

800NK

Owner's Manual

**READ THIS
MANUAL
CAREFULLY**

It contains important
safety information

Make sure operator holds a valid driver license.
Passenger 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 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.

Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication.

Depictions and/or procedures within are intended for reference use only. The content in this publication is based on the latest production information available at the time of approval for printing.

CFMOTO reserves the right to make changes at any time without notice and without incurring any obligation.

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.

⚠ DANGER

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

EVAP System (Evaporative Emission Control System)

(If equipped)

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

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

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

Catalytic Converter

CAUTION: Please pay attention to the following to protect your catalytic converter:

- Use only unleaded gasoline. Even gasoline that contains a little lead could damage the reactive metals contained in the catalytic converter and disable it.
- Never add rust preventive oil or engine oil into the muffler. Doing so could damage the catalytic converter.

NOTE

Some features described within this manual may not apply to models sold in North America.

All descriptions and directions given are from the operator's perspective when properly seated.

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 injury or death.

WARNING

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

BEFORE RIDING

WARNING

Different warning labels are set at the visible position of the motorcycle. Please do not remove any warning labels. If these labels are missing, you or others may not recognize the danger, resulting in injuries.

DANGER

This product is only applicable to a reasonable and prudent riding by trained persons holding corresponding riding licenses on the highway.

Pay attention to the following:

Before riding, the riders shall inspect all parts of the motorcycle according to the chapter of DAILY SAFETY INSPECTION. If there is any problem, it shall be repaired before riding.

Riders should abide by local laws and regulations.

It is forbidden to drive the vehicle after drinking or taking drugs.

Please wear appropriate protective equipment as long as you are riding, such as helmets, boots, gloves, and protective pants or jackets.



⚠ DANGER

Do not make any modification to the motorcycle. Non-standard modifications may lead to serious consequences.

Any modification to the devices or electrical parts of this motorcycle will influence safety, range and performance.

Incorrect loading can lead to serious consequences.

Improper accessories may cause safety hazards.

Always use CFMOTO original components and our approved accessories. Improper installation or improper loading of other original components and accessories will affect the performance of the motorcycle, or even violate the legal regulations. Please NOTE that you are responsible for your own and others' safety.

⚠ CAUTION

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

⚠ CAUTION

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

 **NOTE**

As the design and quality of the motorcycle's components are constantly improved, the printed manual may be slightly different from the latest motorcycles. The descriptions and procedures here are for reference only.

Some features described in the manual may not be applicable to the models currently sold in the market. All descriptions and directions given in this manual are based on the vision of the operator sitting on the motorcycle.

Some configurations in this manual may not be applicable to the motorcycle you purchased. Please watch the contents of the manual selectively according to yours' configuration.

Basic Information

Pay attention to the following basic information before riding:

1. Any passenger must be very familiar with the particularity of the motorcycle's riding. If the passenger sits in an inappropriate position, the center of gravity of the human body deviates too much from the center of the motorcycle during the riding or sudden moves, it may affect the operation and control of the motorcycle. During the riding, the passengers shall sit on the passenger seat as stably as possible and shall not affect the riders' operation. Animals cannot be carried on motorcycles.
2. Pay attention to the following when carrying luggage: in order to reduce the impact on the center of gravity of the motorcycle, all luggage carried must be placed as low as possible. The weight of the luggage must be evenly distributed on both sides of the motorcycle. Avoid extending the luggage too far behind the motorcycle.
3. The luggage must be safely secured to the motorcycle and must not be moved before riding. When riders feel that the motorcycle is unstable during riding, it is advised to make sure whether the luggage is firmly secured and should be readjusted if necessary.
4. Do not carry heavy or bulky luggage. Overload will inevitably affect the handling and power performance.
5. Pay attention to the following when adding accessories: do not install accessories and carry luggage that both reduce motorcycle performance. Make sure that everything you do will not affect any lighting system, ground clearance, braking performance, roll angle, operation performance, tire compression stroke, front fork working stroke or other relevant riding performance of motorcycles.
6. When the weight of handlebar or front fork is heavier, it will affect the steering performance and cause riding hazards.

7. The deflector, windshield, backrest and other large components will affect the stability and operation performance of the motorcycle. They will not only increase the weight, but also reduce the power performance when the motorcycle is running. Lack of design verification may cause hazards after installation.

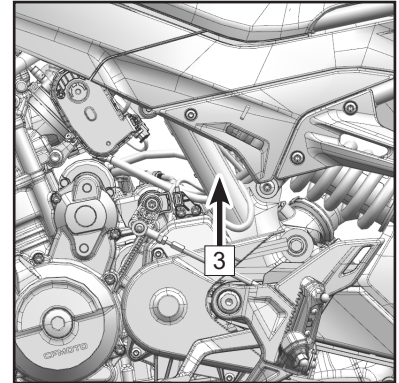
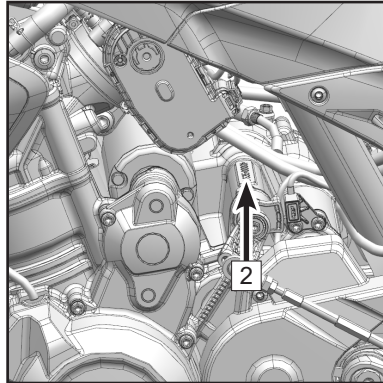
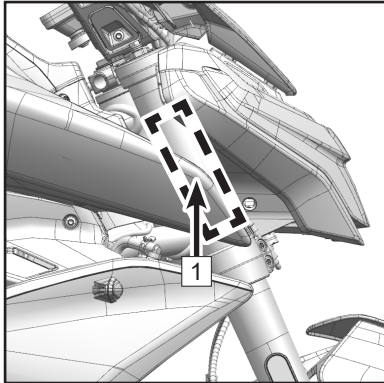
8. It cannot be converted into a sided three wheeled motorcycle and cannot be used to tow a trailer or other motorcycles. We will not be responsible for the damage or injury caused by the riders' self-modification.

VIN AND ENGINE SERIAL NUMBER

Be sure to record the VIN number, engine serial number and name plate information in the spaces below:

Vehicle identification number:

Engine serial number:



1	VIN NO.	2	Engine serial NO.	3	Name plate
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SPECIFICATIONS

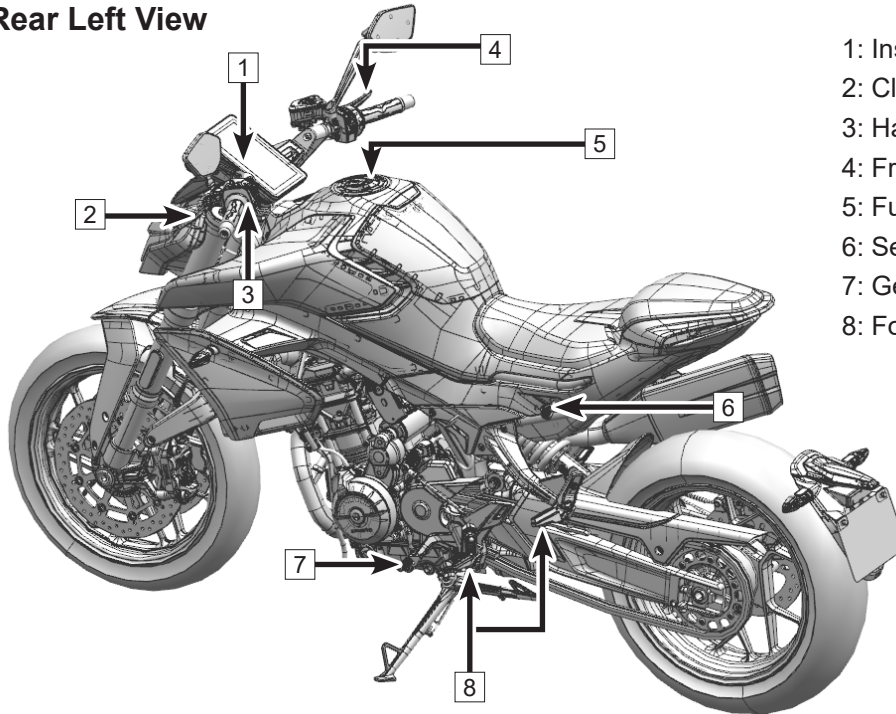
800NK			
Performance			
Max. power	74kW / 9000rpm	35kW / 6750rpm	70kW / 9250rpm
Max. torque	81N•m / 8000rpm	52N•m / 5500rpm	79N•m / 8000rpm
Min. turn diameter	5.2 m		
Top designed speed	220 km/h	170 km/h	220 km/h
Size			
Length	2146 mm		
Width	810 mm	818 mm	
Height	1120 mm	1137 mm	
Wheelbase	1465 mm		
Seat height	800 mm		
Ground clearance	185 mm		
Curb weight	186 mm		
Engine			
Type	Two Cylinders, Four Stroke, Liquid Cooled		
Displacement	799 cc		
Bore×Stroke	88 mm × 65.7mm		
Compression ratio	12.7:1(±0.3)		
Starting system	Electric starter		
Fuel supplying system	EFI		
Ignition control system	ECU Ignition		

Lubricating system	Pressure / splash lubrication	
Engine oil type	SAE10W-50 JASO T903 MA2	
Coolant capacity	1300 mL+180 mL	
Idle speed	1610 r/min \pm 150 r/min	1610 r/min \pm 160 r/min
Transmission		
Transmission type	6-speed International standard gear	
Clutch type	Wet, multi-disc, sliding	
Driving system	Chain drive	
Primary reduction ratio	1.923	
Final reduction ratio	2.813	
Gear ratio	1 st	2.846
	2 nd	2.000
	3 rd	1.550
	4 th	1.273
	5 th	1.083
	6 th	0.957
Chassis		
Tire size	Front	120/70 R17
	Rear	180/55 R17
Rim size	Front	MT3.5 \times 17
	Rear	MT3.5 \times 17
Capacity of fuel tank	15 L	
Fuel consumption	\leq 5.6 L/100 km	

Electric components	
Battery	12V/11.2 Ah
Headlight	High Beam LED: 16W Low Beam LED: 27.5W Position Light LED:14.5W
Turning light	LED: 0.5W×3
Tail light	Rear Position Light LED: 4.5W Braking Light LED: 10.5W

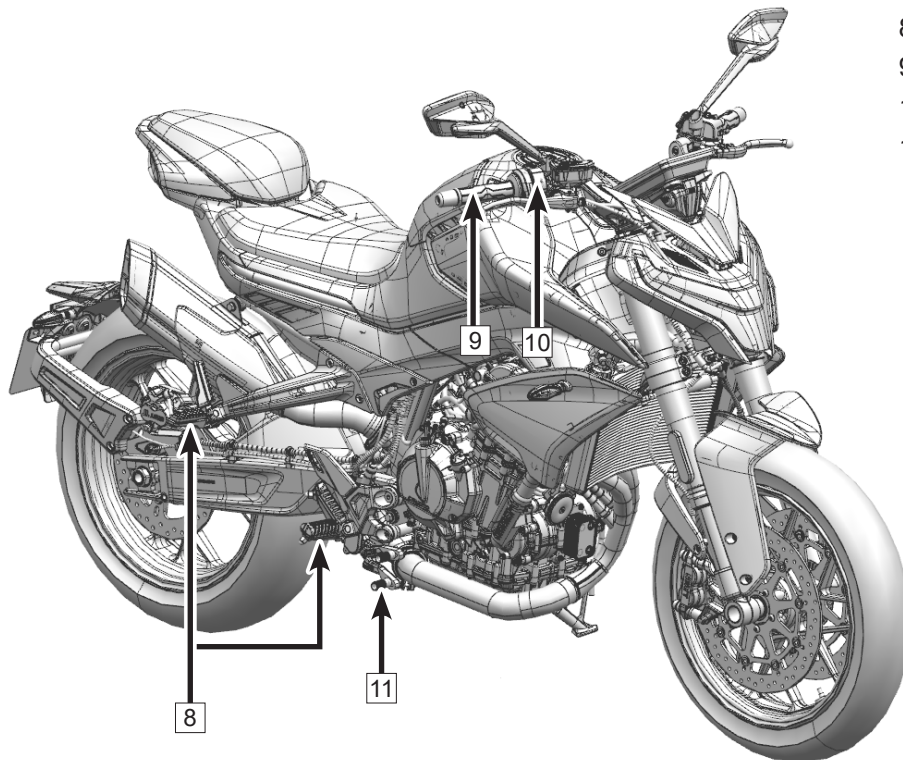
VIEW OF VEHICLE

Rear Left View



- 1: Instrument
- 2: Clutch lever
- 3: Handlebar switch, LH
- 4: Front hand brake lever
- 5: Fuel tank lock
- 6: Seat lock
- 7: Gear shift lever
- 8: Footrest kit

Front Right View



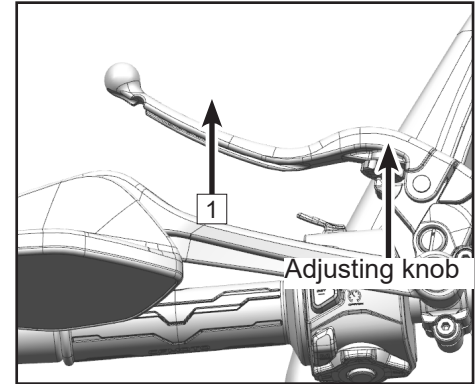
- 8: Footrest kit
- 9: Electric Throttle Handlebar
- 10: Handlebar switch, RH
- 11: Rear brake lever

CONTROLS AND FEATURES

Clutch Lever

Clutch lever **1** is on the left side of handlebar. The clutch is cable-operated type.

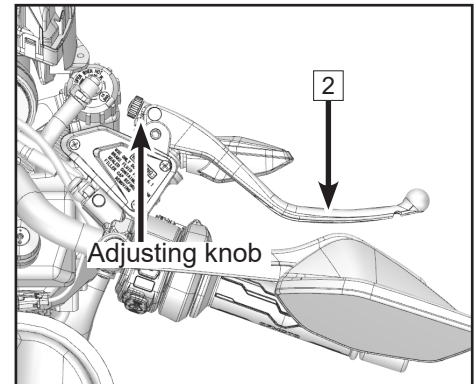
Adjust the clutch lever's distance to the handlebar by turning the clutch lever adjusting knob.



Front Hand Brake Lever

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







Adjust the braking lever's distance to the handlebar by turning the hand brake lever adjusting knob.

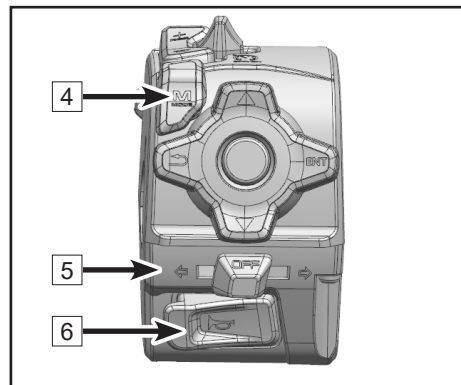
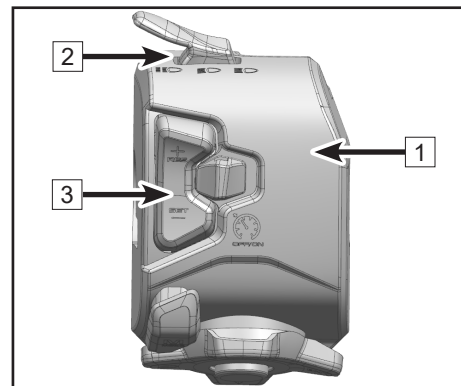


Handlebar Switch, LH (State One)

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

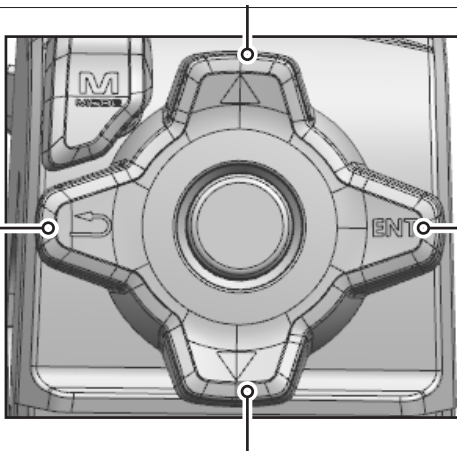
Functions of Left Handlebar Switch

2	Dimmer push switch		Press this button, passing light will flash.
			Turn to this position, high beam lights will be on.
			Turn to this position, low beam lights will be on.
3	Cruise switch	RES/+ SET/-	See more in Instrument.
4	Mode switch	MODE	Shifting vehicle modes.
5	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.
6	Horn button		Press and the horn will sound.



For Main interface: press it to switch Optional Info 1 and long press it to reset trips.
For Menu: press it to select the prior choice of the first-level menu, and press it to select the prior choice of the second or lower-level menu.
For Music: at the main interface, long press it to select the prior song, and press it to increase the volume. On the Menu interface, press it to select the prior song or to increase the volume.

For Menu: press it to return to the prior menu, and if the interface is at the first-level menu, press it to return to the main interface.
For Calling: press it to hang up the phone.
For Navigation: press it to return to the main interface.
For Music: press it to return to the main interface.



For Main interface: press it to enter the menu.
For 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 menu, and long press it to pause or play. On the Menu interface, press it to pause or play, and long press it to switch between the prior and next songs or to decrease the volume.





For Main interface: press it to select Optional Info 2, long press it to reset the average fuel consumption, average speed or riding time.
For Menu: long press it to select the next choice of the first-level menu, and press it to select the next choice of the second or lower-level menu.
For Music: at the main interface, long press it to select the next song, and press it to decrease the volume. On the Menu interface, press it to select the next song or to decrease the volume.

Note: The priority of buttons is calling, music and then others.

Handlebar Switch, RH (State One)

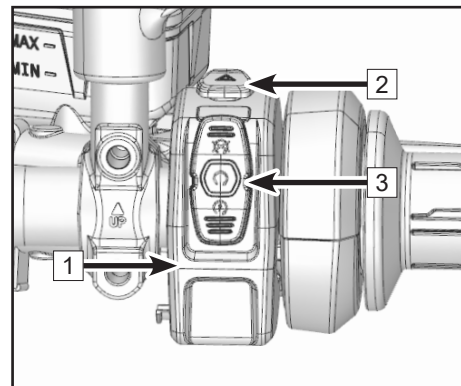
Right handlebar switch **1** is on the right side of handlebar.

Right handlebar switch function

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

CAUTION

Before engine is started, please do not turn on the power for a long time, or electricity will be consumed and engine may not be started.

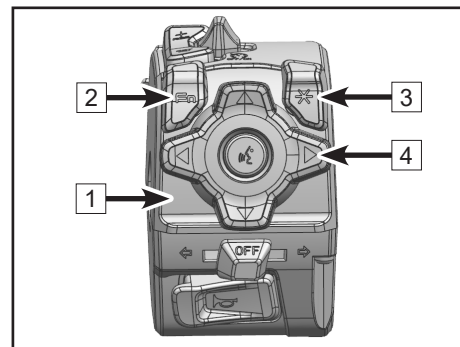







Handlebar Switch, LH (State Two)







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

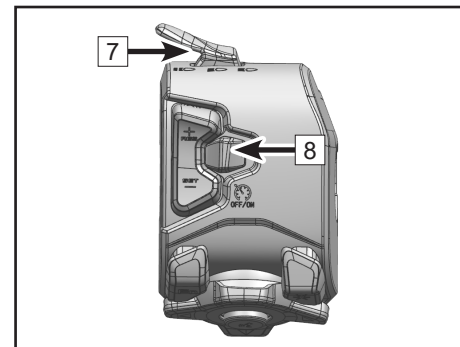
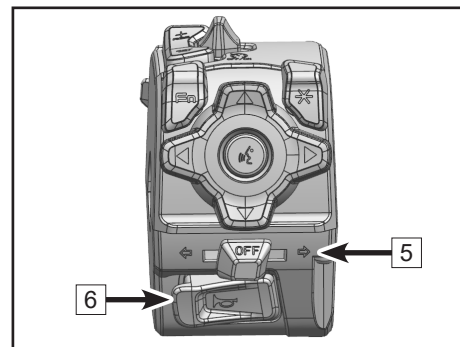
Function of left handlebar switch

2	Function button	Fn	Press it to see the cyclical menu--Fn menu; Long press it to see shortcuts.
3	User-defined button	*	Press (according to your choice): Play/Pause Press it (according to your preference) to: Play/stop; Activate intercome function of two helmets; Long press it to enter or exit split screens.



4	Up		Increase volume
	Right		Generally: select the previous song; When there is an incoming call: answer the call; After the function menu is activated: select your choice.
	Down		Decrease volume
	Left		Generally: select the next song On the phone: hang up the phone/ cancel the dial/ refuse to answer the call; After the function menu is activated: select your choice.
	Voice control button		Press: activate/end voice control Long press: activate Siri This function can only be used when a rider wears a bluetooth helmet.






5	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.
5	Horn switch		Press and the horn will sound.
7	Dimmer push switch		Turn to this position, high beam light will be on.
			Turn to this position, low beam light will be on.
			Press this button, passing light will flash.
8	Cruise switch	RES/+ SET/-	See more in Instrument

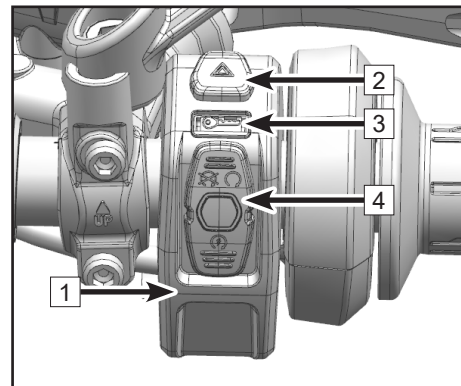


Handlebar Switch, RH (State Two)

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

Right handlebar switch function

2	Hazard flasher switch		Press to turn on the hazard flasher light.
3	Anti-theft indicator		When the vehicle recognizes the key is useless, the indicator flashes.
4	Start and stop switches		Turn to this position, the vehicle stops.
			Turn to this position, the vehicle is powered on.
			When the vehicle is powered on, Turn to this position, the vehicle starts.



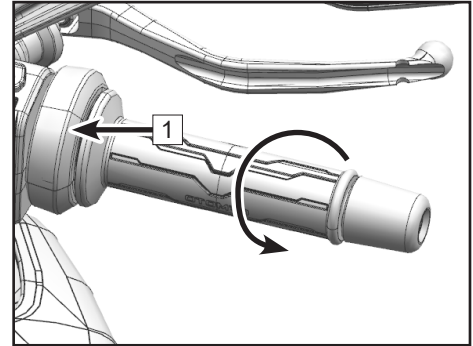
CAUTION

Before engine is started, please do not turn on the power for a long time, or electricity will be consumed and engine may not be started.

Electronic Throttle Assy




This vehicle is equipped with an electronic throttle assembly **1**. When rotating the throttle grip, the ECU determines the optimal fuel quantity to supply by combining the information of throttle open angle, engine RPM, gear position, engine temperature and vehicle driving mode, etc.

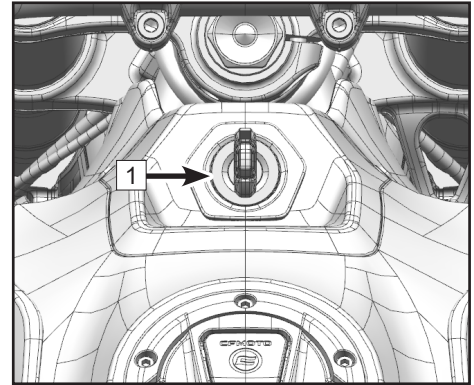
Electronic throttle offers optimal fuel economy and better throttle response for the driver.



Locks

Ignition Switch 1

Handlebar lock		Turn the handlebar to the left, then turn the key to the lock indicator to lock the handlebar.
Turn off		Turn the key to this position, the engine cannot be started and the vehicle power circuit is disconnected.
Start		Turn the key to this position, the engine can be started and the vehicle power circuit is connected.



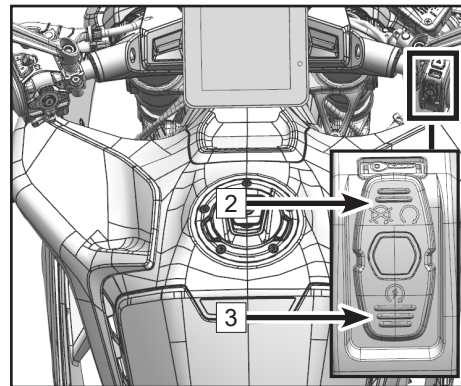
Keyless start system (If Equipped)

The vehicle is equipped with a keyless start system.

When the user is close to the vehicle with the Bluetooth key within 2 m, press the stop switch **2** of the vehicle to turn on the power. Press **2** again to turn off the power.

When the vehicle has been powered on and the gear is in neutral, press the ignition button **3** to start the engine.

After the vehicle stops, short press **2** to power off the vehicle first, and then long press the stop switch **2** longer than 2 seconds to open the stem lock. Turn the handlebar to the left end, and then it will be locked. (The handlebar can only be locked after turning to the left limit).



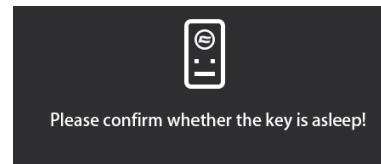
Key disconnection caution and automatic power off (If Equipped)

Type 1: The user's mobile phone is not registered the CFMOTO APP, and only carries the Bluetooth key to use the vehicle. When the vehicle is powered on, if the user carries the Bluetooth key away from the vehicle for more than 4 to 5 m, the instrument will send a pop-up window to remind you to confirm whether the key is sleeping! At this time, the key is no longer within the allowed starting range (about 2 m), and the vehicle will not be allowed to start for safety reasons.

When the START switch is operated, there will be no response, and the SSB switch can be powered off. In this case, the user enters the allowed starting area again with the Bluetooth key, and the pop-up window will disappear automatically. When the pop-up window appears, if the key is still disconnected after 60 s, the vehicle will be automatically powered off (this scenario is to prevent the user from taking the key away without powering off the vehicle when parking, resulting in power loss).

Type 2: The user's mobile phone is not registered the CFMOTO APP, and only carries the Bluetooth key to use the car; When the vehicle is powered on, the user will place the key within the allowable starting range of the vehicle (about 2 m) for more than 5 minutes. In order to improve the battery life of the Bluetooth key, the key will be disconnected and enter the low-power hibernation state. At this time, the instrument will also pop up a window "Please confirm whether the key is asleep!" .

(In this case, the user only needs to move the key to wake it up and automatically restore the connection, and the pop-up window will automatically disappear in about 2 seconds.)



Type 3: when the user's mobile phone is not registered CFMOTO APP, and only carries the Bluetooth key to use the car; If the user accidentally loses the Bluetooth key in the process of riding and is far away from the allowed starting area of the vehicle, the instrument will remind you to confirm whether the key is sleeping! At this time, the user needs to stop the car and confirm whether he or she carries the key, so as to prevent the key from being lost during the ride (in this case, although the window will exist over 60 s, the vehicle will not be turned off or be powered off. That is as long as the engine is started, if the key is lost, it will not stop the vehicle and automatic power off the vehicle. At this time, the user had better keep the starting state and confirm whether the key is lost. If the key is not detected within the allowed starting range after the vehicle stops, the vehicle will not be able to start again!)

Tips:

- 1. The Bluetooth key has a built-in motion sensor, as long as the key moves, generally the instrument will not remind users of disconnection.
- 2. If the user's mobile phone has registered the CFMOTO APP and enable the digital key function, and under the enabled Bluetooth, the instrument will not remind the user as long as the user's Bluetooth key or mobile phone is within the allowed startup range.

Key cell replacement (If Equipped)

Press the button **1** to pop out the mechanical key.

Use a flat-head screwdriver to pry open the Bluetooth key cover at the mechanical key outlet **2**.

Replace the button cell **3**.

Button cell: CR 2032 (3V).

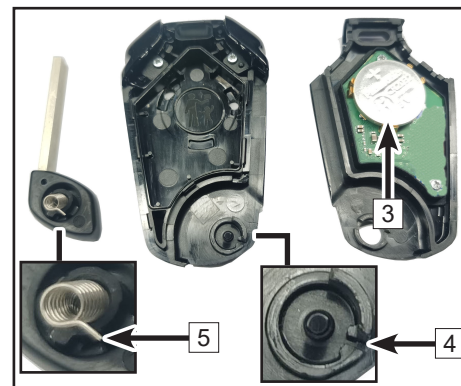
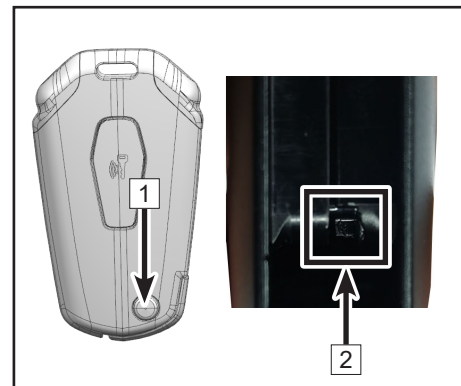
Reinstall the mechanical key and key back plate, and fasten the spring **5** into the back plate mounting port **4**.

Press the mechanical key spring and key back plate, and rotate the mechanical key and spring counter-clockwise for 2 turns;

Make sure the mechanical key and key backplane are pressed and do not fall off. Combine the Bluetooth key again and press them to ensure successful installation.

Tips:

- It is not recommended to carry a Bluetooth key when the vehicle is not in use for a long time. The Bluetooth key can be placed still, such as in drawer or on a desktop which can improve the service life of the key.
- If the key stands still for more than 5 minutes, it will enter the hibernation state and disconnect with the vehicle. If it is in the power-on state, the instrument will pop up a window to remind the user. At this time, you only need to move the key to restore its function. If the key has been still for more than 5 minutes before powering on the vehicle, wake the key up in advance.



Fuel Tank Lock 1

Follow the items below before opening the fuel tank:

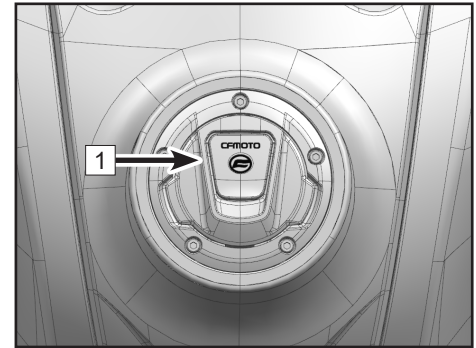
The vehicle is stopped.

Engine is off.

Open the fuel tank lock cover.

Insert the key and turn to release the lock.

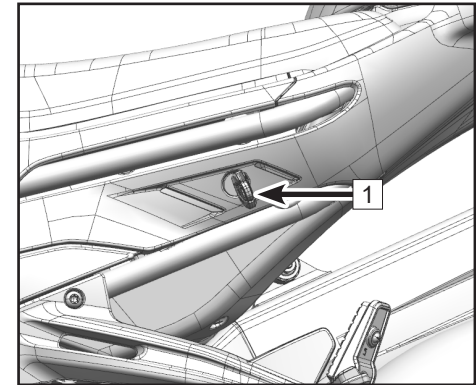
Open the fuel tank cap.



Seat Lock 1

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

The seat can be removed by inserting the key and turning to release the lock.



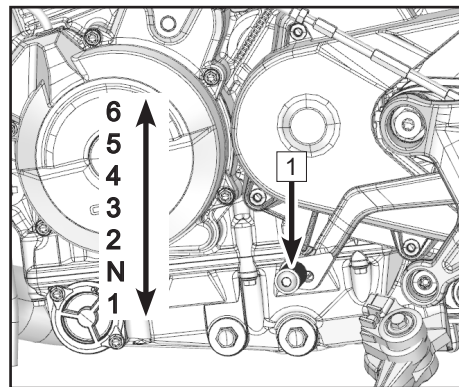
Gear Shift Lever

The gear shift lever **2** is on the left side of the engine.

Quick Gear Shifting (If equipped)

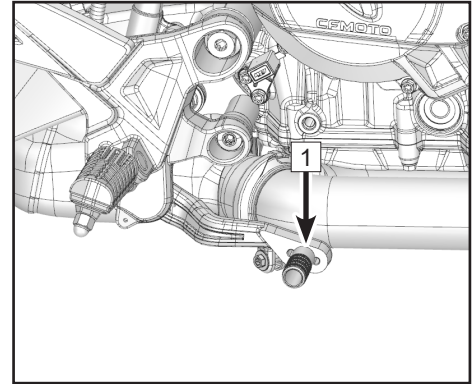
This vehicle is equipped with quick gear shifting function. When quick gear shifting function is activated, the gear position can be shifted without operating the clutch lever, and the throttle does not need to be disengaged. The gear can be shifted continuously and uninterrupted.

Quick gear shifting function estimates execution of shifting operation according to the shift gear shaft position, and sends a signal to the engine control system. If the function is turned off, gear shifting must be operated with the clutch lever.



Rear Brake Pedal

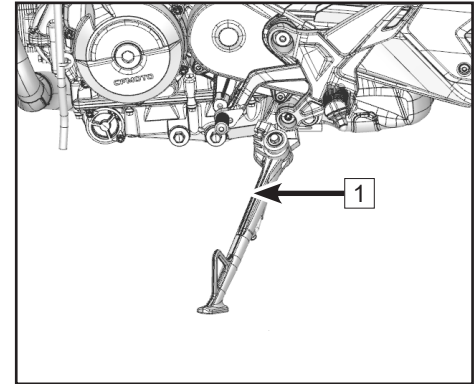
The rear brake pedal **1** is on the right side of the engine. Activate the rear brake by pushing down on the rear brake lever.



Side Stand

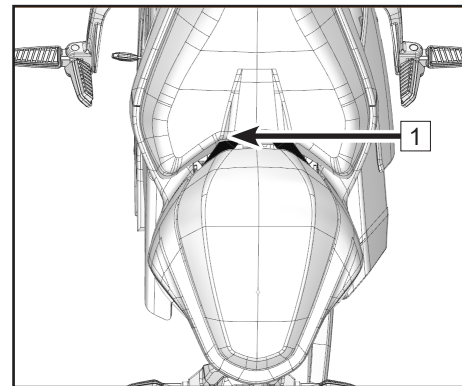
The side stand **1** is on the left side of the vehicle, and is used for parking.

NOTE: When the side stand is down, the engine starting system only activates in neutral gear.

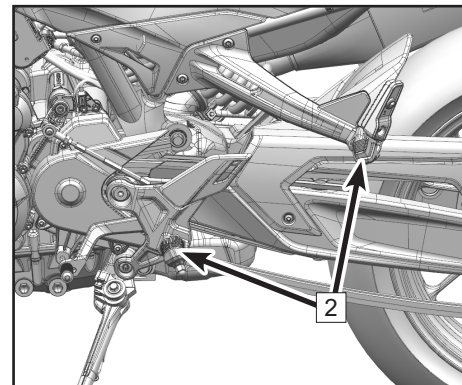


Passenger Handhold and Footrest

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.



INSTRUMENT (One, If Equipped)

NOTE

With function adjustment and version updates of the instrument and renewed vehicle configurations, some contents of the instrument may change, please selectively refer to this chapter according to your vehicle.

Instrument

The instrument is mounted at the front side of the handlebar and 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

The display screen shows a startup cartoon and the indicator light is turned on for self-inspection and at this time, the button will not respond until the cartoon is over.





Number	Symbol	State	
1		Flash	When turning signal indicators are flashing, the corresponding turning lights are on.
2		On	When the position light indicator is on, the position light is turned on.
3		On	When the vehicle is powered on and the engine is off, the fault indicator is on; if the engine is not off but the fault indicator is also on, then this means that the vehicle detects a fault in its circuit and the fault will be shown in the Instrument Indicators area. When this fault indicator is on, please park the vehicle in line with local laws and regulations, and contact an authorized CFMOTO after-service center.
4		On	If ABS system works normally, it will be on when the vehicle is in parking state or low-speed riding, which is a normal phenomenon. If there is any ABS fault, 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 the speed and avoid sudden braking and timely contact an authorized CFMOTO after-service center.
5		On	When the high beam indicator is on, the high beam light is turned on.

6		On	<p>When the coolant temperature is higher than 115°C, the Coolant temperature warning indicator will be turned on. Please park the vehicle according to local laws and regulations to wait for the temperature drop. And if this indicator is turned on frequently, contact an authorized CFMOTO after-service center.</p>
7		On	<p>When Oil pressure indicator is on, the oil level is very low, so please replenish or replace the oil in time to avoid any engine fault.</p>
8			<p>When the Brightness Control indicator is enabled, the instrument automatically adjusts its brightness according to the external environment light.</p>

Instrument Display



1	Optional Info 1	5	Upshifting Reminder	9	Drive Mode
2	Caller Identification	6	Gear	10	Coolant Temp.
3	Clock	7	Optional Info 2	11	Menu
4	Bluetooth	8	Fuel Remained	12	Ambient Temp.

1. Optional Info 1

The user can select a message from the menu to be displayed here or on the main interface.

Press ▲ to choose Optional Info 1.

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

2. Caller Identification

When the instrument is connected to the phone through Bluetooth and receives a call, the incoming call will be displayed in this area. Press the ENT button on the left handlebar to pick up the phone, and press the button ↵ on the left handlebar to hang up the phone.

3. Clock

The current time is displayed here.

Set the current time through the menu.

Switch between 12 hours and 24 hours through the menu.

4. Bluetooth

Bluetooth is used to connect mobile phones and helmets.

When the user's mobile phone is connected to the motorcycle's instrument through Bluetooth, the area will display the Bluetooth logo, the signal strength and power remained of the mobile phone.

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

5. Upshifting Reminder

The user can enable the Upshifting Reminder in the menu. Remind the user to upshift gear when the engine speed reaches the recommended gear-shifting range.

6. Gear

Current vehicle's gear is displayed here.

7. Optional Info 2

The user can select a message from the menu to be displayed here or on the main interface.

Press ▼ to choose Optional Info 2.

Optional Info 2: Mileage, Voltage, Instant Fuel Economy, Time 1, Time 2, Time Total, Consumption 1, Consumption 2, Consumption Total, Speed 1, Speed 2, Speed Total.

8. Fuel Remained

Fuel remained is displayed by several bars. The more the number of bars lit up, the more the fuel remained.

9. Drive Mode

The vehicle can shift among SPORT, STREET and RAIN modes to meet different driving conditions.

By default: STREET.

10. Coolant Temp.

Coolant temperature is displayed by several bars. The more the number of bars lit up, the higher the coolant temperature. When the last bar turns red, the coolant reaches the dangerous temperature.

11. Ambient Temp.

The current external temperature is displayed here.

Celsius °C and Fahrenheit °F can be switched through the menu.

An icing warning will appear when the ambient temperature is below -5°C or -41°F for a long time, and it means that risks of slippery roads will increase.

12. Menu

Press ENT to enter the menu, and please refer to the Instrument Menu chapter.



1	Cruise Control Indicator	3	Side Stand Indicator
2	Tachometer	4	Stop Indicator

1. Cruise Control Indicator

The current cruise control speed is displayed here.

Cruise Control System Display

The cruise control system consists of a toggle switch and speed adjusting button for system operation, located on the left handlebar switch. The adjustable range for this cruise control system is 24.8 mph (40 km/h) to 80.8 mph (130 km/h) and the gear is 4-6. Once activated, the throttle control does not require manual input, and the vehicle maintains the selected speed. The largest selected speed cannot exceed 80.8 mph (130 km/h).

To activate cruise control:

- Once the vehicle is operating at the designated speed and transmission gear, toggle the control system switch to activate the cruising function.
- Short press "SET/-", the system will set the initial target speed according to the current speed and start cruising.
- Short press 'RES/+' to increase the target speed by 1.2 mph (2 km/h). Short press "SET/-" to decrease the target speed by 1.2 mph (2 km/h).
- Long press of the speed adjusting button to increase or decrease the target speed continuously.

To deactivate cruise control:

- Any braking action, clutch action, or throttle action will release the cruise control system. When the function is deactivated in these ways, press "RES/+" can restore cruise control and the initial speed is the target speed before releasing cruise control.
- If at any time the actual vehicle speed reduces to less than 24.8 mph (40 km/h), the cruise control system function releases automatically.
- Using the control toggle switch or turning off the vehicle power will shut off the cruise control completely.

 **DANGER**

Always turn off the cruise control system when it is not needed to avoid unintended activation.

Drive cautiously when adjusting vehicle speed through the speed adjusting button.

Do not use the cruise control system when traffic is busy, in sharp turns, on winding roads, wet or slippery road surfaces, ice or snow covered road surfaces, steep hills, or hilly roads. It may lead to an out-of-control of vehicle and an accident.

The operator is the main controller of the vehicle, with priority of control over the cruise control system. When the vehicle is in cruise control system mode, the operator can quickly regain control at any time by using the brake, clutch, or throttle operation.

Cruise control is only an auxiliary system to help reduce operating fatigue. Do not rely on its function to compensate for your driving abilities, and be extremely cautious while driving in this mode.

2. Tachometer

Engine RPM unit is 1000 r/min.

Please avoid high engine RPM during a break-in period.

To increase the engine life, do not operate with engine RPM in the red area.

Do not operate the vehicle at high RPM until the engine is warm.

3. Side Stand Indicator

When the side stand is folded out, the side stand indicator will be on and the vehicle cannot be started in gear.

4. Stop Indicator

When the stop indicator light is on, the vehicle is off.

Instrument Menu

Adjust the instrument setting for better driving experience according to the menu.

Operate the left handlebar switch menu buttons to enter into the instrument menu.

WARNING

Instrument menu can be entered only when the vehicle is stopped and safe.

Menu buttons are located on the left handlebar switch, used for operating related instrument functions.



INSTRUMENT SETTING

Adjust the instrument setting for better driving experience according to the menu.

In this menu, there are the following contents:

Motorcycle Information

Phone

Vehicle-phone Connection

Music

Setting



Motorcycle Information

Basic Info

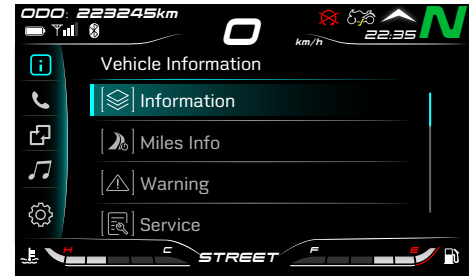
Enter the instrument menu through the left handlebar switch.

On the Information interface, users can view the coolant temperature, voltage, remained mileage.

Enter Menu.

Enter Motorcycle Information.

Enter Basic Info.



Miles Info

ODO, TRIP 1, TRIP 2, Speed, Instant Fuel Economy, Riding Time can be inspected here.

Enter Menu.

Enter Motorcycle Information.

Enter Miles Info.



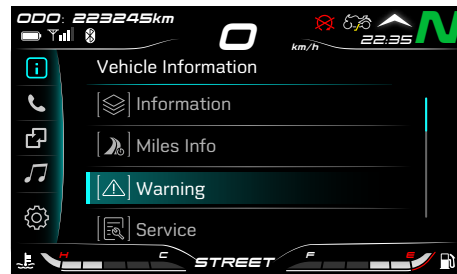
Fault

On the Fault interface, users can view the fault or fault warning when the current vehicle system detects any fault. When the fault occurs, please remove the fault as soon as possible, and contact the after-sales service center authorized by CFMOTO if necessary.

Enter Menu.

Enter Motorcycle Information.

Enter Fault.



Service

On the Service interface, users can view the remained mileage for service.

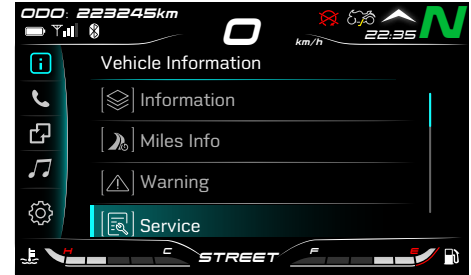
Enter Menu.

Enter the Motorcycle Information.

Enter Service.

Reset:

Press ENT for 10 seconds and a message will pop up for you to confirm the reset, and after confirmation, reset is completed.



Version

Software and hardware versions of the instrument are displayed here.

Enter Menu.

Enter Motorcycle Information.

Enter Version interface.



Phone

Riders can check the call history, contacts, and dial out calls.


Enter Menu.

Enter Phone.

Press button “ \triangle ” or “ ∇ ” to select call history or contacts, and press button “ENT” to enter.

Press button “ \triangle ” or “ ∇ ” to select the person in the contacts, press button “ENT” to dial out the call.

When riders receive a call during riding, press "ENT" to answer.

Press  to hang up the phone and return to the previous interface.



Vehicle-phone Connection

After the phone, helmet and instrument are connected through Bluetooth, Phone and Music can be used.

Connect Bluetooth:

Enter Menu.

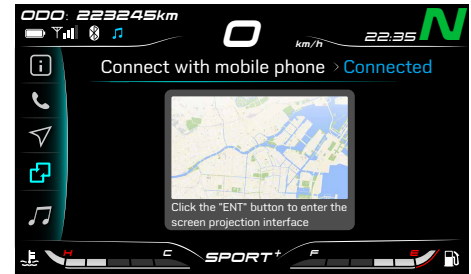
Enter Vehicle-phone connection.

A message will pop up on your phone for you to confirm connection, and press confirm will complete the connection.

Wait for the connection.

When the connection is completed, the message "Connected" pops up.

After the connection, press "ENT" to enter projection interface.



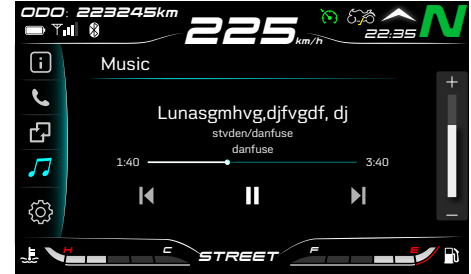
Music

Play music from a cellphone via Bluetooth, and operate in the instrument for functions of the last song, next song and volume adjusting, etc.

When playing music, press button “ \triangle ” to increase the volume, long press button “ \triangle ” to shift to the last song.

When playing music, press button “ ∇ ” to reduce the volume, long press button “ ∇ ” to shift to the next song.

Long press  to exit Music.



Setting

In the Setting, riders could adjust and set the following items:

Drive Mode

Units

Paired Devices

Optional Info

Brightness

Trip Reset

Overspeed Alarm

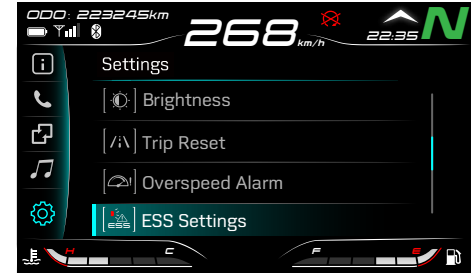
Emergency Signal System (ESS)

Time

Upshifting Reminder

Language

Reset All



Drive Mode

This vehicle offers many drive modes for different road conditions and different riding abilities to optimize the riding experience.

Enter Menu.

Enter Setting.

Shift Drive Mode.



Units

The units for speed, time and temperature can be shifted according to the rider's viewing habits.

Enter Menu.

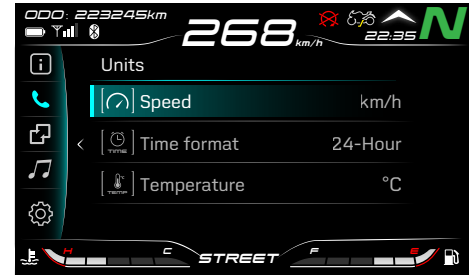
Enter Setting.

Shift Units.

Speed: km/h / mph.

Time: 24 hours / 12 hours.

Temperature: °C / °F .



Paired Devices

Pair a smart phone and a helmet to the instrument through Bluetooth, then Navigation, Phone, and Music can be used.

Following the steps below to pair with a smart phone via Bluetooth:

Enter Menu.

Enter Setting.

Choose paired devices.

Choose Bluetooth.

Make sure the Bluetooth of the phone needed is on.

Press “ENT” to connect or disconnect.



Optional Info

The user can select a message from the menu to be displayed here or on the main interface.

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

Optional Info 2: Mileage, Voltage, Instant Fuel Economy, Fuel Consumption, Total Riding Time, Consumption 1, Consumption 2, Consumption Total, Speed 1, Speed 2, Speed Total.

Enter Menu.

Enter Setting.

Enter Optional Info.

Choose Info 1 or 2.

Choose the items you want.



Brightness

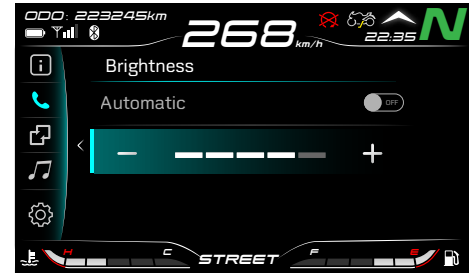
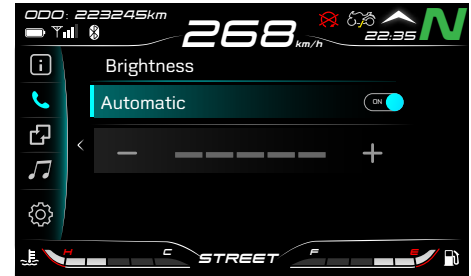
The dashboard brightness can be adjusted manually, or automatically according to the external environment light.

Enter Menu.

Enter Setting.

Turn on Auto and the brightness will be adjusted automatically.

Or enter Brightness Adjustment to choose the brightness you like.



Trip Reset

Reset trip data manually and meanwhile erase relevant trip data.

Enter Menu.

Enter Setting.

Enter Trip Reset.

Choose and reset TRIP 1.

Choose and reset TRIP 2.



Overspeed Alarm

To set an overspeed alarm to remind the driver of the speeding when the indicator shows that the actual speed exceeds the set one.

Enter Menu.

Enter Setting.

Enter Overspeed Alarm.

Adjust the set speed.



Emergency Signal System (ESS)

To set an overspeed alarm to remind the driver of the speeding when the indicator shows that the actual speed exceeds the set one.

Enter Menu.

Enter Setting.

Enter ESS.



Upshifting Reminder

Users can turn on or off Upshifting Reminder and set a certain rpm. When the vehicle speed exceed this set value, there will be a reminder.

Enter Menu.

Enter Setting.

Enter Upshifting Reminder.

Set a certain rpm.

By default: 6500 rpm.



Time

Adjust the time displayed on the main interface.

Enter Menu.

Enter Setting.

Enter Time.

Choose and adjust Hour, Minute, 12-hour or 24-hour system.



Language

Adjust the instrument's language by switching between Chinese and English to suit your reading habits.

Enter Menu.

Enter Setting.

Enter Language.

Choose one language.



Reset All

Reset all instrument Setting.

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

Enter Menu.

Enter Setting.

Enter Reset All.

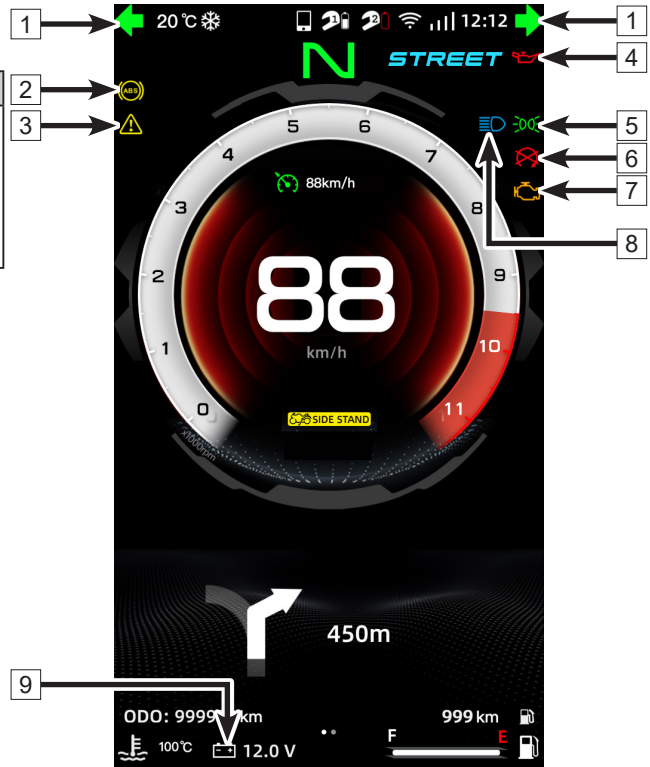
Reset.












INSTRUMENT (Two, If Equipped)

NOTE

With function adjustment and version updates of the instrument and renewed vehicle configurations, some contents of the instrument may change, please selectively refer to this chapter according to your vehicle.

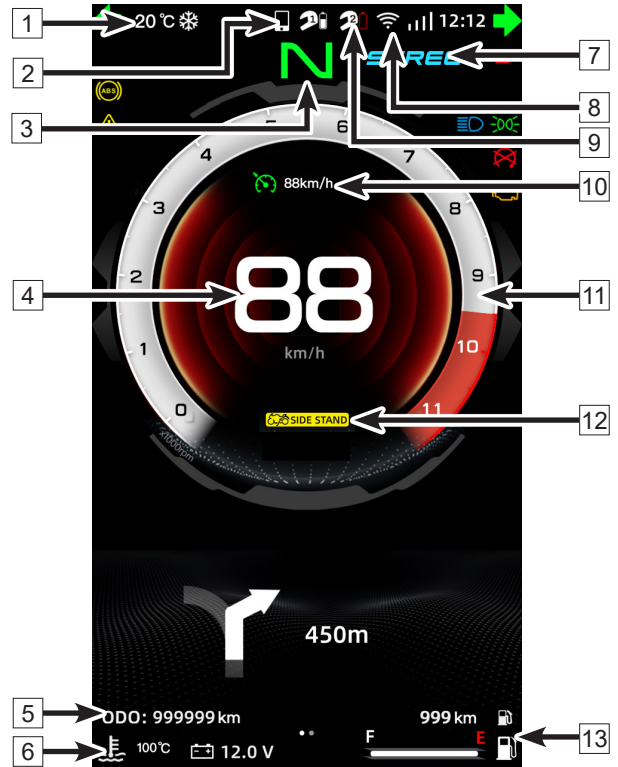


Number	Symbol	State	
1		Turning signal indicator	When turning signal indicators are flashing, the corresponding turning lights are on.
2		ABS indicator	If ABS system works normally, it will be on when the vehicle is in parking state or low-speed riding, which is a normal phenomenon. If there is any ABS fault, 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 the speed and avoid sudden braking and timely contact an authorized CFMOTO after-service center.
3		General warning indicator	The general warning indicator will be on when a vehicle has any fault. Check the detailed fault information in the home interface or in the motorcycle information interface, and contact a CFMOTO dealer for inspection.
4		Oil pressure indicator	When Oil pressure indicator is on, the oil level is very low, so please replenish or replace the oil in time to avoid any engine fault.
5		Position light indicator	When the position light indicator is on, the position light is turned on.

6		Engine off indicator	The engine off indicator will be on when the engine is off.
7		EFI fault indicator	When the vehicle is powered on and the engine is off, the fault indicator is on; if the engine is not off but the fault indicator is also on, then this means that the vehicle detects a fault in its circuit and the fault will be shown in the Instrument Indicators area. When this fault indicator is on, please park the vehicle in line with local laws and regulations, and contact an authorized CFMOTO after-service center.
8		High beam indicator	When the high beam indicator is on, the high beam light is turned on.
9		Charging indicator	The charging indicator will be on when the vehicle is in low power, please charge the battery soon.

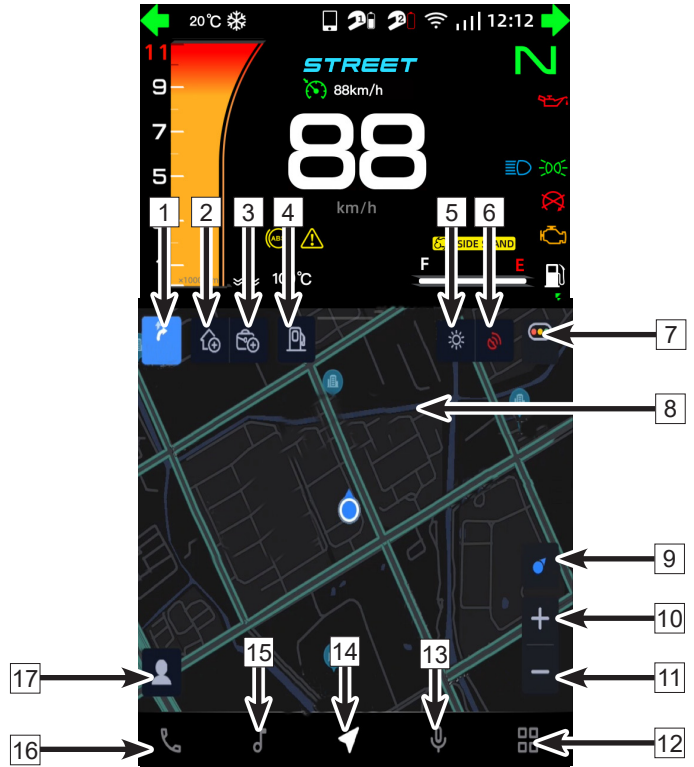
Instrument Display

1	Ambient Temp.
2	Vehicle-phone Connection
3	Gear
4	Speed
5	Clock
6	Coolant Temp.
7	Drive Mode
8	WIFI Connection/Signal
9	Rider/Passenger Helmet connection
10	Cruise Control
11	Tachometer
12	Side Stand
13	Fuel Remained



Navigation

1	Route
2	To home
3	To company
4	To petrol station
5	Climate
6	Signal strength
7	Road condition
8	Navigation page performance
9	Vehicle's head direction
10	Zoom in
11	Zoom out
12	APP
13	Voice control
14	Navigation
15	Multi-media
16	Call
17	Setting



Cruise Control

The cruise control system consists of a toggle switch and speed adjusting button for system operation, located on the left handlebar switch. The adjustable range for this cruise control system is 24.8 mph (40 km/h) to 80.8 mph (130 km/h) and the gear is 4-6. Once activated, the throttle control does not require manual input, and the vehicle maintains the selected speed. The largest selected speed cannot exceed 80.8 mph (130 km/h).

To activate cruise control:

- Once the vehicle is operating at the designated speed and transmission gear, toggle the control system switch to activate the cruising function.
- Short press “SET/-”, the system will set the initial target speed according to the current speed and start cruising.
- Short press ‘RES/+’ to increase the target speed by 1.2 mph (2 km/h). Short press “SET/-” to decrease the target speed by 1.2 mph (2 km/h).
- Long press of the speed adjusting button to increase or decrease the target speed continuously.

To deactivate cruise control:

- Any braking action, clutch action, or throttle action will release the cruise control system.
- If at any time the actual vehicle speed reduces to less than 24.8 mph (40 km/h), the cruise control system function releases automatically.
- Using the control toggle switch or turning off the vehicle power will shut off the cruise control completely.

 **DANGER**

Always turn off the cruise control system when it is not needed to avoid unintended activation.

Drive cautiously when adjusting vehicle speed through the speed adjusting button.

Do not use the cruise control system when traffic is busy, in sharp turns, on winding roads, wet or slippery road surfaces, ice or snow covered road surfaces, steep hills, or hilly roads. It may lead to an out-of-control of vehicle and an accident.

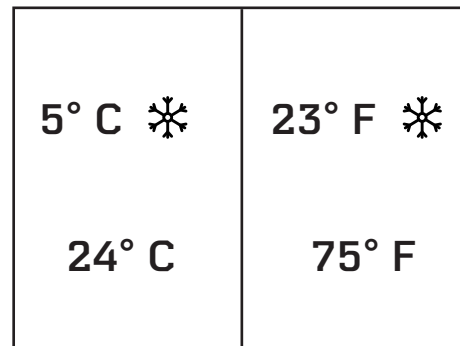
The operator is the main controller of the vehicle, with priority of control over the cruise control system. When the vehicle is in cruise control system mode, the operator can quickly regain control at any time by using the brake, clutch, or throttle operation.

Cruise control is only an auxiliary system to help reduce operating fatigue. Do not rely on its function to compensate for your driving abilities, and be extremely cautious while driving in this mode.

Ambient Temp.

Display the current ambient temperature. It can be shifted between degrees Celsius and Fahrenheit.

The ice warning will be on when ambient temperature is below -41°F (-5°C) for a long time and there is an increased risk of ice on roads.



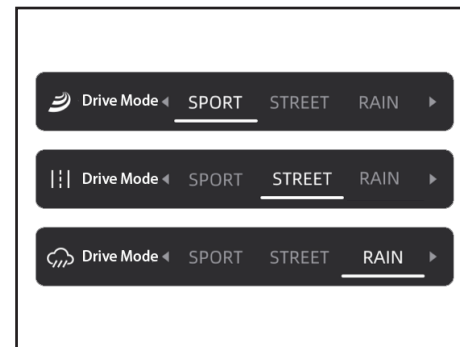
Drive Mode

This vehicle offers many kinds of riding modes for different road conditions and different driving abilities, to optimize driving experience or navigate different terrain.

Press Fn to see Fn menu;

Press Fn to select a drive mode;

Short press ◀ or ▶ to confirm your choice.



Speed


Displays the current vehicle speed.

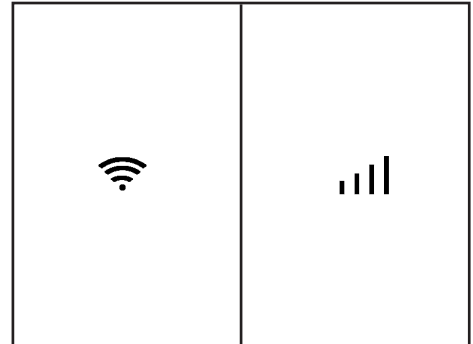
Speed units can be shifted between km/h and mph in the menu.



WIFI Connection/ Signal

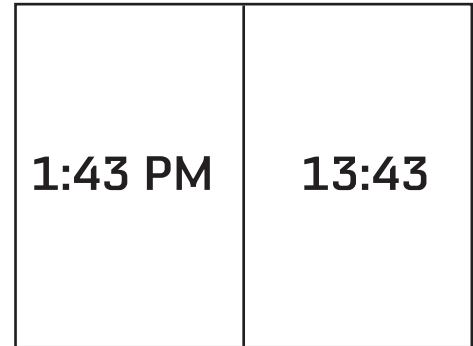
When the instrument is connected to WIFI, it will show the connection icon and signal strength.

Click  to enter APP and click settings, and then click connection to set WIFI.



Clock

Displays the current time. The time is adjustable in the menu and can be shifted between 12-hour and 24-hour modes.



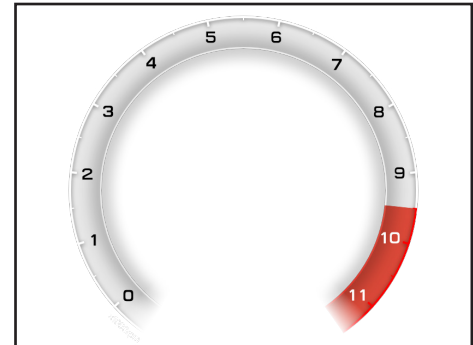
Tachometer

Engine RPM unit is 1000 r/min.

Please avoid high engine RPM during a break-in period.

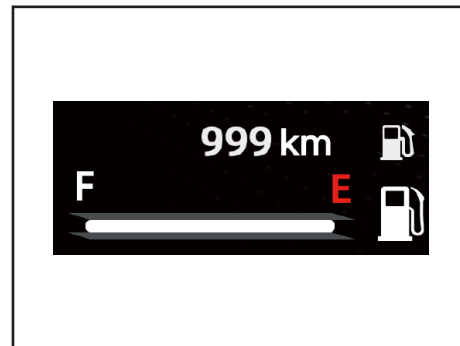
To increase the engine life, do not operate with engine RPM in the red area.

Do not operate the vehicle at high RPM until the engine is warm.



Fuel Remained

When the remained fuel level is approaching E, the fuel is decreasing. When the fuel level is near E, please arrange your travel and timely refill fuel. Operating with low fuel quantity may damage fuel pump.



Side Stand

When the side stand is down, the indicator is on; at this time, the vehicle can not be started with gear.



Coolant Temp.

When an engine is started, a coolant thermometer only show the temperature of engine coolant, which will change variously according to ambient temperature and engine load.

If the temp icon turns red, it means that the temp is too high. If the engine is too hot, the vehicle should be parked and the engine should be cooled.

CAUTION

Too-high temperature may damage the engine.

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

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

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

Gear


Display the current gear position. Neutral is displayed in green.



OTA system upgrade

When the vehicle detection system has a new version, the system upgrade module will automatically send a pop-up upgrade reminder in the upper right¹ of the instrument. If it is not convenient for users to upgrade, they can also enter the system upgrade², download and update the new version in their free time.

Click APP  to split screens.

Click  to enter Setting.

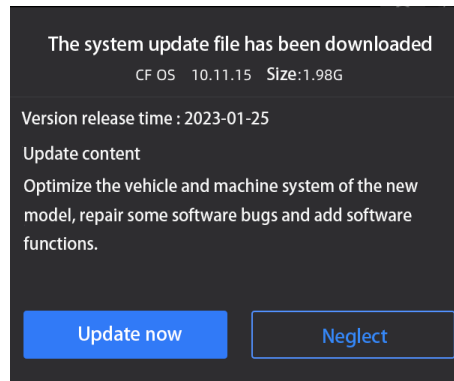
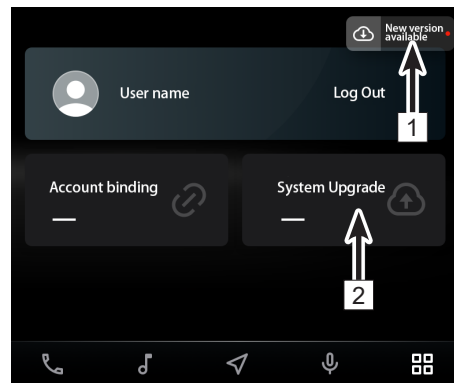
Then enter Membership and system upgrade.

Download the new version and click update.

NOTE:

The upgrade system will restart the instrument with a black screen. Please park the vehicle in a safe area before upgrading. Upgrade the device when the battery is sufficient.

The EFI indicator will light up after the system upgrades. The user can start the vehicle, turn the throttle handlebar in the neutral gear, and finally turn off the engine. Repeat this process three times can turn off the EFI indicator.



Rider/Passenger Helmet Connection

After connecting a helmet and an instrument through Bluetooth, voice control function can only be used.

Follow these steps to connect helmets:

Click APP  to split screens.

Click  to enter Setting.

Click helmet connection through Bluetooth and select your helmet type.

Click Bluetooth switch to turn on Bluetooth and a "helmet connection selection interface" will pop up.

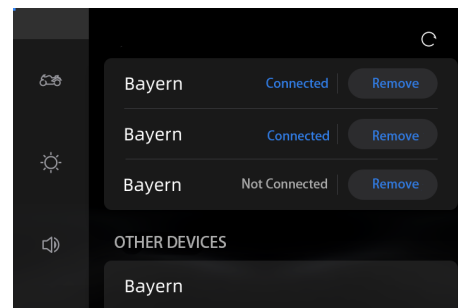
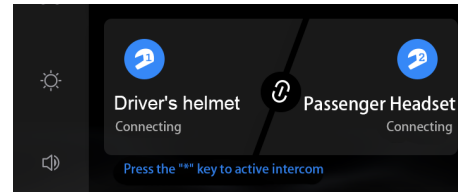
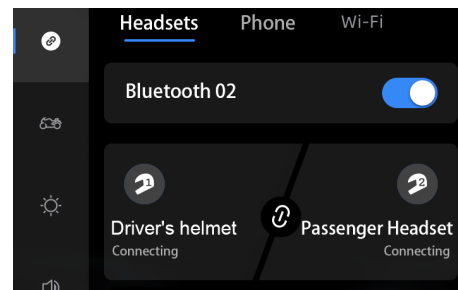
Select a rider/passenger helmet.

After connection, a notice "Connected" will appear.

Intercome function is enabled after two helmets are connected.

Differences between two helmets:

	Call	Music	Voice Control
For riders	Yes	Yes	Yes
For passengers	No	Yes	No




Vehicle-phone Connection

Phone and music can be used after phones and helmets are connected through Bluetooth.

Follow these steps to connect phones:

Click APP  to split screens.

Click  to enter Setting.

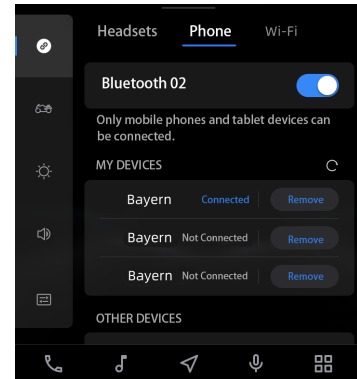
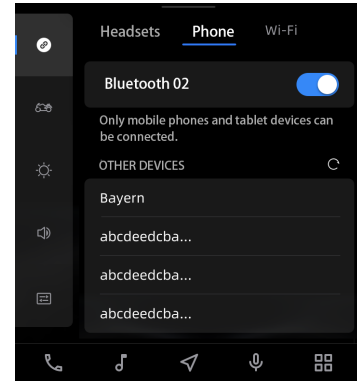
Click phone connection and the instrument will automatically search for available Bluetooth devices.

Select your device.


At this time, a notice will pop up on the phone's screen, click "Yes".

Wait for this connection to be done.

After connection, a notice "Connected" will appear.






Voice Control

Enabling voice control by  on the left handlebar switch. Through voice control, navigation, music, calling, climate message and vehicle control can be used.

NOTE: The function can only be used after a Bluetooth helmet is connected.

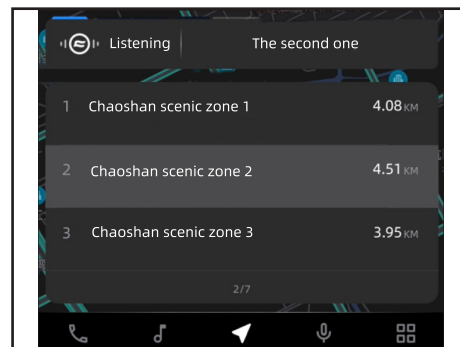
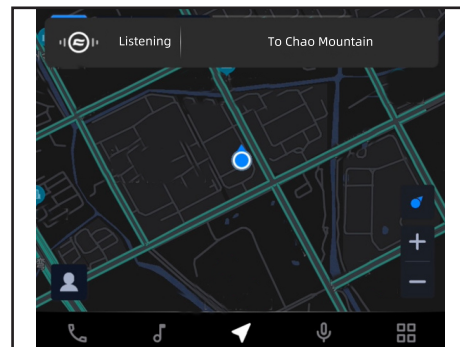
How to activate or stop voice control:

Press  on the left handlebar switch and click  on the instrument, the voice mode will be activated; after a beep, voice control is available.

Press  on the left handlebar switch or say "Cancel", voice control can be stopped.

Navigation through voice control

When voice control is activated, say "To Chao Mountain", the instrument will enter Navigation, and say "next page" to see more choices. During navigation, you can say "cancel navigation" to stop the process.



Use voice control to play music

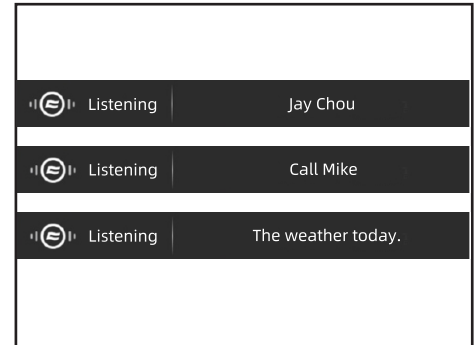
Use multi-media through following sentences and so on:
"Jay Chou".

Make a phone call through voice control

"Call Mike".


Ask weather through voice control

"How is the weather today?"



Safety

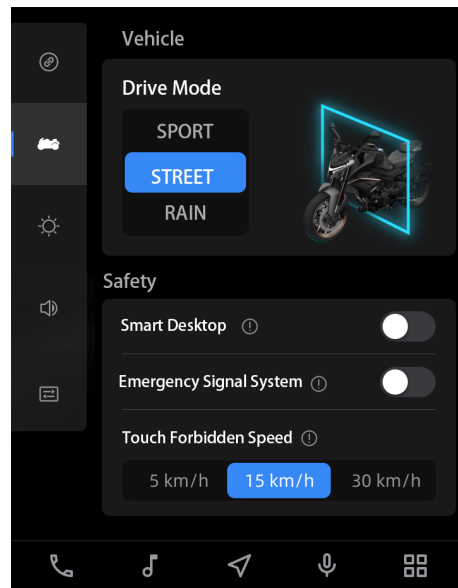
Click APP  to split screens.

Click  to enter Setting.

Click Safety to set the following items:


Switching Drive Mode.

Set Safety assistance.



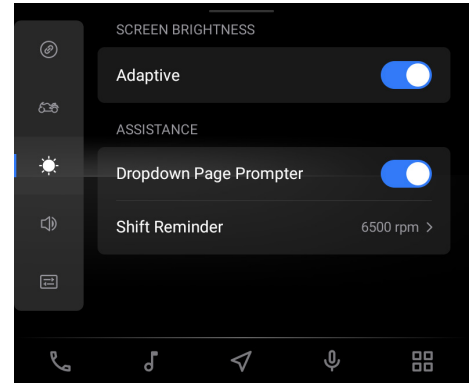
Display

Click APP  to split screens.

Click  to enter Setting.


Click Display to set up Screen Brightness and Assistance.

If Auto is turned off, users can adjust the screen brightness manually.

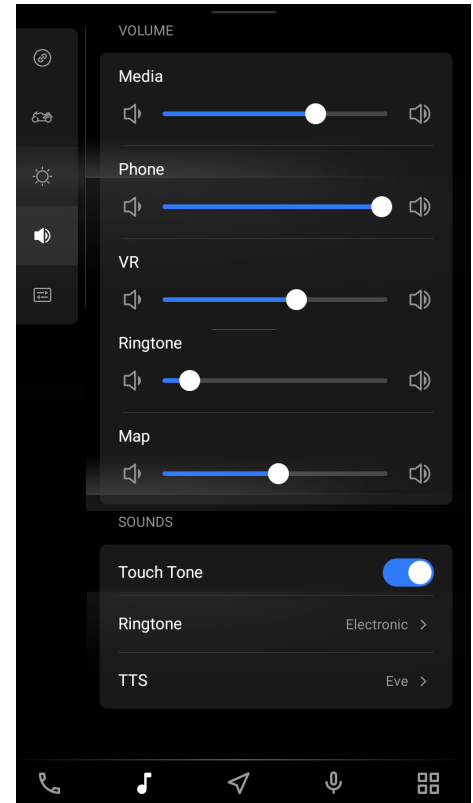


Volume

Click APP  to split screens.


Click  to enter Setting.

Click Volume to set up volume of different functions.

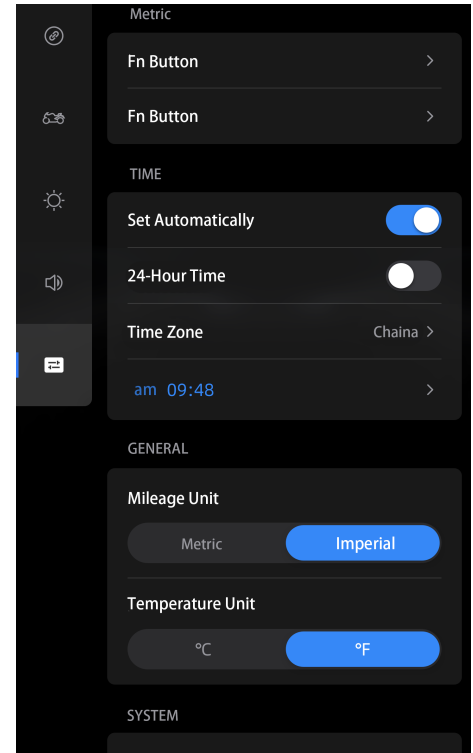


General

Click APP  to split screens.

Click  to enter Setting.

Click General to set up switches, time, general and system.

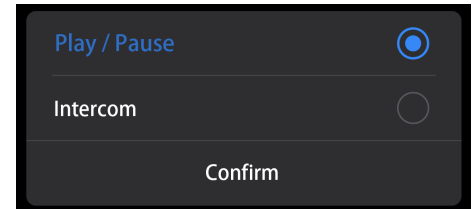
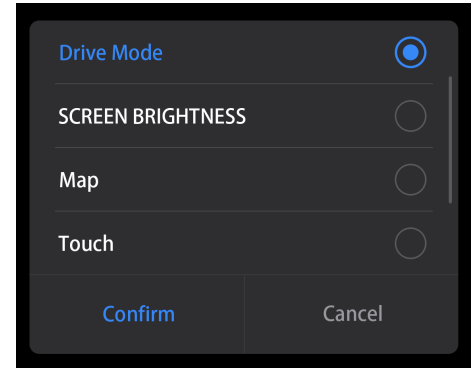
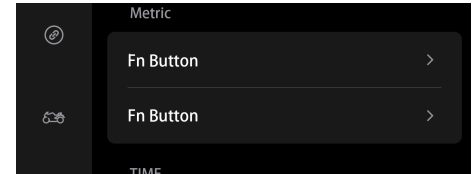


Switches

Fn and custom button can be set up;

Entering Fn button interface, Fn button on the left handlebar switch can be set up;

Entering custom button interface, ***** on the left handlebar switch can be set up.



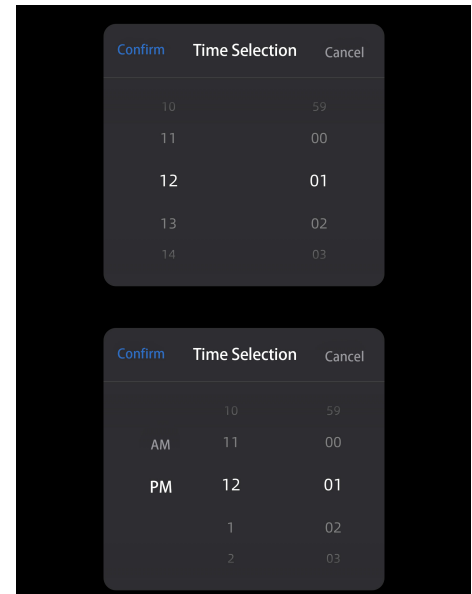
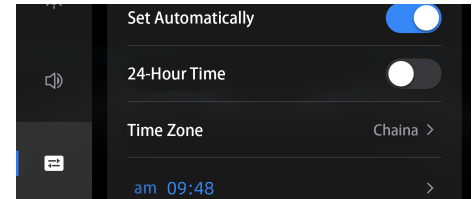
Time

At general interface, users can set up the following items:

12/24-hour time

Set Automatically

After turning off the function of Set Automatically, users can adjust time manually.



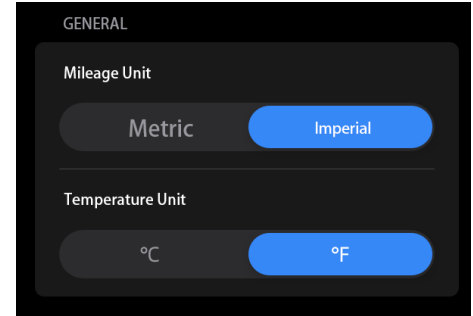
General

At the general interface, users can set up the following items:

System Volume

Mileage Unit

Temperature Unit



System

At the general interface, users can check the following items of this system:

System Version

Hardware Version

MCU Version

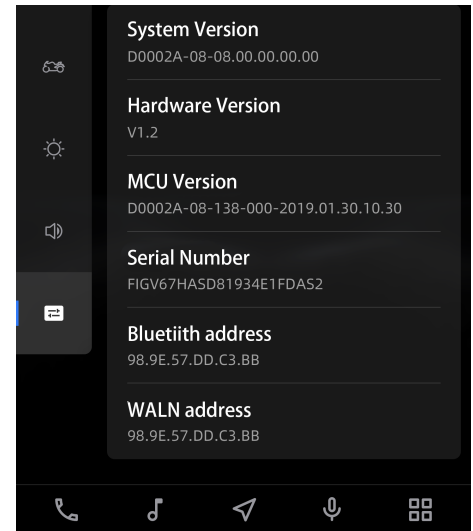
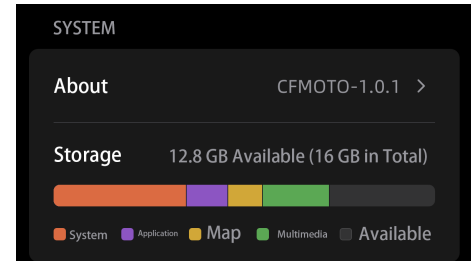
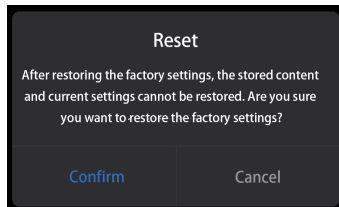
Serial Number

Bluetooth Address

WLAN Address

Reset All

Click Reset All, and click "confirm" to finish the resetting.



CLUTCH LEVER FREE PLAY

Check clutch lever' smoothness.

Turn the handlebar towards the left to the end.

Slowly pull the clutch lever until the resistance is evident. Check clutch lever's position where the clearance is for free play.

Free play: 0.19 in. ~ 0.39 in. (5 mm ~ 10 mm).

WARNING

If there is no free play for a clutch lever, the clutch will start to slip.

Check free play every time before starting the engine.

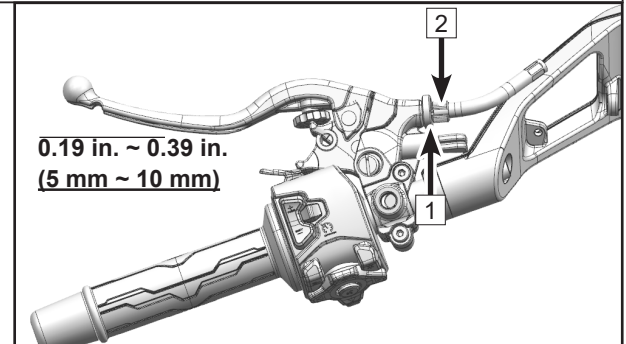
Set the clutch lever free play when necessary.

Clutch lever free play fine adjustment

Turn the handlebar towards the left to the end.

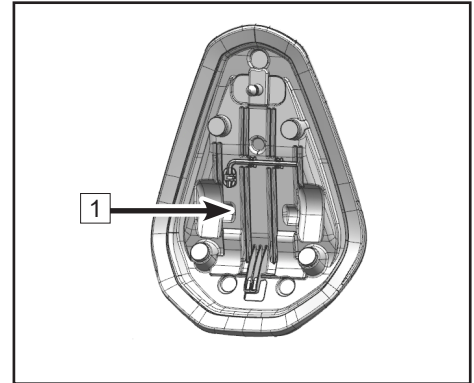
Loosen lock nut **1** and rotate the adjusting nut **2** for adjustment.

Tighten the lock nut **1**.



TOOL KIT

Tool kit **1** is located under the seat. The tools supplied with the vehicle are helpful for partial maintenance, disassembling and assembling.



FUEL SYSTEM

Fuel Tank

Avoid spilling gasoline on the fuel tank when fill with fuel. If a spill occurs, wipe it off immediately to avoid pollution or causing danger.

Fuel tank volume: 15 L(3.96 gal).

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 maintenance or other disassembling behaviors of parts of the fuel system, please contact your dealer for complete inspection to avoid fuel leaks or other dangers.

Dispose of the fuel properly to avoid damage to the environment.

Fuel Requirements

This motorcycle is recommended to use only unleaded gasoline(95# or higher).

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 of 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.

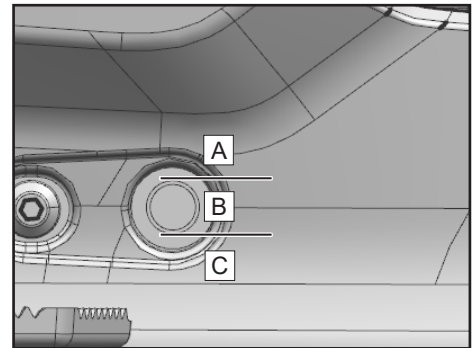
If the running was operated prior to turning off, please wait for 2 to 3 minutes for the oil to settle.

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

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

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 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 by a center stand on the level ground.
Idle the engine for several minutes to warm up the engine, 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 scalded area immediately with running water for more than 10 minutes until feeling no pain and see a doctor.

Place an oil pan under the oil drain bolt position.

Remove oil drain plug, magnet, o-ring and oil strainer assy **1** .

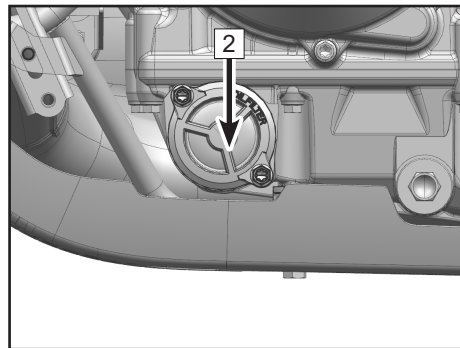
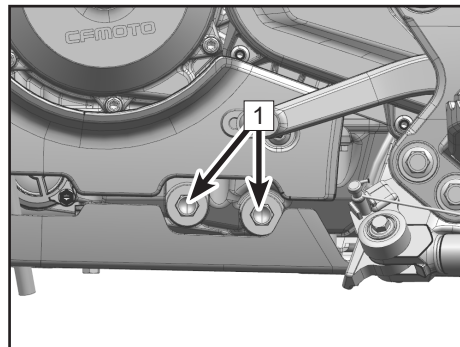
Drain out completely the used oil.

WARNING

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

Remove the oil filter cover **2** and replace the old oil filter with a new oil filter.

Reinstall the oil filter cover (6N•M).



⚠ CAUTION

When mounting the oil filter cover, apply a layer of oil film on the oil filter seal ring.

Clean the oil drain plug, magnet and oil strainer assy.

Replace with new o-ring, then install the oil drain plug (20N•m), magnet and oil strainer assy.

Remove the oil filling plug and o-ring [3].

Fill with 2800 ml oil of SAE10W/50.

Install the oil filling plug and o-ring.

Idle the engine for several minutes, and allow the oil run into the oil filter.

Turn off the engine.

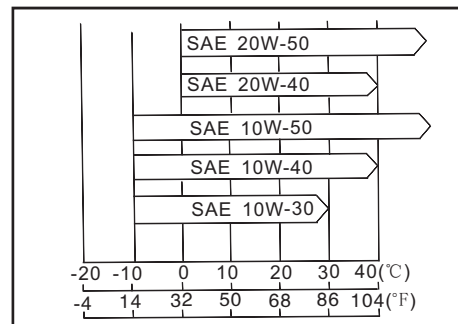
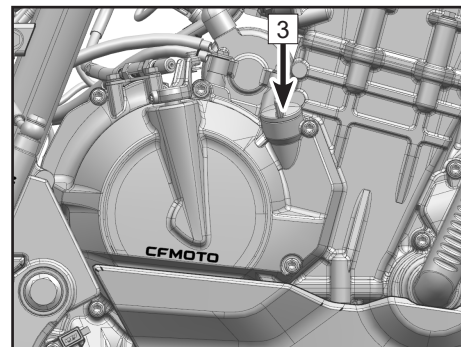
Inspect the oil level and adjust it according to the real level.

Engine Oil Capacity

Replacing oil filter: 3 qt (2.8 L)

CFMOTO recommends the kind of oil with APISJ or higher, with JASO T903 MA2 as the primary choice.

Although 10W-50 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

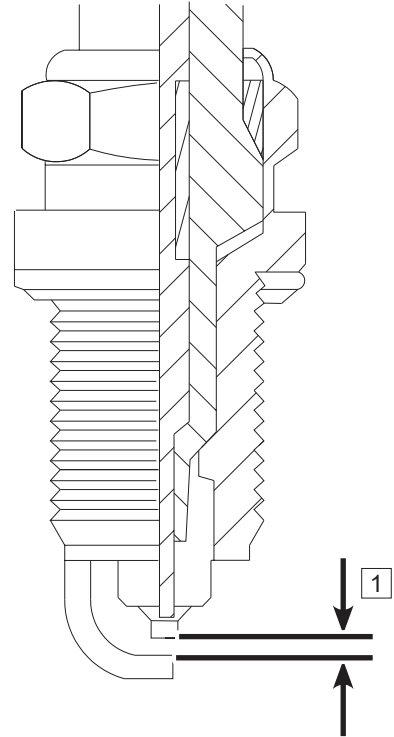
Spark plugs should be replaced in accordance with the Periodic Maintenance Chart.

Spark plug removal should be done by an authorized dealer.

Spark plug type: NGK LMAR9AI-10.

Spark plug clearance 1 : 1.0 mm.

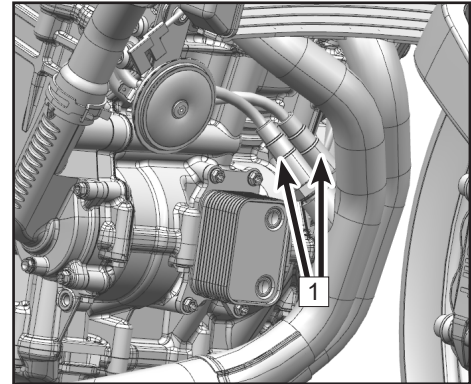
Tightening torque: 10 N•m.



AIR INTAKE AND EXHAUST SYSTEM

Exhaust Detecting System

Exhaust detecting system depends on two oxygen sensors¹ 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 Valve

An air intake valve is a valve which allows fresh air to flow only from the air filter into the engine. Any air that passes through the air intake valve is prevented from returning. Have a dealer inspect air intake valves in accordance with the Periodic Maintenance Chart. Also, have air intake valves inspected whenever stable idling cannot be performed stably, engine power is greatly reduced, or there are abnormal engine noises.

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

Valve Clearance

Valves and valve seats will wear during operation, thus the need for adjustment after being used for a period of time.

WARNING

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

Air Filter

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

CAUTION

Oil on tires and plastic or other parts will cause damage.
If engine intakes the unfiltered air, it will suffer from a negative effect on its service life.
Never start to use the vehicle without an air filter.

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).

Coolant Level Inspection

Park the vehicle by side stand on level ground.

Inspect the coolant level in the reservoir.

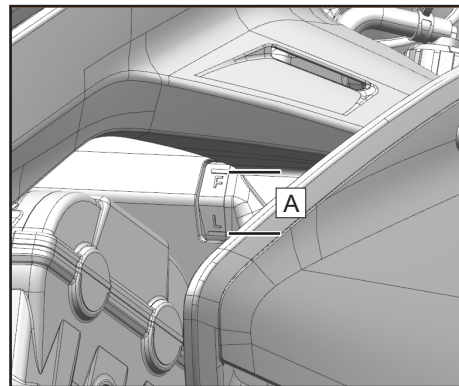
The level should be at A.

WARNING

When the vehicle is running, the coolant will have a very high temperature and stay in a state of compression.

Before the engine or cooling system has cooled down completely, do not open the radiator, radiator hoses, reservoir or other cooling-related parts.

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



Coolant Replenishment

Open the reservoir cover and replenish coolant to A.

CAUTION

If coolant needs to be added frequently, or the reservoir tank 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 CHAINS

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

Tire Specifications

Tire specifications	Front wheel	120/70 R17
	Rear wheel	180/55 R17
Tire pressure	Front wheel	240 kPa
	Rear wheel	260 kPa
Minimum tread depth	Front wheel	0.8 mm ~ 1 mm
	Rear wheel	0.8 mm ~ 1 mm

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

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

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

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

NOTE:

Inspect the tire pressure when the tires are cold.

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

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

 CAUTION

In order to ensure safe and stable operation, please only use the tire and pressure recommended. If the tire is punctured and repaired, please do not ride the vehicle at over 100 km/h until 24 hours after, and the speed cannot exceed 130 km/h at any other time.

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

New tires can be slippery and may cause a loss of control and injury. Please ride the vehicle in proper ways and use different tilt angles to have the tires create friction with the ground over the entire surface. Normal friction surface will be formed after a 200 km break-in period. Avoid sudden braking, heavy acceleration, and high-speed sharp turns during the break-in period.

Below the tire valve is tire pressure detection system. When adjusting the tire pressure or servicing the tire, avoid damaging tire pressure detection system. Tire repair fluid, anti-puncture fluid and other items that may hinder air from entering the tire pressure sensor, which may affect tire pressure sensor and could cause irreversible damage.

Tire Friction

When tire tread wears too severely and the tire cannot be used, the tire becomes more susceptible to punctures and failures. An accepted estimate is that 90% of all tire failures occur during the last 10% of tire service life, so it is unsafe to continue to use bald tires. In accordance with the Periodic Maintenance Chart, measure the depth of the tread with a depth gauge, and replace any tire that has been worn down to the minimum allowable tread depth.

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

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

CAUTION

When the environment temperature is below 14°F (-10°C), it is recommended to place the vehicle indoors if required to be stored for a long time.

Do not use side stand to park the vehicle for long time in winter. Use the center stand (if equipped) or rear-wheel stand to park the vehicle, to let the tires be free of the wheel weight.

Do not allow the tires to sink into snow or ice for a long time when parking the vehicle in winter.

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

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 the gear into Neutral.

Park with the side stand.

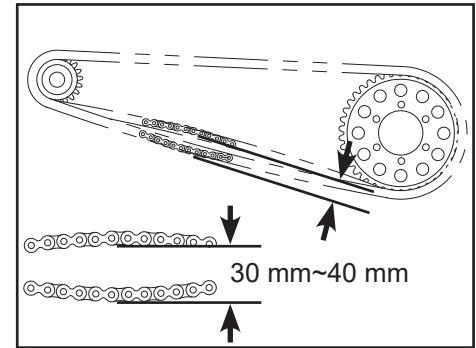
Push up the chain to inspect its tension.

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

Standard value: 1.18 in~1.57 in (30 mm ~ 40 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** .

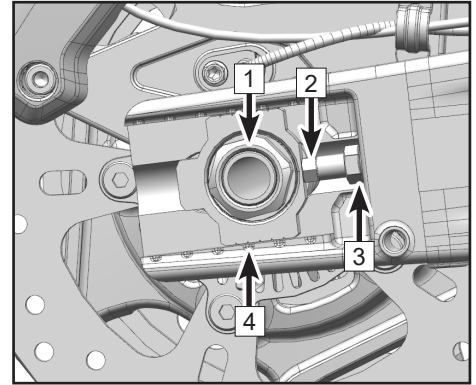
Loosen the left and right locking nuts **3** .

Screw the left and right adjusting bolts **2** to adjust the chain tension, ensuring the alignment marks on the left and right chain tensioners **4** are the same with the reference mark position.

Make sure the swing arm end is touching tightly to the adjusting bolt.

Tighten the left and right locking nuts **3** .

Tighten the rear wheel shaft nut: 66.4 ft-lb (90 N•M).



Wear inspection

Shift the gear into Neutral.

Support the vehicle with the side stand.

Apply chain tensioning or hanging a 22 lb (10 kg) object on the chain.

Measure the elongated length between 20 links.

If the measured length exceeds the standard limit, replace the chain with a new one.

Standard limit: 12.6 in (320.7 mm).

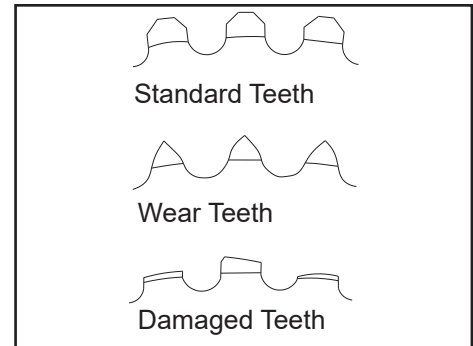
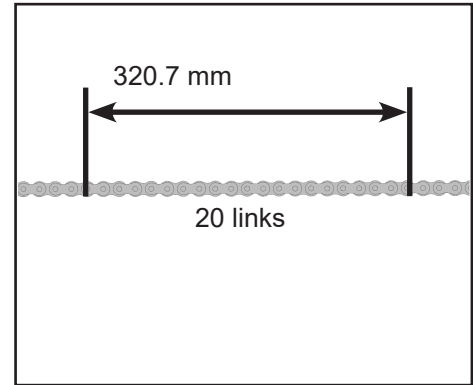
DANGER

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.

Inspect the rear sprocket and engine sprocket tooth surface for any kind of wear.

If the engine sprocket or rear sprocket is worn, then replace the whole set of the transmission.

Inspect chain guard for wear. Inspect chain tightness if chain guard is worn. Replace chain and chain guard if necessary.



BRAKE SYSTEM

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

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. ~ 0.59 in (10 mm~15 mm).

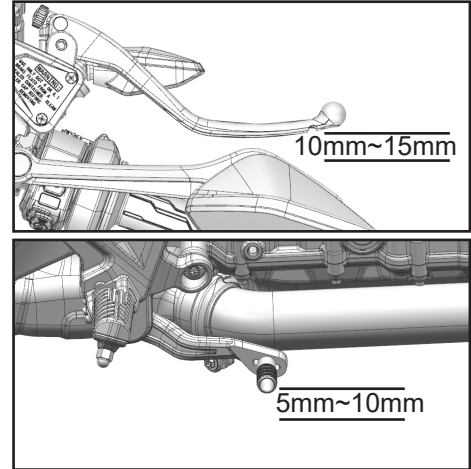
Inspect the front brake lever for any cracks or abnormal noise;
If these problems occur, replace the front lever with a new one.

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. ~ 0.59 in (10 mm~15 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.

Inspect the front and rear brake reservoir fluid levels.

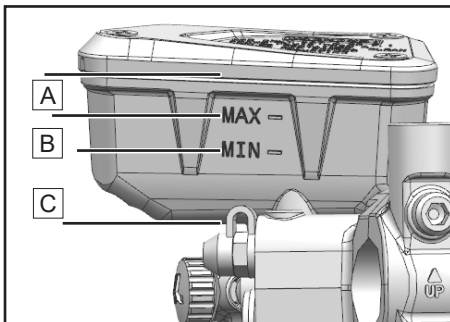
If the brake fluid level is at area 'B': The level is proper.

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

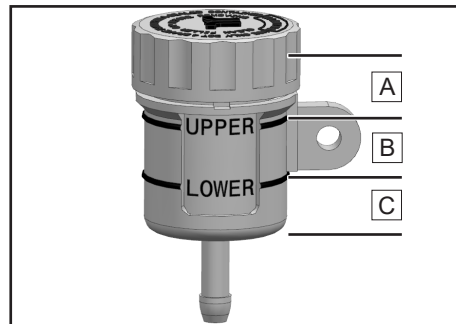
If the brake fluid level is at area 'C' or cannot be seen: Replenish it with the same brake fluid until the level is at area 'B'.

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 or DOT5.1 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--DOT5.1. 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

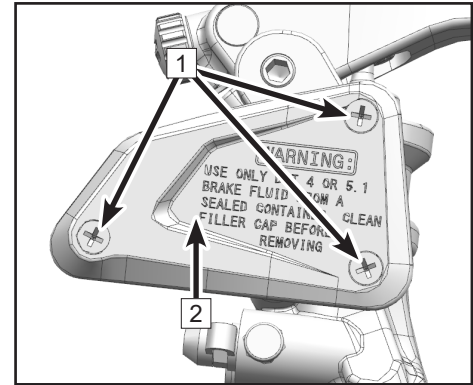
Remove screws **1** .

Remove the cover and reservoir gasket **2** .

Replenish brake fluid to a proper area.

Remount the cover and reservoir gasket.

Mount the screws.



Rear brake fluid reservoir

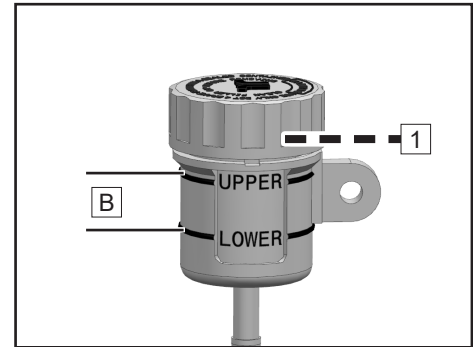
Remove screws.

Remove the cover and reservoir gasket **1** .

Replenish brake fluid to area 'B'.

Remount the cover and reservoir gasket.

Mount the screws.



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. (4mm).

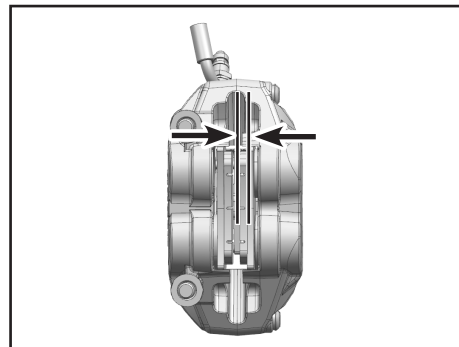
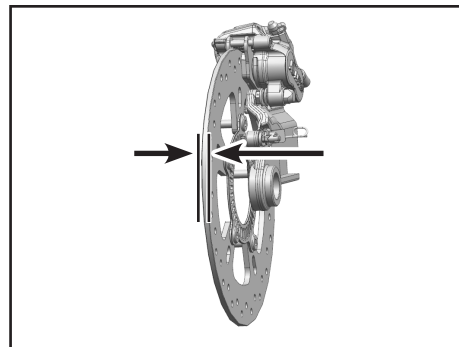
Brake Caliper Inspection

Inspect the brake calipers before riding. Inspect the brake pads for minimum thickness periodically. If the brake pad is too thin, it will cause the steel plate to rub the brake discs, which will severely reduce brake effect and damage the brake system.

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 locking of the wheels when riding in a straight line or a curve without the influence of lateral forces.

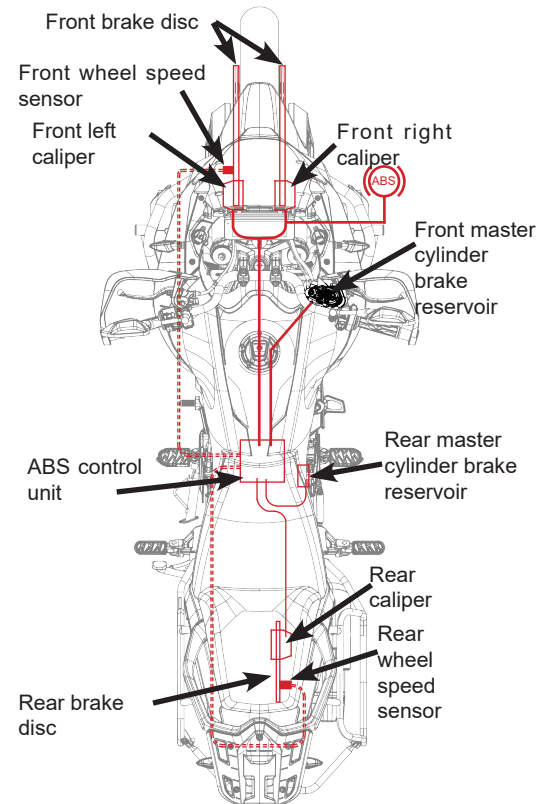
With the assistance of ABS, when riding on gritty, water-logging, sliding or other low-adhesive force roads, the vehicle can use its full brake force and will face no risk of wheel locking.

DANGER

Driving assistance can only prevent motorcycle from rollovers within the physical limits. In extreme driving conditions, such as high baggage loading center of gravity, changeable road conditions, steep slopes and full-speed braking 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 bouncing of the front or rear brake pedals.

When turning on the ignition switch, the ABS indicator must be on, and then be off after the starting. If the ABS indicator is still on after the starting or lights up again during the riding, the ABS must have some fault. If a fault occurs, ABS cannot work, and the wheels may be locked during braking. The braking system itself is still working, and only the ABS adjustment system itself is failing.



SHOCK ABSORBER

Shock Absorber Inspection

Holding the handlebar, compress the front fork for several times to inspect it to see whether its working is smooth;

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

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

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

Inspect the rear shock absorber for oil leak;

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 best position which is suitable for most situations.

Spring Preload Adjustment

When driving on a hard road surface or loading with the maximum load, increasing the spring preload could have a more steady driving experience. When driving on an uneven surface or a soft road surface, decreasing the spring preload could have a more smooth driving experience.

Loosen the lock nut **1** with an absorber adjusting wrench, then turn the adjusting nut **2** to the desired spring preload. Tighten the lock nut after adjustment is completed.

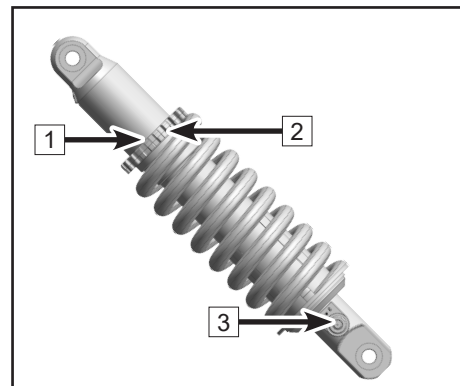
Contact your CFMOTO authorized dealer to adjust the spring preload. Please do not adjust without having proper knowledge of the effects of such an adjustment.

Rebound Damping Adjustment

Rebound damping affects the response speed of shock absorbers. The higher the rebound damping adjuster setting **3**, the slower the rebound speed of the suspension. The lower the rebound damping setting, the faster the rebound speed of the suspension.

Factory setting: 10 Total available settings: 20±2

Rotate the adjuster counter-clockwise (S direction) by a straight screwdriver and record the number of clicks to decrease rebound damping. Rotate the adjuster clockwise (H direction) by a straight screwdriver and record the number of clicks to increase rebound damping.



Fully rotate the adjuster back from the recorded clicks to restore the factory setting. Or, rotate the adjuster counter-clockwise (S direction) to the end, and then rotate it clockwise (H direction) to the 10th click.

Contact a CFMOTO dealer before attempting any suspension adjustment. Please do not adjust without having proper knowledge of the effects of such an adjustment.

 **DANGER**

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

Front Shock Absorber Adjustment

The shock absorbers have been adjusted to the optimal position at the factory, which is suitable for most situations.

Damping adjustment

Rebound damping: TEN Compression damping: COMP

Rebound damping affects the response speed of shock absorbers. The higher the rebound damping setting **4**, the slower the rebound speed of the suspension. The lower the rebound damping setting, the faster the rebound speed of the suspension.

Compression damping affects the response speed of shock absorber. The higher the compression damping setting **5**, the slower the compression speed of the suspension. The lower the rebound compression setting, the faster the compression speed of the suspension.

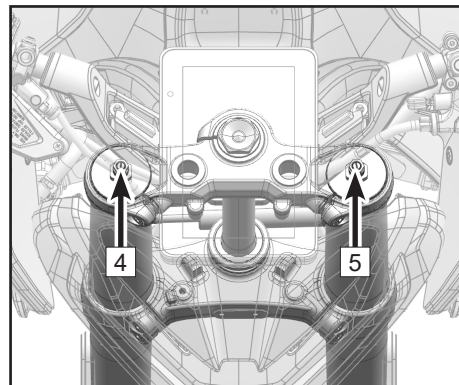
Factory setting: 10 clicks

Total available settings: 20±2 clicks

Rotate the adjuster counter-clockwise (S direction) by a straight screwdriver and record the number to decrease compression damping. Rotate clockwise (H direction) by a straight screwdriver and record the number to increase compression damping.

Fully rotate the adjuster back from the recorded clicks to restore the factory setting, or rotate counter-clockwise (S direction) to the end, then rotate clockwise (H direction) to the 10th click.

Contact a CFMOTO dealer before attempting any suspension adjustment.



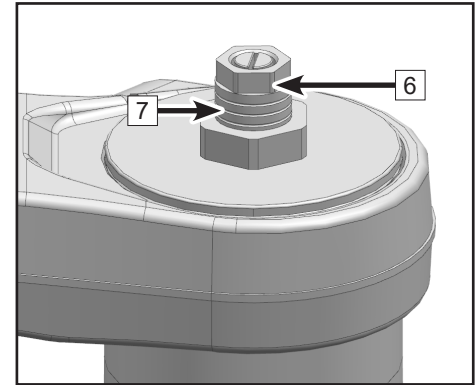
Preload Adjustment

Spring preload influences the force needed for spring compression. The higher the preload, the more force will be needed to compress the spring a certain distance. The lower the preload, the less force will be needed to compress the spring the same distance. Obviously, the higher the preload, the harder the spring.

Turn the preload adjusting nut **6** clockwise direction (H direction) to add spring preload. Turn the preload adjusting nut **6** counter-clockwise (S direction) to reduce spring preload.

When adjusting the preload, ensure the number of mark lines **7** appear equally on both left and right preload adjusters.

Contact a CFMOTO dealer before attempting any suspension adjustment.



ELECTRICAL SYSTEM AND LIGHT SIGNALS

Battery

The battery in this vehicle is a maintenance-free battery. Therefore, 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 only used occasionally, or used for a short time during each ride, the battery can remain discharged. Batteries can also self-discharge from infrequent use. The rate of discharge varies with battery type and ambient temperature. When environment temperature rises for example, the rate of discharge could increase by a factor of 1 for every 15°C temperature rise.

In cold weather, if battery is not charged properly it can easily cause freeze the 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 freeze-proof capability.

Battery Maintenance

Always keep the battery fully charged, or may it damage the battery and result in a shorter life.

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 with an appropriate charger (contact your dealer). If you will not use the vehicle for longer than 2 weeks, the battery should be tended with an appropriate trickle charger. Do not use an automotive type quick-charger that may overheat the battery and damage it.

Battery Recharger

Contact your dealer for battery charger specifications.

Battery Charging

Remove the battery from the vehicle before charging.

Connect the positive and negative wires from the charger and charge the battery at a rate 1/10th Amp of the battery capacity. For example, the charging rate for a 10 Amp-hour battery would be 1.0 ampere.

Ensure that the battery is fully charged before installation.

WARNING

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

Lights

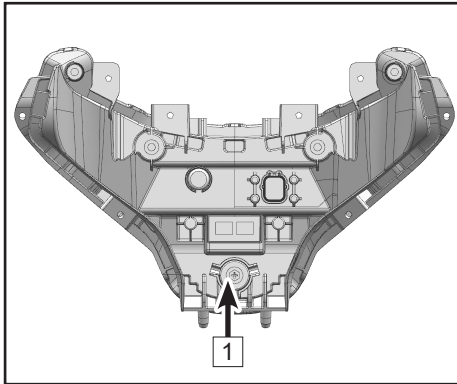
Headlights and foglights are adjustable. Rotate the light adjusting knob **1** to adjust light.

⚠ 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.

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

Headlight beam

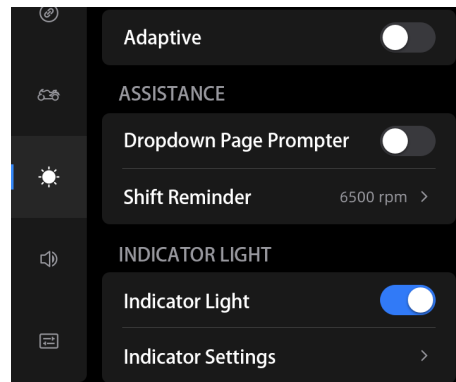
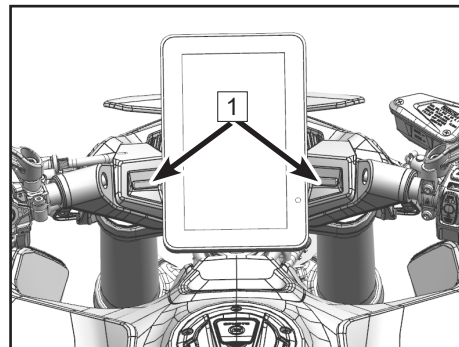


Auxiliary Signal Indicator (If Equipped)

The auxiliary indicator **1** is located on both sides of the vehicle instrument, and some functions' colors can be customized by connecting the instrument or CFMOTO APP to the T-BOX (if equipped). The auxiliary signal indicator can adjust 16 colors.

Application scenarios:

- When the left/right turning signal is on, the green rolling of the indicator light indicates left/right.
- After the vehicle modes are switched successfully, the indicator breathes one time.
- After the vehicle is powered on, the indicator breathes twice and then goes off.
- After the vehicle is powered off, the indicator breathes for one time and then goes off.
- During riding, when the RPM is higher than the one set by the instrument, the indicator is red and flashes, and the frequency is consistent with that of the instrument.



- When the vehicle accelerates, the indicator turns green and breathes for 3 times.
- When the vehicle decelerates, the indicator turns red and breathes for 3 times.
- When the cruise control condition is triggered, the indicator turns green, which is consistent with the instrument cruise indicator.
- Oil failure /ABS failure/TCS failure, the indicator turns red and is on.
- When the fuel is insufficient or the instrument fault indicator is on, this indicator turns yellow and flashes and the frequency is consistent with the instrument indication.

Auxiliary indicator Setting

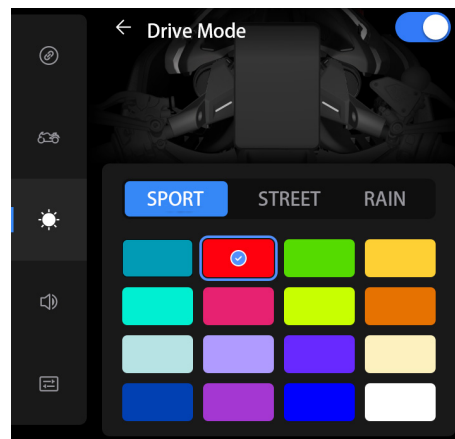
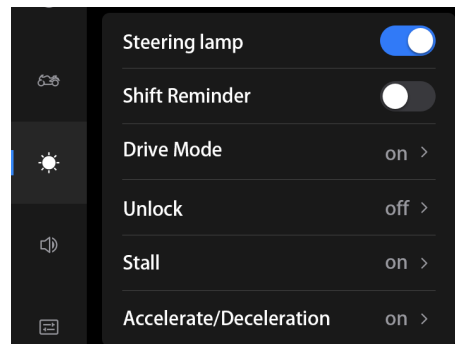
Click APP  to split screens.

Click  to enter Setting.

Then enter the display setting.

Click "Auxiliary indicator Setting" to set the screen brightness and auxiliary functions.

Some scenes can be customized with 16 different colors.

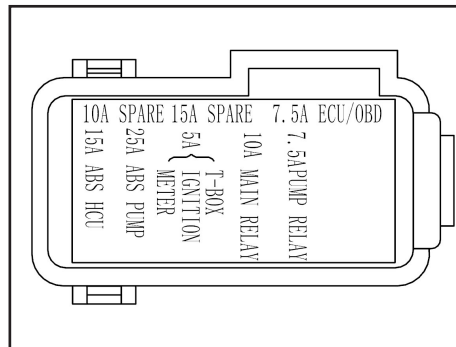
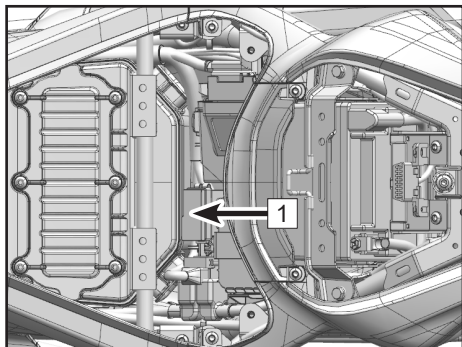


Fuses

A 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. Platinum and rhodium contained inside the converter will react with carbon monoxide and convert hydrocarbons into carbon dioxide and water.

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 the catalytic converter's 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.

OPERATING YOUR VEHICLE

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
Coolant	Inspect the coolant level to see whether it is proper.
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 pads. Inspect thickness of rear brake discs 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	Inspect the luggage to see whether it is fastened securely, and make sure the luggage height is in line with local regulations.
Instrument	Inspect the instrument's fault indicators and inspect the fuel to see whether the fuel is enough.
Rear-view 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/main 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.

Turn on the ignition switch/press start button (if equipped).

Place the gear in Neutral.

Turn the stop switch to position “”.

⚠ CAUTION

Engine warming at high RPM in cold temperatures negatively impacts 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.

Pull the clutch lever and shift into a gear with side stand up, the vehicle can be started.

When the transmission is in Neutral position with side stand up, the vehicle can be started.

If shifting into 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 quickly.

Starting Off

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

Shift to gear 1 and apply the throttle gently (for quick gear shifting).

Shifting, Riding

<p><u>Shifting Gears Without Quick Gear Shifting:</u></p> <p>Grip the clutch lever and release the throttle. Shift the gearshift lever for gears as required. Release the clutch lever and slowly tighten 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 tightened.</p>	<p><u>Shifting Gears With Quick Gear Shifting:</u></p> <p>Slowly tighten the throttle Shift the gearshift lever for gears as required. Hold the handlebar at all times with both hands when driving with the throttle tightened.</p>
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 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 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 faults eliminated.

Take your foot off the foot brake lever when you are not braking. Long-time braking will cause brake pads overheating and excessive wear, which will affect service life and safety.

When carrying a passenger or luggage, the required braking distance will be increased. Please adjust the brake time according to the vehicle load.

When the ABS is used, you can achieve maximum braking power even on low grip surfaces such as sandy, wet or slippery roads with no risk of locking of the wheels.

Parking

Stop the vehicle with brake.

Shift the gear to Neutral.

Turn off the ignition switch.

Park the vehicle on a firm, level ground.

Use side or center stand (if equipped) to support vehicle.

Turn the handlebar left to the maximum, and lock the steering with the key.

Remove and take away the key.

WARNING

When engine is running, do not leave the vehicle unattended.

Secure the vehicle against use by unauthorized persons.

Lock the steering when leaving the vehicle unattended.

After running the vehicle, its temperature will be very high for some parts. Do not touch any 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. High temperature parts may ignite the materials.

Improper parking operation may cause vehicle to slip and roll over, which will lead to severe damages.

The center stand (if equipped) is only intended to support the vehicle and luggage/cargo. When using the center stand to park the vehicle, do not sit on it. Doing so could damage the center stand, or damage the frame, and the vehicle may fall over.

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.

Precaution for Off-road Surfaces

Driving on off-road surfaces (unpaved road) is different from on a paved road. It requires driving experience, and errors may lead to serious injury. Consider joining an ADV club to get more off-road instruction, driving routes, and driving areas.

Always keep a safe distance from other riders ahead of you and behind of you when riding in a group. Never operate carelessly or make unexpected maneuvers with other vehicles close by. Stay on designated trails and riding areas, and discourage others from operating in unauthorized locations.

Pay attention to the following safety precautions to prevent accidents on gentle off-road roads:

DANGER

1. Cargo weight carried in the left and right side boxes should try to be equal. Balance is very important when driving off-road, especially in soft sand terrain or wetland terrain that is easy to get stuck, drift, or requires additional throttle to maintain a constant speed.
2. When driving off-road in complex or extreme surface conditions, reducing the tire pressure appropriately can help for better operating control, ground holding, and stability.
3. Keep constant throttle opening during off-road driving and prevent abrupt throttle changes.
4. Keep the handlebar stable during off-road driving to prevent steering wagging.
5. Try best to use rear brake and engine brake to reduce the speed and maintain steering control.
6. Plan a sensible driving route. Avoid serious conditions or surfaces that are beyond your driving ability. Pay high attention to the conditions during driving and try best to choose solid ground.
7. Try best to bypass deep puddles or muddy ground. Test the water depth and surface condition, and if you can, avoid riding through it.
8. Consult your authorized CFMOTO dealer for more safety information.

BREAK-IN PERIOD

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

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

1. Do not run at high engine speeds immediately when the engine is just started. Allow the engine to warm up for 2 ~ 3 minutes at idle speed and let oil flow into all the engine lubricating parts.
2. Do not run the engine at high RPM when the transmission is in neutral.
3. Avoid driving with full throttle.

Do not exceed specified rpm during the break-in.

Requirement

MAX RPM	
First 1000 km	6500 rpm
After 1000 km	9800 rpm

DANGER

New tires are slippery, which could cause a loss of control and cause damage. Tire pressures should be at the specified value during the 1000 km break-in period. Avoid sudden and maximum braking/acceleration and sharp cornering during the break-in period.

MAINTENANCE

This chapter lists the maintenance schedule. In order to keep the motorcycle in good condition, you must abide by regulations of the maintenance schedule and carry out regular maintenance and adjustment work. The first-time maintenance is also extremely important and cannot be neglected.

Through the extensive introduction of maintenance matters in this chapter, you should be aware of the basic maintenance procedures and proper use of tools. If you lack practical experience or doubt your ability, all adjustment, maintenance and repair work must be done by professional technicians. If you have any further questions, please contact your dealer.

NOTE:

- ▲ = The maintenance interval is shortened by 50% if the vehicle is used badly.
- = Have an authorized dealer repair involved components and systems.

Riding the vehicle under severe conditions, such as muddy or wet roads as well as dusty or dry environment, may increase the load of the transmission system, braking system or air filters and so on. Thus service and replacement of worn parts need to be carried out before the maintenance cycle listed.

Please abide by breaking-in time and maintenance chart stipulated in this manual, which can clearly increase the vehicle's service life.

Break-in Periodic Maintenance Chart

Item	Break-in Maintenance Interval (Maintain the item that reaches the interval first)				
	Hour	Month	Km	Notes	
Engine					
	Oil and oil filter	-	-	1000	Replace
	Coarse oil filter	-	-	1000	Clean
■	Idle	-	-	1000	Inspect and adjust if necessary.
■	Throttle system	-	-	1000	
Electrical system					
■	Functions of electrical parts	-	-	1000	Inspect terminals, clean, and test the battery if necessary.
	Battery	-	-	1000	
	Fuses or circuit breakers	-	-	1000	
Brake					
	Brake discs	-	-	1000	Inspect thickness
	Brake pads	-	-	1000	Inspect thickness
	Brake fluid level	-	-	1000	Inspect
■	Brake hoses	-	-	1000	Inspect brake hoses for damage and to see whether they are sealed.
	Brake lever	-	-	1000	Inspect its function and adjust if necessary.

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

Item	Break-in Maintenance Interval (Maintain the item that reaches the interval first)				
	Hour	Month	Km	Notes	
Wheels					
	Tire condition	-	-	1000	Inspect tire condition and please contact dealers for service if there is a need for wheel calibration.
	Tire pressure	-	-	1000	
Suspension					
■	Rear and front shock absorbers	-	-	1000	Inspect for oil leakage(maintain front forks and the rear shock absorber according to the requirement and purpose).
Cooling system					
	Coolant level	-	-	1000	Inspect the level for leakage.
■	Coolant	-	-	1000	
■	Radiator fan function	-	-	1000	Inspect
	Coolant hoses	-	-	1000	Inspect hoses for leakage and clean.
Steering system					
■	Steering bearings	-	-	1000	Inspect and lubricate.

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

Item	Break-in Maintenance Interval (Maintain the item that reaches the interval first)				
	Hour	Month	Km	Notes	
Other parts					
■	Fault control memory	-	-	1000	Read with PDA.
■	Movable parts	-	-	1000	Lubricate, and inspect their flexibility.
■	Bolts and nuts	-	-	1000	Inspect their firmness.
■	Cables	-	-	1000	Inspect them for damage, bending and inspect their setting.

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

After Break-in Periodic Maintenance Chart

Item	After Break-in Maintenance Interval (Maintain the item that reaches the interval first) (The maintenance interval is shortened by 50% if the vehicle is used badly.)				
	Hour	Month	Km	Notes	
Engine					
	Oil and oil filter	-	12M	15000	Replace.
	Coarse oil filter	-	-	15000	Clean.
■	Clutch	-	-	15000	Inspect and repair or replace if necessary.
	Idle	-	-	15000	Inspect and adjust if necessary.
■	Coolant	-	12M	15000	Inspect and replace if necessary.
	Throttle	-	48M	-	Replace.
	Throttle body	-	-	15000	Inspect and adjust if necessary.
■	Air filter elements	-	-	15000	Clean
■		-	12M	15000	Replace.
■	Spark plug	-	-	30000	Replace.
■	Valve clearance	-	-	30000	Inspect and adjust if necessary.

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

Item	After Break-in Maintenance Interval (Maintain the item that reaches the interval first) (The maintenance interval is shortened by 50% if the vehicle is used badly.)				
	Hour	Month	Km	Notes	
Electrical system					
■	Functions of electrical parts	-	12M	10000	Inspect and repair or replace if necessary.
	Battery	-	6M	5000	Inspect and recharge if necessary.
	Fuses or circuit breakers	-	6M	5000	Inspect and replace if necessary.
■	Cables	-	12M	10000	Inspect for any damage and bending when they are being set.
Wheels					
	Wheel condition	-	12M	10000	Inspect and repair or replace if necessary.
	Wheel pressure	-	12M	10000	Inspect and replenish if necessary.
■	Wheel bearings	-	-	10000	Inspect and repair or replace if necessary.

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

Item	After Break-in Maintenance Interval (Maintain the item that reaches the interval first) (The maintenance interval is shortened by 50% if the vehicle is used badly.)				
	Hour	Month	Km	Notes	
Brake					
	Front and rear braking systems	-	12M	10000	Inspect and repair or replace if necessary.
	Brake discs	-	12M	10000	
	Brake pads	-	12M	10000	
	Brake fluid level	-	12M	10000	Inspect and replenish if necessary.
■	Brake hoses	-	12M	10000	Inspect them to see whether they are damaged and sealed.
	Brake pedals	-	12M	10000	Inspect free play
■	Brake fluid		24M	-	Replace.

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

Item	After Break-in Maintenance Interval (Maintain the item that reaches the interval first) (The maintenance interval is shortened by 50% if the vehicle is used badly.)				
	Hour	Month	Km	Notes	
Suspension					
■	Suspension system	-	-	5000	Inspect and repair or replace if necessary.
■	Front and rear shock absorbers	-	12M	10000	Inspect for oil leakage(maintain front forks and rear shock absorbers according to the requirement and purpose).
Frame					
	Frame	-	-	30000	Inspect and repair or replace if necessary.
Steering system					
■	Steering bearings	-	12M	10000	Inspect and repair or replace if necessary.

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

Item	After Break-in Maintenance Interval (Maintain the item that reaches the interval first) (The maintenance interval is shortened by 50% if the vehicle is used badly.)				
	Hour	Month	Km	Notes	
Cooling system					
	Coolant level	-	12M	10000	Inspect and replenish if necessary.
■	Radiator fan function	-	12M	10000	Inspect and repair or replace if necessary.
■	Cooling hoses	-	12M	10000	
Sprocket and chain					
	Chain lubrication	-	-	600	Inspect immediately after riding in rainy days.
	Chain tightness	-	-	1000	Inspect and adjust if necessary.
	Wear of chain, rear sprocket and engine sprocket	-	12M	10000	Inspect and replace if necessary.
	Guard	-	12M	10000	

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

Item	After Break-in Maintenance Interval (Maintain the item that reaches the interval first) (The maintenance interval is shortened by 50% if the vehicle is used badly.)				
	Hour	Month	Km	Notes	
Other parts					
■	Fault control memory	-	12M	10000	Read with PDA.
■	Movable parts	-	12M	10000	Lubricate, and inspect their flexibility.
■	Bolts and nuts	-	12M	10000	Inspect their firmness.
■	Cables	-	12M	5000	Inspect them for damage, bending and inspect their setting.
■	Pipes, ducts, hoses and sleeves	-	12M	10000	Inspect them to see whether they have cracks, are sealed and set corrected.

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

COMMON PROBLEMS AND CAUSES

Problem	Component	Cause	Solution
Failed engine	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

Failed headlights and taillights	Cables	Poor connections	Adjust
	Left and right switches	Poor switch contact or switch damage	Adjust or replace
	Headlight	Bulb and lamp holder failure or damage	Adjust or replace
	Regulator	Poor connection or burning	Inspect or replace
	Magneto	Poor connection or burning	Inspect or replace
Failed horn	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.

MOTORCYCLE CLEANING AND STORAGE

Maintenance

Always keeping your motorcycle clean and polished will extend the vehicle's service life. And a clean vehicle is easier for you to detect potential faults.

It should be particularly noted that anti-freezing sea water and salt on the road can accelerate corrosion. Therefore, after riding on such roads and waterside roads, the motorcycle must be cleaned entirely.

Washing the Vehicle

1. Rinse the vehicle with water from low-pressure hoses to remove any loose dirt.
2. If necessary, use a soft cloth or sponge with a mild degreaser to remove any dirt and dust.
 - Be cautious when washing the windshield, headlight lens, cover, and other plastic parts as they can be easily scratched.
 - Avoid spraying water into air filters, mufflers and other electrical components.
3. Wash your motorcycle with enough clean water and dry off it with a soft cloth.
4. Lubricate all movable parts after dry off the vehicle.
 - Make sure no lubricating oil on brakes or tires, or brake discs, pads and so on will greatly decrease braking performance and thus a risk of accidents.
5. After clean and dry off the vehicle, lubricate the drive chain immediately.
6. Wax can prevent corrosion.
 - Avoid all harsh chemicals such as solvents and detergents, for they can damage metal parts, painted layers and plastic parts.
 - Do not wax tires and brakes.
 - Do not wax matte painted parts on your vehicle.

Precautions

Follow the items below when cleaning the vehicle:

- Avoid water-cannon

It may damage movable and electrical parts irreparably.

Water at air inlets may be drawn into throttle bodies and/or air filters.

- Avoid spraying water on mufflers.

Mufflers with water may cause failed start and rust.

- Dry our brakes.

Water reduces braking performance. After cleaning, using brakes at low speed and in intervals can help drying.

- Do not spray water under seats.

Water in storage places under the seat will damage your documents and other objects.

- Do not spray water in air filters.

Air filters with water can cause failed engines.

- Do not spray water around headlights.

After cleaning or riding in rain, inner lens of headlights will have fog, but this can not influence their function.

But If you find large amounts of water and ices in the lens, please contact an authorized dealer for service.

- Do not wax the matte painted places.

Use a soft cloth or sponge with mild degreasers to clean matte painted places. Then use a clean cloth to dry out.

Decorating the Surface

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

Windshield 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 fastening glue, 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

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

Leather, Vinyl, and Rubber Products

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

Vinyl parts should be cleaned separately.

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

DANGER

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

Preparation for Storage

Clean the entire vehicle thoroughly.

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


DANGER

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

Replenish new engine oil.

Replenish fuel and fuel additives.

 **DANGER**

Gasoline is extremely flammable and explosive under certain conditions. Turn the ignition key to “

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

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

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

Lubricate 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 first if necessary, then mount the battery.

Do all daily safety inspections.

Lubricate any pivot points as necessary.

Take a test ride.

Telematics BOX (T-BOX) and CFMOTO Ride App

In select markets, this CFMOTO vehicle is equipped with an intelligent terminal box, or T-Box. This feature helps build a communication bridge between the owner and vehicle through the CFMOTO Ride App, which installs on an Android or Apple phone. Contact your dealer for more information on CFMOTO RIDE availability in your market and its features.



Scan this QR code to download CFMOTO Ride APP.

TORQUE CHART

General Torque

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

Mounting place	Item	Torque N•m & Thread locker
Radiator's inlet pipe	Clamp	5 N•m
Oxygen sensor	Oxygen sensor	50 N•m
Front exhaust pipe	Muffler nut	Inside 20 N•m (1) Outside 12 N•m (2) Inside 20 N•m (1)
Front muffler body	Bolt M8*30	25 N•m
Center exhaust	Clamp	8 N•m

Motor's negative wire	Bolt M6x16	6 N•m
Side stand	Bolt	35 N•m (Yes)
Side stand switch	Bolt	2 N•m (Yes)
Rear brake pedal	Nut	25 N•m (Yes)
Rear brake main cylinder assembly	Screw	6 N•m (Yes)
Gearshifting lever and pedal, engine output arm	GB70.2 M6X16	6 N•m (Yes)
Dual hydraulic induction switch	Dual hydraulic induction switch	30 N•m
Rear brake inlet pipe	Banjo bolt II	30 N•m
Single normally closed oil pressure switch	Single normally closed oil pressure switch	30 N•m
Front brake outlet pipe	Banjo bolt II	30 N•m
ABS nylon bracket	Collar bolt M6×14	6 N•m
ABS installing assy	Bolt M6X22	10 N•m
Engine to frame connection	Bolt M10x45	45 N•m (Yes)
Lower part of left front pedal	Bolt M10X65	45 N•m
Lower part of right front pedal	Bolt M10x80	45 N•m
Engine hanger and engine connection	Bolt M10x60	45 N•m (Yes)
Side stand mounting seat	Bolt M10x45	45 N•m (Yes)
Engine hanger and frame connection	Bolt M8X50	25 N•m (Yes)
Upper part of left and right front pedals	Bolt (M12x40) Bolt (M12x60)	100 N•m
Rear shock absorber	Bolt (Lower) M12X60	80 N•m (Yes)
	Bolt (Upper) M12x60	80 N•m (Yes)

Output shaft	Nut	100 N•m (Yes)
Battery negative wire, motor positive wire (engine negative wire is above the start wire)		10 N•m
Subframe	Main and sub frame upper bolt M10X30	60 N•m (Yes)
Subframe	Main and sub frame lower bolt M10X30	60 N•m (Yes)
Radiator fan assembly upper side	Stepped bolt M6×25	5 N•m
Radiator fan combination middle front	M6X10	5 N•m (Yes)
Steering damper (with frame)	Bolt M8X25	25 N•m (Yes)
Steering and cover	Screw M8X25	20 N•m
Balancing block assembly	M8×70	20 N•m (Yes)
Balancing block assembly	M8×50	20 N•m (Yes)
Steering column	Nut	20 N•m
Steering damper and lower triple clamp	Bolt M8X25	25 N•m (Yes)
Front brake main cylinder brake tube	Banjo bolt II	30 N•m
Front Shock absorber on lower triple stamp	Screw M8×30 (Upper)	20 N•m (Yes)
	Screw M8×30 (Lower)	18 N•m (Yes)
Front Shock absorber on upper triple stamp	Hexagon socket head cap screw M8×30	20 N•m (Yes)
Upper triple clamp	Hexagon socket head cap screw M8×25	20 N•m (Yes)

Shock absorber and front wheel shaft	Hexagon socket head cap screw M8×20	25 N•m (Yes)
Chain guard	Hexagon socket stepped screw M6×14	8 N•m
Front bracket welding assembly	Hexagon socket head cap screw M6X8	10 N•m (Yes)
Horn bracket and frame	Bolt for frame M8X16	15 N•m (Yes)
Horn and bracket	Bolt for horn M6X22"	10 N•m
Carbon canister and frame		5 N•m
Rear mounting seats of fuel tank	Bolt M6×12	10 N•m
Chain	stepped screw set M5	5 N•m
Rear wheel	Nut	90 N•m
Fuel pump	Bolt M6x16	5 N•m
Fuel level sensor	Nut	10 N•m
Rear footrest rubber and footrest seat	Screw	5 N•m (Yes)
Front wheel	Front wheel shaft tightening screw	50 N•m
Front caliper	Bolt M10×1.25×60	45 N•m (Yes)
Brake fluid hose	Banjo bolt	25 N•m
Speed sensor of front and rear wheels	Bolt M6X16	7 N•m
Front fender	Self-tapping screw	2 N•m
Rear footrest assembly on frame	Screw M8X20	25 N•m
Rear muffler body	Cramp	8 N•m

Rear muffler	Hexagon socket head cap screw M8X35	25 N•m
Muffler guard	Hexagon socket head cap screw M6X12	5 N•m
Small sprocket guard	stepped screw set M5	5 N•m
Gearshifting connection lever and connection seat	GB70.2 M6X16	6 N•m (Yes)
Front seat	Hexagon socket head cap screw M6×25	10 N•m
Front brake disc	M8X25 screw	25 N•m (Yes)
Rear brake disc	M8	25 N•m (Yes)
Rear sprocket	Hexalobular socket raised countersunk head screw M8X26	25 N•m (Yes)
Instrument and instrument bracket	M6	10 N•m

6KWV-380101-1200-12 EU234

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