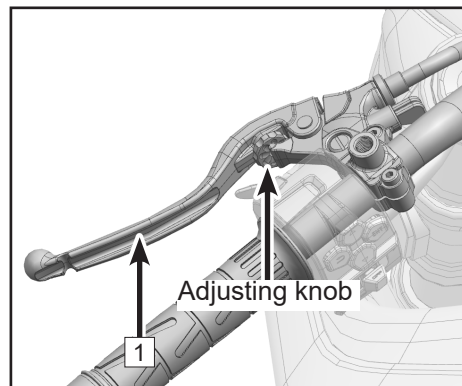
15: Throttle

OPERATING PARTS

Clutch Lever

Clutch lever **1** is on the left side of handlebar. The clutch is a cable clutch.

Adjust the clutch lever's distance to the handlebar by turning the clutch lever adjusting knob.



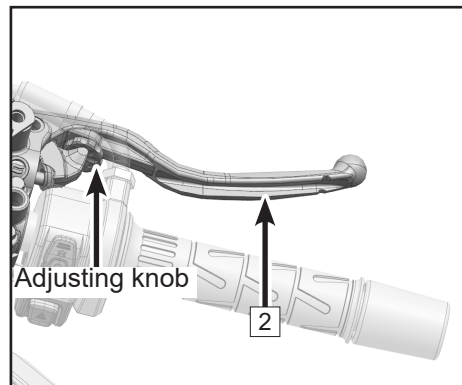
Front Hand Brake Lever

Front hand brake lever **2** is on the right side of handlebar. Front brake caliper activates braking by using the front hand brake lever.

Adjust the clutch lever's distance to the handlebar by turning the clutch lever adjusting knob.

As shown, rotate it clockwise to move the clutch lever and the brake lever toward the handlebar. Rotate it counterclockwise to move the clutch lever and the brake lever away from the handlebar.

NOTE: The adjustment range of the brake lever and the clutch lever is limited. Rotate each knob only by hand and not abruptly. Do not adjust knobs while riding on the road.

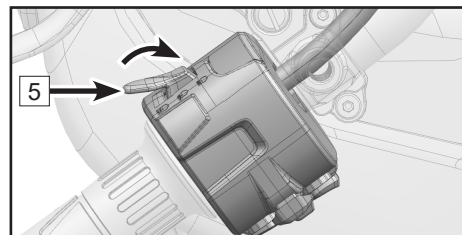
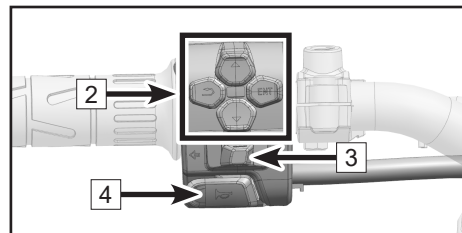
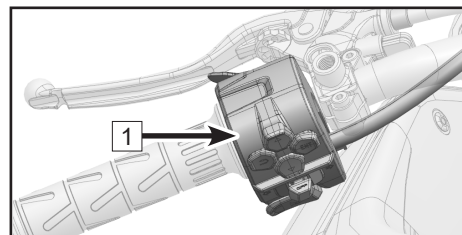


Handlebar Switch, LH

Left handlebar switch **1** is on the left side of the handlebar.

Functions of Left Handlebar Switch

2	Instrument button	Instrument operations, please refer to INSTRUMENT.	
3	Turning light switch		Push this switch to the right, the right turning light will be on.
			Push this switch to the left, the left turning light will be on.
		OFF	Push this switch to cancel the turn light.
4	Horn button		Press and the horn will sound.
5	Dimmer push switch		Press and quickly release this switch, passing light will flash.
			Toggle this switch in the direction of the arrow, high beam lights will be on.
			Turn to this position, low beam lights will be on.



Handlebar Switch, RH

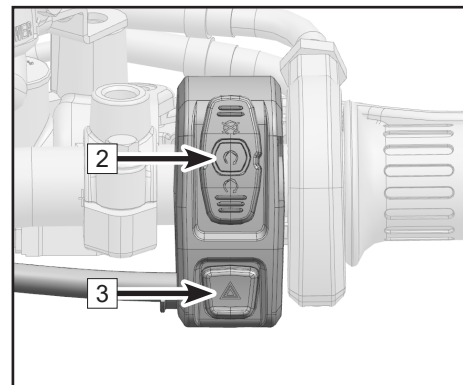
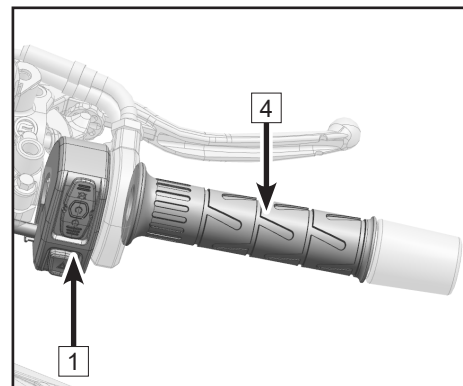
Right handlebar switch **1** is on the right side of the handlebar.

Functions of Right Handlebar Switch

2	Start and stop switches		Press this position, the vehicle stops.
			Turn to this position, the oil pump initiates oil pumping, the vehicle is preparing for starting.
			Press this position, the vehicle starts.
3	Hazard flasher switch		Press to turn on the hazard flasher light.

Throttle Grip

Throttle grip **4** is at the right side of the right handlebar.



Locks

Fuel Tank Lock A

Open the fuel tank cap

Prework: The vehicle must be stopped, and the engine must be off.

Flip up the fuel tank lock press plate 1.

Insert the ignition key 2 and rotate clockwise to unlock.

Open the fuel tank cap 3 in the direction of the arrow.

NOTE: The ignition key may be broken if overloading. If it happens, it is necessary to replace with a new one.

Close the fuel tank cap

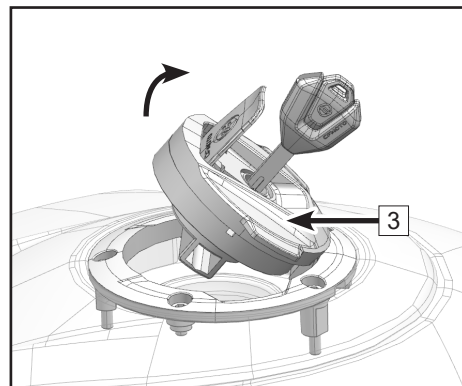
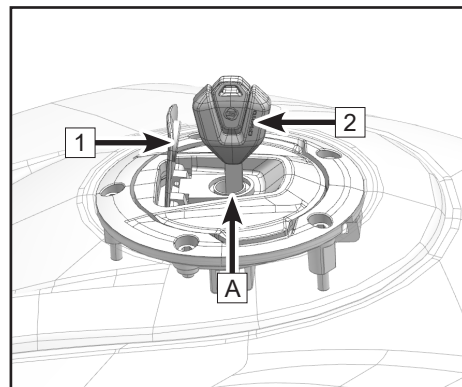
Flip down the fuel tank cap 3.

Press down the fuel tank cap 3 until the fuel tank is locked.

Take out the ignition key 2 and flip down the press plate 1.

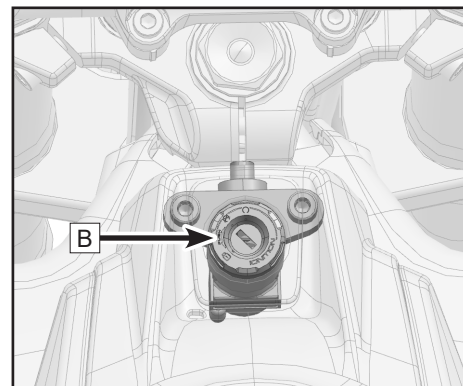
WARNING

Inspect whether the fuel tank cap is locked completely after it's closed.



Ignition Lock / Handlebar Lock B

Handlebar lock		Turn the handlebar to the left, and then turn the key to the lock indicator to lock the handlebar. The key can be removed.
Stop		Turn the key to this position to stop the engine and disconnect the vehicle's power circuits. The key can be removed.
Start		Turn the key to this position to start the engine and connect the vehicle's power circuits. The key cannot be removed.



Locking / unlocking the handlebar system

NOTE: Place the vehicle on firm and flat ground, or the vehicle may slide or tip over.

Lock	Shut off the vehicle, turn the handlebar to the left end, press down and turn the key to the left to indicator  . Then remove the ignition key.
Unlock	Turn the handlebar to the left end, insert the key into the ignition lock and handlebar lock kit, press and turn to the key to indicator  to release the handlebar. Then remove the ignition key.

CAUTION

Do not turn on the power supply for a long time when the engine is off. Otherwise the engine may not start due to the resulting power loss.

Seat Lock C

The seat lock C is on the left side of the vehicle.

The rear seat can be removed by inserting the ignition key D and turning it to release the lock.

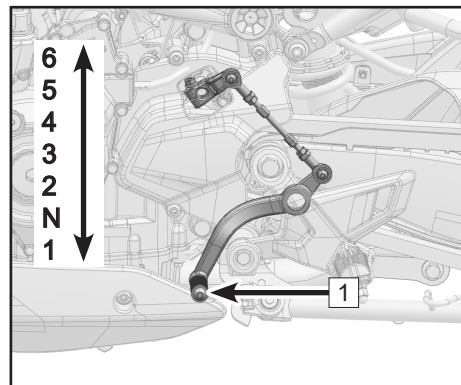
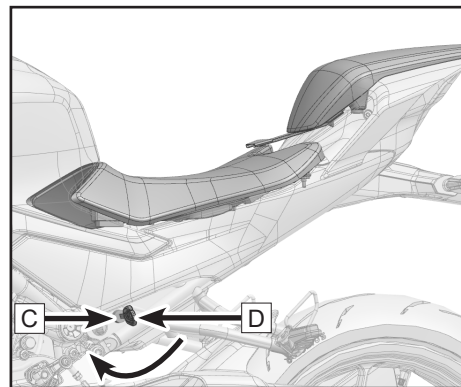
Removal of the driver seat is covered in the Battery Removal section of this manual.

Lock Keys

Store the spare key in a safe place. Keys can be duplicated only by mating a key blank with one of your existing keys. If both keys are lost, complete lock assemblies must be replaced.

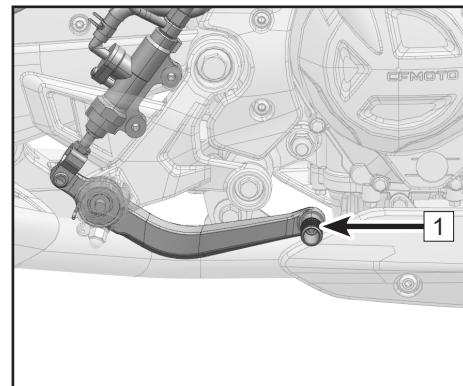
Gearshift Lever

The gearshift lever 1 is on the left side of the engine. Use this lever to shift transmission gears.



Rear Brake Lever

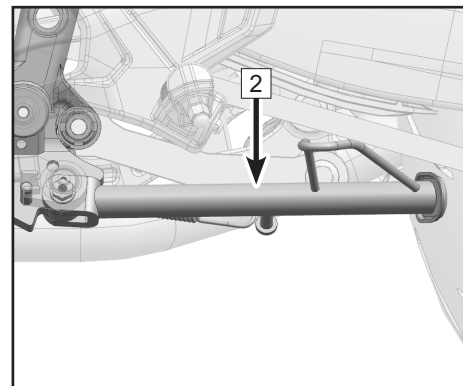
The rear brake lever **1** is on the right side of the engine .Step on rear brake lever to make rear brake caliper to stop the vehicle.



Side Stand

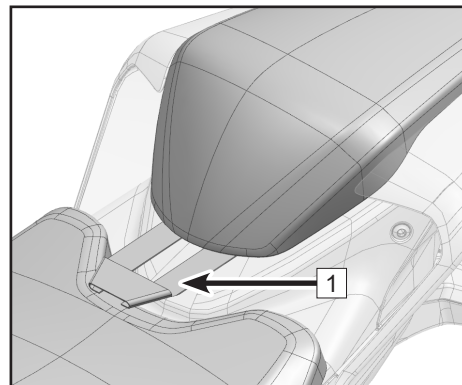
The side stand **2** is on the left side of the vehicle, and is used for parking.

When the side stand is lowered, the vehicle can be started only with the transmission in neutral.

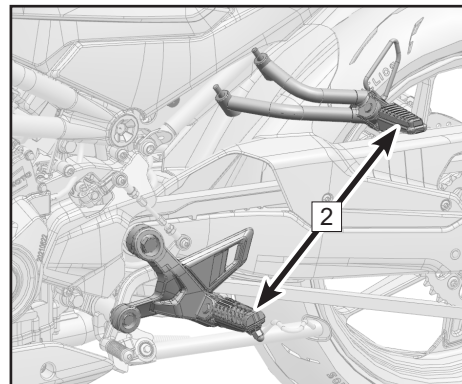


Passenger Handhold and Footrests

The passenger handhold **1** is fixed on the motorcycle and can be held by the passenger, such as a pulling belt or handle, etc.



Footrests **2** are pedals or footboards fixed on the motorcycle for the operator and passenger to put their feet.

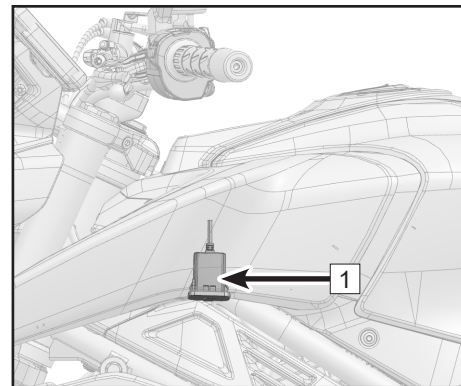


Accessory Power Socket

The accessory power socket 1 is on the left side of the vehicle for charging electronic devices. It contains a USB Type-C connector for accessories.

Basic electrical features:

- 1: Nominal voltage: DC 12V
 2. Working voltage: DC 7.5V~32V
 3. Output voltage range: DC 5V $\pm$ 0.4V
 4. Rated power: 10W (5V@2A)
- Always close the 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.



 WARNING

Do not charge electrical equipment for a long time when the engine is off or idling. Otherwise the battery will discharge, which could lead to engine starting problems.

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 a long time in a high-temperature or humid environment, as this may affect its performance or create safety hazards. If any abnormalities are detected in the USB port (such as overheating, unusual smells, or damage), immediately discontinue use and contact authorized service center for inspection.

INSTRUMENT

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 on the front of the handlebar and is divided into two function areas:

1: Instrument Indicators

2: Instrument Display

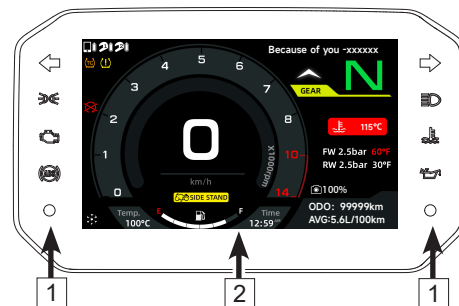
Activation and Testing

Activation

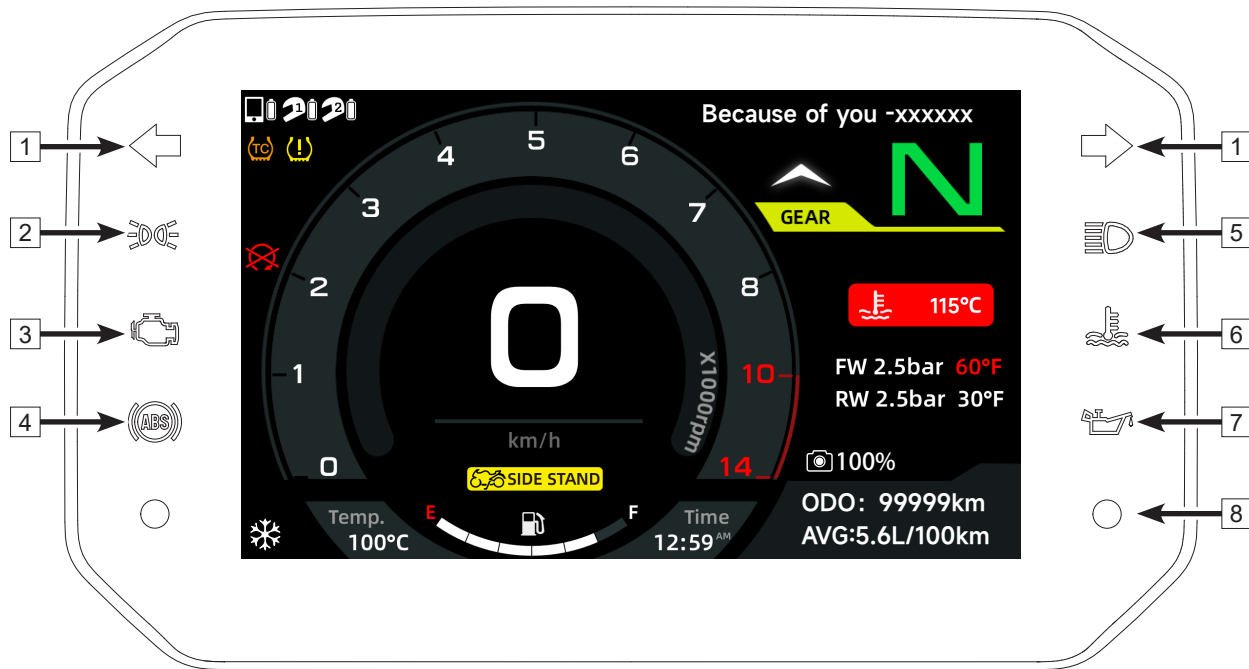
The instrument is activated synchronously when the motorcycle is powered on.

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.



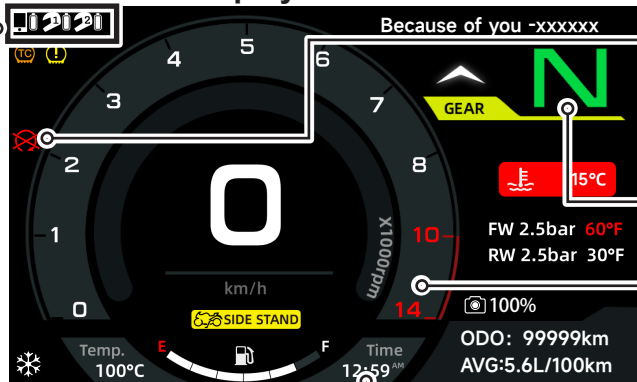
Instrument Indicators



Number	Symbol	State	
1		Flash	When turn signal indicators are flashing, the corresponding turn 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 running but the fault indicator is on, then the vehicle has detected a fault. 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 will be on, which is a normal phenomenon. When vehicle speed exceeds 3 mph (5 km/h), the indicator will turn off. If there is an ABS fault, the ABS indicator will be on, and at this time the ABS system will stop working, but general braking functions may still play their roles. Please reduce speed, avoid sudden braking and timely contact an authorized CFMOTO service center.
5		On	When the high beam indicator is on, the high beam light is turned on.

6		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, and wait for the coolant temperature to drop. If this indicator turns on frequently, contact an authorized CFMOTO service center.
7		On	When the oil pressure indicator is on, the oil level is too low, so please replenish or replace the engine oil in time to avoid any engine damage or fault.
8			When set the screen brightness to “automatic” in the settings, the photosensitive sensor will automatically adjust the instrument’s brightness according to the external environment light.

Instrument Display



Stop Indicator Light

When the stop indicator light is on, the stop switch is turned off and the vehicle is off.

Gear Display

Current gear is displayed here. Neutral gear is displayed in green.

Engine RPM

The unit of engine speed is 1000 revolutions per minute.

During the break-in period, avoid high engine speeds. Engine speeds approaching the red zone can shorten engine life, so avoid these speeds at all times. Avoid other high engine speeds until the engine has warmed up.

Clock

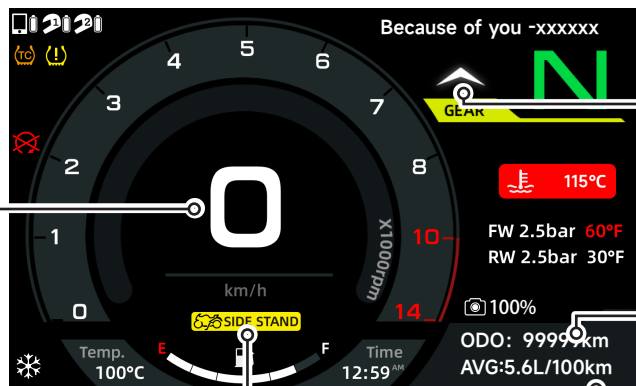
The current time is displayed here.
Set the current time through the menu.
Switch between a 12-hour clock and a 24-hour clock through the menu.

Bluetooth

Bluetooth is used to connect mobile phones and helmets.

When a user's mobile phone / helmet is connected to the motorcycle's instrument through Bluetooth, the area will display the mobile logo, helmet logo (helmet 1 and helmet 2), and remaining power of the mobile phone, helmet 1 and helmet 2.

Functions of music and calling can only be used when the phone/helmet is properly connected to the motorcycle.



Upshift Alert

You can enable the Upshift Alert in the menu. It will remind you to change gears when the engine speed reaches the recommended gear-shifting range.

Information 1

You can select a message from the menu to be displayed here.

Optional Information 1: ODO, TRIP1, TRIP2.

Information 2

You can select a message from the menu to be displayed here.

Optional Information 2: Range, Voltage, Instant fuel, Time, Average fuel, Average speed.

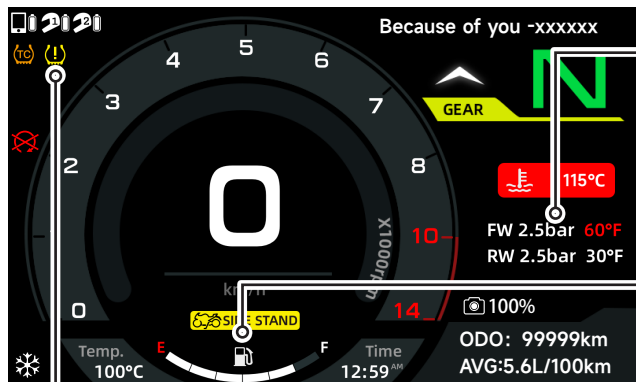
Side Stand Indicator

When the side stand is used, its indicator light is on. At this time, the motorcycle cannot be started in gear. The vehicle can be started only in neutral.

Speed

The current speed is displayed here.

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



Tire Information Display

Front and rear tire pressure and the tire temperatures are displayed here.

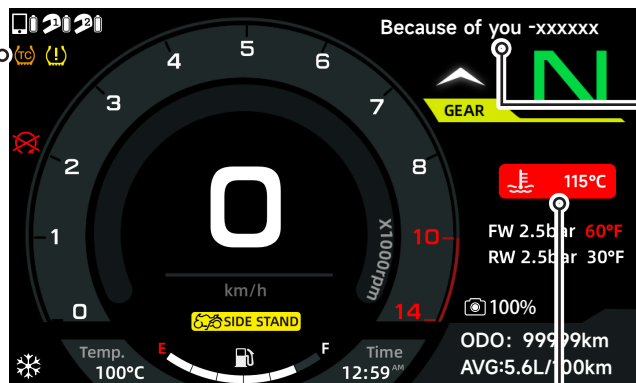
Fuel Level

Fuel is displayed using several bars. More bars mean more fuel remains. When the fuel symbol turns yellow, the fuel level is low. At this time, please replenish fuel soon. Insufficient fuel may cause damage to the fuel pump.

Tire Pressure Indicator

Tire pressure indicator will be on when tire pressure is abnormal or it does not receive a tire sensor signal. When this indicator is on, please stop the vehicle and inspect the pressure and condition of the tires. If an abnormal condition (tire wear and bulge) is found, please contact a CFMOTO dealer for service. If tire condition appears normal, please drive slowly, keep tire pressure at specification, and service the tires soon. If there is no tire sensor signal, please 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.



Traction Control Indicator

It is normal for the TC indicator (tc) to be on when the vehicle is powered on. If TC is not enabled, and riding speed exceeds 3 mph (5 km/h), the TC indicator light turns off and will not light up again at this time. The TC indicator light flashes during riding when TC is enabled.

The TC off indicator (tc) appears when TC is off.

The TC fault indicator (tc!) will be on if a fault occurs. When TC has a fault, please contact a CFMOTO dealer for inspection.

Music / Calling

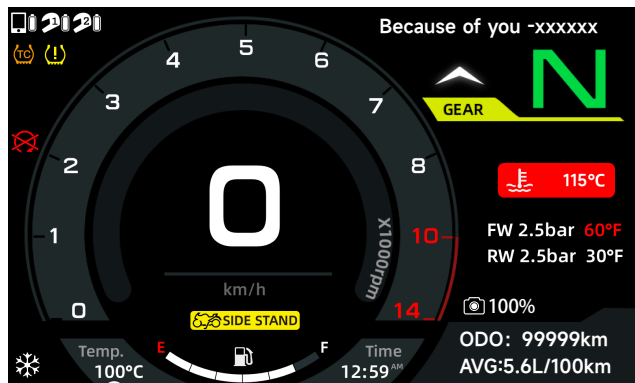
When the instrument plays music via a connected mobile phone, this area will display the current music. When playing music, users can select the priority of calls. Press ENT on the LH handlebar to answer a call, and press ↶ on the LH handlebar to hang up.

Coolant Temperature

The current coolant temperature is displayed here. When the area turns red, the coolant has reached a dangerous temperature.

⚠ WARNING

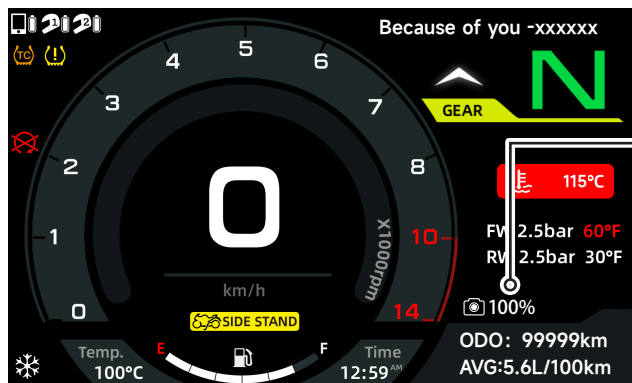
Extreme temperatures may damage the engine. If the coolant reaches a dangerous temperature, please park the vehicle in line with local laws and regulations, and wait for the coolant temperature to drop. Please replenish coolant to its proper level after the cooling system has totally cooled. Under normal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



Ambient Temperature

The current external temperature is displayed here. Celsius °C and Fahrenheit °F can be switched through the menu.

An icing warning appears when the ambient temperature is below 41°F (5°C) for a long time, and it indicates an increased risk of slippery roads.



4. Shooting state display: The camera icon on the dashboard will turn red with a breathing blinking effect, to remind the 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.

Tips: In the future, the sports camera features may be offered for free, allowing you to enjoy the joy of cycling recording without additional payment. Refer to the electronic manual for the latest information.

Sports Camera (Select Markets)

This feature records riding moments. It can be used only on vehicles equipped with a 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.

Main functions:

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, to 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.

Instrument Menu

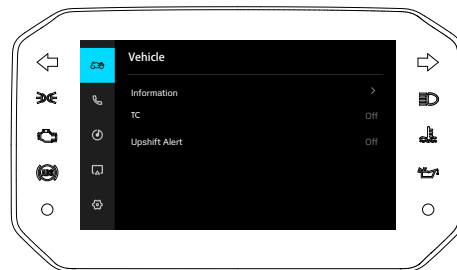
Adjust instrument settings through the instrument menu to optimize the riding experience.

Press 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 functions of the instrument.



For Main interface: press it to switch Optional Info 1 and long press it to reset trips.

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. On the Menu interface, press it to increase the volume and long press it to select the prior song.

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

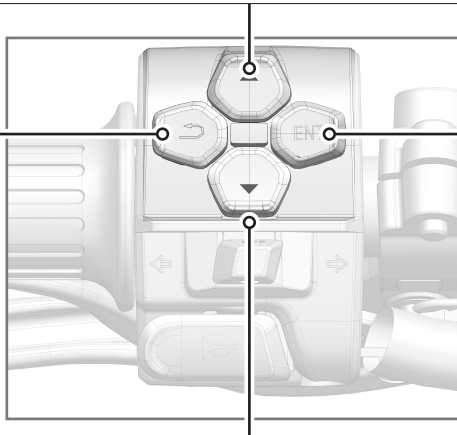
For Main Menu: press it to clean the popup window.

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 the phone.

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

For Music: press it to return to the main interface.



For Main interface: press it to enter the first-level menu, long press it to play the song. (When the Bluetooth is connected).

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 prior menu, and long press it to pause or play.

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

For Main interface: press it to select Optional Info 2.

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.

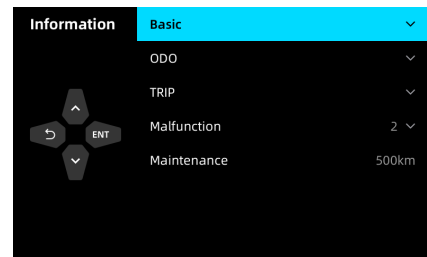
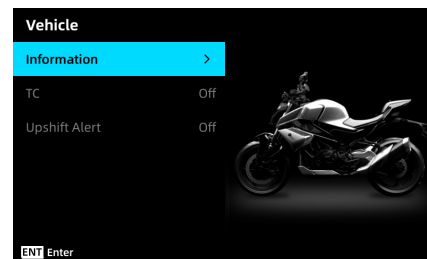
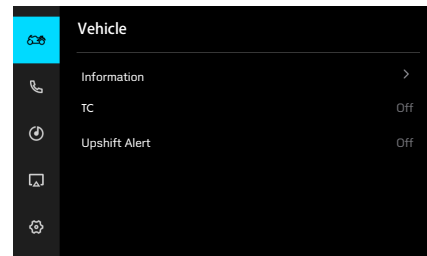
NOTE: The priority of buttons is calling, fault, phone, music and then others.

Vehicle Setting

Users can inspect, adjust, and set the following items in the setting menu.

Inspection items: Information (Basic info, ODO, TRIP, Malfunction, Maintenance).

Adjustment and set items: TC, Upshift Alert.



Vehicle Information - Basic Information

On the basic information interface, you can check battery voltage, range, coolant temperature, and tire pressure and tire temperature.

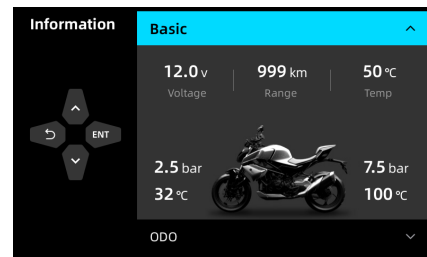
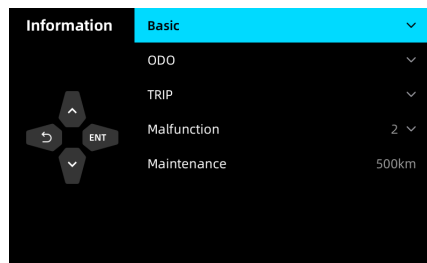
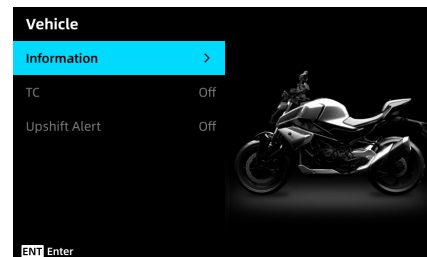
Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Vehicle information**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Basic information**, press ENT to enter the basic information, and press ENT again to close the basic information.



Vehicle Information - ODO Information

On the ODO information interface, you can check the total mileage, driving time, speed and fuel consumption.

Operation steps

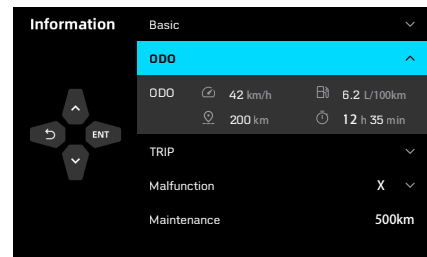
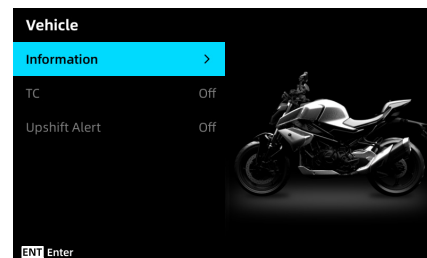
Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

Press $\triangle$ or ∇ to select the **Vehicle information** interface, and press ENT to enter.

Press $\triangle$ or ∇ to select the **ODO information**, press ENT to open the ODO information, and press ENT again to close the basic information.

NOTE: Odometer information cannot be reset.



Vehicle Information - TRIP Information

On the TRIP information interface, you can check the TRIP1 mileage, TRIP 2 mileage, riding time, speed and fuel consumption.

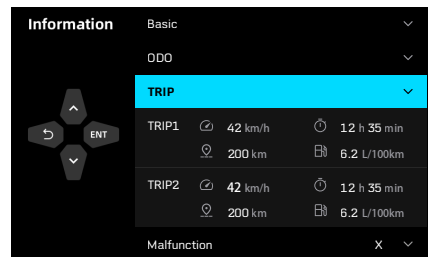
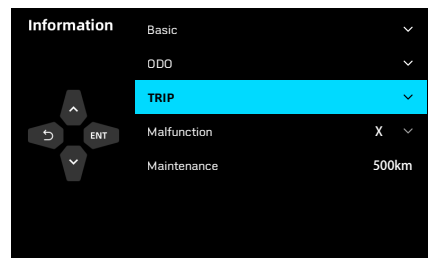
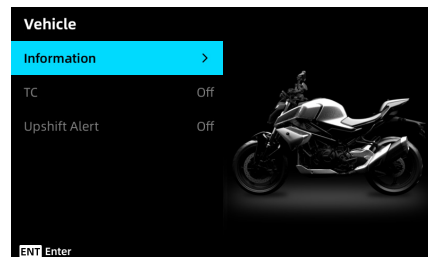
Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Vehicle information**, and press ENT to enter.

Press $\triangle$ or ∇ to select **TRIP information**, press ENT to open the TRIP information, and press ENT again to close the TRIP information.



Vehicle Information - TRIP Information - TRIP 1 / TRIP 2 Reset

Operation steps

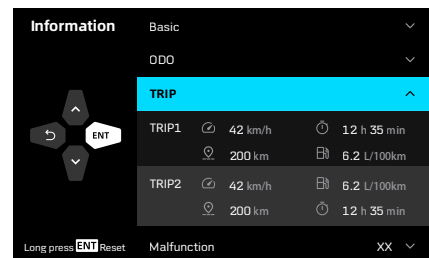
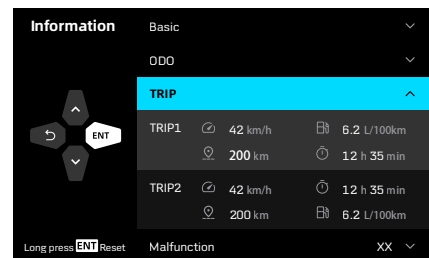
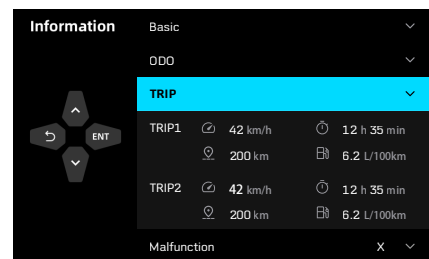
Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, press ENT to enter.

Press $\triangle$ or ∇ to select **Vehicle information**, press ENT to enter.

Press $\triangle$ or ∇ to select **TRIP information**, press ENT to open the TRIP information.

Press $\triangle$ or ∇ to select the **TRIP 1 / TRIP 2 information**, long press ENT to reset the TRIP1/TRIP 2 data.



Vehicle Information - Malfunction

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

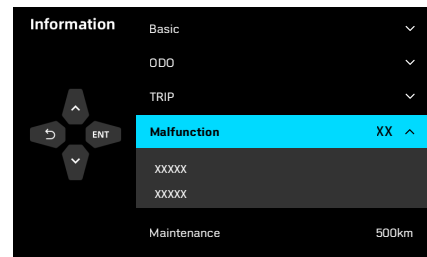
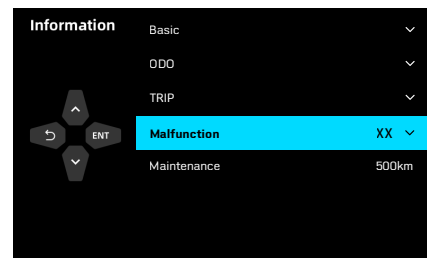
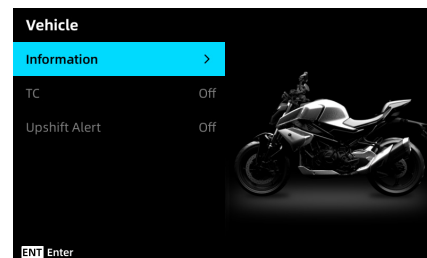
Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Vehicle information**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Malfunction**, and press ENT to inspect the details (if the number of faults is zero on the right side, faults cannot be checked). Press ENT again to close the fault information.



Vehicle Information - Maintenance

On the vehicle information interface, you can inspect the service mileage information. When the service mileage is reached, the instrument will display a message to remind you to carry out service at an authorized CFMOTO service center.

Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Vehicle information**, and press ENT to enter. Inspect the remaining service mileage.

Resetting Service Mileage

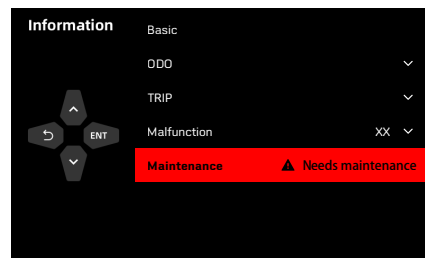
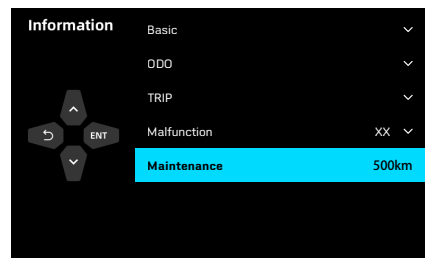
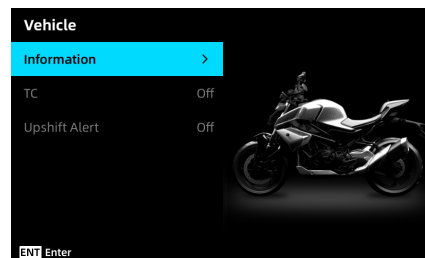
Press $\triangle$ or ∇ to select the remaining service mileage.

Press ENT for 10 seconds. Then confirm your choice to reset.

A CFMOTO service center also can reset the service mileage after performing the required maintenance.

CAUTION

When the instrument displays a maintenance reminder, please pay attention to and perform maintenance in time. If not performed in time may damage key components of the vehicle, affecting the performance and reliability of the vehicle.



Traction Control System (TC)

Traction Control System (TC) is a crucial safety feature for motorcycles. It monitors wheel speed in real-time to prevent slippage of the drive wheel, enhancing vehicle stability and the riding experience. The system utilizes wheel speed sensors to collect wheel speed data, analyzes slip risk, and automatically adjusts engine power output to ensure optimal traction between the tire and the road surface. Its main functions include:

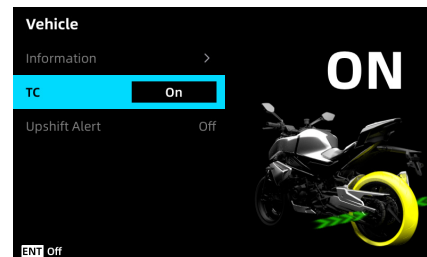
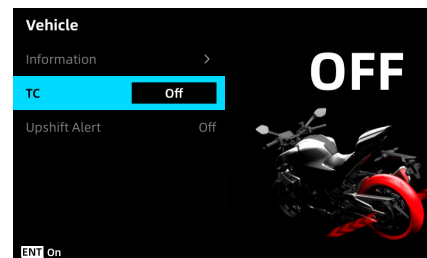
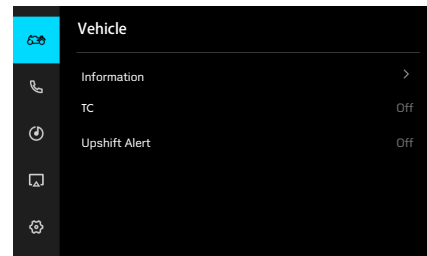
1. When wheel spin occurs, it controls engine power by reducing fuel injection volume, preventing tire slippage and maintaining vehicle stability and control.
2. When the motorcycle accelerates sharply, it can help to control the power output to avoid tire slippage, maintaining traction and stability.
3. When riding on wet roads, it can help to reduce the tire slippage, enhancing traction and stability.

Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

Press $\triangle$ or ∇ to select the **TC**, and press ENT to turn on or turn off the TC function.



NOTE

In professional racetracks or scenes requiring stronger power output, you can choose to turn off the TC function for a more direct driving experience. However, please avoid turning off the TC unnecessarily, especially frequent switching of the TC mode under complex road conditions may affect the stability of the vehicle. It is recommended to keep the TC function on to ensure driving safety.

Upshift Alert

The upshift alert function monitors engine RPM in real time, alerting the driver to shift gears at optimal moments. This effectively reduces gearshift shock while protecting critical components like the clutch. Properly configuring the upshift alert helps drivers quickly familiarize themselves with vehicle operation.

Default settings

The initial upshifting speed is 6500 RPM.

Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select the **Vehicle setting**, and press ENT to enter.

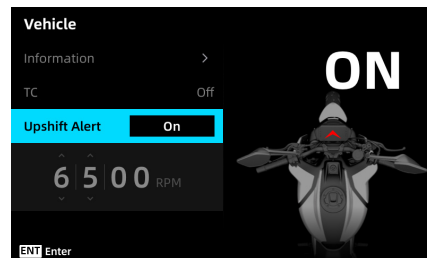
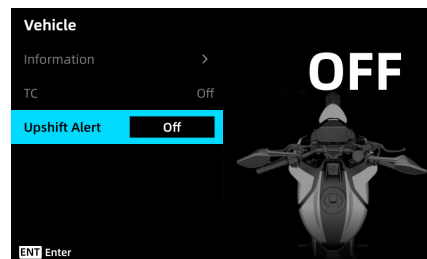
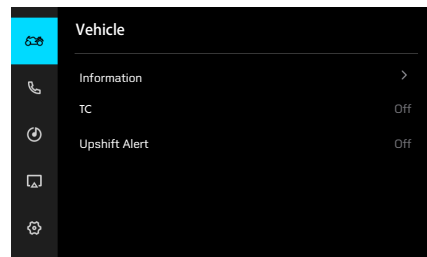
Press $\triangle$ or ∇ to select **Upshift Alert**, and press ENT to turn on or turn off the alert function.

Upshifting speed can be set after turning on upshift alert function.

Press ∇ to select upshifting RPM column, and press ENT to activate the column. At this time, the button icon ' $\wedge$ ' ' $\vee$ ' above and below the kilobit value '6' will light up.

Press $\triangle$ to adjust the kilobit value in positive order.

Press ∇ to adjust the kilobit value in reverse order.



Press ENT to switch between the kilobit value and hundred value.

After adjustment, press  to confirm your selection.

Phone

Before using the phone, users must ensure their phone has successfully established a Bluetooth connection with the helmet and the vehicle's instrument. Refer to the "Device Connection" section for connection steps.

Function Description

Contacts: Allows users to access contacts stored on their mobile phones via the vehicle's instrument, making it convenient to find and dial the numbers.

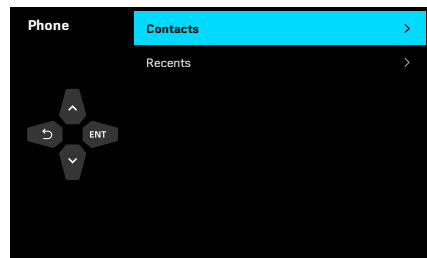
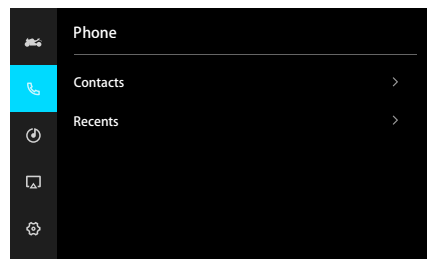
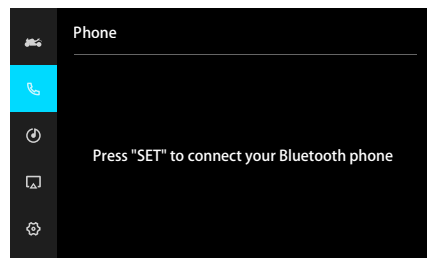
Recent Calls: users can view recent calls, including both outgoing and incoming calls, to quickly redial the phone numbers.

NOTE

Bluetooth connection: ensure a stable Bluetooth connection between your phone and the vehicle's instrument. If the connection is interrupted, re-pair the devices.

Device battery: Keep your phone sufficiently charged to ensure Bluetooth functions properly and avoid connection interruptions due to low battery.

Data synchronization: The contacts and recent calls require data synchronization between your phone and the vehicle's instrument.



Privacy protection: When using the contacts function, your phone's contact information will be transmitted to the vehicle system. Please ensure the security of your phone data to protect against privacy breaches.

Operational safety: Do not view contacts, recent calls, or make phone calls while riding. These actions should only be performed in a safe, parked position to ensure riding safety.

Technical support: If you encounter any issues during use, such as being unable to connect to your phone or experiencing abnormal functionality, please contact an authorized CFMOTO service center for assistance.

Contacts

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

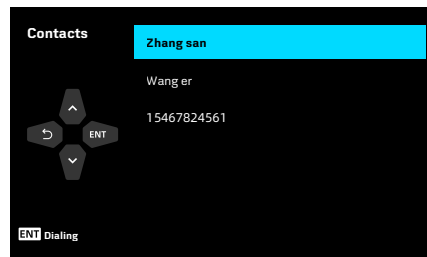
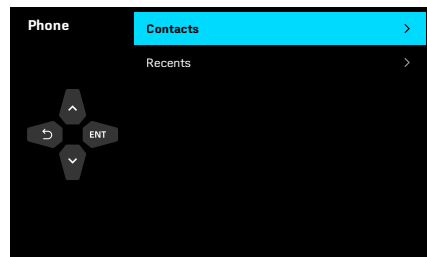
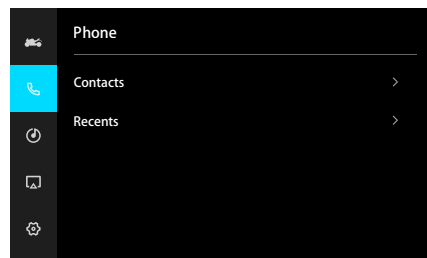
Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Phone**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Contacts**, and press ENT to enter.

Press $\triangle$ or ∇ to select the number, and press ENT 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.

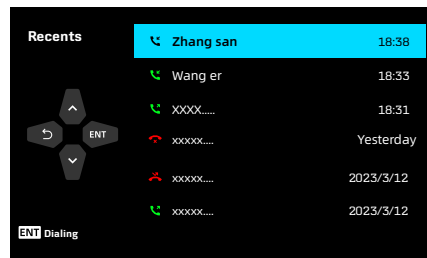
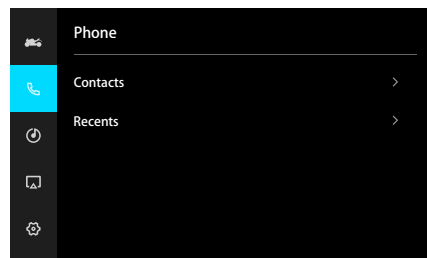
Operation steps

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Phone**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Recents**, and press ENT to enter.

Press $\triangle$ or ∇ to select the number in the latest calls, and press ENT to dial the number.



Music

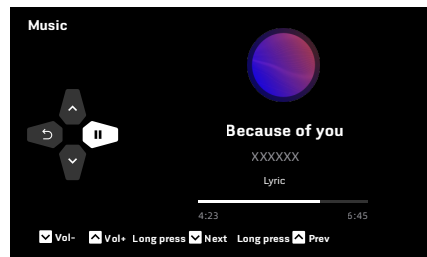
On the music interface, users can play songs on the phone through Bluetooth, and through the button on the LH handlebar to switch the previous song and the next song, or to pause, to continue, to adjust volume and use other functions.

Operation steps

Press ENT to enter the menu interface.

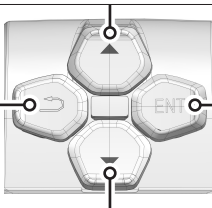
Press $\triangle$ or ∇ to select **Music**, and press ENT to enter.
Play songs on your phone.

Description: A small number of mobile phones may be unable to pause and play the previous/next music due to the 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, 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, long press it to switch the next song.

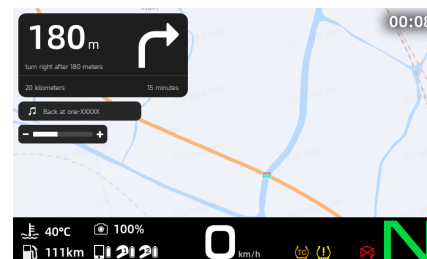
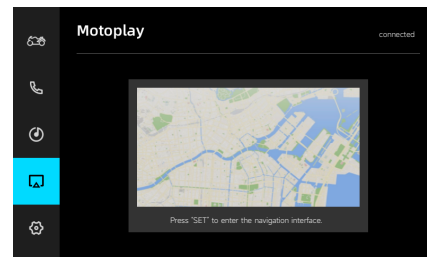
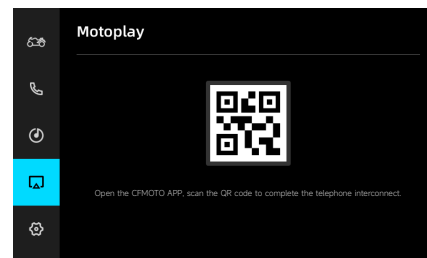
MotoPlay

The phone interconnection interface allows users to use the projection screen function after it is connected by easy connection or by QR code scanning. The easy connection can be achieved through MotoPlay on the CFMOTO RIDE App. QR code scanning needs the user to enter the MotoPlay interface and scan the QR code to realize the projection screen function.

Follow the steps below to scan the QR code:

1. Press ENT to enter the menu interface.
2. Press $\triangle$ or ∇ to select MotoPlay, and press ENT to enter.
3. Open the CFMOTO RIDE App to enter MotoPlay. Click 'Scan the QR code,' and scan the code to enter the projection interface.

When users close the CFMOTO RIDE App or the interconnection 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 be projected to the projection interface when the instrument is in the menu or main interface.



Instrument Settings

In the instrument settings, riders can adjust and set the following contents:

Device Connection

Information 1

Information 2

Auto Brightness

Unit

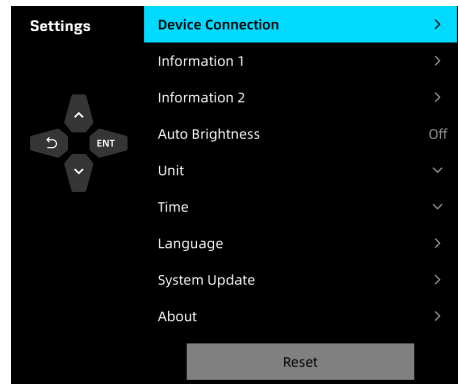
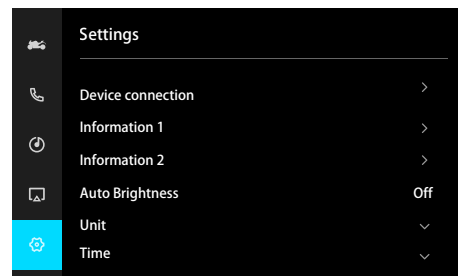
Time

Language

System Update

About

Reset



Device Connection - Mobile Phones

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

Follow these steps to connect your phone Bluetooth:

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

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Device Connection**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Phone**, press ENT to enter, and instrument will automatically search for the Bluetooth device.

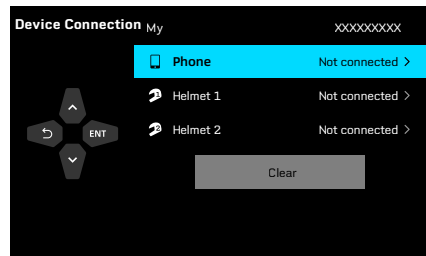
Press $\triangle$ or ∇ to select your equipment, and press ENT to connect.

On your phone, a connection message will display. Click to connect it. Wait until your equipment is connected.

After connection, 'connected' will show on your phone.

Disconnection

Press $\triangle$ or ∇ to select connected Bluetooth device, and press ENT to disconnect. Press ENT again to reconnect.



Device Connection - Helmet

Follow these steps to connect your helmet Bluetooth:

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

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Device Connection**, and press ENT to enter.

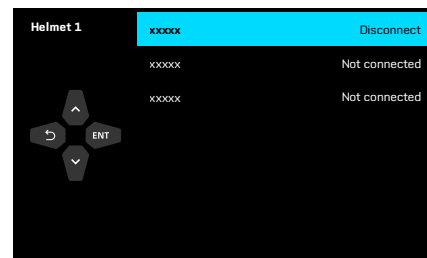
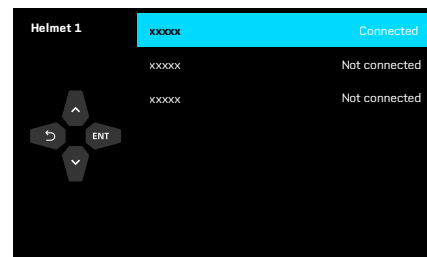
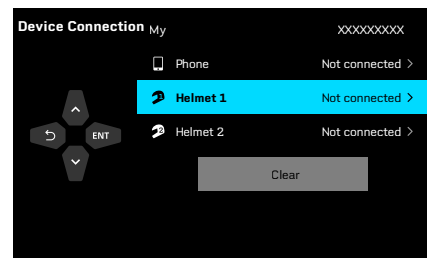
Press $\triangle$ or ∇ to select **Helmet 1 / Helmet 2**, press ENT to enter, and instrument will automatically search for the Bluetooth device.

Select your equipment. Wait until it is connected.

After connection, 'connected' will show on your phone.

Disconnection

Press $\triangle$ or ∇ to select connected Bluetooth device, and press ENT to disconnect. Press ENT again to reconnect.



Device Connection - Disconnection

Follow these steps to disconnect devices.

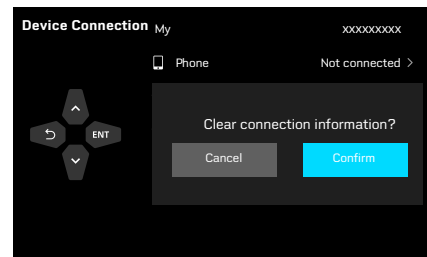
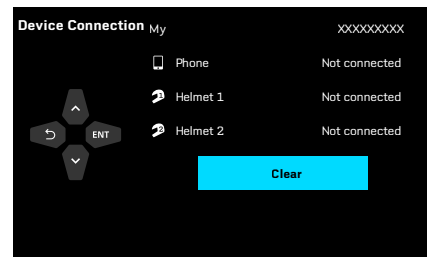
Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Device Connection**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Clear**, and press ENT to enter the popup window.

Press $\triangle$ or ∇ to select cancel/confirm, and press ENT to confirm.



Information 1

Select one message from Optional Information 1 to display on the main interface.

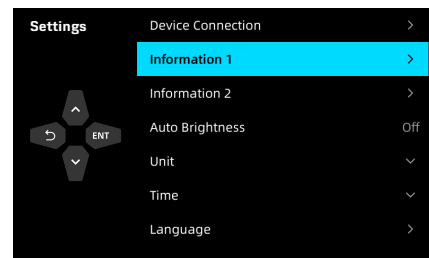
Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter the Settings interface.

Press $\triangle$ or ∇ to select **Information 1**, and press ENT to enter.

Press $\triangle$ or ∇ to select your wanted Information to display on the main interface, and press ENT to confirm.

Optional Information 1: ODO, TRIP 1, TRIP 2.



Information 2

Select one message from Optional Information 2 to display on the main interface.

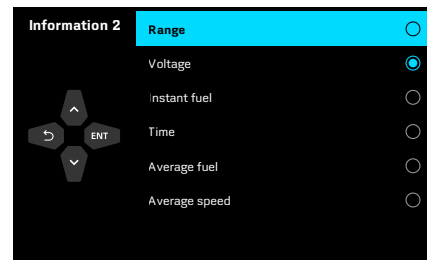
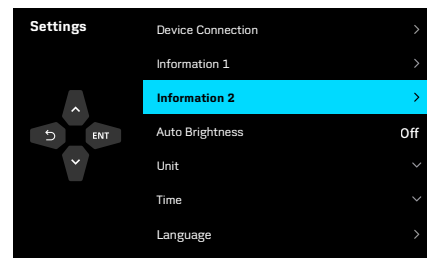
Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter the Settings interface.

Press $\triangle$ or ∇ to select **Information 2**, and press ENT to enter.

Press $\triangle$ or ∇ to select your wanted information to display on the main interface, and press ENT to confirm.

Optional information 2: Range, Voltage, Instant Fuel, Time, Average fuel consumption, Average speed.



Auto Brightness

Manually adjust the brightness of the instrument, or the instrument automatically adjusts its brightness according to the external environment light.

Press ENT to enter the menu interface.

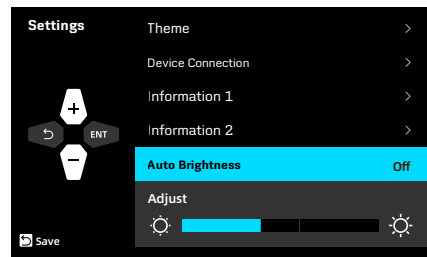
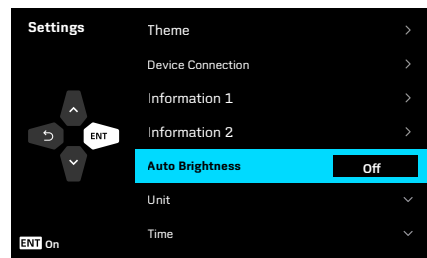
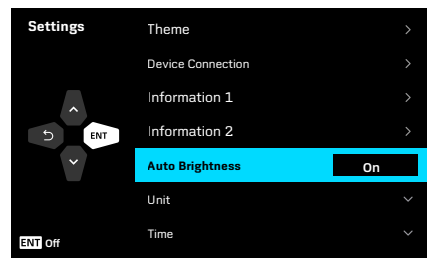
Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter Settings interface.

Press $\triangle$ or ∇ to select **Auto Brightness**, and press ENT to turn on or turn off automatic brightness adjustment.

After turning off the automatic brightness adjustment, the brightness can be adjusted manually.

Press $\triangle$ or ∇ to select brightness adjustment column, and press ENT to activate it.

Press $\triangle$ or ∇ to adjust brightness, and press $\curvearrowright$ to confirm your selection.



Unit

Change units of speed, temperature and tire pressure to suit your preference.

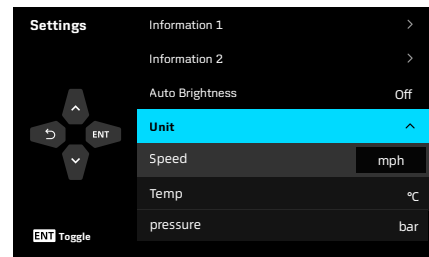
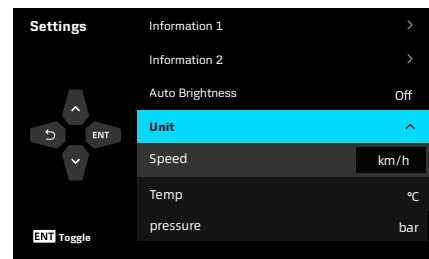
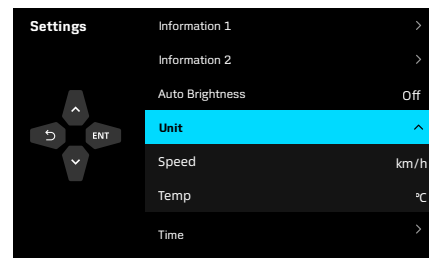
Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter Settings interface.

Press $\triangle$ or ∇ to select **Unit**, and press ENT to enter.

Press $\triangle$ or ∇ to select the unit you need to switch (speed / temperature / tire pressure), and press ENT to switch the unit.

km/h..... mph
°C..... °F
kPa..... bar psi



Time

You can adjust the time displayed on the main interface.

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Time**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Time Format**, and press ENT to switch (12 hours or 24 hours).

Taking 12-hours format as example, press ∇ to select the time adjustment column below the time format, and press ENT to activate the time adjustment column.

The button icon ' $\wedge$ ' ' $\vee$ ' will light up above and below the 'AM' in the time adjustment column.

Press $\triangle$ or ∇ to select the time period 'AM' or 'PM'. 24-hour time format lacks this option as the third image shows.

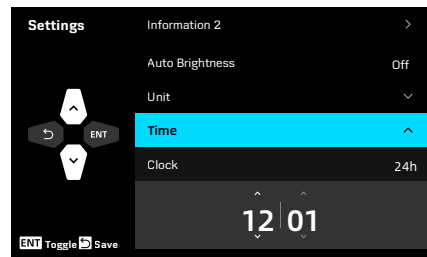
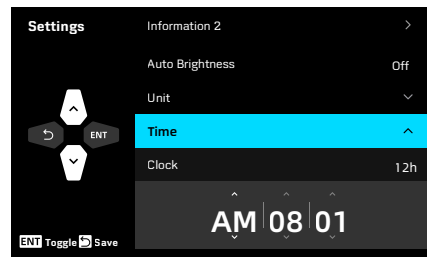
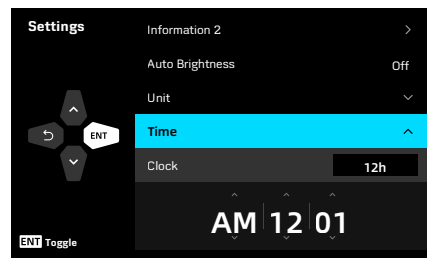
Press ENT to switch between (AM), hour (08), and minute (01). 24-hour format can be switched between hour and minute as the third image shows.

Press $\triangle$ or ∇ to adjust your wanted time, and press $\rightarrow$ to confirm your selection.

Press $\triangle$ to increase the number, and press ∇ to reduce the number.

Hour format switch range: 01-12

Minute format switch range: 00-59



Language

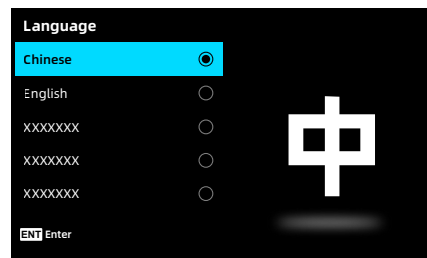
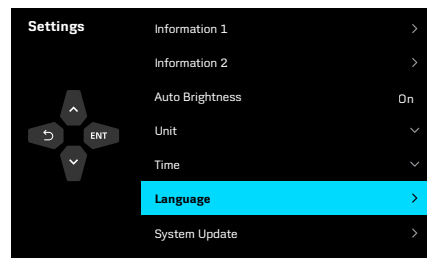
Adjust the instrument's language to suit your preference.

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Language**, and press ENT to enter.

Press $\triangle$ or ∇ to select your language, and press ENT to confirm.



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  to disregard the upgrade window. Then, when you are ready, enter the system settings to perform the upgrade. Follow these steps:

Press ENT to enter the menu interface.

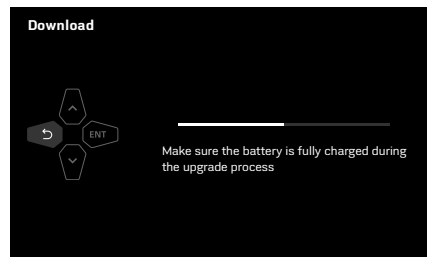
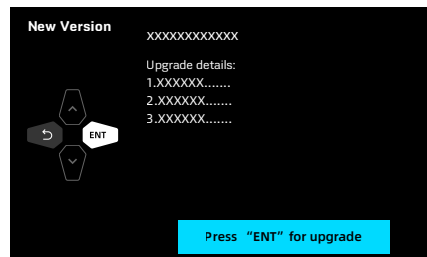
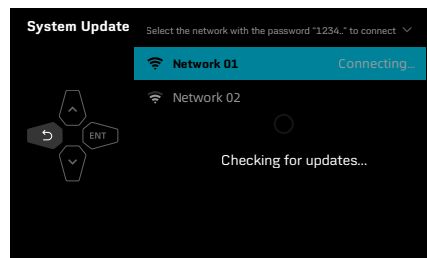
Press  or  to select **Settings**, and press ENT to enter.

Press  or  to select **System Update**, and press ENT to enter, the system will automatically search for available networks.

Press  or  to select your network, enter the password and press ENT to connect.

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

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



NOTE:

1. Ensure the battery is fully charged before you try to upgrade the system.
2. Don't turn off the vehicle power supply while the system updates. If vehicle power is turned off, installation of the update will be disrupted. You should download the installation package again.
3. Downloading the system update will fail if the Internet is disconnected for 30 seconds or more.
4. You can cancel a download in progress by pressing , which will return you to the New Version interface (see the second image on the previous page).
5. If the download fails, press ENT to download the installation package again.
6. Do not turn off the power supply during the upgrade. Otherwise the instrument be may damaged.

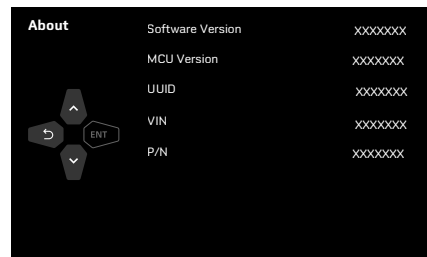
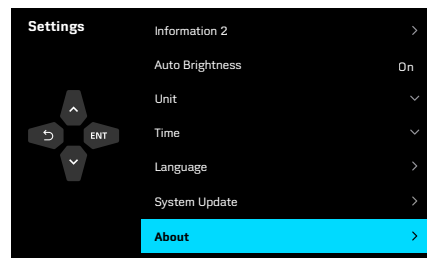
About

On the vehicle information interface, you can check the current software version, MCU version, UUID, frame number, and parts code.

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ to select **Settings**, and press ENT to enter Settings interface.

Press $\triangle$ or ∇ to select **About**, and press ENT to enter.



Reset

You can reset all instrument settings.

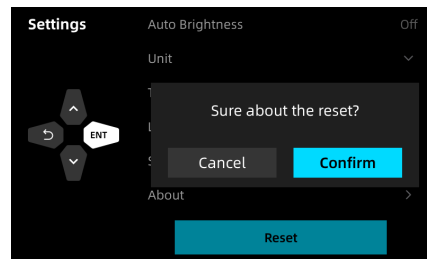
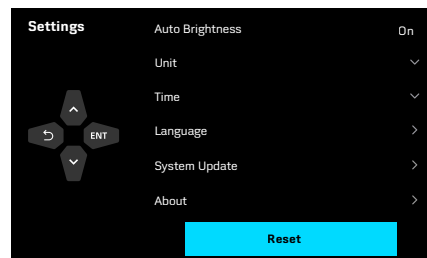
NOTE: This function does not reset the odometer or related functions.

Press ENT to enter the menu interface.

Press $\triangle$ or ∇ key to select **Settings**, and press ENT to enter.

Press $\triangle$ or ∇ to select **Reset**, and press ENT to enter the popup window.

Press $\triangle$ or ∇ to select **Cancel** or **Confirm**, and press ENT to enter your choice.



OPERATING YOUR VEHICLE

Break-in Period

The break-in period for this vehicle is 1000km. Maintain the vehicle according to the break-in period requirements.

The following regulations should be observed during a break-in period:

1. Do not run the engine at high speeds immediately when the it is just started. Allow the engine to warm for 2 ~ 3 minutes at idle speed and let the lubricant flow into all the engine' parts.
2. Do not run the engine at high Rpm when the vehicle is in neutral gear.
3. During the break-in period, CFMOTO suggests the top engine speeds as below:

Odometer	Maximum engine RPM
0 km ~ 500 km	4000 r/min
500 km ~ 1000 km	6000 r/min

DANGER

New tires are slippery and can cause loss of control and injury. The specified tire pressure must be guaranteed during a 1000 km break-in period. During the break-in period, avoid sudden or hard braking, sudden acceleration or sharp turns.

CAUTION

During the break-in period, the brake system pads and discs may not have reached optimal performance. When brake pads and discs are new, ride cautiously with plenty of space around your vehicle so that you can safely avoid traffic situations that require emergency stopping.

Daily Safety Inspection

Inspecting the following items before daily riding will help keep your vehicle safe and reliable. If anything abnormal appears, please refer to the Maintenance and Adjustment section or contact your dealer. Do not operate 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 thickness of rear brake disc and inspect for any dirt or damage.
Chain and Sprockets	Inspect the drive chain and sprockets for dirt and wear, and inspect their tension to see whether it is proper.
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 is within the standard range.
Front brake	Inspect the thickness of front brake pad. Inspect thickness of front brake disc and inspect 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 to see whether the fuel is enough.
Rearview mirrors	Inspect the rear view 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 related driver's 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 a good ventilation system. The exhaust generated during engine operation may cause people to lose consciousness or even cause deaths.

Starting

Sit on the vehicle supported with the side stand up;

Sit on the vehicle supported with the side stand up.

Insert the key and turn to this position 'O'.

Ensure the start/stop switch is in the middle position 'O'.

Shift into neutral gear.

Press the start/stop switch to position 'I' to start the engine.

CAUTION

Engine running at high RPMs in low temperatures will impact the lifespan of engine. Always warm the engine at a low speed.

Before the instrument self-inspection, do not start the vehicle with the start switch.

The vehicle is equipped with a clutch switch. Pull the clutch lever and shift into a forward gear with the side stand up, the vehicle can be started.

The vehicle is equipped with a side stand switch. When the gear is in Neutral position with the side stand up, the vehicle can be started.

If shifting into a gear with the side stand down, the engine will turn off.

Do not press the start switch for more than five (5) seconds. 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 longer than 30 minutes, for long-time idling will cause battery temperature to be too high and this effects the battery life.

Starting Off

Grip the clutch lever, put the vehicle into gear 1, then slowly release the clutch lever while at the same time gently rotating the throttle.

Shifting, Riding

Grip the clutch lever and release the throttle.

Shift the gearshift lever upward for higher gears as required.

Release the clutch lever and slowly rotate the throttle at the same time to complete the gear shift.

Hold the handlebar at all times with both hands when driving with the throttle open.

WARNING

Avoid any abrupt load alterations or strong brake operation, which can cause the vehicle loss of control.

Adjust the speed according to road conditions and situation around you.

When the engine RPM is high, do not shift into lower gears. Release the throttle first and reduce the engine speed.

All adjustments for vehicle operation should be made when vehicle is being parked.

The passenger must be seated properly on the passenger seat with feet on the rear foot pedals, wearing a helmet and with other safety protection, and holding onto the operator or grab the handle.

Comply with the local traffic regulations for minimum passenger age.

Comply with all local traffic regulations, ride preventively and cautiously to detect any danger as early as possible.

When the tires are in a low temperature, their road grip performance is reduced. Be cautious and ride at an average speed until the tires are at their available temperature.

Do not exceed the maximum full load, which includes the motorcycle, driver, passenger and luggage.

 WARNING

Luggage sliding will affect the riding performance, inspect the luggage to see whether it is fixed tightly on the vehicle, and to ensure that the width does not exceed 0.15m from the handlebar for both 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 gear shifting may lead to damage of the gear box.

Tighten the throttle according to the road conditions and climate. Do not shift gears and be cautious to tighten the throttle especially during turnings.

Brake

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

Finish braking before turning, and shift to a lower gear according to the speed required.

On a long downhill ride, please leverage the brake force of the engine and shift to lower gears, but do not allow the engine to operate with high RPM. When using engine's brake force, it helps to reduce the braking force required of the brake system, and the brake will not be overheated.

WARNING

Moisture and dirt will impair the brake system. Brake carefully several times to dry out moisture and remove dirt from the brake pads and discs.

If the hand brake lever and foot brake lever feel soft, stop riding until the brake system is fully inspected and the problems are eliminated.

Take your foot off the foot brake lever when you are not braking. Extended braking will cause the brake pads to overheat and excessively wear, which will affect their service life and safety.

When carrying a passenger or luggage, the required braking distance to stop will increase. Please adjust your braking time according to the vehicle load.

When the ABS is enabled, you can achieve maximum braking power - even on low-grip surfaces, such as sandy, wet or slippery roads - without locking the wheels. When the ABS fails, emergency braking may lock the wheels. Before riding the vehicle, make sure the ABS works normally. Under certain circumstances, the ABS may increase the braking distance required to stop the vehicle. Adjust your braking according to the riding and road conditions.

Parking

Stop the vehicle with brake.

Grip the clutch lever, shift the gear to Neutral, then slowly release the clutch lever.

Press start/stop switch button to this position '

CAUTION

Most of the electrical parts will not be disconnected when the stop switch is used to turn off the engine but the ignition lock is connected, thus causing the battery to discharge. Always use the ignition lock to turn off the engine. The stop switch should be used only in an emergency.

Turn the ignition key to this position '

Use a side stand to support the vehicle on a firm and level ground.

Turn the handlebar to left, press down the key and rotate it to this position '

Remove and take away the key.

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 motorcycle 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 their pressure and the wheel balance.

Fuel: To 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 and obey the relevant laws and regulations. Electric motorcycles are banned on expressways in some parts unless they are approved by traffic authorities and have the relevant skills and protection conditions.

MAINTENANCE

Periodic and careful maintenance will help keep your vehicle in its 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 an inspection reveals the need for replacement 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 contaminants are collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level. If it continues to rise, stop using the vehicle and see your dealer.

Improper Use Definition

CFMOTO defines improper use of the vehicle as:

- Riding in extreme environments (such as dusty or muddy places, or areas near saltwater).
- Riding in extreme climates (such as places with extreme temperatures or high moisture).
- Racing or race-style use of high RPM.
- Running at low speed for a long time, and carrying heavy loads.
- Idle the engine for a long time.
- Starting and stopping the vehicle frequently. Short-distance operation in cold weather.
- Commercial use.
- Riding on the uneven or bumpy roads.

If this vehicle is used in a way that matches any of these definitions, decrease 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	API SL and higher SAE 10W-40 JASO MA2 synthetic oil	Inspect the oil level from the oil view window.
Brake fluid	DOT4	Keep the level between upper and lower lines.

Break-In Maintenance Chart

Item		Break-In Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Engine					
■	Oil and oil filter	-	600	1000	Replace.
	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 brake hoses for damage and to see whether they are sealed.
	Brake lever	-	600	1000	Inspect free play.

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

■ = An authorized dealer should perform repairs that involve this component or system.

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 improperly.

■ = An authorized dealer should perform repairs that involve this component or system.

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 improperly.

■ = An authorized dealer should perform repairs that involve this component or system.

Periodic Maintenance Chart

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Engine					
■	Oil and oil filter	6M	3000	5000	Replace.
■	Clutch	-	3000	5000	Inspect and repair or replace if necessary.
	Idle	-	3000	5000	Inspect.
■	Coolant	24M	21000	35000	Replace.
	Throttle	-	3000	5000	Inspect and adjust if necessary.
■	Throttle body	-	3000	5000	Clean.
▲ ■	Air filter elements	-	3000	5000	Clean.
		24M	12000	20000	Replace (Inspect promptly after driving under improper conditions and replace if necessary).
■	Spark plug	-	6000	10000	Inspect and replace if necessary.
		-	12000	20000	Replace.
■	Valve clearance		24000	40000	Inspect and adjust if necessary.

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

■ = An authorized dealer should perform repairs that involve this component or system.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Electrical system					
■	Functions of electrical parts	12M	6000	10000	Inspect and repair or replace if necessary.
	Battery	6M	3000	5000	Inspect and recharge if necessary.
	Fuses or circuit breakers	6M	3000	5000	Inspect and replace if necessary.
■	Wires	12M	6000	10000	Inspect for any damage and bending when they are being set.
Wheels					
	Tire condition	12M	6000	10000	Inspect and repair or replace if necessary.
	Tire pressure	12M	6000	10000	Inspect and replenish if necessary.
■	Wheel bearings	-	6000	10000	Inspect and repair or replace if necessary.

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

■ = An authorized dealer should perform repairs that involve this component or system.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Brake					
	Front and rear braking systems	12M	6000	10000	Inspect and repair or replace if necessary.
	Brake discs	12M	6000	10000	
▲	Brake pads	12M	6000	10000	
	Brake fluid level	12M	6000	10000	Inspect and replenish if necessary.
■	Brake hoses	12M	6000	10000	Inspect them to see whether they are damaged and sealed.
	Brake pedals	12M	6000	10000	Inspect free play.
■	Brake fluid	24M	-	-	Replace.

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

■ = An authorized dealer should perform repairs that involve this component or system.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Suspension					
■	Suspension system	-	3000	5000	Inspect and repair or replace if necessary.
■	Front and rear shock absorbers	12M	6000	10000	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	6000	10000	Inspect and repair or replace if necessary.

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

■ = An authorized dealer should perform repairs that involve this component or system.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Cooling system					
	Coolant level	12M	6000	10000	Inspect and replenish if necessary.
■	Radiator fan function	12M	6000	10000	Inspect and repair or replace if necessary.
■	Cooling hoses	12M	6000	10000	
Sprocket and chain					
▲	Chain lubrication	-	600	1000	Inspect immediately after riding in a rainy day.
▲	Chain tightness	-	600	1000	Inspect and adjust if necessary.
▲	Wear of chain, rear sprocket and engine sprocket	12M	6000	10000	Inspect and replace if necessary.
■	Chain guard	12M	6000	10000	Inspect and replace if necessary.

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

■ = An authorized dealer should perform repairs that involve this component or system.

Item		Periodic Maintenance Interval (Service whichever interval comes first)			
		Calendar	Miles	Km	Notes
Other parts					
■	Fault control memory	12M	6000	10000	Read with DSCAN.
■	Movable parts	12M	6000	10000	Lubricate, and inspect their flexibility.
■	Bolts and nuts	12M	6000	10000	Inspect their firmness.
■	Cables	6M	3000	5000	Inspect them for damage, bending and inspect their setting.
■	Pipes, ducts, hoses and sleeves	12M	6000	10000	Inspect them to see whether they have cracks, are sealed and set corrected.
■	Exhaust pipe gasket	6M	3000	5000	Inspect exhaust connecting parts for leakage, and inspect gasket for damage. Replace it if necessary. After disassembling the muffler, replace gasket.

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

■ = An authorized dealer should perform repairs that involve this component or system.

CLUTCH LEVER FREE PLAY

Inspect the flexibility of the clutch lever.

Straighten the handlebar.

Slowly apply the clutch lever until the resistance is evident.

Measure the free play at location A: 0.079 in. (2 mm) is appropriate.

WARNING

Inadequate free play for the clutch lever can strain the clutch cable and affect clutch engagement, causing slippage and excessive wear.

Inspect the free play every time before running the engine.

Set the free play as stipulated when necessary.

Fine adjustment of clutch lever free play

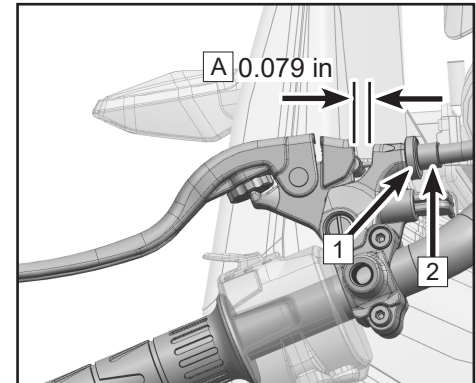
Straighten the handlebar.

Flip over the clutch cable waterproof sleeve.

Loosen lock nut **1**.

Rotate the adjusting nut **2** for adjustment.

Tighten the lock nut **1**.



GEARSHIFT LEVER ADJUSTMENT

The gearshift lever **1** is adjustable to suit personal riding habits.

The thread exposure length "D1/D2" at both ends of the middle connecting rod is adjustable:

Factory standard:

D1 / D2: 0.28 in. (7 mm)

Adjustment range:

D1 / D2: Thread exposure allowed: 0.16 ~ 0.39 in. (4 ~ 10 mm)

Adjustment

Loosen the lock nuts **2** at both ends.

Rotate the connecting rod **3** to adjust the height of the gearshift lever.

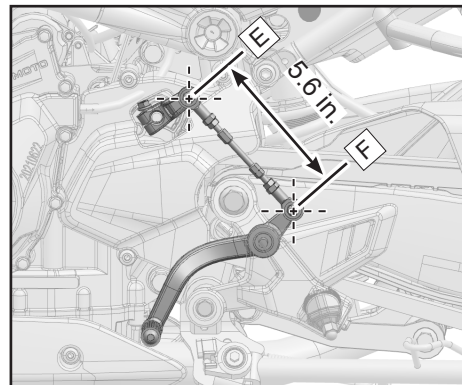
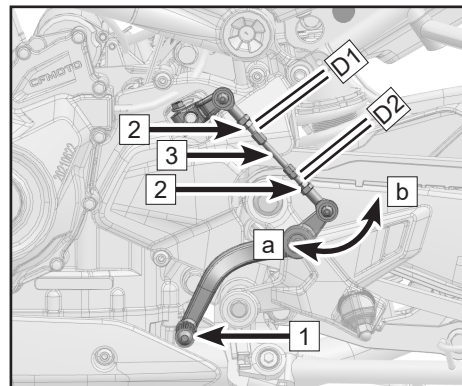
Rotate the connecting rod **3** clockwise along direction "a" to raise the gearshift lever.

Rotate the connecting rod **3** counterclockwise along direction "b" to lower the gearshift lever.

Tighten the lock nuts **2**.

Torque: 4.4 ft-lb. (6 N•m)

Gearshift Lever Standard Height



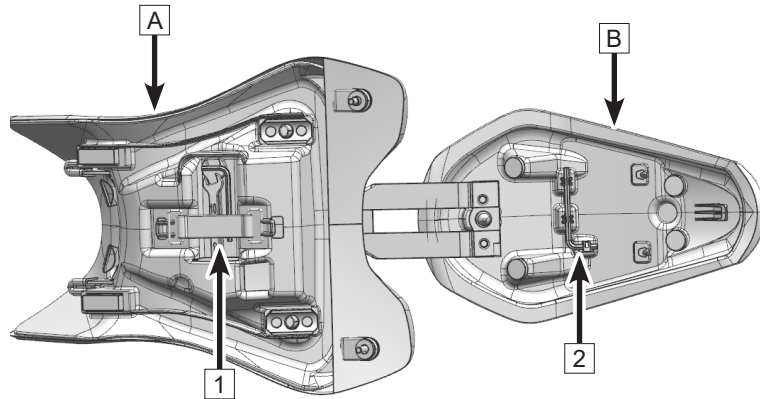
Factory standard height: the perpendicular distance between the middle points E and F is 5.6 in. (141 mm).

Adjustment range: 5.3 ~ 5.8 in. (135 ~ 147 mm)

TOOL KIT

The tool kit includes some basic maintenance tools. The front seat assembly **A** is designed with a storage compartment **1** where the tool kit can be placed if needed. The rear seat assembly **B** has a slot **2** to store a hex key from the tool kit.

NOTE: The factory ships a tool kit with the vehicle. If the tool kit was not supplied with your vehicle, your dealer can help you find one.



FUEL SYSTEM

Fuel Tank

Fuel tank volume: 3.7 gal (14 L) $\pm$ 0.13 gal (0.5 L)

When refueling, please request the gas station attendant to set the fuel nozzle to a small flow state for tank filling. Do not exceed the maximum fuel level to prevent overflow.

1: Maximum fuel fill level

WARNING

Due to the volatile and expanding characteristics of fuel, using the nozzle at a high flow rate will cause a large amount of fuel to spill out of the fuel tank quickly, leading to environmental contamination and potential safety accidents.

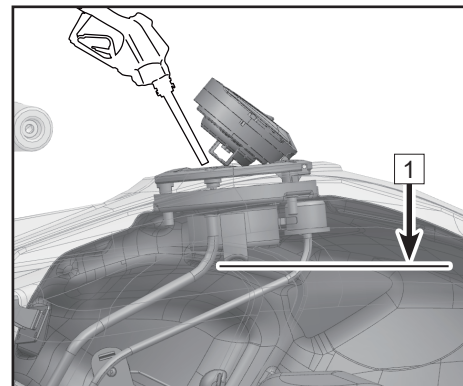
Overfilling may damage the tank, resulting in fuel leakage and triggering major safety incidents.

NOTE

Selecting gas stations: Choose reputable branded stations to ensure fuel quality conforms to vehicle requirements.

Static electricity protection: Before refueling, ensure the motorcycle engine is off. Avoid operating electronic devices during fueling to prevent static sparks.

Periodic maintenance: If the vehicle has not been used for a long time, inspect the fuel tank and lines for leaks or degradation. Replace or repair in time if detected.



Extreme weather: Fuel expansion/contraction intensifies in high/low temperatures. Exercise particular caution with refueling volumes under such conditions.

Cleaning: When washing your vehicle, do not wash the fuel tank lock with high-pressure sprayer, especially avoiding prolonged or deliberate targeting of the fuel tank lock. If high-pressure sprayer is necessary, ensure a safe distance from the fuel tank lock to prevent water ingress into the fuel tank. This effectively prevents potential moisture damage to both the fuel tank lock and fuel tank, ensuring the vehicle's safety and reliability.

** DANGER**

Gasoline is flammable, so the 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 temperature rises, fuel can heat and expand, and then may spill over and damage motorcycle 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 maintaining 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.

Fuel Requirements

The recommended fuel for your vehicle is E5 or 95(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 95 or higher.

CAUTION

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

ENGINE ASSY

For the engine, transmission, clutch and other parts to work properly, make sure that the oil level is between the upper and lower lines from the oil view window, and check and replace the oil according to the Periodic Maintenance Chart. Long-time lubrication will not only produce dirt and metallic impurities, but 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

Make sure the vehicle is turned off.

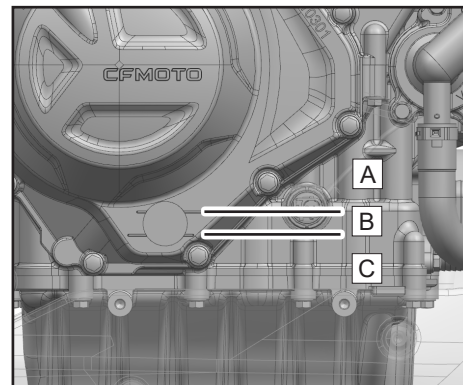
If the running was operated prior to turning off, please wait for 2 to 3 minutes for the oil to settle.

Support the vehicle vertically on a level surface, and then view the oil level inspection window:

If the oil level is at area A, drain out the oil until the level is within area B;

If the oil level is at area B, it is at the proper level;

If the oil level is at area C, or no oil level can be viewed, fill the engine with the recommended oil until the level is within area B.



Oil and Oil Filter Replacement

Park the vehicle on level ground.

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.

Remove bolts .

Remove the engine LH protective panel .

Place an oil basin under the oil drain.

Remove the magnetic oil drain bolt and washer .

Completely drain out the used oil.

WARNING

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

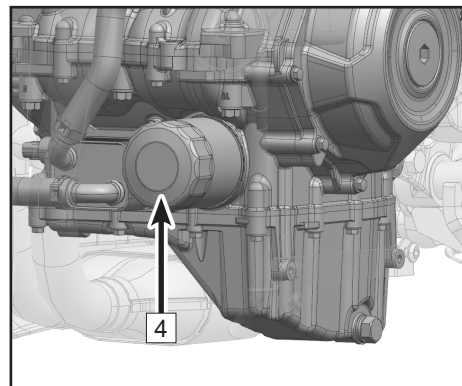
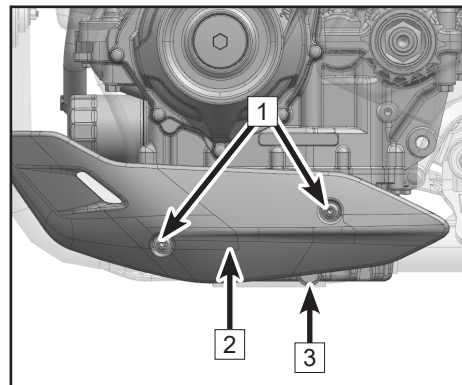
Replace the oil filter .

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

Replace a new washer, and remount the magnetic oil drain bolt and washer . Tighten to the specified torque.

Torque: 25.8 ft-lb. (35 N·m)

Remount the engine LH protective panel  and bolts .



Remove the oil filler screw plug [5].

Fill with 2.64 qt. (2.5 L) synthetic oil of API SL and higher SAE 10W-40 JASO MA2.

Remount the oil filler screw plug.

Idle the engine for several minutes, allowing the oil to flow into the oil filter.

Turn off the engine.

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

CAUTION

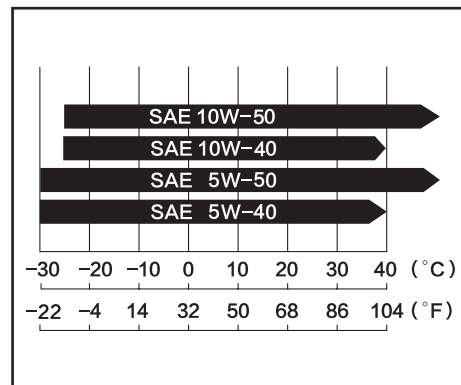
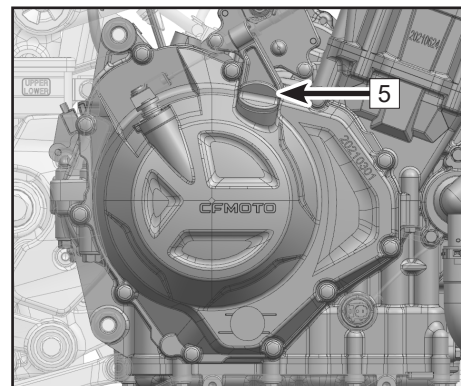
Inadequate oil or low-quality oil will lead to premature engine wear. To ensure the optimum performance of oil, do not mix different kinds of oil. Replace oil as necessary.

Oil Capacity

Replace oil and oil filter: 2.64 qt. (2.5 L)

CFMOTO recommends oil with API SL or higher. JASO MA2 synthetic oil is the primary choice and JASO MA synthetic oil 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 chart.



Spark Plug

Spark plugs should be replaced in accordance with the Periodic Maintenance Chart. Replacement should only be performed by an authorized dealer.

Spark plug type: TORCH BN8RTI

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

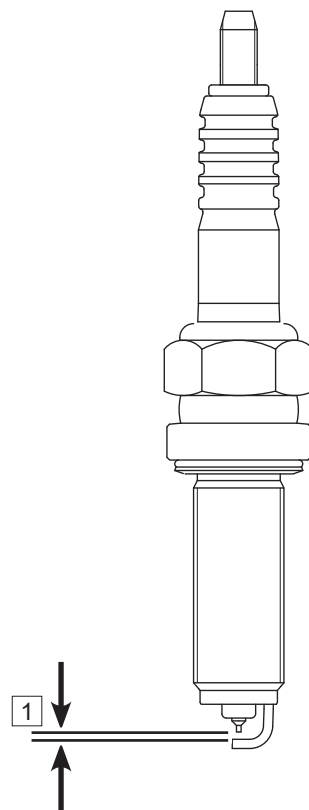
Torque: 8.8 ~ 11.1 ft-lb. (12 ~ 15 N•m)

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 recalibration of the ECU with DSCAN.

DANGER

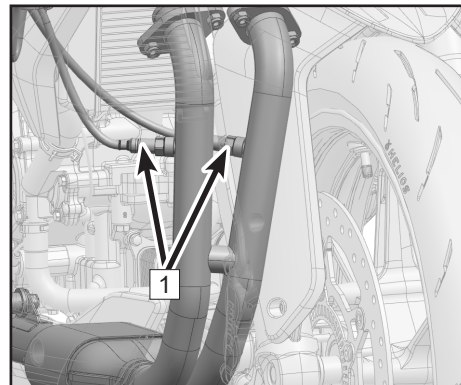
Improper adjustment of idling may have serious consequences.



AIR INTAKE AND EXHAUST SYSTEM

Exhaust Detecting System

Exhaust detecting system depends on two oxygen sensors **1** mounted on exhaust pipes, and they can detect the air & fuel combustion degree by measuring oxygen density and transferring it as an electrical signal to the ECU. If the ECU thinks 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 allows fresh air into the engine to mix with fuel for combustion. 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 achieved, engine power is greatly reduced, or there are abnormal engine noises.

An exhaust valve expels the waste from combustion to help dissipate heat. Have a dealer inspect the exhaust valves in accordance with the Periodic Maintenance Chart. Also, have the exhaust valves inspected if acceleration is powerless, if the engine slightly backfires when you sharply apply the throttle, there is abnormal noise from exhaust pipes, or the vehicle fails to start.

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

Valve Clearance

The engine valves and valve seats will wear during operation and need adjustment after being used for a period of time.

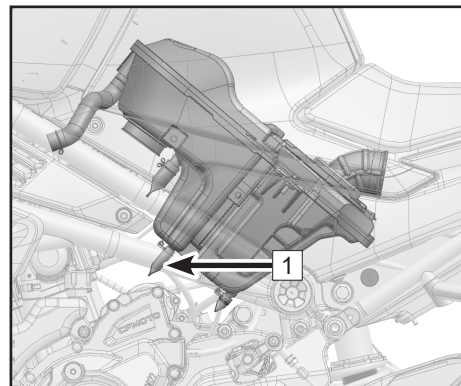
WARNING

When valves and valve seat tappets are worn, and adjustment of the valve clearance is not performed, it will eventually result in no clearance or keep the valves 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 cleaned in accordance with the periodic Maintenance Chart. When driving in dusty, rainy, or muddy conditions, the air filter element should be serviced more frequently than the recommended interval in the periodic Maintenance Chart. Due to the vehicle's design, air filter service should be only performed by an authorized dealer.

Indicator hose **1** alerts to excessive dirt, residual oil or water in the air filter.



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 pipe 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. Replenish the coolant 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.

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 Level Inspection

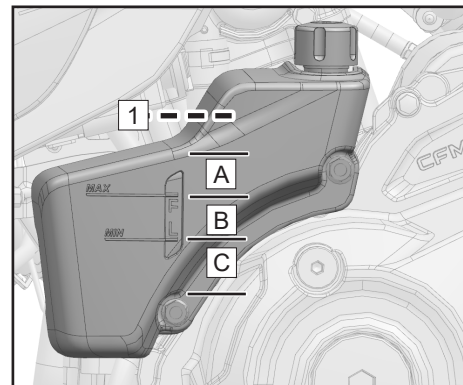
Support the vehicle vertically on a level surface.

Inspect the coolant level in the reservoir **1**.

If the level is at area 'A': Drain out the redundant coolant until it is at area 'B'.

If it is at area 'B': The coolant is at the proper level.

If the level is at area 'C' or cannot be seen: Replenish it with the same coolant until the level is at area 'B'.



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 cover, radiator hoses, reservoir or other cooling-related parts.

In the event of scalding, wash the affected area immediately with running water for more than 10 minutes until pain cannot be felt and see a doctor.

Coolant Replenishment

Open the reservoir cover and replenish coolant to area B shown on the previous page.

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 coolant may lead to engine damage.

TIRES AND CHAIN

This vehicle only uses tubeless tires, rims, inflating valves, and Bluetooth tire pressure sensor.

Tire Specifications

Tire specifications	Front wheel	110/70 ZR17 M/C 54W	110/70 R17 M/C 54H (alternative)
	Rear wheel	150/60 ZR17 M/C 66W	150/60 R17 M/C 66H (alternative)
Tire pressure	Front wheel	29 Psi (200 kPa)	32.6 Psi (225 kPa) (alternative)
	Rear wheel	31.9 Psi (220 kPa)	35.5 Psi (245 kPa) (alternative)

Tire pressure inspection

Regularly check tire pressure: Periodically inspect the tire pressure with a tire pressure gauge, and adjust tire pressure accordingly.

Check pressure when tires are cold: It is recommended to check tire pressure when tires are cold.

Environmental impact: Tire pressure is affected by changes in environmental temperature and altitude. If the temperature and altitude drastically change during riding, tire pressure should be adjusted and inspected accordingly.

Recommendations

Utilizing the tire pressure monitoring system: You can access tire pressure and temperature data through the following methods:

Enter the Instrument Menu > Vehicle Setting > Vehicle Information > Basic information, to check the tire pressure and tire temperature in real time (see Instrument Menu for details).

Professional adjustment: If abnormal tire pressure is detected, contact an authorized service center for inspection and adjustment by professional technicians.

Tread Depth Inspection

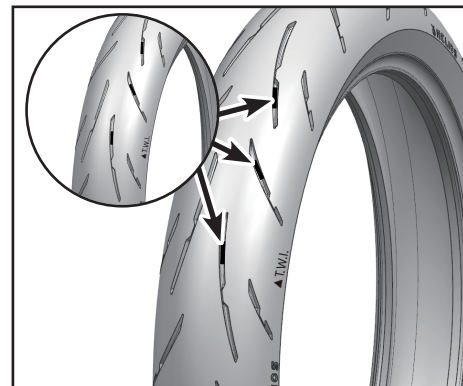
▲ T.W.I. Minimum Height: 0.03 ~ 0.039 in. (0.8 ~ 1 mm)

Replacement recommendation: Inspect the tread wear indicator marks. If the wear indicators are visible, it indicates the tire has reached its wear limit. It is recommended to replace the tires promptly to ensure driving safety.

Regulatory requirements: Most countries have their own regulations on minimum tread depth. Please follow local regulations.

WARNING

Using excessively worn tires may result in accidents, causing personal injury or death.



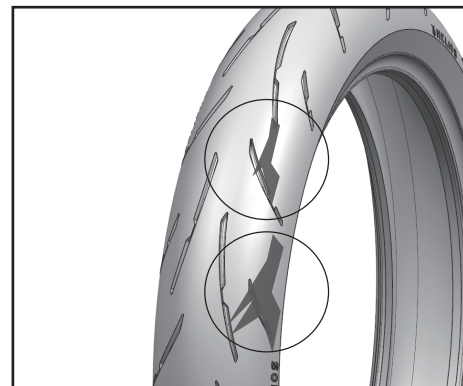
Tire Visual Inspection

Damage Inspection

Inspect tires for cuts, cracks, exposed fabric, tire threads, or embedded objects (nails, foreign debris) in sidewalls or treads. Simultaneously inspect the tire sidewalls for bulges or swelling.

WARNING

If the tire is punctured and repaired, please do not ride the vehicle over 60 mph (100 km/h) until 24 hours after the repair, and the speed cannot exceed 80 mph (130 km/h) at any other time.



Abnormal Wear

Observe the tire tread for uneven wear conditions, including excessive wear on one side, excessive wear in the center, or excessive wear at the edges.

Maintenance Specifications

It is recommended that tires be replaced by an authorized service center. Refer to this section for recommended tires, tire pressure, and minimum tread depth.

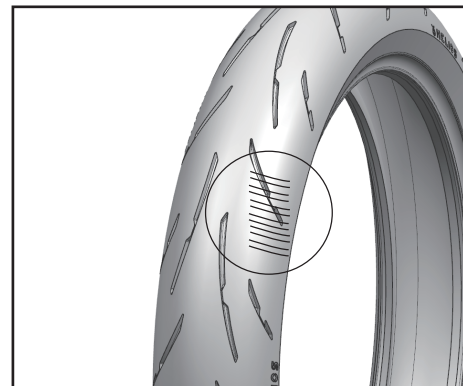
Whenever replacing tires, follow these guidelines:

Use recommended tires or equivalent products with the same size, construction, speed rating, and load capacity.

The front and rear tires should come from the same manufacturer with the same tread pattern.

Do not mount an inner tube inside a tubeless tire. Excessive heat may cause the inner tube to burst.

This motorcycle must exclusively use tubeless tires. The rims are designed for tubeless tire application. During hard acceleration or braking, tube-type tires will slip on the rims, causing rapid deflation.



WARNING

Improper tires may affect vehicle handling and stability, leading to accidents that cause injury or death. Be sure to use the tire and rim sizes and types recommended in this manual.

⚠ CAUTION

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 100 miles (160 km). Avoid sudden braking, heavy acceleration, and high-speed sharp turns during the break-in period.

Below the valve is the tire pressure monitoring system. Avoid damaging the system when adjusting tire pressure or performing tire maintenance. Any substances that may obstruct airflow to the Bluetooth tire pressure sensor—such as tire sealants, puncture-resistant fluids—can cause irreversible damage to the sensor.

⚠ 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 the side stand to park the vehicle for a long time in winter. Park the vehicle using its frame so the tires can be free of weight. Do not allow tires to sink into snow or ice for a long time.

When parking the vehicle for a long time outside in winter, it is recommended to put objects that can preserve heat (such as branches, paper or sand) under the tires.

CFMOTO recommends that tires be stored at temperatures above 0°C. Before replacing tires, semi-hot melt tires should be kept for more than 24 hours at temperatures above 0°C, and hot melt tires should be kept for more than 24 hours at temperatures above 10°C.

 CAUTION

At room temperature, rubber performs well in terms of elasticity and toughness. As the ambient temperature decreases, rubber loses elasticity and becomes glassy at a specific temperature known as the glass transition temperature.

The glassy state of rubber is reversible. If tires have glassy rubber without other physical damage, the recommendations above will raise the temperature of the rubber and restore its elasticity.

Semi-hot melt and hot melt tires use special synthetic rubbers. The glass transition temperature of these rubbers is 20°C to 40°C higher than that of ordinary rubbers, making them more prone to the glassy state.

Rubber becomes more fragile in the glassy state. If the tire receives a slight impact or blow, rubber molecules can fracture, producing dendritic cracks on the tire surface. This damage is due to improper maintenance or storage, not a quality problem, so CFMOTO will not be responsible for the damage.

Drive Chain Inspection

The looseness and lubrication of the drive chain must be inspected daily before riding and safety cautions in the Periodic Maintenance Chart must be observed to prevent excessive wear. If the chain becomes badly worn or maladjusted, it will cause the chain to be too loose or too tight.

If the chain is too tight, it will accelerate the wear to the chain, sprocket, rear sprocket and rear rim. Some parts may crack or break when the vehicle is overload.

If the chain is too loose, the chain may fall off from the sprocket or rear sprocket, which may cause locking of the rear wheel or damages to engine.

The service life of the drive chain largely depends on the maintenance.

Chain dirt inspection

Inspect periodically or inspect the chain for dirt after driving in severe conditions.

If the chain is extremely dirty, flush any large dirt particles with a soft flow of water. Clean any residual dirt and residual lubricant with a proper chain cleaner.

Spray the chain with a proper chain lubricant after the chain is dry.

WARNING

When spraying chain lubricant, do not splash the lubricant onto other parts. Lubricant on the tires will decrease the tire grip, and lubricant on the brake discs will decrease the brake performance. Clean these components with a proper cleaner if the over-spray occurs.

Chain Tension Inspection

Shift into neutral.

Park with the side stand.

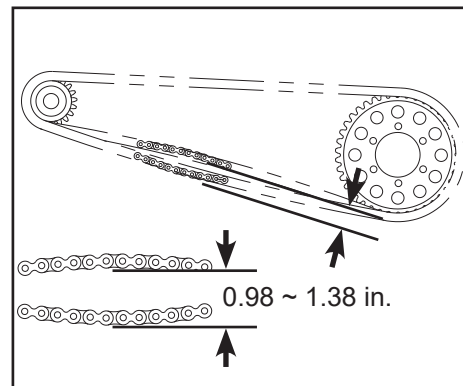
Push up the chain to inspect its tension.

If the chain tension is not in line with relevant specifications, then adjust it to the standard.

Standard value: 0.98 ~ 1.38 in. (25 ~ 35 mm)

NOTE:

The wear of the chain is not always uniform, and the tension should be repeatedly measured by rotating the rear wheel several times in different positions.



Drive Chain Tension Adjustment

Loosen the rear wheel shaft nut [1].

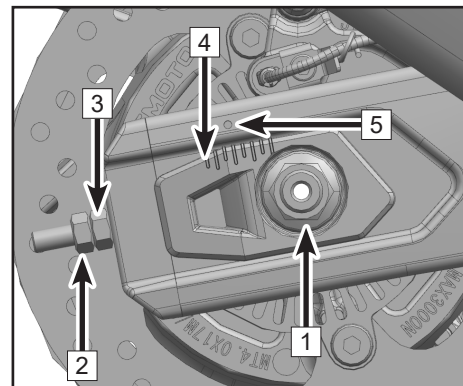
Loosen the left and right locking nuts [2].

Screw the left and right adjusting nuts [3] to adjust the chain tension, ensuring the alignment marks on the left and right adjusting block [4] are the same with the reference mark [5] position.

Tighten the left and right locking nuts [2].

Tighten the rear wheel shaft nut to the specified torque.

Torque: 77.4 ~ 81.1 ft-lb. (105 ~ 110 N·m)



Wear inspection

Turn off the vehicle's power supply, and shift the transmission into neutral.

Support the vehicle by the frame.

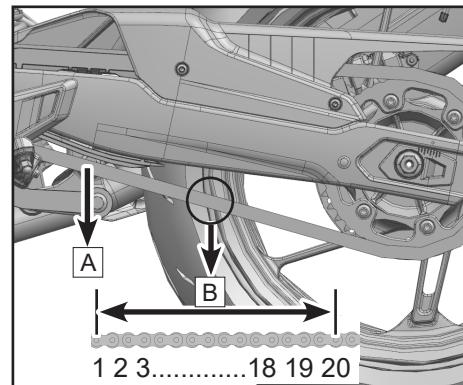
Apply chain tensioning or hang a 22 lb. (10 kg) object on the chain at the location shown **A**.

Measure the elongated length **B** between 20 links.

NOTE: Chain wear is not always uniform. It should be measured several times in different locations.

Maximum length **B for 20 links: 12.6 in. (320.7 mm)**

If the max length **B** is longer than the specified length, then replace the chain, rear sprocket and engine sprocket.



⚠ DANGER

For your safety, please use the standard chain. When the chain is elongated, never cut the chain and use it again. Have it replaced by an authorized CFMOTO dealer.

If the chain is replaced, then replace the rear sprocket and engine sprocket at the same time. Otherwise, the new chain will wear out faster.

Inspect the chain, rear sprocket teeth and engine sprocket teeth for any kind of wear. If the chain, engine sprocket or rear sprocket is worn, then replace the whole set.

NOTE: Chain, rear sprocket and engine sprocket should be replaced at the same time.

Chain guard

Replace the chain guard if it is badly worn at marks a.

Inspect whether the chain guard is firm. If it is loose, tighten its mounting bolts to the specified torque.

Torque: 3.7 ft-lb. (5 N•m)



Standard Teeth



Worn Teeth



Damaged Teeth

BRAKE SYSTEM

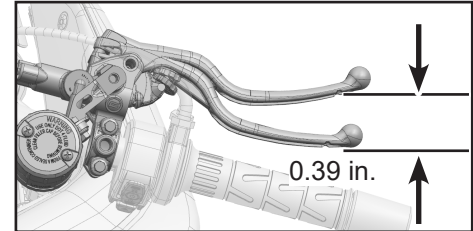
In order to maintain excellent performance of your vehicle and personal safety, please inspect and maintain the vehicle according to the Periodic Maintenance Chart. Make sure all the parts of the brake system are in a good state. If any damage occurs to the brake system, please stop riding and have your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

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: 0.39 in. (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.

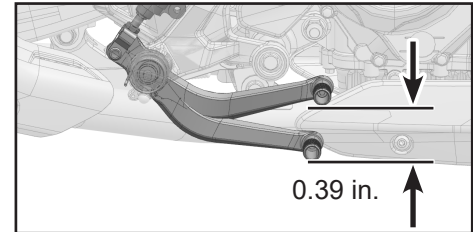


Rear Brake Pedal Inspection

Park the vehicle with the side stand on level ground.
Lightly grip the rear brake pedal and inspect its free play.

Free play: 0.39 in. (10 mm)

Inspect the rear brake pedal for any cracks or abnormal noise.
If these problems occur, replace the rear lever with a new one.



WARNING

If the brake levers and pedals feel soft, there may be air or lack of fluid in a brake fluid hose. If the vehicle has this dangerous condition, do not ride the vehicle. Have the brake system inspected immediately by an authorized CFMOTO dealer.

Brake Fluid Level Inspection

Support the vehicle vertically on level ground, and confirm the brake fluid reservoirs are level;

Inspect the front and rear brake reservoir fluid levels;

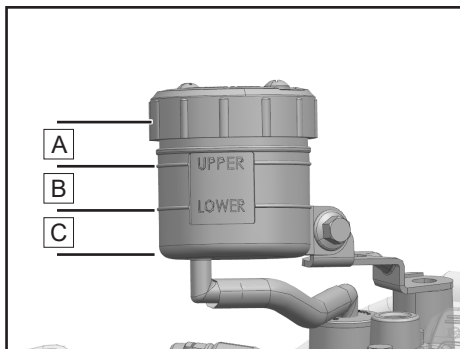
If the brake fluid level is at area 'A': Drain out the redundant fluid until it is at area 'B';

If the brake fluid level is at area 'B': The level is proper;

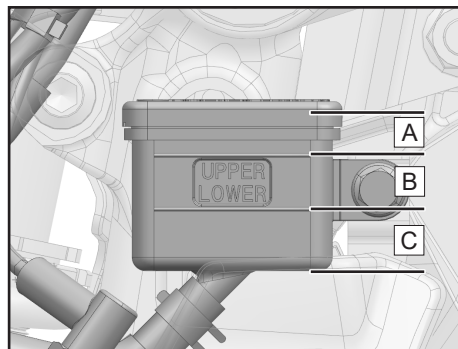
If the brake fluid level is at area 'C' or cannot be seen: Replenish it with the same brake fluid until the level is at area 'B'.

WARNING

If the brake fluid level drops to area 'C' frequently, the brake system is leaking, not sealed, or is damaged. Have the brake system inspected immediately by an authorized CFMOTO dealer.



Front brake fluid reservoir



Rear 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 Periodical Maintenance Chart. Only use the same type DOT4 brake fluid as marked on the fluid reservoir. The mixing of 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.

Front Brake Fluid Reservoir

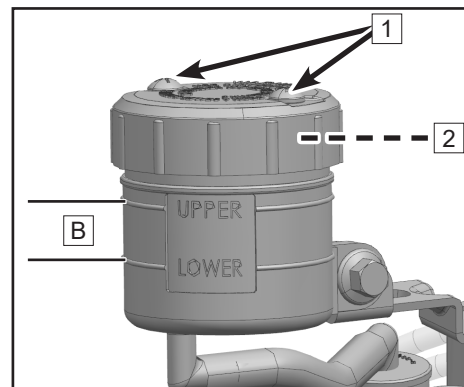
Remove bolts [1].

Remove the cover and reservoir gasket [2].

Replenish brake fluid to area 'B'.

Remount the cover and reservoir gasket [2].

Mount bolts [1].



Rear Brake Fluid Reservoir

Remove bolts [1].

Remove the cover and reservoir gasket [2].

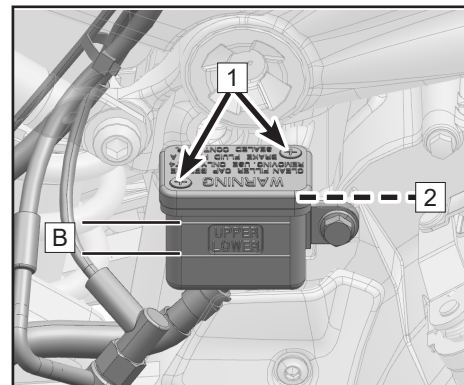
Replenish brake fluid to area 'B'.

Remount the cover and reservoir gasket [2].

Mount bolts [1].

NOTE

Inspect for oil spills. If any, wipe them off.

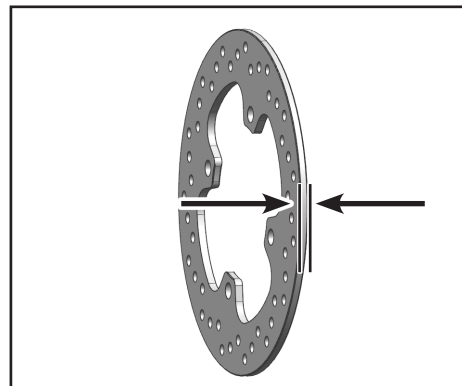


Brake Disc Inspection

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: 0.16 in. (4 mm)



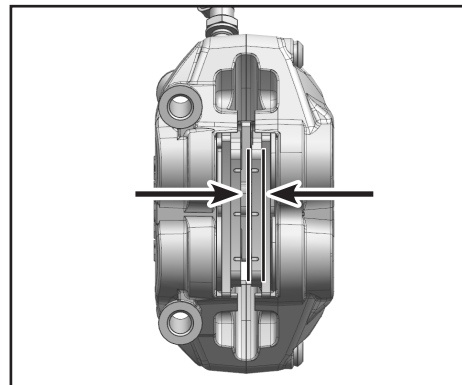
Brake Caliper Inspection

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 brake effect and damage the brake pads.

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

Brake pad minimum thickness: 0.05 in. (1.3 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)

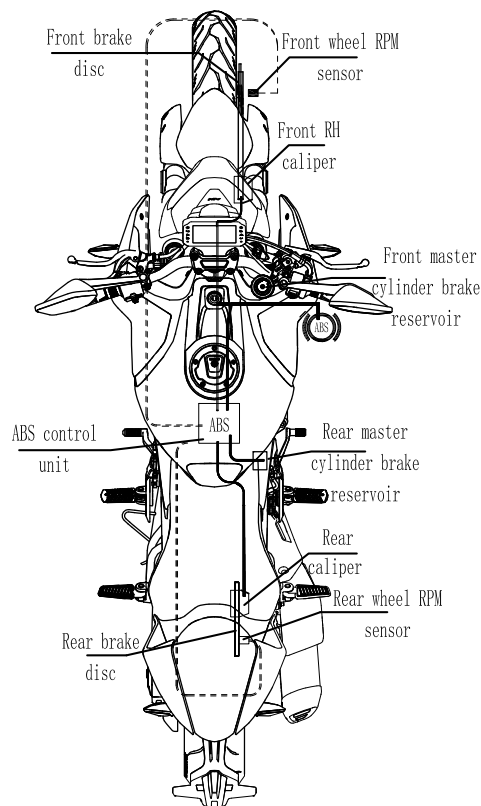
ABS is a safety system that prevents wheel lock when riding in a straight line or a curve without the influence of lateral forces. With the assistance of ABS, when riding on gritty, water-logged, sliding or other slippery roads, the vehicle can use its full brake force without locking the wheels.

⚠ DANGER

Driving assistance can only prevent rollovers within certain physical limits. In extreme driving conditions, such as a high center of gravity from cargo, changing road conditions, steep slopes and full-speed braking without releasing the brake, 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 pulsing of the front or rear brake pedals.

When turning on the ignition switch, the ABS indicator will turn on and then turn off after the motorcycle begins traveling. If the ABS indicator is still on after travel begins or it lights up again during riding, the ABS has detected a fault. If a fault occurs, ABS will deactivate. The brake system itself will function normally, but ABS is unavailable to prevent wheel lockup, so the wheels may lock during hard braking.



SHOCK ABSORBERS

Shock absorbers are vital components of the vehicle, primarily designed to absorb and dampen vibrations transmitted from the road surface during riding. This enhances both riding comfort and safety.

Shock Absorber Inspection

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

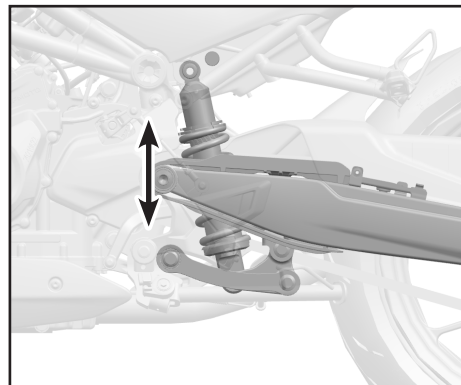
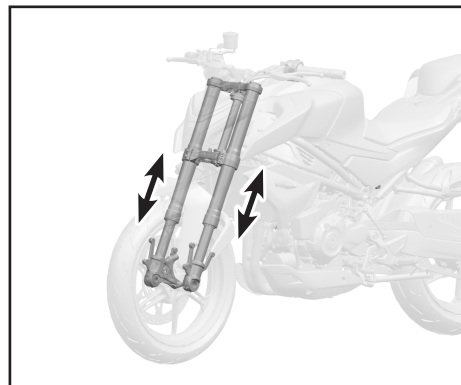
Visually inspect the front shock absorbers for oil leaks and the front fork for scratches or friction noise.

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.

After riding, check the front fork or rear shock absorbers for any mud, dirt, or debris. If so, clean in time. Failure to maintain them could lead to oil seal damage and oil leak for the front shock absorber, or performance degradation of the rear shock absorber, and even affect damping efficiency.

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



Rear Shock Absorber Adjustment

The shock absorber has been adjusted at the factory to the position suitable for most situations.

Spring Preload Adjustment

Setting the spring preload produces a comfortable driving experience but also affects vehicle handling. Adjusting the spring preload could produce optimal support and damping.

Record the current setting (for example, the length of the spring) before adjusting the spring preload.

Spring length without being compressed [A]: 7.0 in. (178 mm)

Spring length factory setting [B]: 6.7 in. (170 mm)

The difference between [A] and [B] is [C]: 0.3 in. (8 mm)

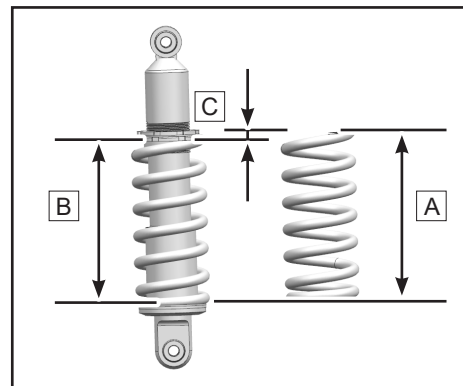
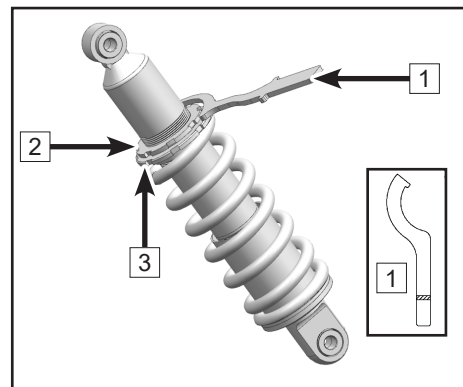
Loosen the locking nut [2] with the shock absorber adjusting wrench [1]. Rotate the adjusting nut [3] to the desired spring preload, and re-secure the locking nut [2].

NOTE: Each adjustment turn is 0.05 in. (1.5 mm).

Maximum (Hard): spring length of 6.4 in. (163 mm)

Minimum (Soft): spring length of 6.8 in. (175 mm)

NOTE: Contact a CFMOTO dealer before attempting any preload adjustment.



 DANGER

This part contains high-pressure nitrogen. Improper operation may cause an explosion. Read the relevant instructions. Don't throw it into fire, make holes in it, or open it.

ELECTRICAL SYSTEM AND LIGHTS

Battery

The battery in this vehicle is a lead-acid battery. It is unnecessary to inspect the amount of battery electrolyte or add distilled water. To ensure optimum service life of the battery, keep the battery charged properly to ensure the battery has reserve capacity available at the starter motor. 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 environmental temperature rises, for example, the rate of discharge could increase by a factor of 1 for every 15°C temperature rise.

In cold weather, an improperly charged battery may have frozen electrolyte, which may lead to battery cracking or warped electrode plates, which appear as a bulge on the battery sides. Proper, full charging of the battery improves its freeze-proof capability.

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 sulfation

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 the battery may be damaged.

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 an 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. If the vehicle is not used for one month or longer, please remove the battery, and place it in a dry, cool place. Fully charge the battery before remounting it.

Clean the battery case 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.

Battery charger

Low-maintenance lead-acid batteries require special chargers (constant low voltage/ampere). Using traditional battery chargers will reduce battery life. Contact your dealer for battery charger specifications.

Battery charging

Remove the battery from the vehicle. It must be removed from the vehicle while it is being charged.

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 mounting it in the vehicle.

WARNING

Do not remove the battery's sealing strip, or the battery will be damaged. Do not mount an ordinary battery in this motorcycle, or the electrical system will not work properly. When removing the battery, firstly disassemble the negative pole and then the positive pole. During mounting, the connection sequence of positive and negative poles is opposite to that of disassembly.

NOTE: When charging a low-maintenance lead-acid battery, always follow the instructions in this manual.

Battery Removal

Place the vehicle on flat ground and park it.

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

Flip up the tail part of the front seat assembly **1**, and remove the bolts **2**.

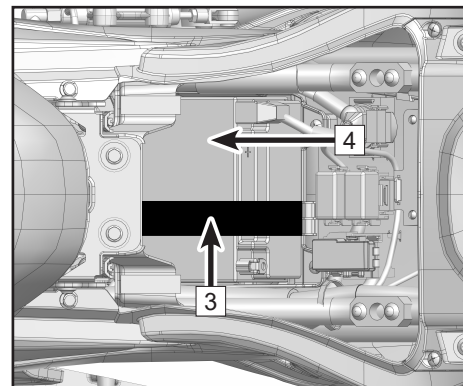
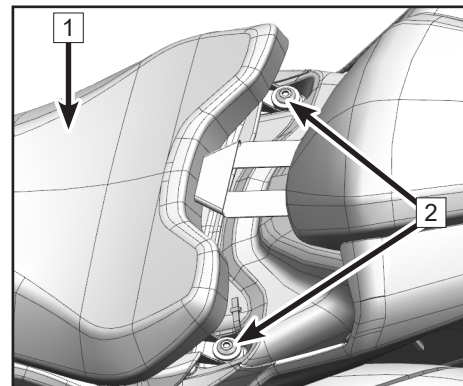
Remove the front seat assembly **1**.

Remove the black negative wire (-).

Remove the red positive wire (+).

Remove the battery belt **3**.

Remove the battery **4**.



Battery Mounting

Park the vehicle on flat ground.

Ensure that the vehicle's key is in the closed position.

Put in the battery.

Mount battery belt.

Mount the red positive wire (+).

Mount the black negative wire (-).

Remount the front seat assembly.

WARNING

Avoid direct touching 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 beam is adjustable. Rotate the light adjusting knob [2] with a Philips screwdriver [1] to adjust light.

⚠ CAUTION

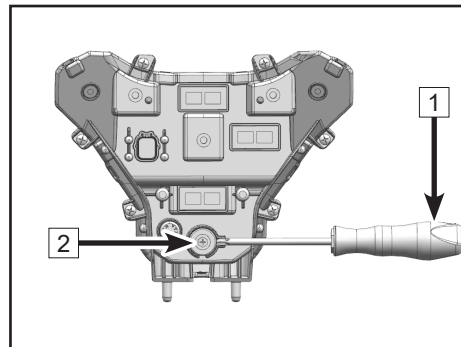
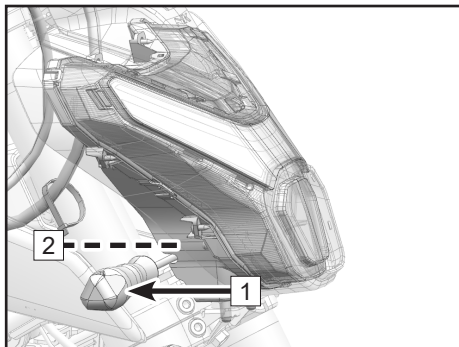
Adjustment of high / low beams should be in accordance with local regulations. The standard is based on the light emitted when front and rear wheels touch down the ground and the rider sits on the vehicle.

The high / low beams have been rigorously calibrated at the factory. Unauthorized adjustments may cause beams not to meet regulatory requirements and compromise road safety. For any necessary adjustments, contact an authorized CFMOTO service center to ensure compliance with safety standards and regulations.

Regularly check the brightness, angle and function of headlights to ensure driving safety at night or in bad weather.

To prevent battery drain, do not use headlights continuously for more than 10 minutes at idle speed or engine shutdown to avoid the vehicle from failing to start.

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

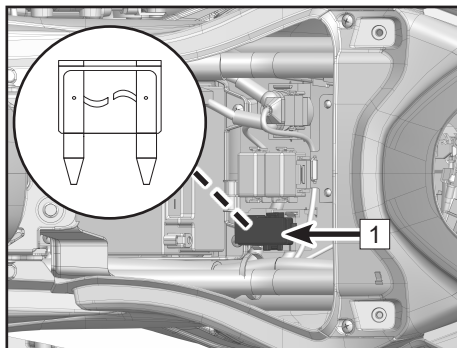


Fuses

Fuse box **1** is under the seat, it is visible after removing the seat. If a fuse is blown, inspect the electrical system for damage and replace the fuse with the 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 ampere. Ampere value is shown on fuse.



CATALYTIC CONVERTER

This motorcycle 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 will significantly reduce 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

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 air tube 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.

MOTORCYCLE CLEANING AND STORAGE

General Precautions

Always keeping your motorcycle clean and in best performance will extend the vehicle's 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. Do not use high-pressure spray.
- 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.
- Do not use 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-pressure sprayers, as the water may penetrate into seals and electrical components to damage the vehicle.
- Avoid spraying water into No-water areas such as air intakes, fuel system, electrical components, muffler outlets and the fuel tank lock.

Washing the Vehicle

- Rinse the vehicle with cold water to remove any loose dirt.
- Mix a bucket of detergent (specialized for motorcycles or automobiles) with water. Use a soft cloth or sponge to wash your motorcycle. If necessary, use a mild degreaser to remove any oil or grease.
- 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 motorcycle at low speed and apply the brake several times. This will help to dry the brakes and restore their normal operating performance.
- Lubricate the drive chain to prevent rusting.

WARNING

If your vehicle is equipped with anodized components (e.g., front shock absorber), 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:

When riding in areas where the roads are salted or near the ocean, clean the motorcycle after your ride with cold water immediately. Do not use warm water to wash your vehicle, as it accelerates the chemical reaction of the salt. After drying the vehicle, apply 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.

Polishing the Surface

After washing your motorcycle, polish the painted metal and plastic surfaces with a specialized motorcycle or 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

Plastic parts may deteriorate and break if they are exposed to chemical substances or household cleaning products such as gasoline, brake fluid, window cleaners, 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 Equipped)

If your motorcycle has leather accessories, use specialized treatments 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 components should be treated with a rubber protective agent to prolong their life.

⚠ DANGER

Special care must be given to tires. Ensure that rubber-protective agents applied to tires will not affect their functions. Incorrect treatment applications may decrease the traction 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 with new engine oil.

Replenish fuel and the appropriate fuel additive.

⚠ DANGER

Gasoline is extremely flammable and explosive under certain conditions. Turn the ignition key to off position  before fueling. Do not smoke. Make sure the area is well ventilated and free of any source of flame or sparks and any appliance with a pilot light. Gasoline is a toxic substance. Dispose of it properly. If skin touches fuel, it should be treated immediately. Keep fuel 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 corrosion inhibitor on all unpainted metal surfaces to prevent rusting. Avoid spraying on rubber parts or on the brakes.

Lubricate drive chains and 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.

Charge the battery if necessary, then mount the battery.

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 the 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.

NOTE: The electrical system section of this manual has more details about battery removal and installation.

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
	Main chain	Too-tight drive chain; improper adjustment	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
	Electric system	Electrical system failure	Inspect or repair
	Air filter	Air filter clogging	Clean or adjust
Headlights, taillights or turn lights do not work	Cables	Poor connections	Adjust
	Left and right switches	Poor switch contact or switch damage	Adjust or replace
	Headlight, tail light, turn lights	LED and circuit board failure or damage	Replace
	Regulator	Poor connection or burning	Inspect or replace
	Magneto	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 contact	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 the problems without professional help, otherwise there may be safety risks or accidents. The user shall be responsible for any accident 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	4 ± 1
M6 bolt and nut	10 ± 1	M6 screw	9 ± 1
M8 bolt and nut	20 ~ 30	M6 flange bolt and nut	12 ± 1
M10 bolt and nut	30 ~ 40	M8 flange bolt and nut	20 ~ 30
M12 bolt and nut	40 ~ 50	M10 flange bolt and nut	30 ~ 40

CRUCIAL TORQUE CHART

Type	Thread	Number	Tightening Torque (N•m)	Thread-locker
Engine LH front mounting bolt	M10 × 1.5 × 70	1	45 ~ 50	Yes
Engine RH front mounting bolt	M10 × 1.5 × 22	1	45 ~ 50	Yes
Engine RH middle mounting bolt	M10 × 1.5 × 22	1	45 ~ 50	Yes
Engine LH middle mounting bolt	M10 × 1.5 × 45	1	45 ~ 50	Yes
Engine rear upper mounting bolt	M10 × 1.25 × 150	1	45 ~ 50	Yes
Engine rear lower mounting bolt	M10 × 1.25 × 170	1	45 ~ 50	Yes
Sub-frame mounting bolt	M10 × 1.25 × 20	4	40 ~ 50	Yes
Upper or lower triple clamp and shock absorbers tightening bolt	M8 × 1.25 × 30	7	20 ~ 25	Yes

Upper triple clamp upper side tightening screw	M25 × 1.5	1	20 ~ 25 N•m (Before lock the upper triple clamp shock absorbers tightening bolt)	No
Front shock absorber lower side and front axle tightening screw	M8 × 25	2	20 ~ 25	Yes
Rear shock absorber upper side and frame connecting bolt	M10 × 1.25 × 50	1	45 ~ 50	No
Rear shock absorber lower side and A-shape swing arm connecting bolt	M10 × 1.25 × 50	1	45 ~ 50	No
A-shape swing arm upper side and rear fork connecting bolt	M12 × 1.25 × 80	1	60	No
A-shape swing arm lower side and rod connecting bolt	M12 × 1.25 × 110	1	60	No
Rod assembly and frame connecting bolt	M10 × 1.25 × 130	1	45 ~ 50	Yes
Front axle	M16 × 1.5	1	75 ~ 85	No
Tooth ring, brake disc and rim bolt	M8 × 28	9	25 ~ 30	Yes
Brake pipe and front caliper bolt	M10 × 1.0	1	38 ~ 42	No
Front caliper and front shock absorber bolt	M10 × 1.25	2	40 ~ 45	Yes
Brake pipe and hand pump bolt	M10 × 1.0	1	38 ~ 42	No

Brake pipe and ABS bolt	M10 × 1.0	4	38 ~ 42	No
Brake pipe and rear caliper bolt	M10 × 1.0	1	38 ~ 42	No
Brake pipe and foot pump bolt	M10 × 1.0	1	38 ~ 42	No
Rear brake master cylinder and RH front footrest bracket bolt	M6 × 25	2	10	Yes
Rear fluid reservoir and frame bolt	M6 × 16	1	8	No
Brake pedal lever assembly and right footrest bracket bolt	M8 × 25	1	25	Yes
Hand bump fluid reservoir mounting bracket tightening bolt	M8 × 1.25	1	25	Yes
Tightening handlebar lower bracket screw	M10 × 60	2	45	No
Tightening handlebar upper bracket screw	M8 × 25	4	20	No
Balancing block mounting screw	M8 × 50	2	20	No
Rear axle tightening nut	M16 × 1.5	1	105 ~ 110	No
Big sprocket tightening bolt	M8 × 30	6	35 ~ 40	No
Gearshift swing arm and engine axle tightening bolt	M6 × 22	1	Until tightened	Yes
Joint bearing and gearshift pedal and swing arm bolt	M6 × 16	2	6	Yes
Gearshift connecting rod adjusting nut	M6/M6LH	2	6	No

Gearshift pedal and front footrest bracket bolt	M8 × 25	1	20	Yes
Gearshift pedal and footrest connecting bolt	M8	1	25	Yes
Front footrest bracket and rear fork shaft bolt	M12 × 35	2	110	No
Front footrest bracket and frame bolt	M8 × 30	2	25	Yes
Rear footrest bracket and frame bolt	M8 × 20	4	25	Yes
Reservoir mounting bolt	M6 × 25	2	9	No
Radiator lower side and connecting bracket assembly bolt	M6 × 25	1	5	No
Radiator upper side and frame connecting bolt	M8 × 30	1	20	No
Front brake caliper mounting bolt	M10 × 1.25 × 60	2	45 ~ 50	Yes

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.



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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!



MOREFUN

6AQV-380101-B100-12 Intl25C



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