

Arctic Leopard



ARCTIC LEOPARD



**E·XE Models
(Full Range)**

USER MANUAL

Carefully read the instructions before using the product.

The instruction contains important information about safety. Keep the instruction in a secure place. The driver must have a valid driver's license. Do not use this motorcycle until you are fully familiar with its features.

Dear customers,

Thank you sincerely for purchasing this product, manufactured by Zhejiang Arctic Leopard Electric Technology Co., Ltd. We hope you enjoy using it. Ride safely!

Please carefully read the operating instructions before riding the motorcycle. It contains not only troubleshooting and maintenance instructions but also recommendations for preventing road accidents and protecting against injuries.

This user manual also contains the latest information about the product. There may be minor changes between your motorcycle and the motorcycle described in this manual due to continuous improvements of the product. In such cases, please refer to the actual product.

Zhejiang Arctic Leopard Electric Technology Co., Ltd. reserves the right to make changes to this operation manual at any time without prior notice. We are not responsible for such changes.

If you have any questions regarding this operation manual, please contact the authorized dealer from whom you purchased the motorcycle.

Any reproduction of this user manual without written consent from Zhejiang Arctic Leopard Electric Technology Co., Ltd. is prohibited. Illegal modification of the vehicle is prohibited.

This user manual applies to the following motorcycle models: E · XE Mode.

This user manual adheres to the standards GB/T9969-2008 and GB/T19678.1-2018.

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First edition, April 2024.

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Chapter 1. Safety While Riding

1.1 Safety Rules

As a owner, you are responsible for the safe and proper operation of the vehicle. Before riding this motorcycle, the driver must familiarize themselves with the following requirements:

- The rider must undergo training for safe riding and possess appropriate certificates. Follow the warnings and maintenance requirements specified in the operation manual. Operate the motorcycle only on roads permitted by local regulations.
-

1.2 Protective Equipment

Make sure that the helmet, protective glasses, and visible protective clothing meet national requirements. Consider weather conditions and road status to ensure adequate protection.

Helmet

It is recommended to choose a helmet in a bright color, of the appropriate size, and that complies with national standards. Lack of a helmet can increase the risk of serious injury or death in the event of an accident.

Gloves

Choose strong leather gloves with full finger coverage. Consider the weather conditions when selecting insulated and anti-slip gloves.

Boots

Choose protective footwear that fits snugly on your feet but does not restrict your ability to control the motorcycle.



Warning

Before each ride, make sure your shoelaces are securely tied. Getting shoelaces tangled in the mechanisms of the motorcycle can have serious consequences.

Clothing

Choose a bright long-sleeve shirt with a protective effect and sturdy pants (or a protective suit) suitable for riding.

1.3 Precautionary Measures for Safe Driving

Make sure you are healthy and can focus while driving. Do not consume alcohol or drugs before or during driving.

- Drive carefully and keep your hands on the handlebars and your feet on the footpegs. Pay attention to the road and be ready for emergency braking or maneuvers. Avoid riding when tired, as it reduces alertness and the ability to make sound decisions. Keep the motorcycle in good condition. The braking efficiency of the motorcycle decreases on wet or slippery roads—drive slowly and carefully.

Safety while riding

1.4 Recommended Actions in Emergencies

First and foremost, take care of your safety. If you or other accident participants have sustained injuries, assess their condition and decide whether it is safe to continue moving.

If necessary, call emergency assistance. Follow the legislation regarding actions after a traffic accident. If you decide to continue, turn off the power and check the condition of the motorcycle.

Check the battery's functionality, the tightness of nuts and bolts, as well as the operation of the handlebar, brakes, and wheels.

After an accident, be sure to send the motorcycle for inspection to a qualified center. During transport, pay attention to the following:

- If the motorcycle is seriously damaged, there is a risk of electric shock. Do not touch electrical components or wires. Avoid contact with the battery. In case of fire, use a fire extinguisher for electrical fires and immediately call the fire department.
-



Hazard

This motorcycle uses a lithium battery V72. Improper disposal after an accident can lead to serious injuries or death. Follow the operation manual for its disposal.

1.5 Battery

If the battery emits a smell or smoke, it may indicate a malfunction. Immediately park the motorcycle in a safe outdoor location, away from flammable materials, turn off the power, and contact an authorized dealer. Do not disassemble or modify the battery yourself.

1.6 Brake system

Preventive measures for brakes:

- Avoid sharp braking, as this can reduce the stability of the motorcycle. Before turning, reduce speed if possible; otherwise, there is a risk of falling. Be particularly cautious on slippery roads—
- tires can slide, and the braking distance may increase. On long and steep descents, constant braking can overheat the system and
- decrease braking efficiency. For better braking, use both the front and rear brakes simultaneously.
-

- Some unfamiliar sounds after long rides are normal and do not affect the operation of the motorcycle.

1.7 Accessories and Modifications

We strongly recommend against installing additional accessories and changing the design of the motorcycle, as this may create a hazard. Modifications can void the warranty. Before installing accessories, ensure that they are safe and permitted by law.

Danger

Incorrect accessories or modifications can lead to accidents that may result in serious injury or death.

1.8 Maximum Load

- Overload may affect the handling, braking, and stability of the motorcycle. Avoid overload and adhere to the recommended load capacity.

Maximum Load: 75 kg

- When transporting heavy items, maintain a safe speed. Secure the load properly and avoid any shifting during movement.
- Do not place items near the engine.

Warning

Overloading, improper load placement, or carrying extra passengers can cause an accident that leads to serious injury or death. Follow loading rules for the motorcycle.

Chapter 2. Important Information

2.1 Warning Signs

Special Important information in the operation manual is marked with the following symbols :



Danger

Failure to follow instructions may result in serious injury or death.



Caution

Failure to follow the instructions may result in serious injury or death.



Attention

Failure to follow instructions may lead to injuries.



Careful

**Take special precautions to prevent damage to the electric motorcycle or others.
property .**

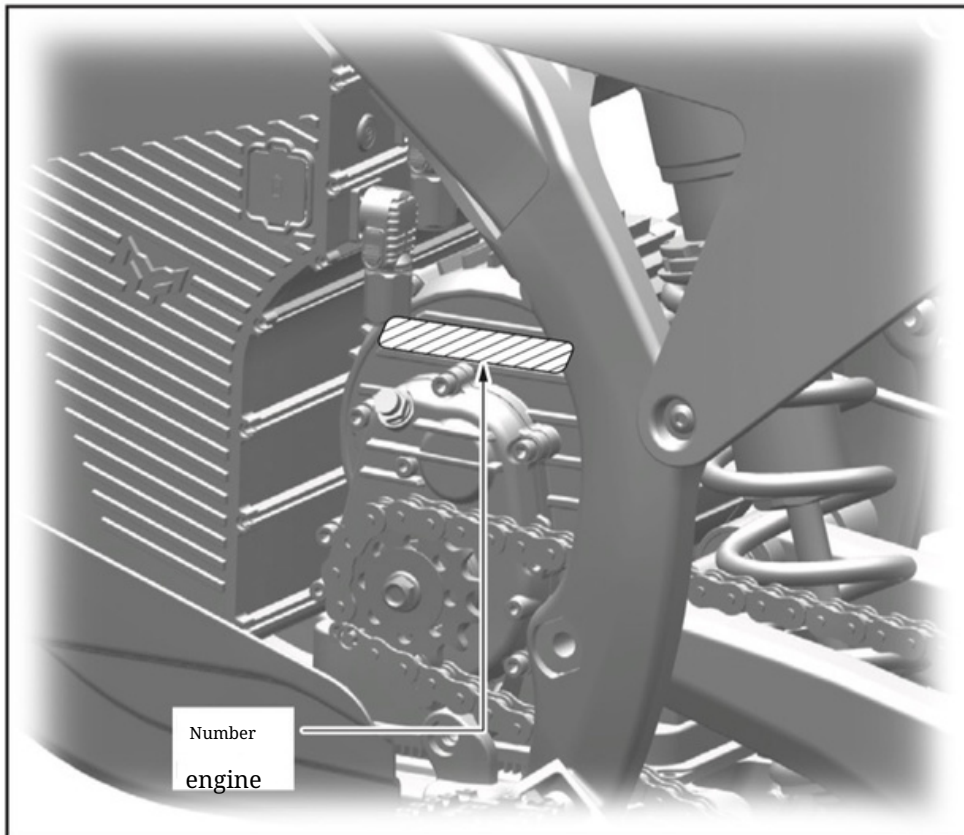
Your safety and that of others is extremely important, and as a motorcycle owner, you are responsible for the safe and proper use of your vehicle. This operation manual contains instructions for the safe use and maintenance of the motorcycle to help you make the right safety decisions.

This information warns about potential hazards that could harm you or others. Be sure to follow these instructions regarding the operation and maintenance of the motorcycle.

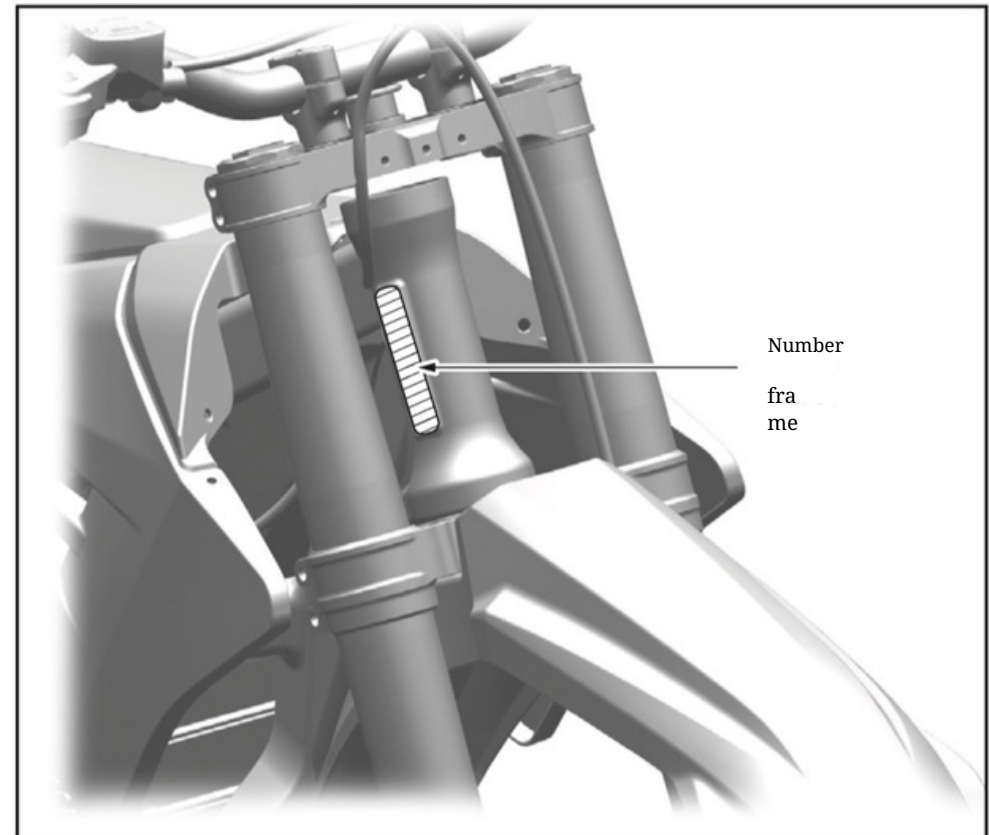
2.2 Vehicle Information

This information may be needed by your dealer when ordering spare parts. You can find information about your motorcycle in the location specified below.

Engine Number

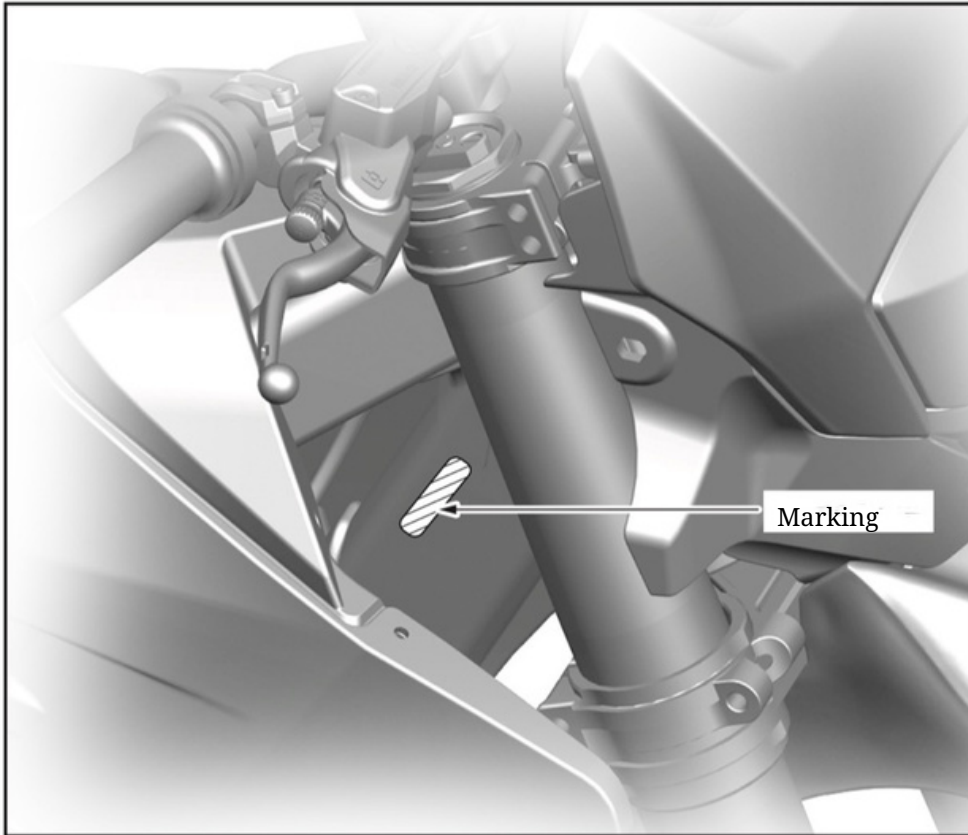


Frame Number



Important Information

Marking



2.3 User Manual and Pre-trip overview

User Manual

- Install the license plate according to the Traffic Regulations. It is
- strictly prohibited for persons under 18 years old to operate a motorcycle. If there is no separate lane for non-motorized vehicles,
- you should travel on the right side of the roadway. Do not lend the motorcycle to persons who do not know how to operate it.
- Transport passengers or cargo in accordance with the requirements of standards and regulations. Always wear a helmet and
- other protective equipment. During rain or snow, the braking distance increases. Reduce speed and avoid riding in extreme
- weather conditions, especially during blizzards. Do not park the
- motorcycle in building lobbies, on emergency stairs, in hallways, or near emergency exits. Do not charge or park the motorcycle in residential buildings. Charging should be done away from
- flammable materials, and the charging time should not be excessive. Do not disassemble used batteries on your own. Their disposal should be handled by specialized organizations. Before
- use, familiarize yourself with the proper use and maintenance of the battery. The new charger must be compatible with the current battery model.
-
-
-

Driver requirements (the following individuals are prohibited from operating this electric motorcycle):

Individuals under the age of 18. 1. Individuals who cannot operate a motorcycle due to pregnancy or 2. illness. Individuals under the influence of alcohol or narcotic substances. 3. Individuals whose weight exceeds the specified limit (the maximum load is 75 kg).

Pre-trip overview

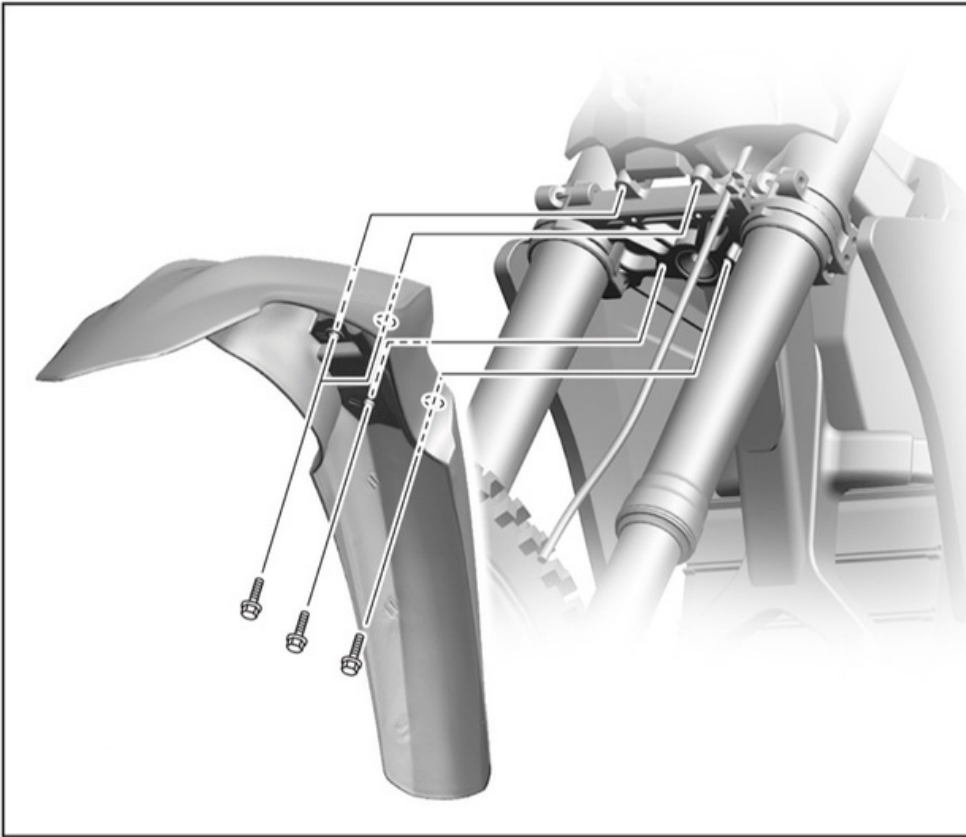
Before the trip, check:

- Is the tire pressure normal, and are there no damages or foreign objects in the tires? Are the nuts and bolts of the front and rear
- axles securely tightened? Is the reflector undamaged and clean? Do
- the power supply and electrical systems operate without
- interruptions? Is there enough battery charge for the trip? Do the
- front and rear brake systems function correctly? Does the speed
- control handle return and reflect properly? Do the front and rear
- shock absorbers compress and return to their normal position, and are there no oil leaks or foreign objects that could affect their
- performance?

Chapter 3. Installation of Components

3.1 Installation of the Front Wing

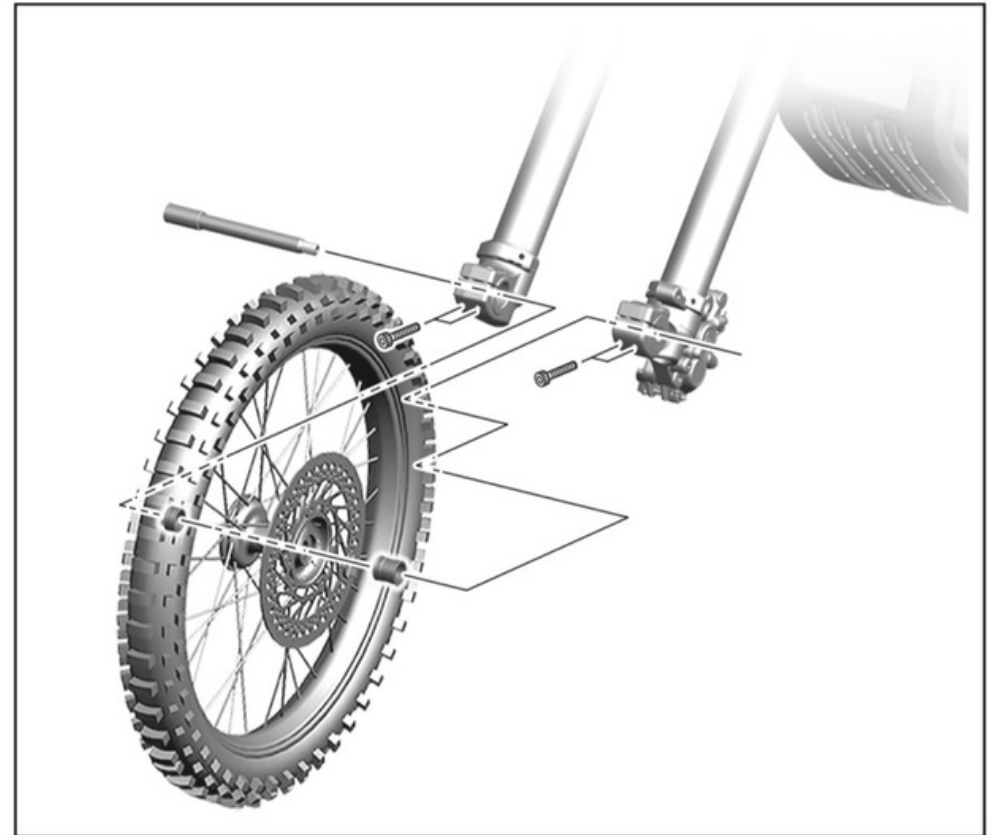
Install the front fender and secure it with bolts. 1.



To remove the front wing, perform the actions in reverse order of installation.

3.2 Installation of the Front Wheel

Remove the retaining bolts from the front wheel axle. 1. Using an Allen wrench, remove the front wheel axle. 2. Install the front wheel, front wheel axle, and retaining bolts in the correct order.

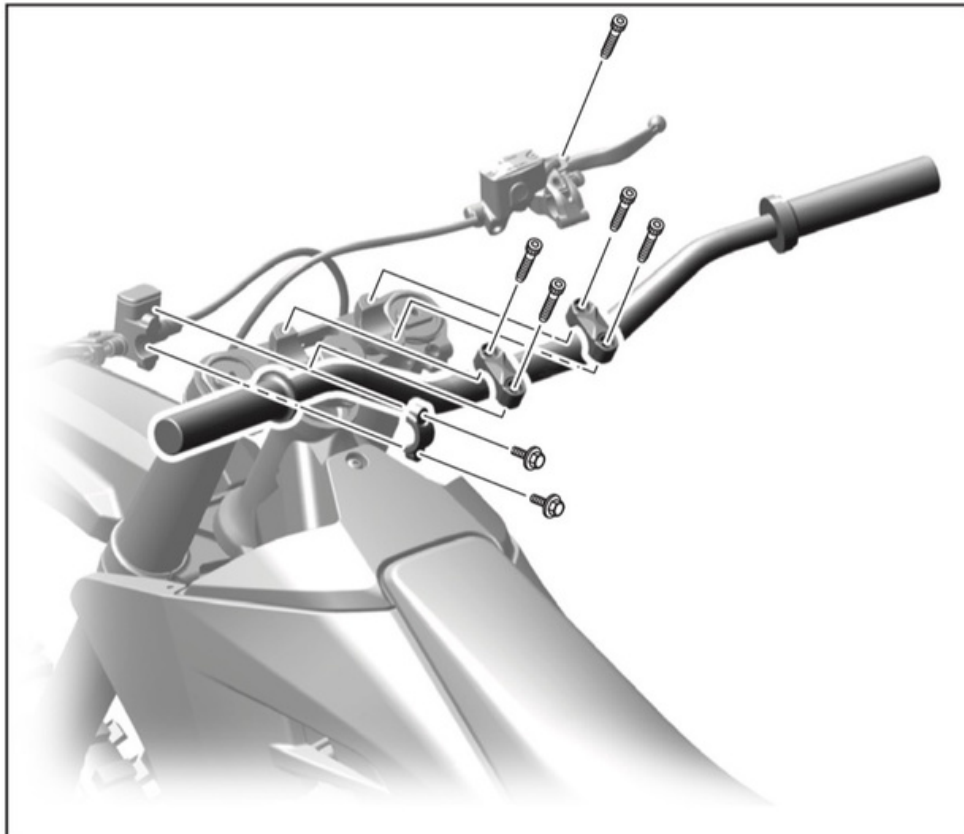


To remove the front wheel, perform the actions in reverse order of installation.

Installation of Components

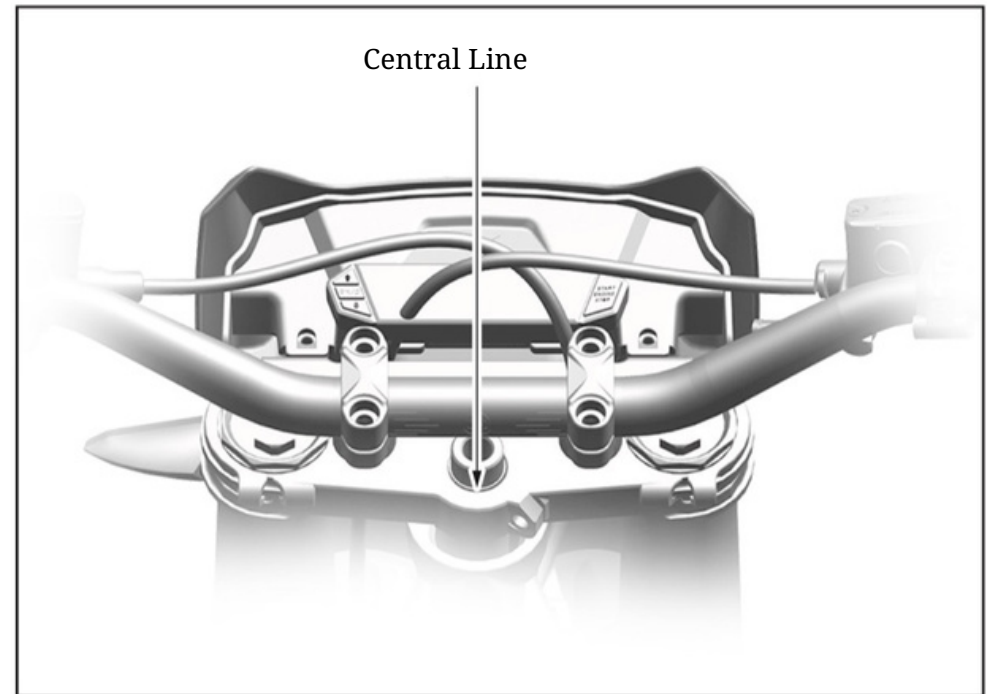
3.3 Handlebar Installation

Secure the upper screws of the front and rear brake pump on the handlebar. Connect the upper clamping block and the upper crossbar (plate) of the handlebar using the connecting bolts and preliminarily tighten the handlebar. Adjust the handlebar to a comfortable position, after which finally tighten the bolts.



3.4 Handlebar Adjustment

Loosen the retaining bolts on the handlebar and adjust its position. 1. Align the center of the handlebar with the central line of the motorcycle body. The handlebar scale is recommended to be set to -2, which will provide the most comfortable position while riding. When adjusting the handlebar, consider your own preferences.

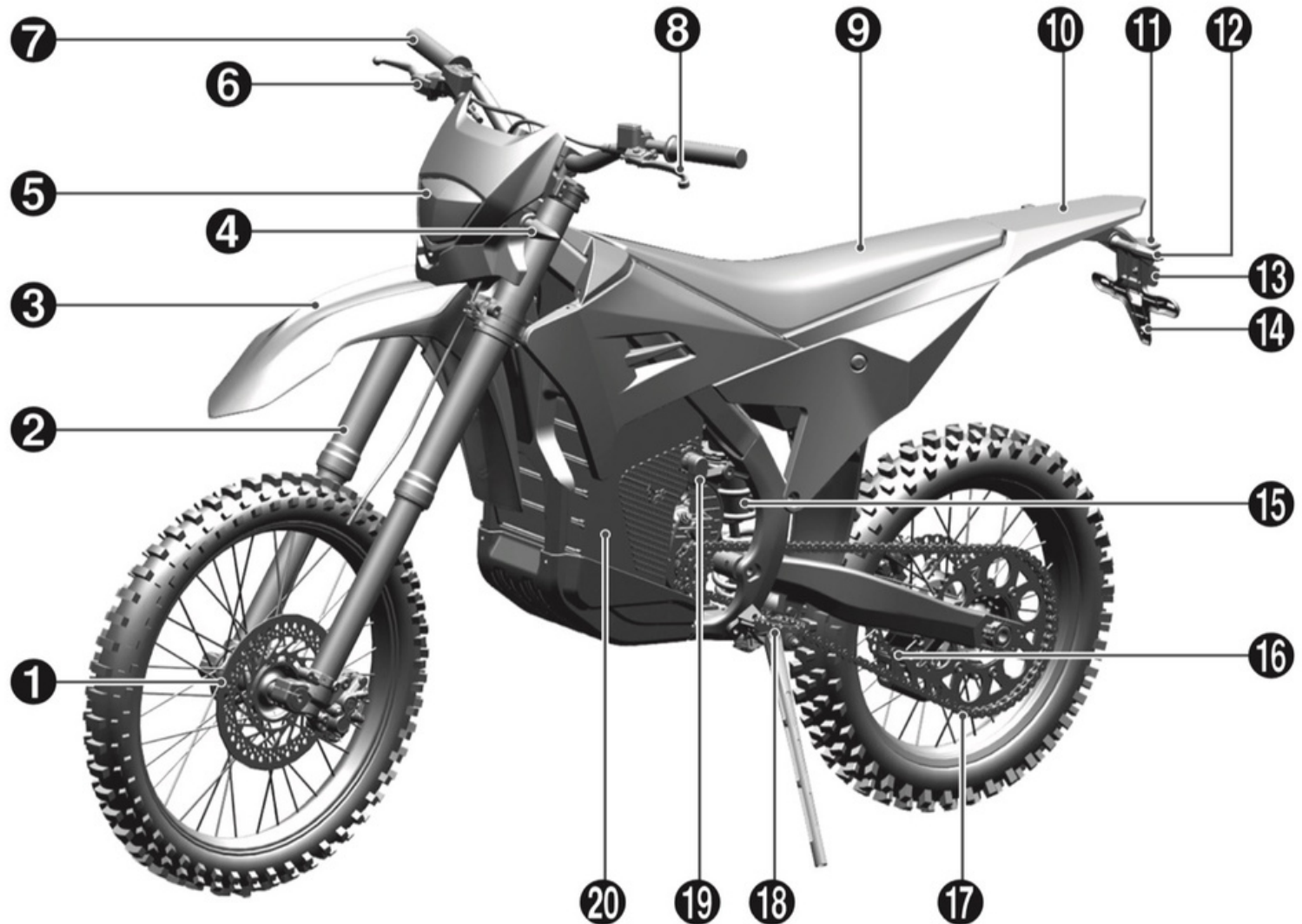


Chapter 4. Familiarization

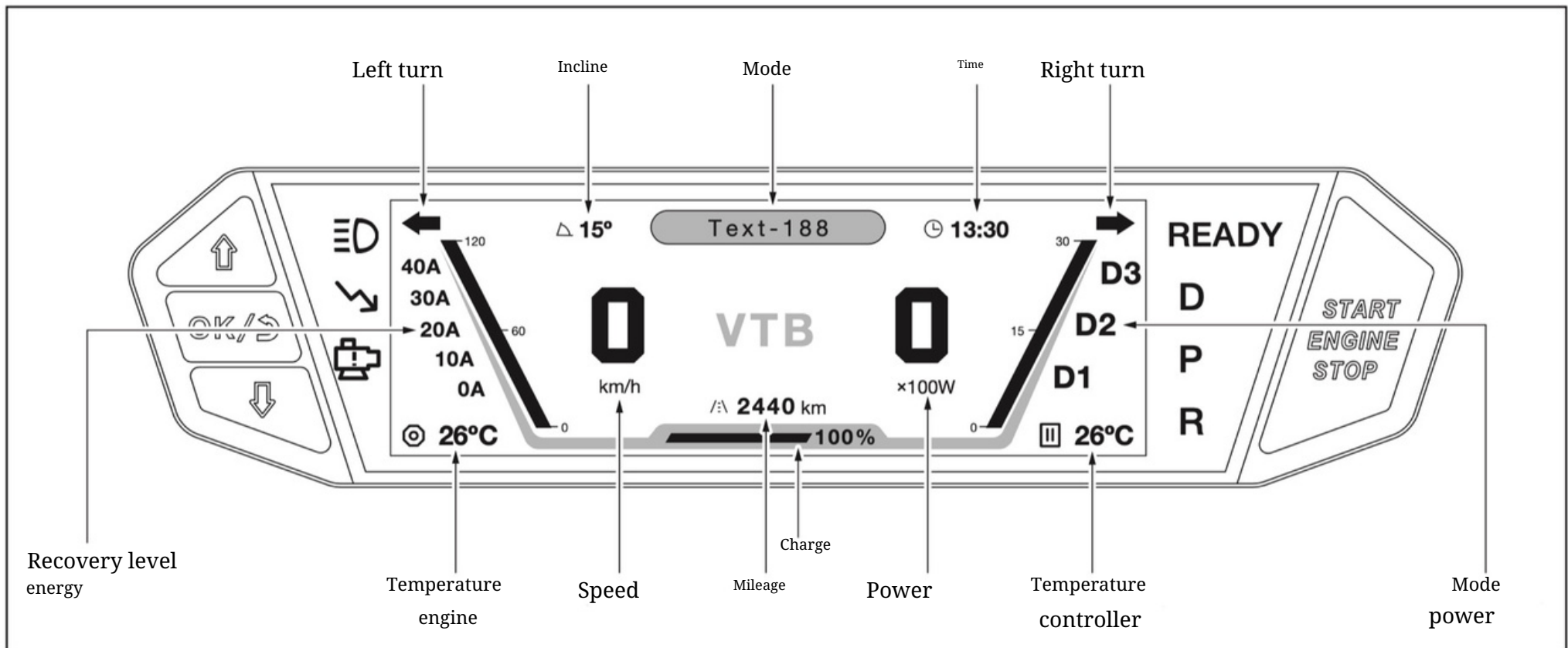
4.1 Main components

Version Climb

- ① Front brake disc
- ② Front shock absorber
- ③ Front wheel fender
- ④ Front turn signal
- ⑤ Headlight
- ⑥ Front brake
- ⑦ Throttle
- ⑧ Rear brake
- ⑨ Seat
- ⑩ Rear wheel fender
- ⑪ Rear light
- ⑫ Rear turn signal
- ⑬ Rear reflector
- ⑭ Sign mounting
- ⑮ Rear shock absorber
- ⑯ Rear brake disc
- ⑰ Chain
- ⑱ Footrest
- ⑲ Charging port
- ⑳ Lithium battery



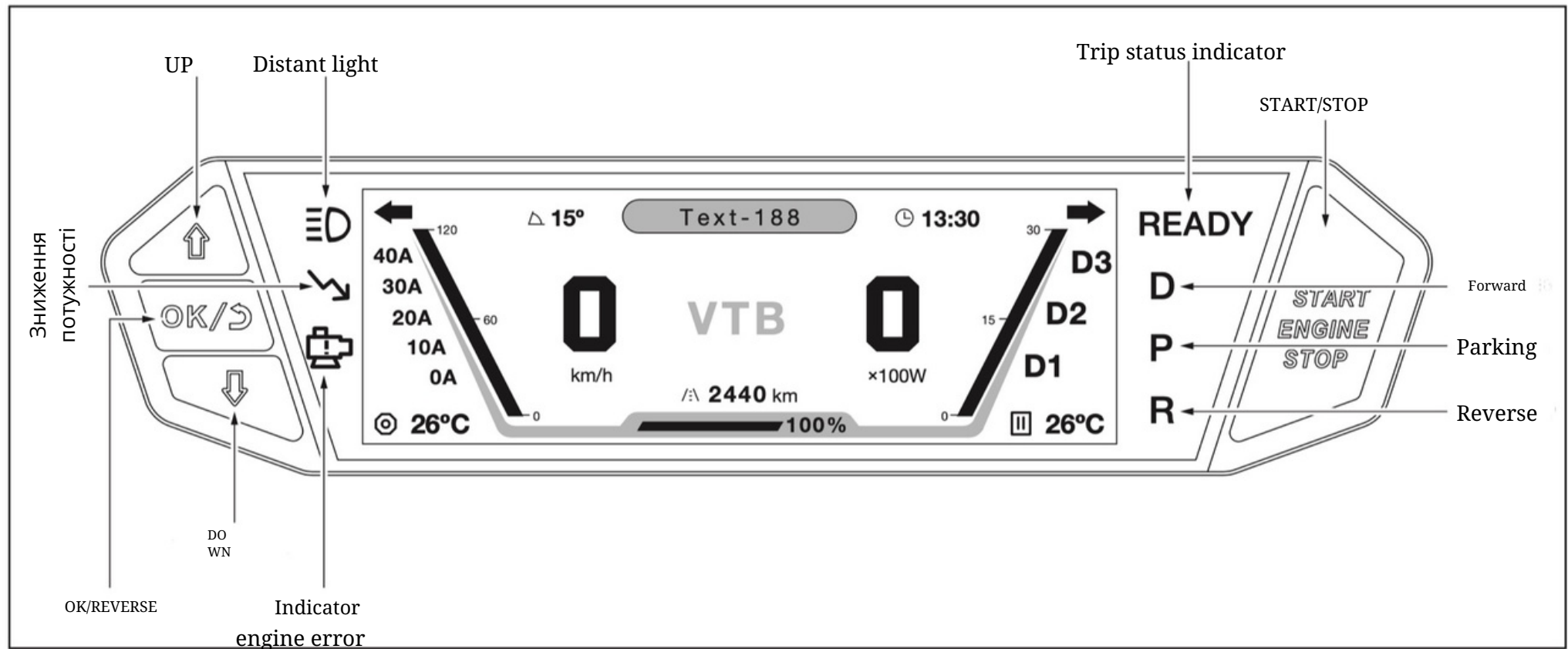
4.2 Dashboard



Dashboard

After starting the motorcycle, a start animation should appear. If any part of the screen is not displayed, please contact an authorized service center for repair.

Familiarization



Explanation of indicators

Check of the display:

After pressing the power button, all indicators should briefly light up and then turn off. If the indicator does not function as described above, contact the authorized dealer for diagnostics.

4.3 Right handlebar

PARK button

Turning on or canceling the motorcycle parking mode.

READY button

Activates the motorcycle for riding.

TRAVEL button

Enables the motorcycle's movement mode.

MODE button

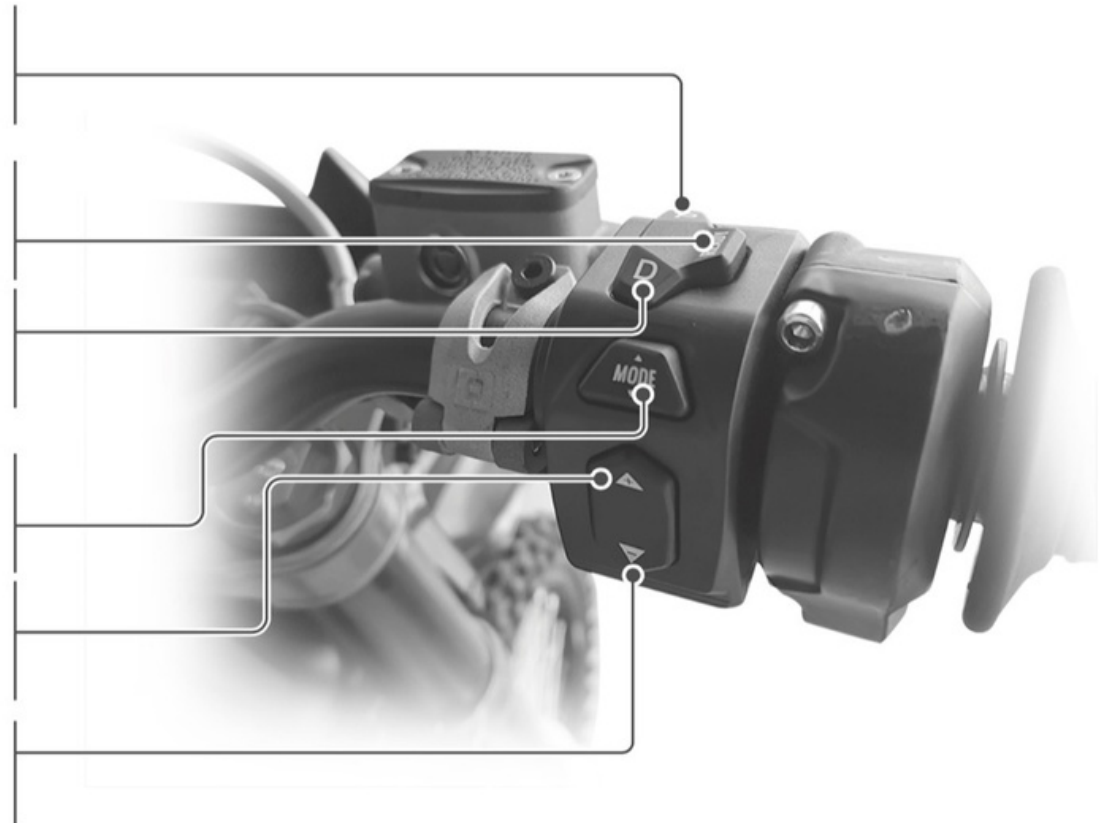
Switching driving mode.

POWER GEAR + button

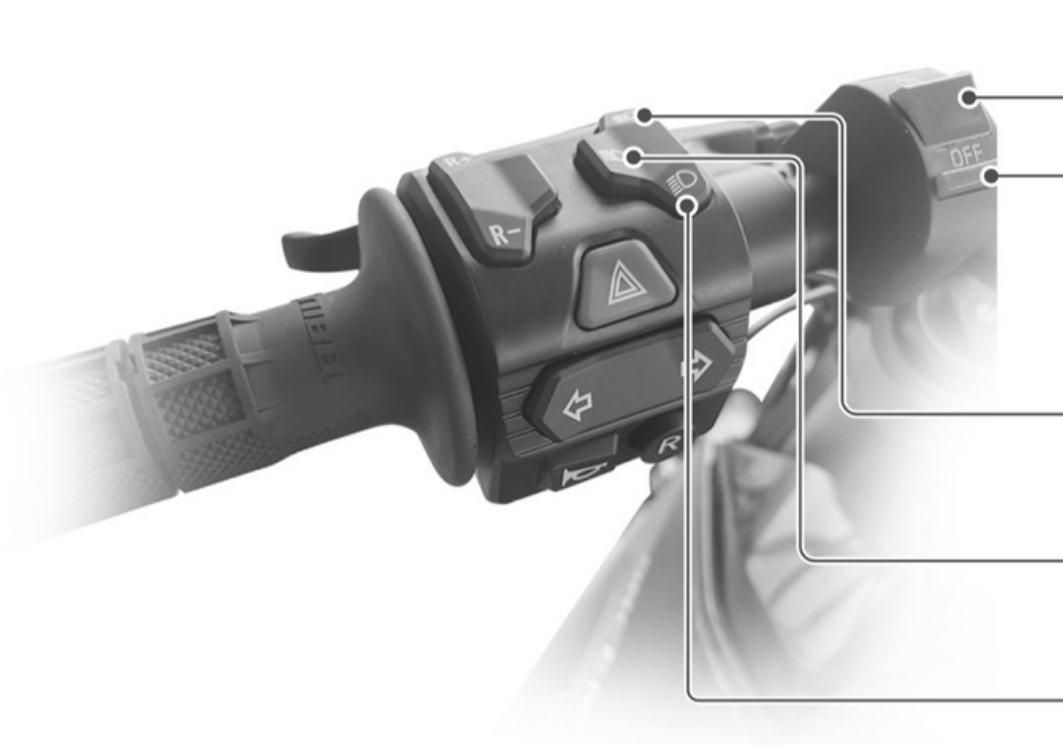
Increasing power level.

POWER GEAR - button

Reduction of power level.



4.4 Left handlebar



POWER ON button

Turning on the motorcycle power.

POWER OFF button Turning off the motorcycle's power.

HIGH BEAM button

Turning on the high beam.

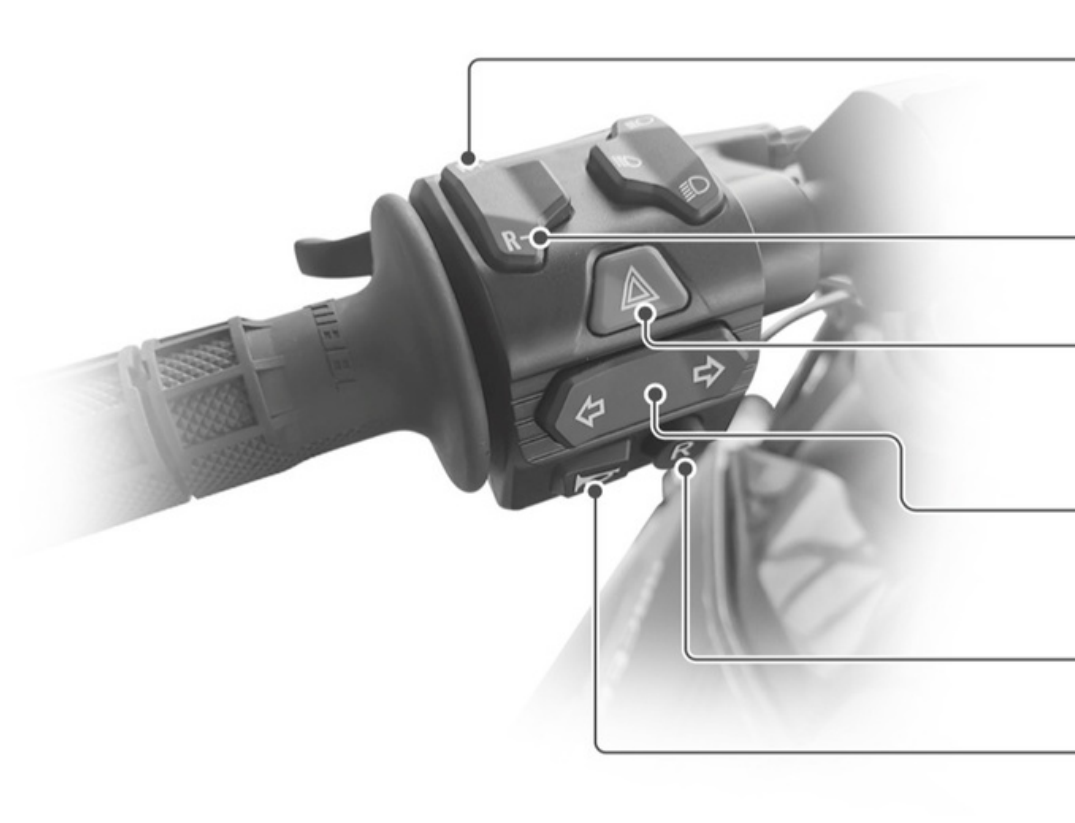
PASSING LIGHT button

Activating the overtaking signal (flashing high beam).

LOW BEAM button

Turning on low beam.

Familiarization



Button KINETIC ENERGY RECOVERY +
Increasing the intensity of kinetic energy recovery.

Button KINETIC ENERGY RECOVERY -
Reduction of the intensity of kinetic energy recovery.

Button DANGER INDICATOR LIGHT
Activation of the emergency signal (flashing of the front and rear turn signals).

TURN SIGNAL LIGHT Button
Activating the turn signal for the respective direction.

REVERSE Button
Engaging reverse mode (activates when pressed, deactivates when released).

HORN Button
Press to sound the signal.

Familiarization

4.5 Charging the battery

Precautions during charging

The Battery has the following features:

- During repeated charging and discharging, its capacity decreases. If the battery capacity diminishes, the distance you can travel gradually shortens, even if the charge level indicator shows a full charge. Depending on riding conditions and the motorcycle's lifespan, its discharge performance gradually declines. The range will decrease if the motorcycle is operated in cold conditions. Turn on the battery switch for charging and discharging.
-



Caution

- Since the battery may discharge on its own, its capacity will decrease if the motorcycle is not used. If you do not plan to use the motorcycle for an extended period and want to maintain the battery in good condition, charge it every 3 months with an official charger, keeping the charge level at 40%~60%. If the motorcycle completely discharges due to prolonged storage and will not start, connect the charger and charge the motorcycle for at least 30 minutes, then try to start it. Do not wait for the battery to completely discharge before charging, as this can significantly shorten its lifespan. This motorcycle is safe to use only at altitudes below 2000 meters above sea level.
-

Follow these rules while charging:

- Use only original motorcycle batteries; do not apply batteries from other brands or models. Avoid contact of the battery with water, beverages, or corrosive liquids. Keep the battery away from heat sources, open flames, flammable, and explosive gases (liquids). Avoid strong physical impacts on the battery. Prevent contact of metal objects with the battery terminals. If you notice any malfunctions (battery overheating, smoke, or unusual odor), stop using the motorcycle immediately, move away from it, and contact an authorized dealer.

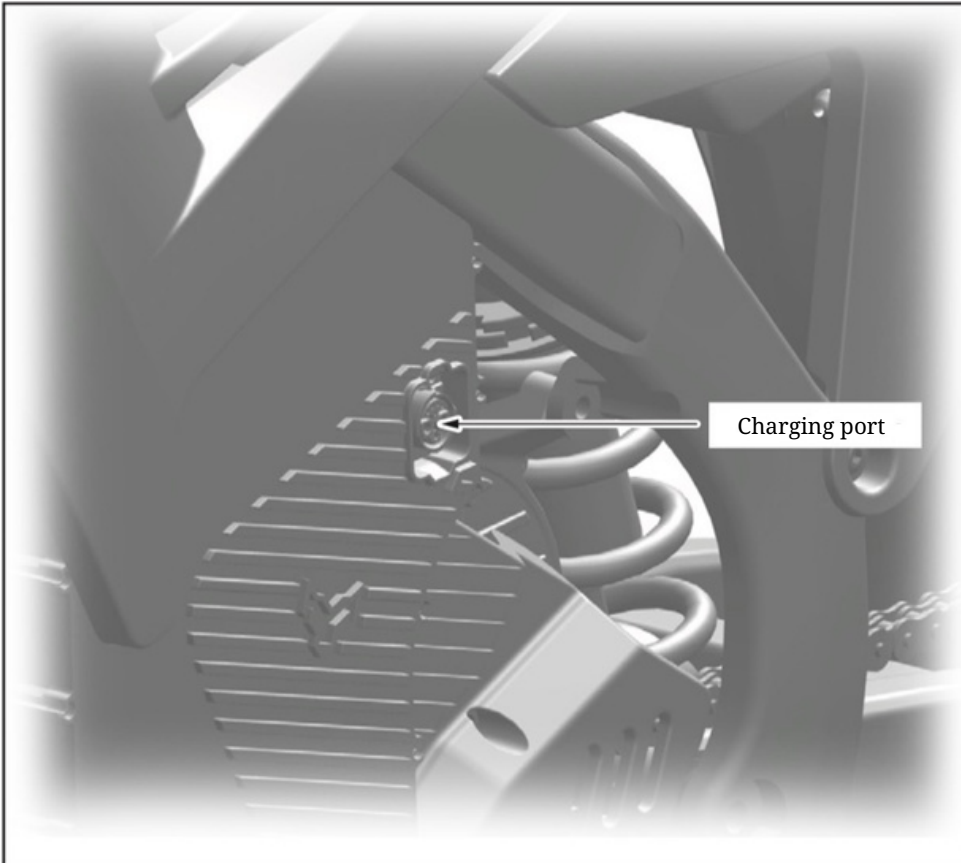


Danger

- Improper use of the battery can lead to electric shock or fire, which may result in death or serious injuries. Do not disassemble the used battery yourself. It should be handed over to specialized services for disposal and recycling.

Charging method

Always use the charger supplied with the motorcycle.



Before charging, turn off the motorcycle's power, connect the charger to the battery, and then plug it into the power outlet.

Charging conditions

Charge the battery in the following locations:

- On a flat, solid surface. At temperatures from
- 0°C to 40°C. In a well-ventilated and dry room.
- In locations permitted by law.
-

Danger

Strictly follow the legislation regarding charging locations. Unauthorized individuals are prohibited from disassembling the internal structure of the battery to avoid accidents.

Charging time

A full charge of the battery takes approximately 3 hours. At higher or lower temperatures, the charging time may increase. Do not charge the battery for more than 4 hours to avoid shortening its lifespan.

4.6 Charging device

Keep the charger away from direct sunlight and rain. You can monitor the charging status using the indicators:

Інструкції щодо індикаторів зарядного пристрою			
	Стан пристрою	Індикатор	Примітки
Індикатор стану	1. Очікування	Червоний індикатор світиться постійно	
	2. Зарядка триває	Червоний індикатор блимає	
	3. Акумулятор заряджено	Зелений індикатор світиться постійно	
	4. Немає навантаження (коротке замикання, знижена напруга, зворотна полярність)	Червоний та зелений блимають по черзі (0.5 с)	Перевірте напругу на виході зарядного пристрою
Індикатор помилки	5. Помилка зв'язку	Червоний, червоний, зелений	Перевірте кабель зв'язку
	6. Помилка змінного струму (AC)	Червоний, зелений, зелений	Перевірте напругу змінного струму
	7. Перенапруга на виході	Червоний, зелений, зелений, зелений	Перевірте, чи нормальне з'єднання та перевірте напругу на виході
	8. Внутрішнє перегрівання	Червоний, червоний, зелений, зелений	

Instructions for using the charger

Follow these rules when using the charger: First, connect the charger to the motorcycle, and then insert the plug into the socket. If you hear a 'click' — it is normal. After charging, first unplug the charger from the socket, and then disconnect it from the motorcycle. The charger is specific to a certain motorcycle. Using it with other models may cause damage.

- Follow the polarity («+» and «-») when connecting. Do not submerge the
- charger in water. If the plug or adapter gets wet, stop using it immediately. Keep the charger away from flammable gases, open flames, and sparks. The
- charger heats up during use. Ensure good ventilation and do not place it on combustible materials (e.g., sofas). The charger operates at high voltage.
- Use it with caution. Do not open the charger by yourself to avoid electric shock or damage. The charger is equipped with a fan, so noise (the sound of
- air flow from the fan blades) may occur during charging. If the charger, outlet, or cable is damaged, stop using it immediately and consult professionals. Do not charge the motorcycle if it is covered. During
- charging, the room must be well-ventilated. Do not charge the battery during a thunderstorm. Do not overload the outlet with too many devices.
- Do not pull the charger plug by the cable. Read the operating instructions carefully before use. If the indicator malfunctions or the charger overheats,
- stop charging and consult specialists.

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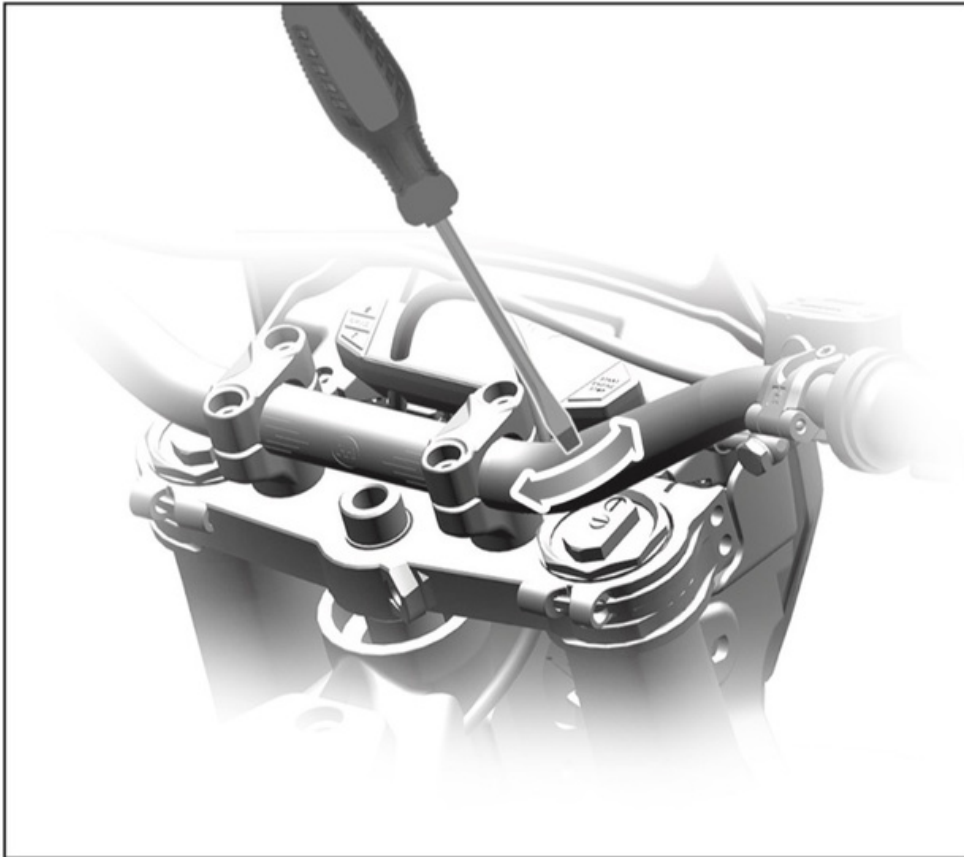
Warning

If the motorcycle or battery catches fire ⚠:

- Immediately step away from the motorcycle, call the fire department, and prepare to extinguish the fire. Use an ABC fire
- extinguisher or a Class C fire extinguisher. After the fire is extinguished, contact the dealer for the disposal of the battery. Do
- not dispose of it yourself. The motorcycle's voltage may remain active depending on the location of the fire. Power must be turned
- off after extinguishing the fire.

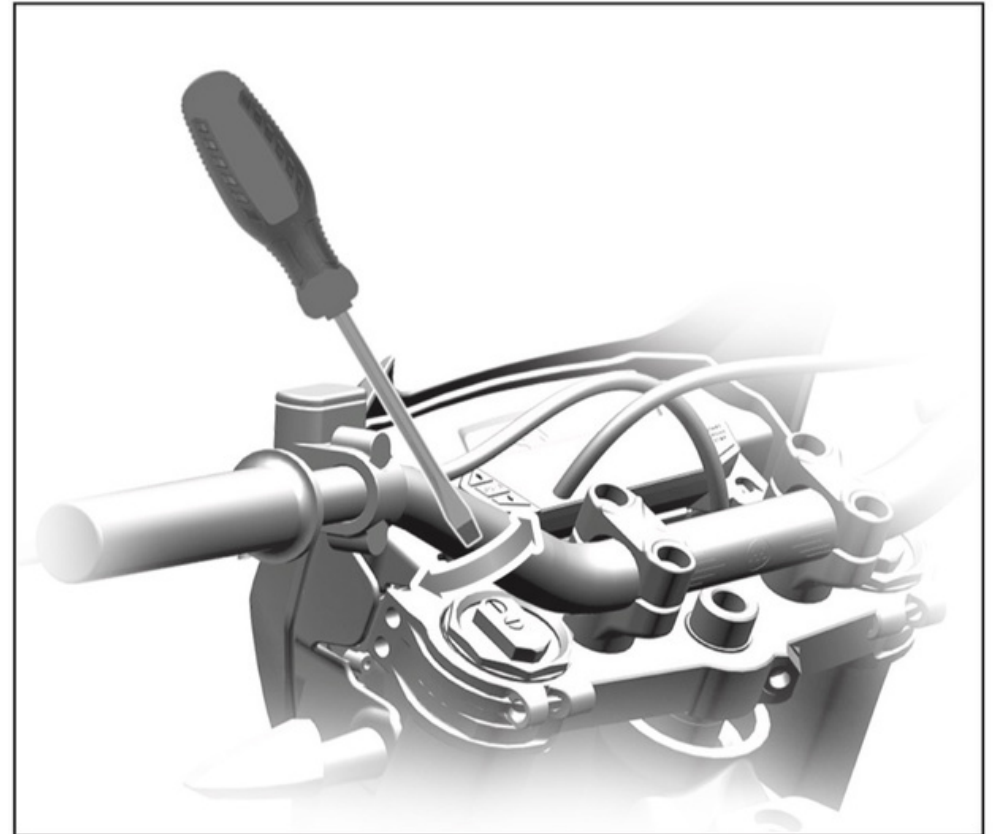
4.7 Adjustment of Right Front Shock Absorber Rebound

Use a flat screwdriver to turn the damping adjuster and change the values. Turn counterclockwise to decrease the damping. Turn clockwise to increase the damping.



4.8 Adjustment of Left Front Shock Absorber Rebound

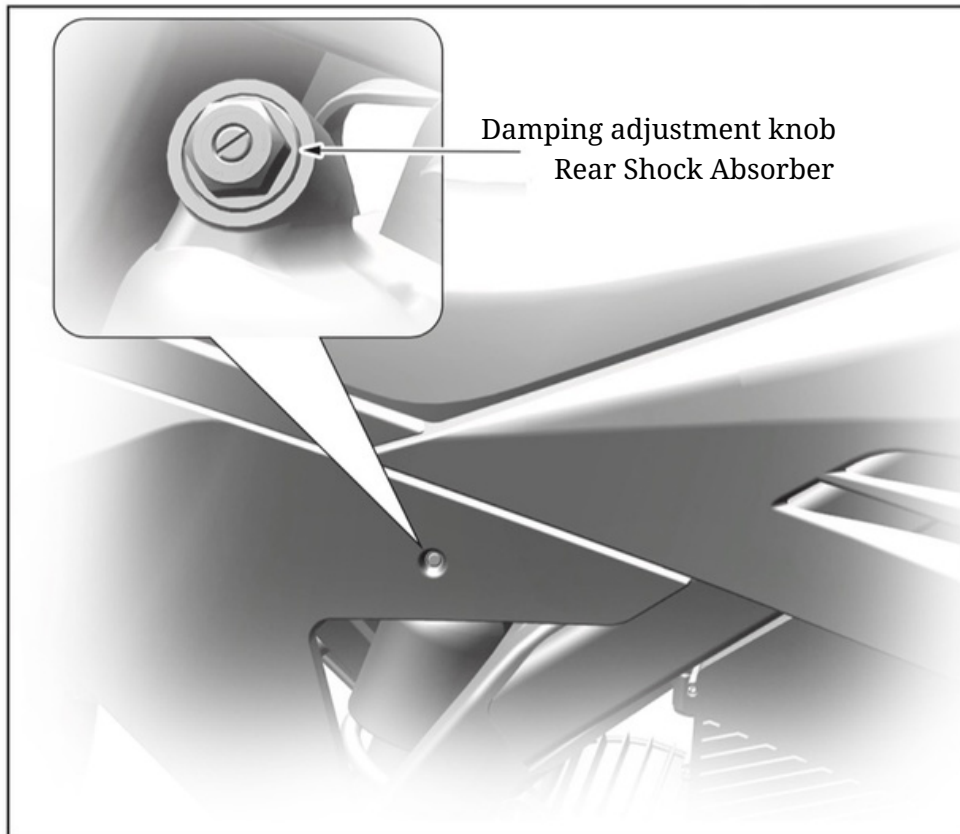
Use a hex key to turn the adjustment 1. knob and change the preload. Turn counterclockwise to reduce the load. 2. Turn clockwise to increase the load.



Familiarization

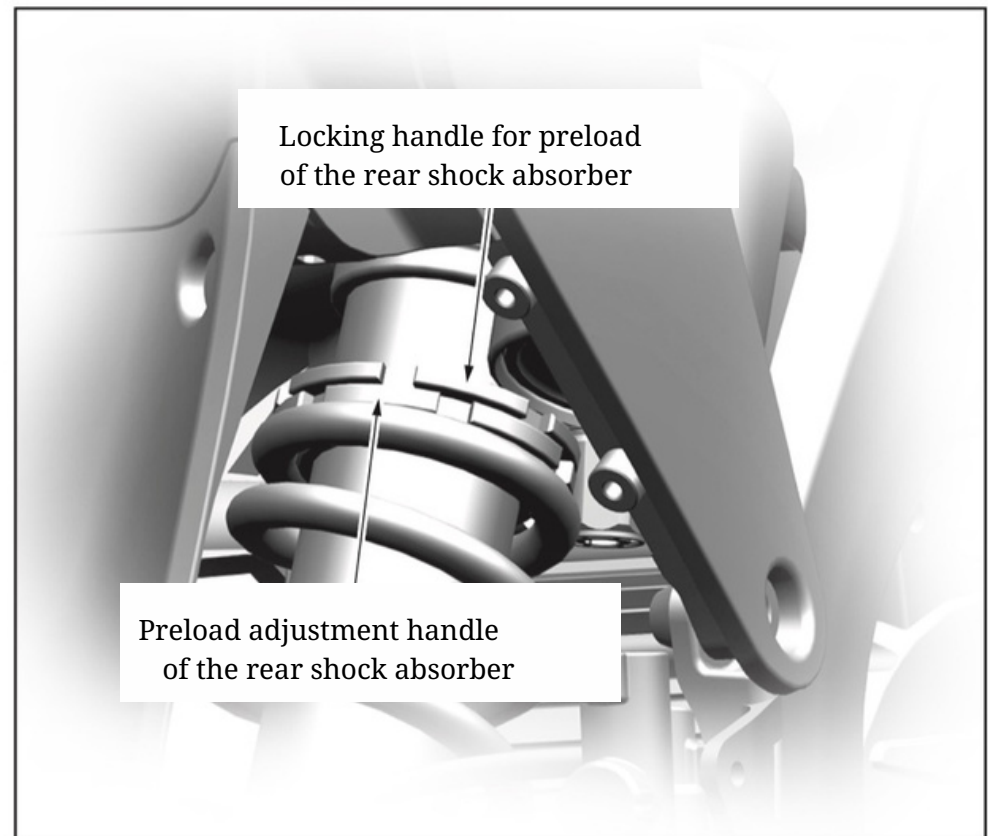
4.9 Damping Setup for the Rear Shock Absorber

Turn the adjustment knob for the damping of the rear shock absorber to change the damping value. Turning counterclockwise decreases the damping. Turning clockwise increases the damping.



4.10 Preload Adjustment of the Rear Shock Absorber

Turn the preload adjustment knob to change the 1. preload value of the Rear Shock Absorber. If the shock absorber compresses, the preload decreases. 2. If the shock absorber rebounds, the preload increases.



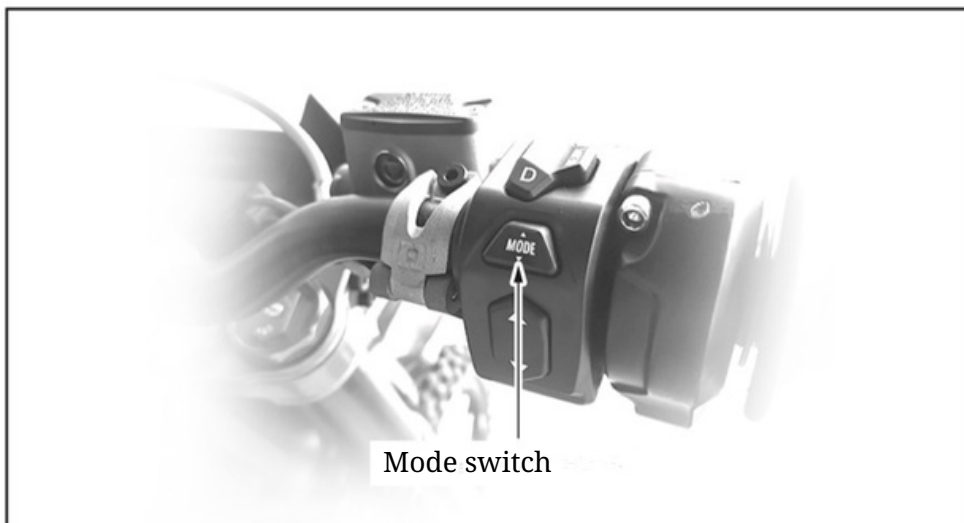
5.1 Driving Modes

This motorcycle has 3 speed modes:

- Mode 1 (standard):The power is 34% of the maximum. Mode 2 (sport):The power is 67% of the maximum. Mode 3 (competition):The power is maximum.
-

How to switch modes:

- Switch the button on the right handlebar.



5.2 Anti-Theft Alarm

The alarm system uses low-intensity radio waves that may affect medical devices (for example, pacemakers).



Caution

The Anti-Theft Alarm will not work if the charge of the motorcycle battery is low.

If you encounter any of the conditions listed below, it means the battery is dead or there has been a system failure. In case of these issues, contact an authorized dealer.

- The alarm does not turn on. The alarm turns on, but
- the sound gradually fades away. The alarm sounds
- continuously.

Section 6. Driving Instructions

6.1 Pre-trip overview

Before each trip, it is recommended to check the following components to ensure that the motorcycle is in a safe condition.

Follow the inspection rules, maintenance procedures, and schedule specified in the operation manual.

Елемент	Зміст перевірки
Ємність акумулятора	Перевірте заряд акумулятора та за потреби підзарядіть його.
Кермо	Перевірте, чи рухається плавно в усіх напрямках повороту.
Ручка контролю швидкості	Перевірте, чи ручка працює плавно та без заклинювання.
Гальмівна ручка	Перевірте, чи гальмо працює плавно та без заклинювання.
Переднє/Заднє гальмо	Перевірте рівень гальмівної рідини та знос гальмівних колодок.
Шини	Перевірте наявність пошкоджень і переконайтеся, що тиск у шинах в нормі.

6.2 Motorcycle startup

Deactivate the anti-theft alarm system using 1. the smart key. Press ⚡ on the smart key twice to start the motorcycle (or 2. press the start button for some models). Fold the side stand up. 3. Select the desired gear for movement using button 4. the mode switch on the right handlebar. Ensuring that the conditions for safe movement are met, slowly 5. twist the throttle to initiate movement.



Caution

If the motorcycle tilts to the side, immediately turn off its power.

6.3 Braking

Release the throttle control, then simultaneously press the front and rear brakes.



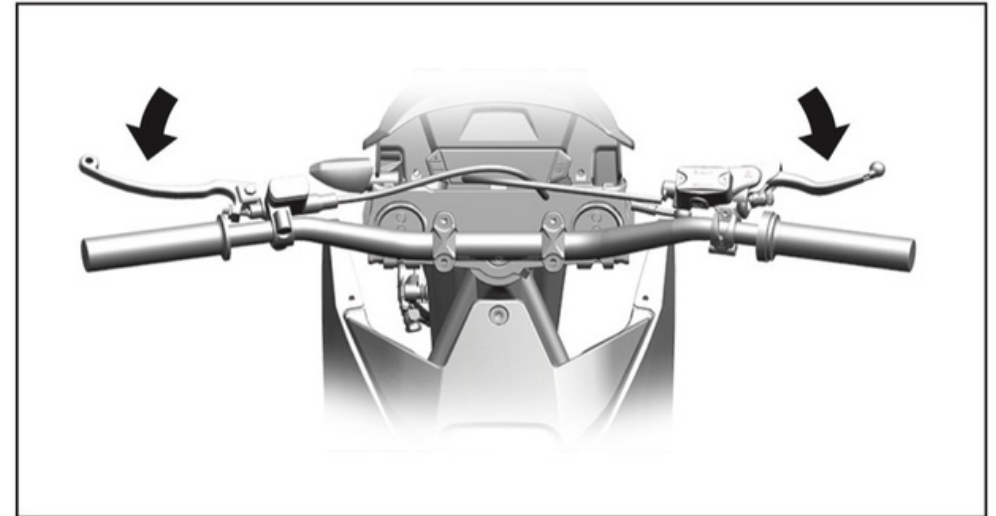
Caution

Before turning or stopping, begin braking in advance. Turn on your turn signal early, watch for vehicles on the side and behind, gradually increasing pressure on the brake handles.



Warning

- Avoid abrupt braking or excessive pressure on the brakes (especially during turns), otherwise, the motorcycle may skid or tip over. Braking on a wet road can cause sliding or an accident. Move slowly and carefully. Frequent
- braking on long and steep descents can lead to overheating of the brakes, reducing their effectiveness. To ensure safety, use both the front and rear
- brakes simultaneously and brake intermittently.



Driving Instructions

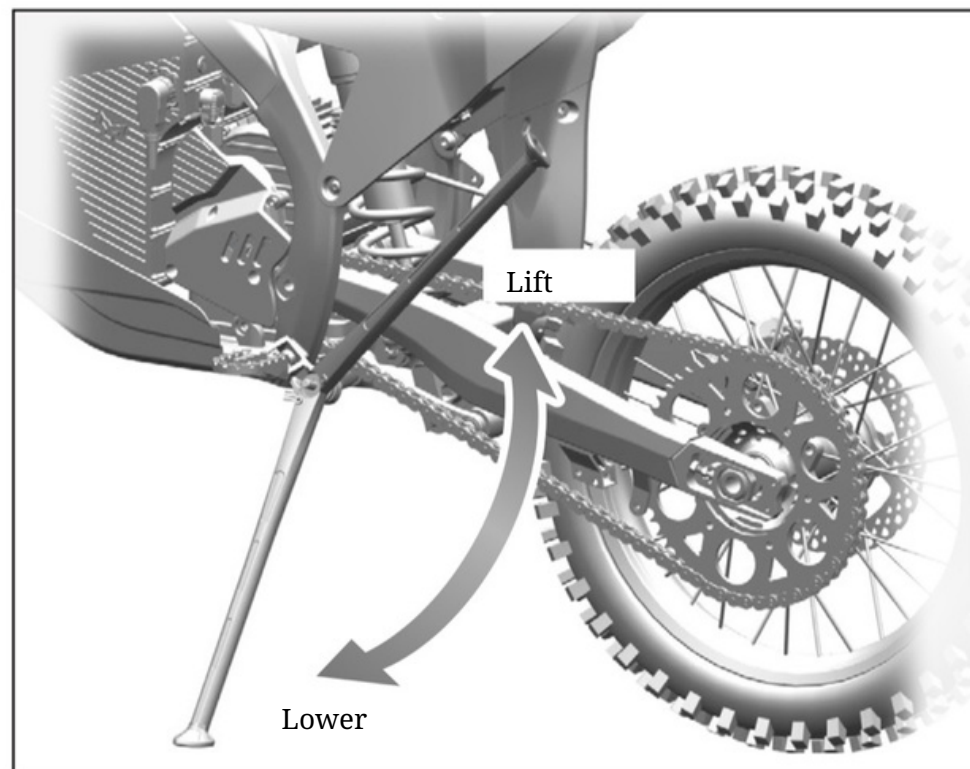
6.4 Parking

Turn off the power of the motorcycle. 1. Lower the side stand and slowly lean the motorcycle to the left so that 2. the weight shifts onto the stand. Turn the handlebar fully to the left. Ensuring the 3. safety of the surrounding environment, dismount the motorcycle from the left side. If it is necessary to park the motorcycle on a slope or soft surface, ensure it is in a stable position and cannot tip over.



Caution

Before leaving the motorcycle, be sure to turn off its power and activate the anti-theft alarm system.



Section 7. Maintenance

7.1 Importance of maintenance

Always keep the motorcycle in proper working condition. This is important for your safety, protection of property, ensuring optimal performance, and preventing failures.

Caution

Failure to perform scheduled maintenance or ignoring malfunctions can lead to serious or even fatal accidents. Follow the guidelines for inspection and maintenance, as well as the maintenance schedule outlined in this instruction.

Запчастина	Перевірка перед поїздкою	Пробіг (км)	1000	4000	8000	12000
		Час експлуатації (місяці)	1	6	12	18
Обертання ручки акселератора	√		√	√	√	√
Мотор				√	√	√
Літійовий акумулятор			√	√	√	√
Гальмівні колодки (передні/задні)	√		√	√	√	√
Рівень гальмівної рідини (перед/зад)	√			√	√	√
Тиск та стан шин	√		√	√	√	√
Мастило в коробці передач			√	√	√	√
Перевірка наявності витоку у передньому/задньому амортизаторі	√		√	√	√	√
Натяг ланцюга	√			√	√	√
Обертання переднього/заднього колеса	√			√	√	√
Затяжка всіх болтів				√	√	√
Пошкодження проводки	√		√	√	√	√
Пошкодження гальмівних шлангів (перед/зад)			√	√	√	√
Робота керма без заїдань	√		√	√	√	√

Note: √ indicates the preference verification (if necessary, carry out cleaning, adjustment, lubrication, or replacement).

Maintenance

7.2 Parts replacement

Use only original spare parts. If you need to replace any part, contact an official dealer.

Warning

Installing non-original parts can make the motorcycle dangerous and lead to an accident, which can result in serious injuries or even death. Only use certified original parts or equivalent items that are specifically designed for your motorcycle.

7.3 Motor and controller

The motorcycle controller is one of the most important components that manages the start and operation of the engine.

Follow these operating rules:

- Do not modify the engine on your own, otherwise, this may cause self-ignition, traffic accidents, or other serious consequences. Do not ride in deep water and avoid riding in water that exceeds the
- central axis of the rear wheel. Regularly check the tightness of the bolts that secure the engine. If you find that a screw is loose,
- contact a service center for tightening.

7.4 Tire Inspection

Visually inspect the tires and measure the tire pressure using a manometer at least once a month or whenever you feel the pressure is insufficient. Check the pressure only on cold tires. The maximum tire pressure is:

- Front wheel: 0.5–1.5 bar
- Rear wheel: 0.5–1.5 bar

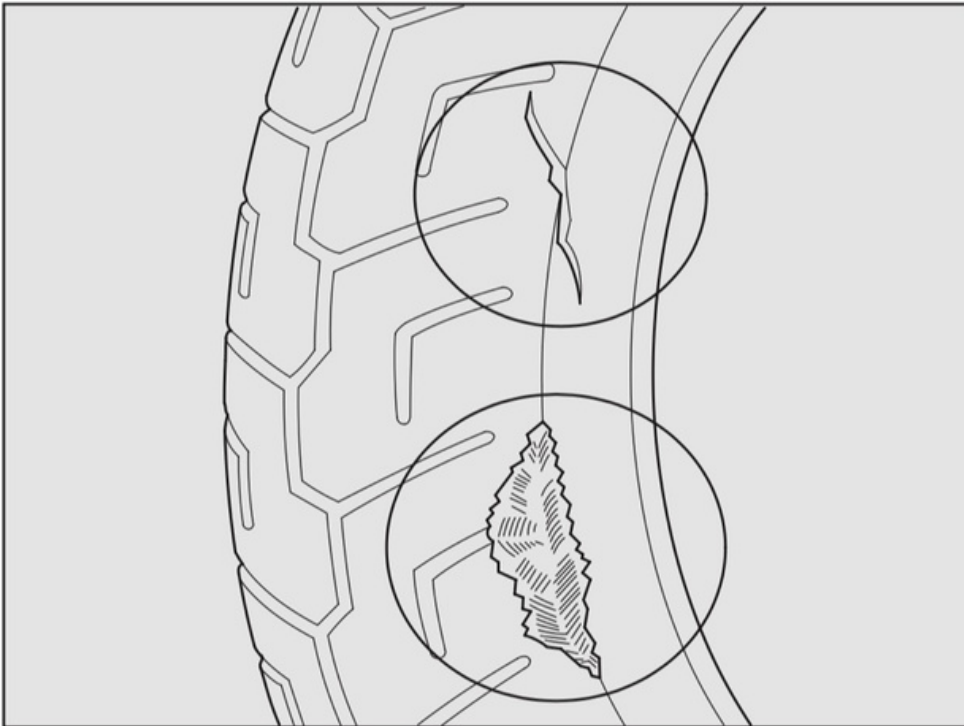
Warning

If the tire pressure is abnormal, the motorcycle will become more difficult to control, which may cause an accident. In worse cases, a tire blowout may occur, leading to loss of control over the motorcycle and serious injuries or death.

Maintenance

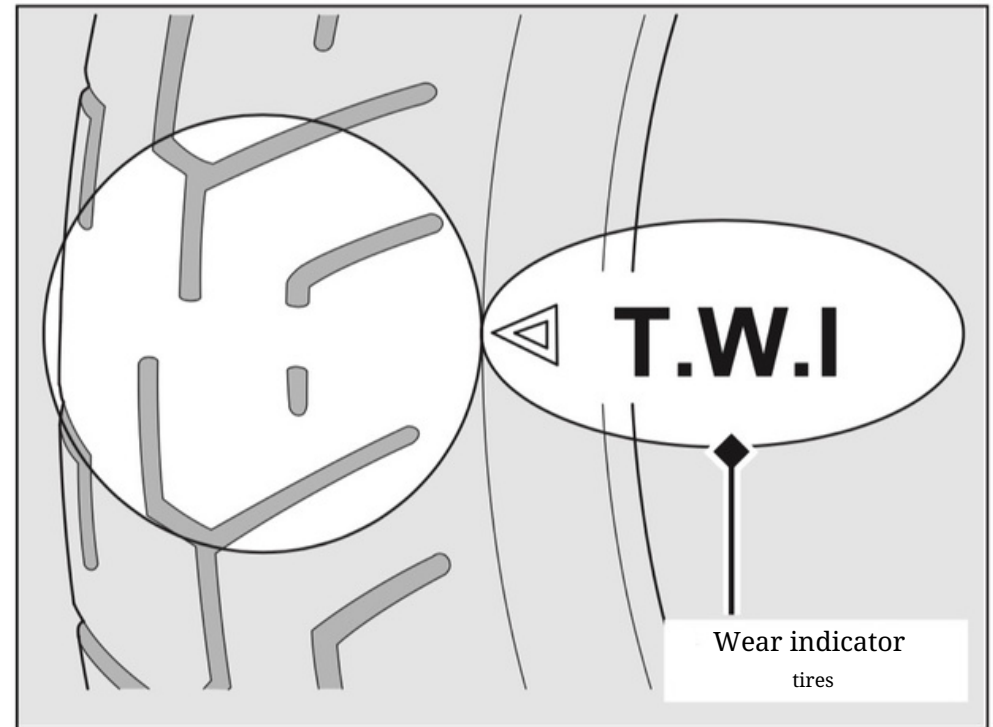
Check of damaged tires

Inspect the tires for cuts, cracks, protruding cord threads, nails, or other foreign objects. Also, check the sidewalls of the tires for any bulging.



Check of tread depth

Check the tread wear indicators. If they become visible, replace the tire immediately. Minimum tread depth: 2 mm



Warning

Driving on worn tires reduces safety and can lead to an accident.

Maintenance

Tire Operation Rules

- Use recommended tires or equivalent models with the same size, construction, speed rating, and load capacity. Do not overload the motorcycle, as this can cause an accident. All tire and braking component replacements should be carried out only by qualified specialists.
-

Warning

Incorrectly selected tires can affect the handling and stability of the motorcycle, which may lead to accidents, serious injuries, or death. Use the size and type of tires specified in the operation manual.

7.5 Brake Fluid Inspection

Place the motorcycle on a level and firm surface and ensure it is in a horizontal position.

Turn the handlebar and check if the level of brake fluid is above the lower mark.

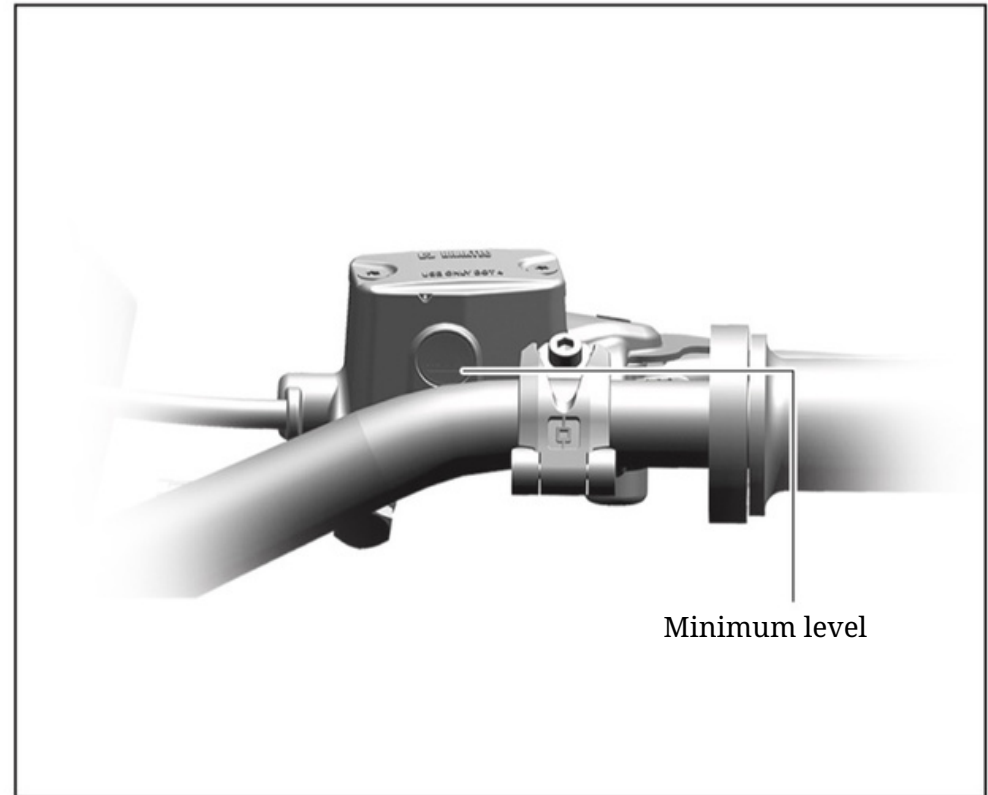
If the level is below the minimum or the free play of the brake lever exceeds the norm, contact an authorized dealer for service.

Recommended brake fluid: DOT 4



Caution

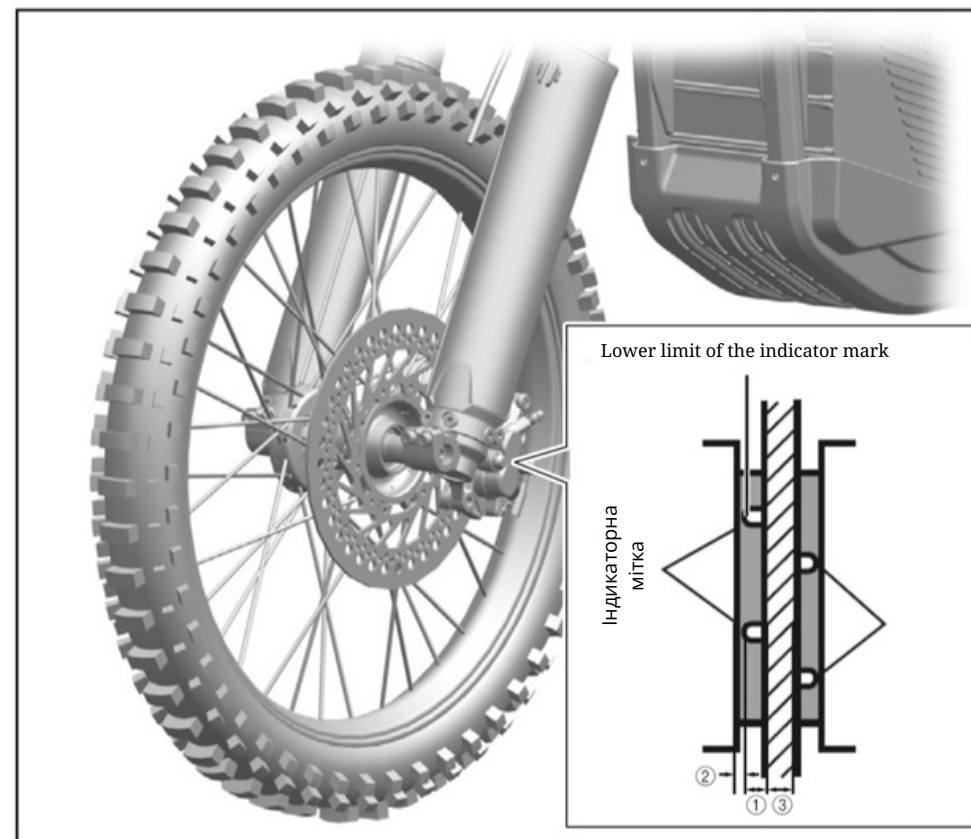
Brake fluid can damage plastic and painted surfaces. If the fluid spills, wipe it immediately and clean the surface thoroughly.



7.6 Brake Pads and Discs Inspection

Check the wear condition of the front and rear brake pads. If the wear of the brake pads has reached the lower limit indicator mark, the pads need to be replaced. Check the wear condition of the front and rear brake discs. If the thickness of the front or rear brake disc has decreased to the value set by the manufacturer, the disc needs to be replaced.

- ① Lower limit: 3 mm The extreme lower limit of brake pads
- ② thickness: 2 mm If the thickness of the brake disc is less than 3
- ③ mm, the disc must be replaced.



Carefully

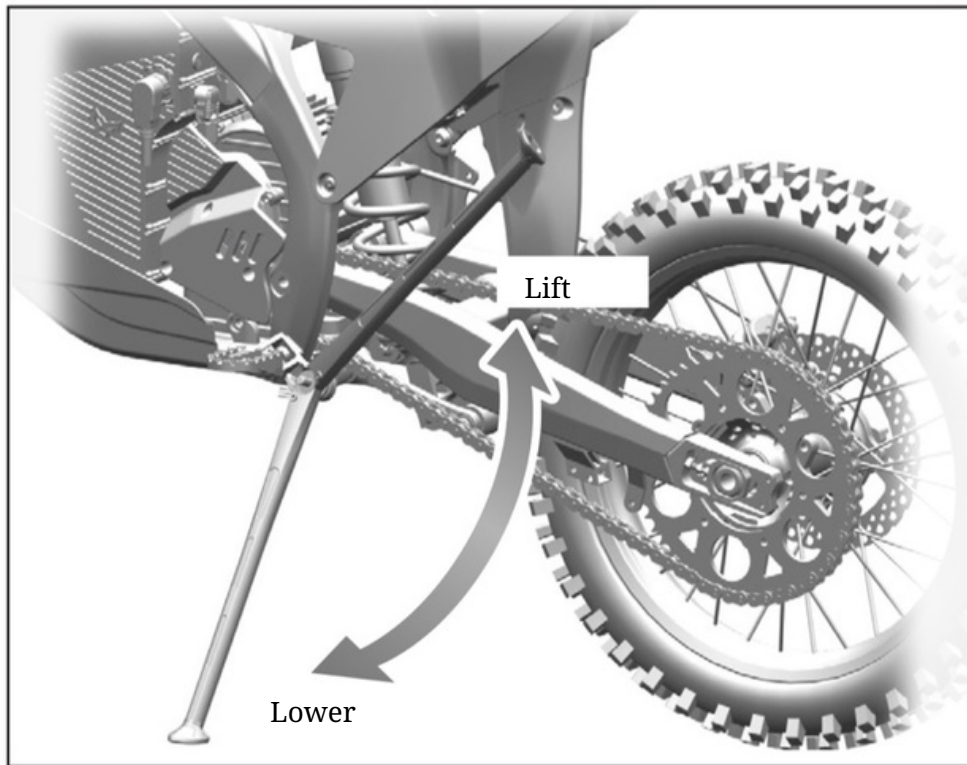
- Replacement of brake pads should be carried out by an authorized dealer. Replace the left and right pads simultaneously. Your safety
- may be at risk if the brake pads are severely worn and not replaced in a timely manner.

Maintenance

7.7 Side Stand

Check

- Ensure that the side stand operates smoothly. If the stand is sticking or squeaking, clean the rotating shaft and lubricate the axle bolt with clean grease. Check the springs for damage or loss
- of elasticity. Inspect the stand for any deformations or cracks. If
- any are found, contact the official service center for repair.



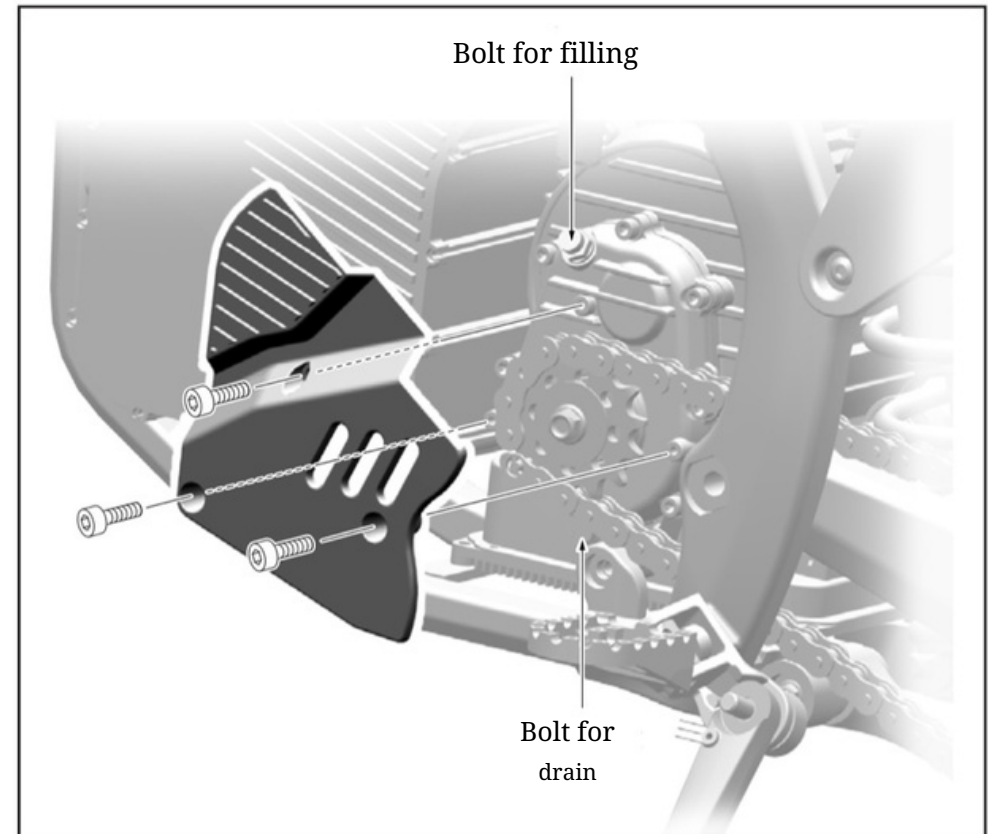
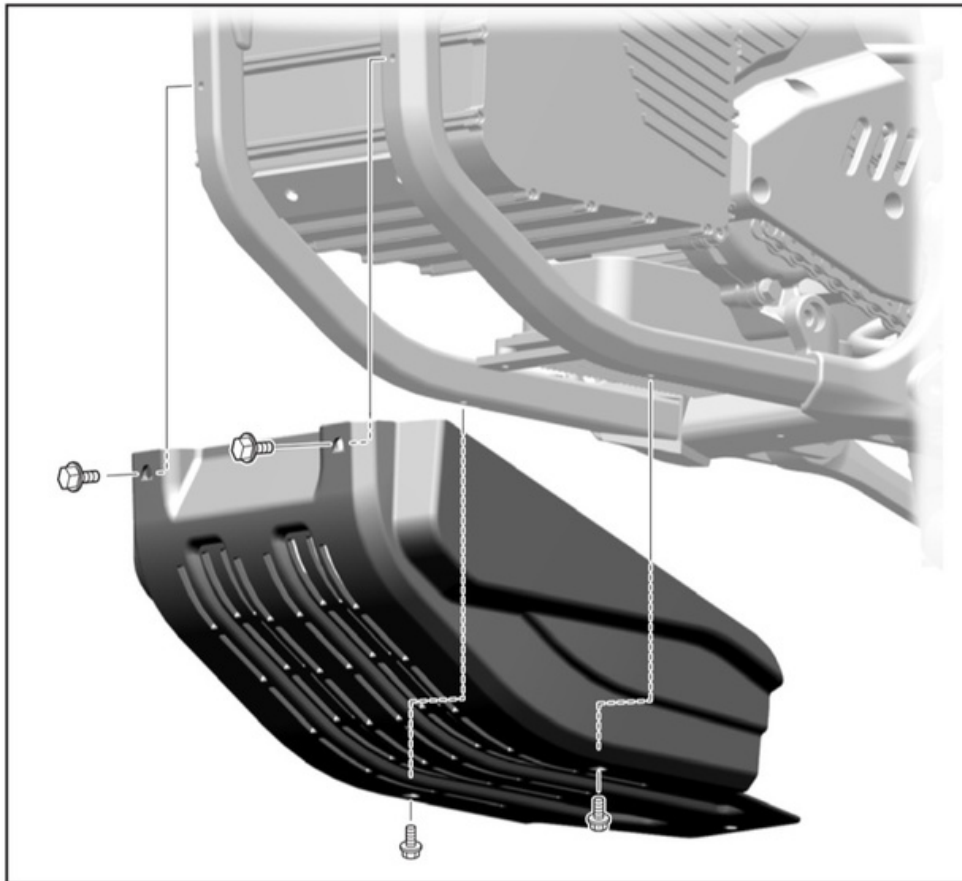
7.8 Throttle

Ensure that the throttle handle smoothly returns from the closed to the open position and also independently returns to the original position without jamming.



7.9 Transmission Oil Replacement

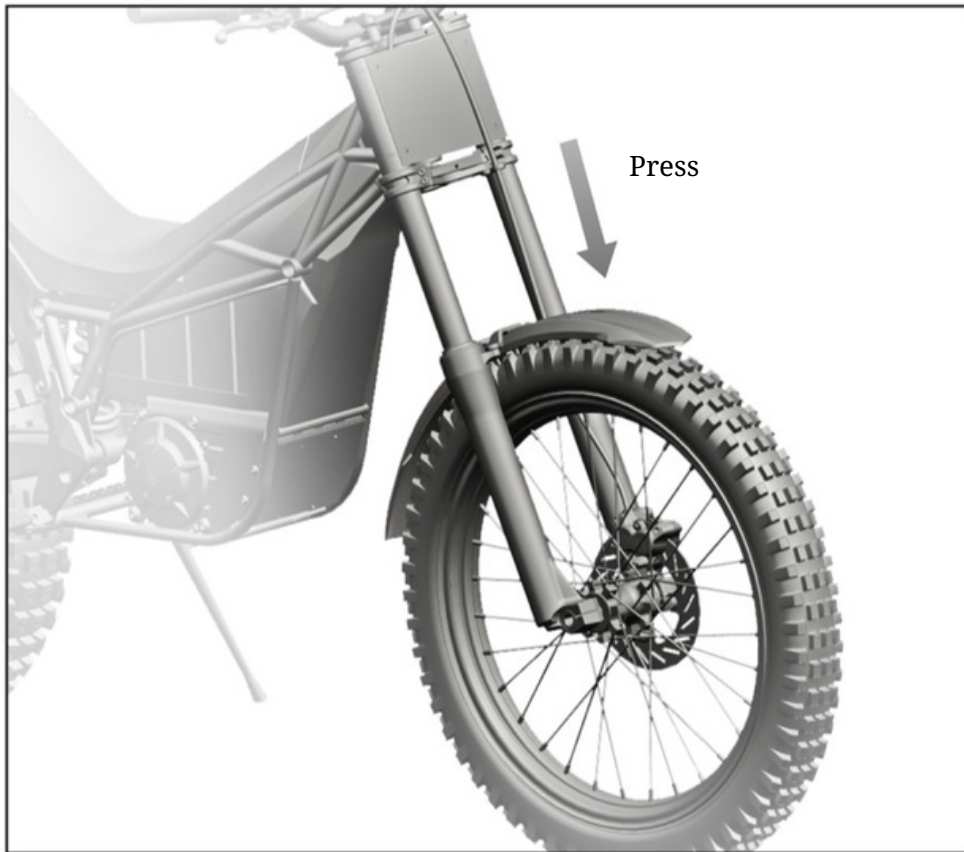
Remove the four bolts, and then take off the splash guard under the motorcycle, as shown in the illustration.



Maintenance

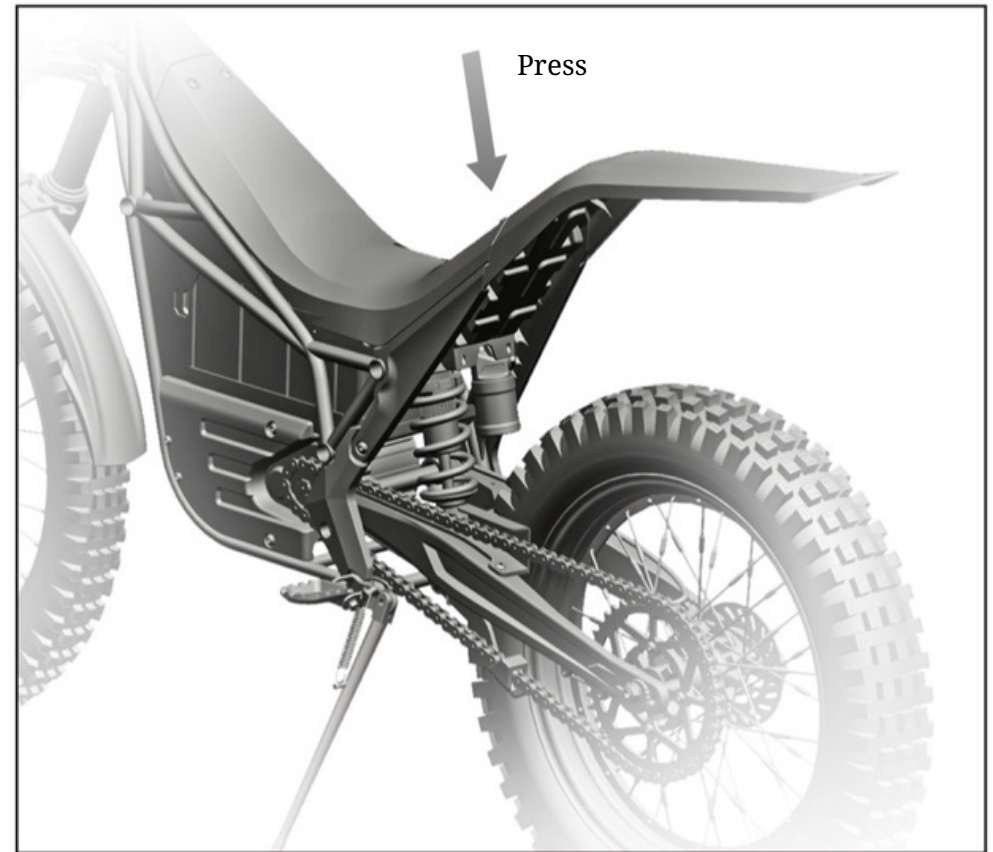
7.10 Front Shock Absorber Inspection and Maintenance

Check for any external damage or cracks on the front shock absorber, and ensure that other details are not damaged. Replace any faulty parts as necessary. Clean the shock absorber of dust and dirt. While holding the handlebar, press down on it a few times to check if the compression and rebound of the front shock absorber are functioning properly.



7.11 Rear Shock Absorber Inspection and Maintenance

Check for any external damage or cracks on the Rear Shock Absorber, and also check if other details are damaged. Replace faulty parts if necessary. Clean the shock absorber of dust and dirt. While holding the handlebar, press on it a few times to check if the compression and rebound of the Rear Shock Absorber are functioning normally.

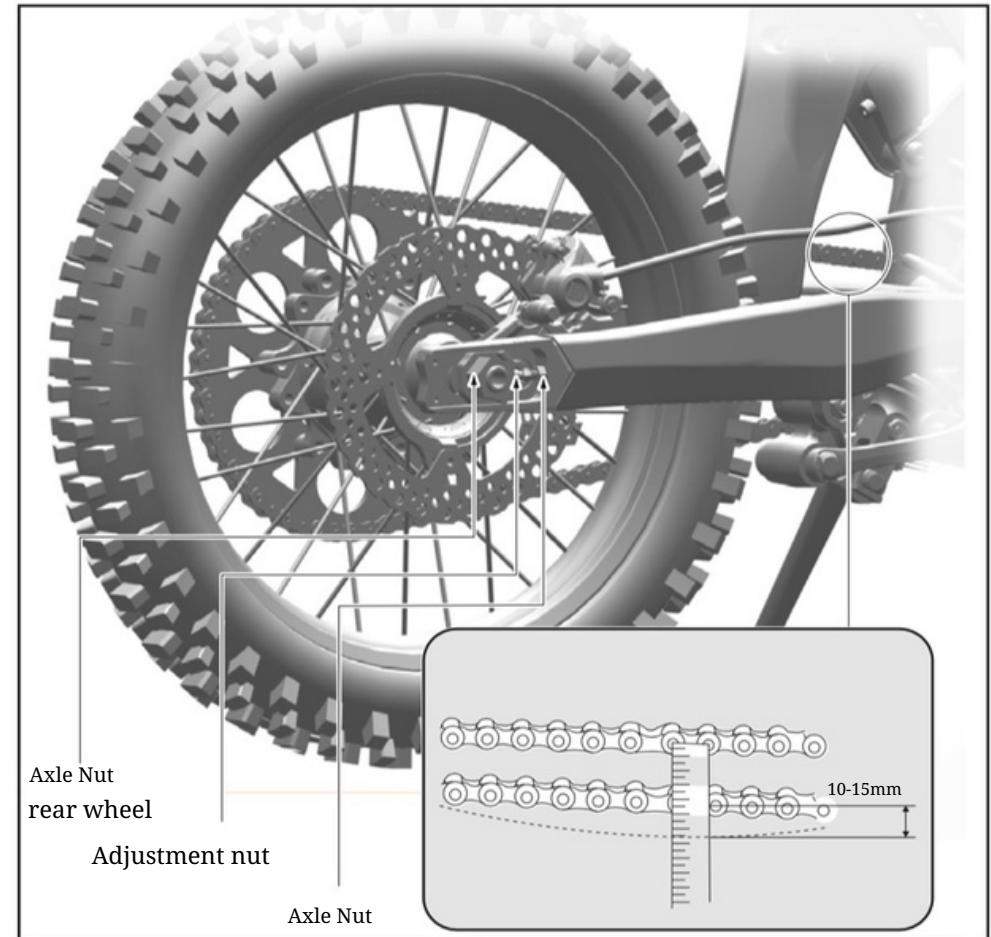


7.12 Chain Inspection and Adjustment

Check: The standard chain sag is 10-15 mm. To adjust, loosen the nut on the rear wheel axle. Adjust the chain sag by turning the adjusting nut. During the adjustment, ensure that the front and rear sprockets remain aligned. Once the adjustment is complete, tighten the nut on the rear wheel axle.

Warning

If the chain is too loose or tight, it can lead to slipping or breaking, creating a danger. Regularly check and adjust the chain at an authorized service center.



Section 8. Troubleshooting

Malfunction Phenomenon and Troubleshooting Methods

	Явище	Причина несправності	Метод усунення
1	Живлення увімкнено, але мотор не працює	1. Роз'єм акумулятора ослаблено 2. Роз'єм центрального контролера ручки акселератора від'єднано 3. Роз'єм мотора ослаблено або від'єднано 4. Ручка гальма не повертається або несправний гальмівний перемикач	1. Перевірте, чи надійно під'єднаний кабель акумулятора 2. Перевірте ручку гальма та гальмівний перемикач
2	Збій ручки акселератора або низька максимальна швидкість	1. Напруга акумулятора занадто низька 2. Несправність ручки акселератора	1. Повністю зарядіть акумулятор 2. Зверніться до сервісного центру для заміни центрального контролера ручки акселератора
3	Недостатній запас ходу на одному заряді	1. Недостатній тиск у шинах 2. Неповна зарядка або несправність зарядного пристрою 3. Неправильне регулювання гальм, надмірний опір руху 4. Зношений або пошкоджений акумулятор 5. Часті підйоми, зустрічний вітер, часті прискорення та гальмування, велике навантаження	1. Надуйте шини до нормального тиску 2. Повністю зарядіть акумулятор або перевірте контакт зарядного пристрою 3. Відрегулюйте гальма 4. Замініть акумулятор 5. Це нормальне явище в таких умовах експлуатації

	Явище	Причина несправності	Метод усунення
4	Не працює зарядний пристрій	1. Роз'єм зарядного пристрою ослаблено або від'єднано 2. Роз'єм кабелю підключення акумуляторного блоку від'єднано	1. Надійно під'єднайте роз'єм 2. Відкрийте кришку акумуляторного відсіку та надійно під'єднайте роз'єм
5	Нетиповий стукіт під час руху	Невідповідна натяжка ланцюга	Відрегулюйте натяжку ланцюга
6	Після підключення до джерела живлення зарядний пристрій не працює належним чином, а індикатор живлення не показує рівень заряду	Захист від надмірного розряду акумулятора через тривалу відсутність зарядки або неправильне зберігання акумулятора	У разі такої ситуації зверніться до постачальника або сервісного центру. Не відкривайте пристрій без дозволу, інакше гарантія буде анульована
7	Інші несправності	1. Ви стикаєтесь із несправністю, яку неможливо вирішити самостійно згідно з інструкціями, або причина несправності не визначена 2. Пошкоджено мотор, контролер, зарядний пристрій, акумулятор	У разі виникнення таких ситуацій, будь ласка, зверніться до постачальника або сервісного центру. Не відкривайте зазначені частини без авторизації, інакше гарантійне обслуговування буде анульовано

Carefully review the description of what is not covered by the free warranty.

Section 9. Other Information

9.1 Maintenance

Regular cleaning and polishing will help extend the service life of the motorcycle. Moreover, it is easier to detect potential malfunctions on a clean motorcycle.

Pay special attention to the fact that sea water and anti-icing agents can accelerate corrosion. Be sure to thoroughly clean the motorcycle after trips along the coast or on roads treated with such substances.

Cleaning

Before cleaning, wait for the engine, brakes, and other hot parts to cool down.

Thoroughly rinse the motorcycle with a hose to remove dirt and dust. If necessary, clean the surface with a soft sponge or cloth, dampened with a neutral detergent. Be especially careful when washing plastic panels and other parts to avoid scratches. Do not allow water to come into contact with electrical components.

A

Thoroughly rinse the motorcycle with plenty of clean water and 3. wipe it down with a soft dry cloth.

Lubricate all moving parts. 4.

- Avoid getting lubricant on the brakes and tires, as this can significantly reduce braking effectiveness and lead to an accident.

Apply a layer of wax on the plastic exterior details for protection against corrosion.

- Do not use products with aggressive degreasers or chemical solvents — they can damage metal and plastic parts, as well as the paint.

- Do not apply wax to tires and brakes. If the motorcycle has a matte finish, do not use wax for polishing.

Precautions during cleaning

Follow these recommendations:

- Do not use pressure washers. High water pressure can damage moving and electrical components. Dry the brakes. Water on brake discs decreases braking effectiveness. After washing, drive at low speed and periodically press the brakes to dry them. Do not wash the battery and its casing with water or detergents. This can cause malfunction or failure to start. Avoid using wax or polishing agents on matte finishes.
-

Clean the matte surface with a soft sponge or cloth, using plenty of water and a neutral cleaning agent. Dry the surface with a clean, soft fabric.

9.2 Storage

If you leave the motorcycle outdoors, it is advisable to cover it with a proper protective cover.

If the motorcycle will not be used for an extended period, follow these recommendations:

- To prevent the battery's performance from deteriorating, store the motorcycle in a cool place. Recommended temperature: 0-25°C. Before long-term storage, fully charge the battery. Check the
- charge level every two months using a voltmeter.

9.3 Transportation

To transport the motorcycle, use a motorcycle trailer, a tow truck, or a vehicle with a platform equipped with special straps for securing. Before transportation, align the front wheel in the direction of travel and securely fasten the motorcycle with strong non-stretch straps (for example, attachments to the frame, front fork, rear swingarm, etc.).



Caution

Towing a motorcycle can seriously damage its transmission. If you need to move the motorcycle manually, be sure to wear protective gloves. This will help prevent injuries from moving parts (wheels, brakes, etc.).

9.4 Environmental Protection

Owning and managing a motorcycle is a pleasure, but at the same time, you must fulfill your duty to protect the environment.

- Choose the appropriate detergent

When washing your motorcycle, choose biodegradable detergents. Avoid aerosol products that contain chlorofluorocarbons (CFCs) as they destroy the ozone layer of the atmosphere.

- Waste recycling

Spent motor oil and other toxic waste should be stored in special containers and then sent for recycling. Contact local environmental services or government agencies to find out where such waste can be disposed of. Do not pour out spent oil, brake fluid, or cleaning agents into trash bins, sewage systems, or onto the ground. They contain toxic substances that can pollute water, soil, lakes, rivers, and oceans.

- Battery Disposal: if the motorcycle is no longer repairable, contact an authorized dealer for proper battery disposal.

*Images, functions, performance, and other parameters in the operation manual are provided for reference only. Please refer to the actual product.

*The final right of interpretation belongs to Zhejiang Arctic Leopard Electric Technology Co., Ltd.

10.1 Service Package for repair, replacement, and return

Contents of the warranty

Dear customers! We sincerely thank you for purchasing this product manufactured by Zhejiang Arctic Leopard Electric Technology Co., Ltd. Please carefully review the following warranty information.

The warranty for the entire vehicle is 1 year and includes 1. the motor, controller, battery, and charger, as well as other non-wearable details. Free service is provided in case of malfunctions that are not due to the buyer's fault. The product is not eligible for exchange or return if it is defect-free. 2. In the case of functional malfunction or improper quality, the product can be replaced after inspection at an authorized service center designated by our company, provided that it is confirmed that the problem was not the buyer's fault.

Warranty Period and Scope

The actual delivery date for "offline" and "online" buyers is specified in the receipt and is decisive (the counting starts from the day following the receipt's signing by the buyer). The receipt serves as valid proof of purchase. If the document is missing, lost, or damaged, the actual sale date is considered to be the one recorded in the system.

Warranty Details: 2.

Назва деталі	Зміст гарантії	Гарантійний термін
Літєвий акумулятор	Якщо літєвий акумулятор використовується у відповідному середовищі (діапазон температури середовища для заряджання становить від 0°C до +45°C, для зберігання від -20°C до +60°C) без зовнішніх ударів, ми надамо сервісне обслуговування у разі несправності, включаючи аномальну напругу, проблеми із заряджанням або якщо виявлена ємність менша за 75% (ємність акумулятора змінюється залежно від температури: 70% при -10°C, 85% при 0°C, 100% при 25°C).	12 місяців
Мотор	Зламани компоненти мотору, відсутність фаз котушки, розмагнічений магніт, зношений підшипник, утворення тріщин на кришці, загоряння (не з вини покупця) та інші несправності.	12 місяців
Контролер заряду	Неможливість заряджання або аномальний процес заряджання через виробничий дефект.	12 місяців

After-sales service

Назва деталі	Зміст гарантії	Гарантійний термін
Основний джгут проводів і збірка конвертера	Відсутні механічні пошкодження чи деформація. Якщо пломба не була порушена, а внутрішні компоненти не були відкриті, можуть виникати коротке замикання, обриви ланцюга та інші проблеми з якістю, що впливають на використання мотоцикла.	12 місяців
Панель приладів	Несправності або дефекти через виробничі проблеми.	12 місяців
Рама, рульова колонка, задній амортизатор, передній обід, гальмівний вузол, підніжка, бокова підставка, зірочка, ручка газу	Несправний компонент можна замінити при виникненні дефектів зварювання, розпаювання, тріщин, деформації, нахилу рульової колонки або керма, а також витоку масла з амортизатора чи його деформації. Пошкодження, спричинені ударами, самовільними змінами чи іншими причинами, не покриваються гарантією.	12 місяців

Назва деталі	Зміст гарантії	Гарантійний термін
Підшипники (за винятком підшипника двигуна), гальмівна ручка, ремінь, ланцюг, ущільнення масла амортизатора, камера та шина, диск, гальмівна колодка, вузол рульового механізму, крило, сидіння, запобіжник, спиці, декоративні деталі, пластикові частини та інші запасні частини, не зазначені в наведених вище категоріях.	Зношені частини.	Без гарантії

Note: warranty does not cover spare parts damaged due to the buyer's fault, and worn-out details. The aforementioned spare parts can be replaced free of charge if they fail during the warranty period and cannot operate properly after repair.

After-sales service

What is NOT covered by warranty

1. Out of warranty:

- Failure to perform regular or proper maintenance, poor conditions of use. Non-compliance with operating rules or exceeding the limits specified in the operation manual. Use of non-original or inappropriate spare parts. Malfunctions caused by natural disasters, accidents, and force majeure circumstances. Sensor phenomena that do not affect functionality (for example, vibration). Poor condition after repair by unauthorized services.
- Poor condition due to contact with kerosene, sulfur, bird droppings, salt, or other chemical substances. Self-modification, disassembly, addition, alteration of original characteristics or mileage indicators.
- Poor condition due to the use of the vehicle in conditions that do not meet normal road conditions.
-
-

2. Financial expenses that are not covered by warranty: The cost of regular maintenance. Various expenses and compensation for damages (including motorcycle rental, phone expenses, fax, transportation costs, deferred payment) related to repairs during the warranty period. Fines imposed on the owner due to improper use or motorcycle management. Adhere to the maintenance schedule specified in the operation manual.

Scope of warranty

The warranty applies to vehicles sold by Zhejiang Arctic Leopard Electric Technology Co., Ltd. or its authorized dealers.

Warranty period

In the event of a malfunction, the user must immediately 1. contact a specialized service center for repair. If the user delays the repair and the warranty period expires, the warranty will be voided. If the warranty period expires due to the service center's fault, 2. the service center is responsible for the consequences.

Replacement of the operation manual is not provided.

10.2 Warranty card

Ім'я власника		Контактний номер	
Інформація про транспортний засіб		Інформація про акумулятор	
Модель		Виробник акумулятора	
Номер рами		Модель акумулятора	
Номер мотору		Серійний номер акумулятора	
Перевірка за місцем продажу			
☐ Перевірено наявність інструкції та супровідних документів (включно з номером мотору, номером рами, сертифікатом відповідності тощо)			
☐ Інструктаж з перевірки, встановлення та запобіжні заходи під час використання акумулятора			
☐ Інструктаж з використання зарядного пристрою та відображення стану зарядки			
☐ Запуск мотоцикла та підготовка до поїздки			
☐ Перевірено тиск в шинах			
☐ Перевірено підвіски / поворот керма вліво і вправо / кріплення			
☐ Перевірено та/або врегульовано передні та задні гальма (включно з рівнем гальмівної рідини)			
☐ Інструктаж з регулярного технічного обслуговування			
Підтверджено дилером		Підтверджено клієнтом	
Печатка дилера		Дилер продемонстрував та пояснив мені всі пункти перевірки.	
Контактний номер			
Підпис інспектора		Підпис клієнта	
Дата		Дата	

After-sales service

Записи технічного обслуговування та ремонту			
№	Дата	Запис	Несправність і ремонт
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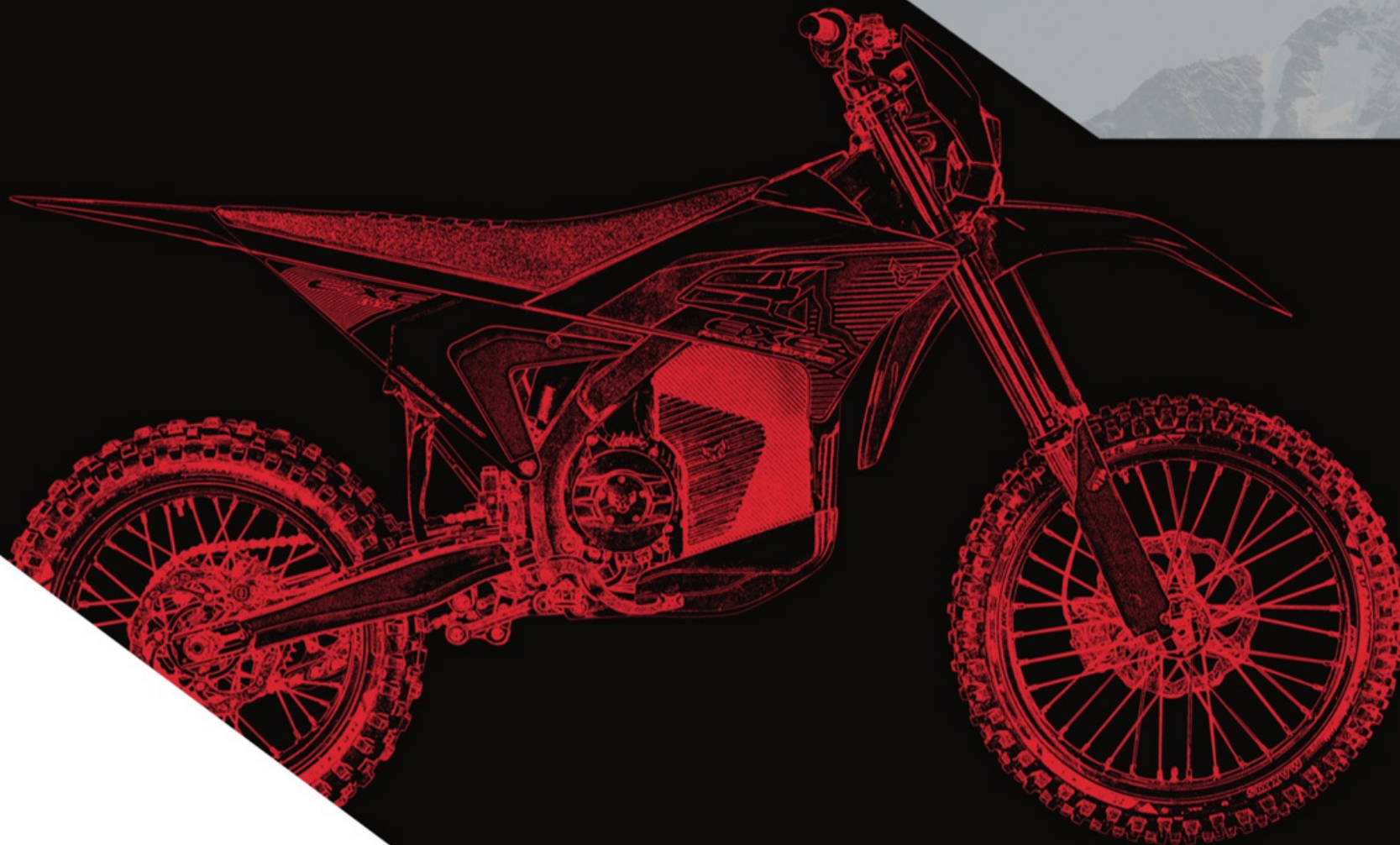
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