

# *KUKirin X1*

## OPERATION MANUAL



 [www.kukirin.net](http://www.kukirin.net)

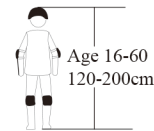
 [service@kukirin.net](mailto:service@kukirin.net)

Manufacturer: Shenzhen Kukirin Technology Co., Ltd.

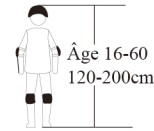
Address: Room 4F4913, Shenzhou Computer Building, Bantian  
Street, Longgang District, Shenzhen



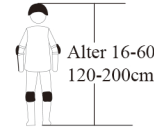
[www.kukirin.net](http://www.kukirin.net)



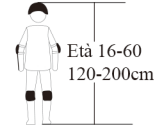
Please strictly abide by local traffic regulations. Drivers under the age of 16 and over the age of 60 are strictly prohibited from riding. Wear a qualified helmet and protective gear before riding. Do not ride on highways, urban expressways or motorway lanes.



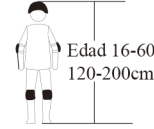
Veillez respecter scrupuleusement le code de la route local. Il est formellement interdit aux conducteurs de moins de 16 ans et de plus de 60 ans de conduire. Portez un casque et un équipement de protection adaptés avant de prendre la route. Ne roulez pas sur les autoroutes, les voies rapides urbaines ou les voies d'autoroute.



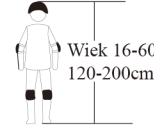
Bitte halten Sie sich strikt an die örtlichen Verkehrsregeln. Fahrern unter 16 Jahren und über 60 Jahren ist die Teilnahme strengstens untersagt. Tragen Sie vor der Fahrt einen geeigneten Helm und Schutzausrüstung. Fahren Sie nicht auf Autobahnen, Schnellstraßen und Autobahnspuren.



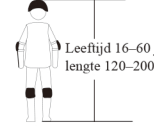
Si prega di rispettare scrupolosamente le norme stradali locali. È severamente vietato guidare ai conducenti di età inferiore ai 16 anni e superiore ai 60 anni. Indossare un casco idoneo e dispositivi di protezione individuale prima di mettersi alla guida. Non guidare su autostrade, superstrade urbane o corsie autostradali.



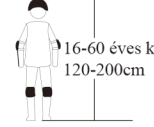
Por favor, respete estrictamente las normas de tráfico locales. Los conductores menores de 16 años y mayores de 60 tienen estrictamente prohibido conducir. Use casco y equipo de protección adecuados antes de conducir. No circule por autopistas, autovías urbanas ni carriles de autopista.



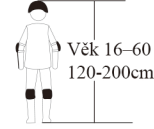
Prosimy o ścisłe przestrzeganie lokalnych przepisów ruchu drogowego. Kierowcom poniżej 16 roku życia i powyżej 60 roku życia surowo wzbronione jest prowadzenie pojazdu. Przed jazdą należy założyć odpowiedni kask i odzież ochronną. Nie należy jeździć po autostradach, drogach ekspresowych ani pasach autostradowych w miastach.



Houd u strikt aan de lokale verkeersregels. Bestuurders jonger dan 16 jaar en ouder dan 60 jaar mogen niet rijden. Draag een geschikte helm en beschermende kleding voordat u gaat rijden. Rijd niet op snelwegen, stedelijke autowegen of autosnelwegen.



Kérjük, szigorúan tartsa be a helyi közlekedési szabályokat. A 16 év alatti és 60 év feletti vezetők számára szigorúan tilos a járművezetés. Viseljen megfelelő sisakot és védőfelszerelést vezetés előtt. Ne közlekedjen autópályán, városi autópályán vagy autópálya-sávban.



Dodržujte prosím přísně místní dopravní předpisy. Řidičům mladším 16 let a starším 60 let je jízda přísně zakázána. Před jízdou si nasad'te vhodnou helmu a ochranné pomůcky. Nejezděte po dálnicích, městských rychlostních silnicích ani na dálničních pruzích.

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\* Riding warning icons (See pages 008 - 019)

1. WARNING	2. PRECAUTIONS
3. Packing list	4. Schematic diagrams
5. Assembly and operation guide	6. Dash board and switch group
7. Charging	8. Riding precautions
9. Potential safety risk avoidance	10. Dangerous behavior prohibition
11. Parameter list	12. Maintenance and repair
13. Troubleshooting	14. Warranty and client support

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\* Illustrations d'avertissement pour la conduite (voir pages 020-031)

1. AVERTISSEMENT	2. PRECAUTIONS
3. Liste de colisage	4. Schéma
5. Guide d'assemblage et d'utilisation	6. Tableau de bord et commutateurs combinés
7. Recharge	8. Consignes de conduite
9. Risques potentiels à éviter	10. Comportements dangereux interdits
11. Liste des paramètres	12. Entretien et réparation
13. Dépannage	14. Garantie et assistance clientèle

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\* Warnsymbole für das Radfahren (siehe Seiten 032-043)

1. WARNUNGEN	2. HINWEISE
3. Verpackungsliste	4. Abbildungen
5. Montage- und Gebrauchsanleitung	6. Armaturenbrett und Kombischalter
7. Aufladen	8. Hinweise zum Fahren
9. Vermeidung potenzieller Sicherheitsrisiken	10. Verbotene gefährliche Handlungen
11. Parameterliste	12. Wartung und Reparatur
13. Fehlerbehebung	14. Garantie und Kundendienst

Indice Italiano . . . . . 044

\* Scheme degli avvisi di guida (rimanda pagine 044-055)

1. AVVISI	2. AVVERTENZE
3. Lista di Imballaggio	4. Schema
5. Guida al Montaggio e all'Uso	6. Strumento e Interruttore Combinato
7. Carica	8. Punti di Avvertenza di Guida
9. Prevenzione di Potenziali Rischi per la Sicurezza	10. Divieto di Comportamenti Pericolosi
11. Elenco di Parametri	12. Manutenzione e Riparazione
13. Risoluzione di Problemi	14. Garanzia e Assistenza Clienti

Directorio español . . . . . 056

\* Iconos de advertencia de ciclismo (consulte las páginas 056-067)

1. ADVERTENCIAS	2. PRECAUCIONES
3. Lista de embalaje	4. Diagrama esquemático
5. Guía de montaje y uso	6. Panel de instrumentos e interruptor combinado
7. Carga	8. Conducción
9. Evitar posibles riesgos para la seguridad	10. Prohibición de comportamientos peligrosos
11. Lista de parámetros	12. Mantenimiento y reparación
13. Solución de problemas	14. Garantía y asistencia al cliente

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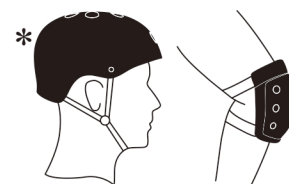
\* Ilustracje ostrzegawcze (patrz strony 068-079)

1. UWAGA	2. PRZESTROGI
3. Lista pakowania	4. Schemat
5. Wskazówki dotyczące montażu i użytkowania	6. Tablica przyrządów i przełączniki zespolone
7. Ładowanie	8. Sprawy związane z jazdą konną
9. Unikanie potencjalnych zagrożeń bezpieczeństwa	10. Zakaz niebezpiecznych zachowań
11. Lista parametrów.	12. Utrzymanie i naprawa
13. Rozwiązywanie problemów	14. Gwarancja i obsługa klienta

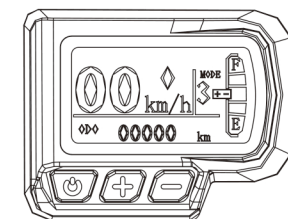
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\* Waarschuwingspictogrammen tijdens het rijden (Zie pagina's 080 - 091)

1. WAARSCHUWING	2. VOORZORGSMAATREGELEN
3. Inhoud van de verpakking	4. Schematische diagrammen
5. Handleiding voor montage en gebruik	6. Dashboard en schakelpaneel
7. Opladen	8. Voorzorgen tijdens het rijden
9. Vermijden van mogelijke veiligheidsrisico's	10. Verbod op gevaarlijk gedrag
11. Parameterlijst	12. Onderhoud en herstelling
13. Probleemoplossing	14. Garantie en klantendienst



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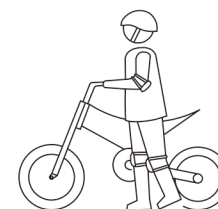


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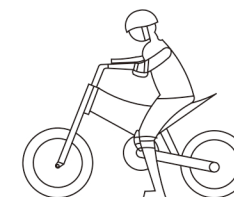
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\* Figyelmeztető ikonok a motorozáshoz (lásd a 092–103. oldalt)

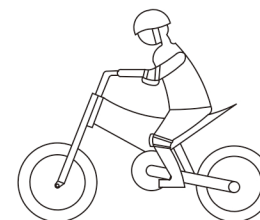
1. FIGYELMEZTETÉS	2. ÓVINTÉZKEDÉSEK
3. Csomaglista	4. Vázlatos ábrák
5. Összeszerelési és használati útmutató	6. Műszerfal és kapcsolócsoport
7. Töltés	8. Vezetési óvintézkedések
9. Potenciális biztonsági kockázatok elkerülése	10. Veszélyes viselkedés tilalma
11. Paraméterlista	12. Karbantartás és javítás
13. Hibaelhárítás	14. Garancia és ügyfélszolgálat



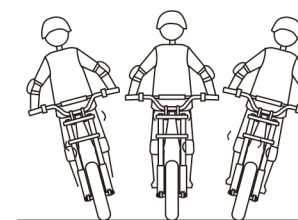
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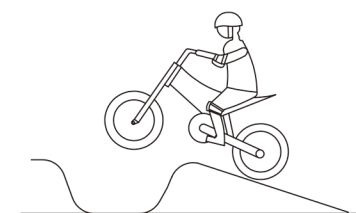
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\* Výstražné ikony pro jízdu (viz strany 104–115)

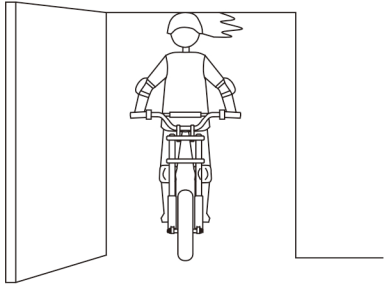
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3. Seznam věcí k zabalení	4. Schématické diagramy
5. Návod k montáži a obsluze	6. Přístrojová deska a skupina spínačů
7. Nabíjení	8. Bezpečnostní opatření při jízdě
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11. Seznam parametrů	12. Údržba a opravy
13. Odstraňování problémů	14. Záruka a zákaznická podpora



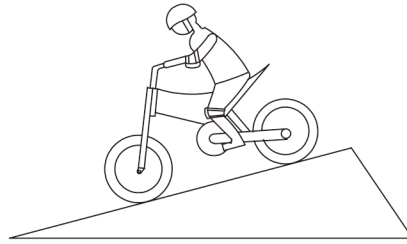
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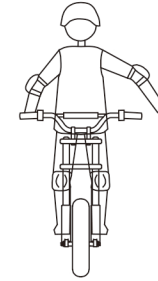
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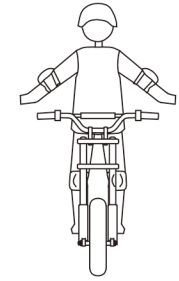
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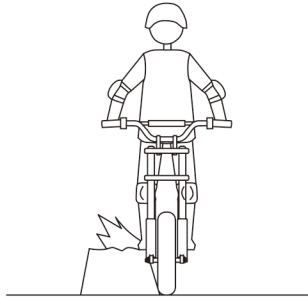
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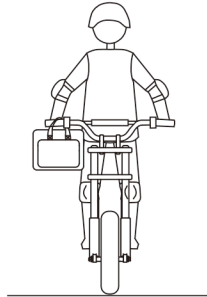
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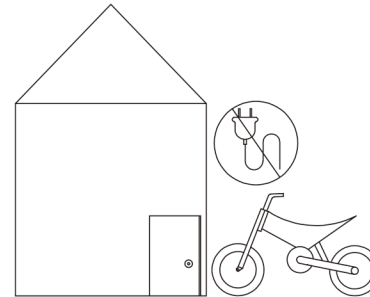
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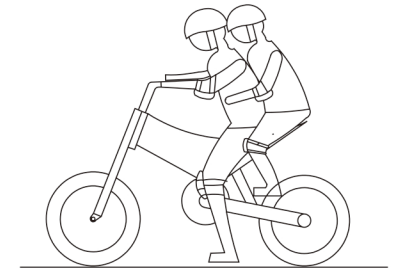
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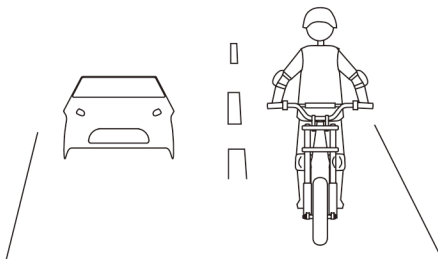
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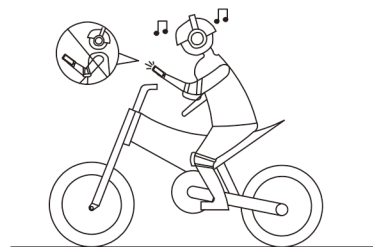
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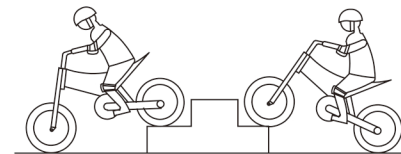
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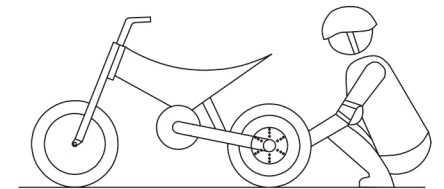
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Unpacking and assembly/Déballage et assemblage/Auspacken und Zusammenbauen/  
 Sballamento e montaggio/Desembalaje y montaje/Rozpakowywanie i montaż/Uitpakken en montage/Kic-  
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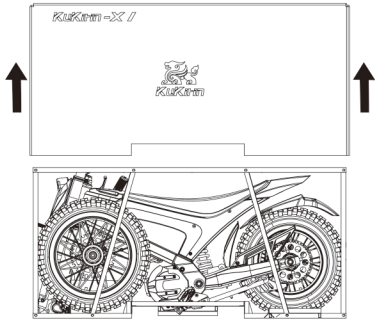


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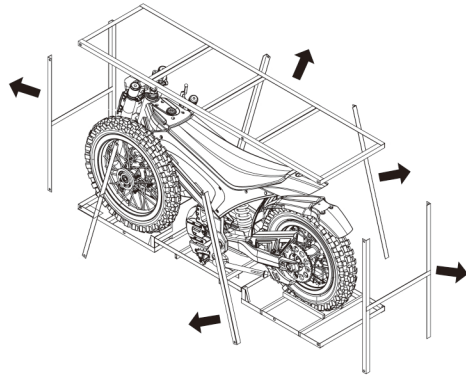


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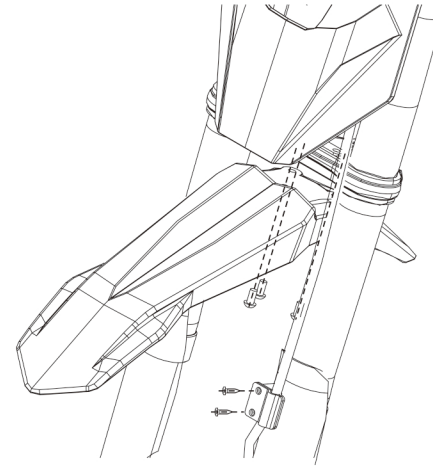
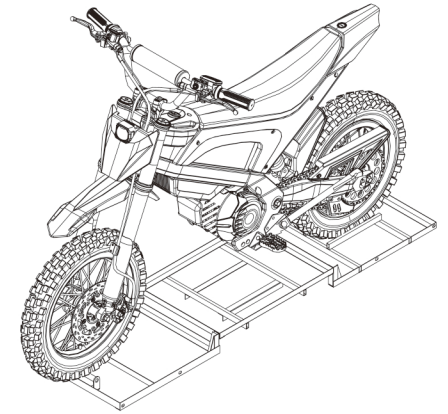


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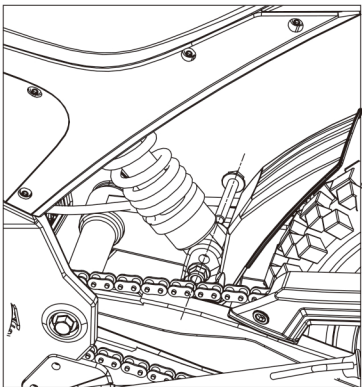


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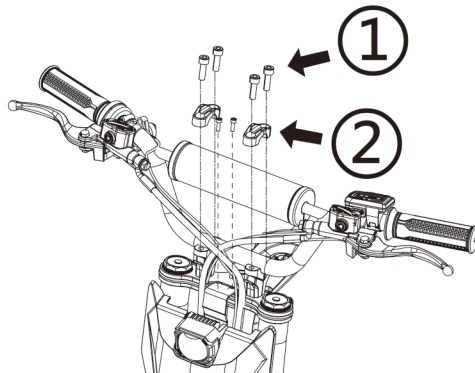


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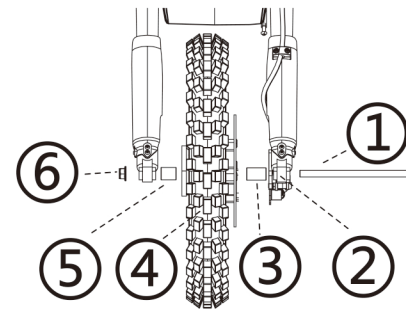


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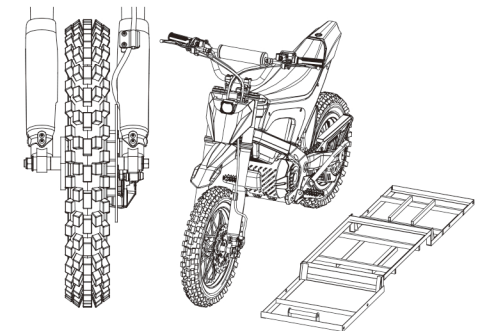


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External charging & battery removal charging process illustration:

Schéma du processus de recharge externe et de démontage/remontage de la batterie :

Schematische Darstellung des externen Ladevorgangs und des Ein- und Ausbaus der Batterie:

Schema del processo di ricarica esterna e smontaggio/montaggio della batteria:

Proceso de carga externa y desmontaje de la batería:

Schemat procesu ładowania zewnętrznego i demontażu baterii:

Illustratie van extern opladen en het opladen na verwijdering van de batterij:

Külső töltés és akkumulátor eltávolításának töltési folyamatának illusztrációja:

Ilustrace procesu externího nabíjení a vyjmutí baterie:

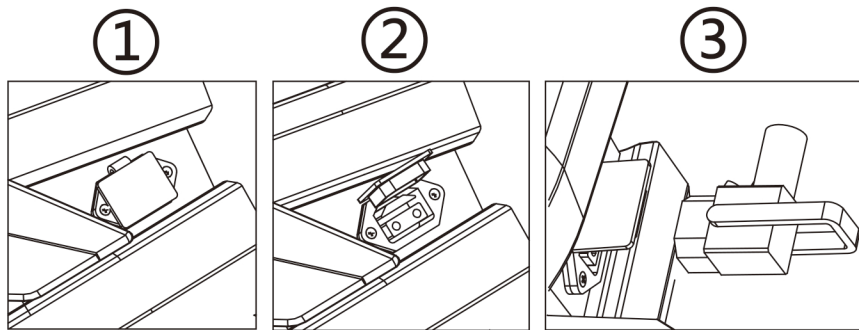


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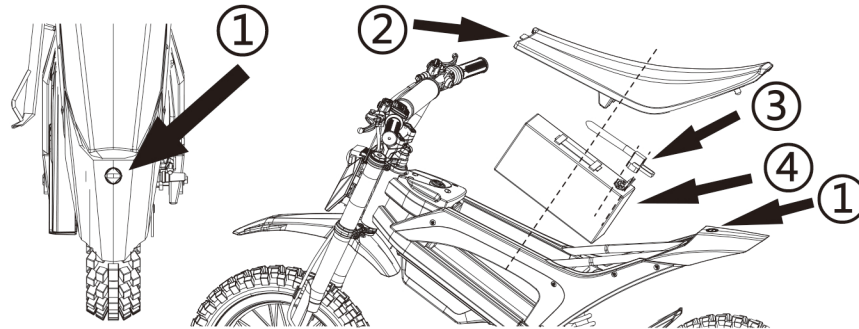


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## EC Declaration

This certifies that following designated product

Generic denomination: Electric motorcycles

Product name: KuKirin electric motorcycles

Type or model: X1

Manufacturer: Shenzhen Kukirin Technology Co., Ltd.

Address: Room 4F4913, Hasee Computer building, Bantian street, Longgang District, Shenzhen

The contents concerning this declaration comply with the requests of the EU directives as follows:

La présente déclaration est conforme aux exigences des directives européennes suivantes :

Diese Erklärung bezieht sich auf die Erfüllung der Anforderungen der folgenden EU-Richtlinien:

Il contenuto di questa dichiarazione è conforme ai requisiti delle seguenti direttive UE:

Los contenidos cubiertos por esta declaración cumplen los requisitos de las siguientes Directivas de la UE:

Niniejsza deklaracja zgodności jest zgodna z wymaganiami następujących dyrektyw europejskich:

Deze verklaring voldoet aan de vereisten van de volgende EU-richtlijn:

A nyilatkozat tartalma megfelel az alábbi uniós irányelvek követelményeinek:

Obsah tohoto prohlášení je v souladu s požadavky směrnice EU, a to takto:

- ◆ Machinery Directive (2006/42/EC),
- ◆ Low Voltage Directive (2014/35/EU),
- ◆ EMC Directive (2014/30/EU),
- ◆ RoHS Directive (2011/65/EU).

Name: Mark Zhang

Signature: *Mark Zhang*

## 1. WARNING

Both this electric motorcycles and all of its components comply with all European safety laws and regulations. Nonetheless, we recommend that you take protective measures and ride it responsibly. KuKirin will not be liable for any problems caused by misuse of the product or failure to comply with traffic regulations and the instructions herein.

It is of great importance for you to have a thorough understanding of your new electric motorcycles so that you can experience the best performance, comfort, enjoyment, and safety while riding. To familiarize yourself with this new electric motorcycles and its proper operation, you should read through this manual first. The recommended minimum age of riders is 16 years old; children aged 0 to 16 years are not suitable for this electric motorcycles, and children over 16 years old should ride under constant supervision. Maximum rider weight: 120 kg; the minimum and maximum rider heights: 120 cm to 200 cm.

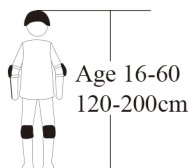
It is very important for riders to ride this electric motorcycles in a safe and controllable manner during their first ride, because the faster the velocity is, the longer the braking distance will be. Please anticipate your trajectory and velocity while observing road rules, sidewalk rules, and basic safety principles, and take good care of yourself and others at all times. For example, stay away from vehicles, obstacles, and other cyclists while riding this electric motorcycles. No rider shall enter highways, motorways, or public lanes, ride in reverse, or ride in the rain. Please slow down and detour when encountering waterlogged roads. Avoid heavily trafficked areas and cross crosswalks on foot. Please pay special attention to ensure your safety while riding this electric motorcycles at night. When approaching pedestrians or cyclists who might not see or hear you, please signal your presence clearly to avoid startling or surprising them.

The electric motorcycles is a vehicle that involves certain risks. For your own safety, please consider your health and physical condition seriously to determine if there are any issues that may pose a risk to your personal safety or prevent you from riding an electric motorcycles properly. Do not ride an electric motorcycles after drinking alcohol, taking drugs, or using medications that impair your ability to ride. Do not ride an electric motorcycles in hazardous areas with flammable or explosive substances, liquids, or debris. Do not use a cellphone or headphones while riding. Any weight placed on the handlebars will compromise the electric motorcycles stability. It is necessary to understand the traffic rules concerning electric motorcycles use on local public roads, and you must comply with these rules during each ride.

This electric motorcycles does not include mandatory equipment upon shipment, though this may vary by region. Therefore, if you plan to ride this electric motorcycles on public roads, you must equip it with the basic mandatory equipment as required by local laws and regulations.

This product is designed for personal use only. Do not use it for commercial or other purposes. Please keep this manual for future reference.

All figures and pictures herein are for reference only. Please refer to the actual product for details.



When riding a electric motorcycles, please wear protective equipment such as a helmet, knee pads, elbow pads, wrist guards, etc., all the times to reduce the risk of injury.

## 2. PRECAUTIONS

Please check the tire pressure before riding this electric motorcycles; ensure that the handlebars are properly and securely installed. Please make sure that the battery has been fully charged. If the battery capacity becomes low during your ride, continue riding slowly and smoothly. Please charge your electric motorcycles as soon as possible.

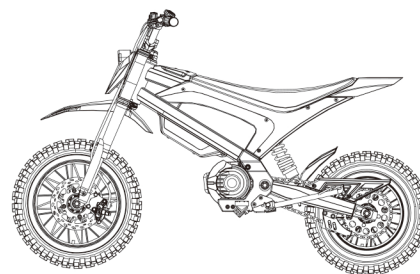
Please check the charger, cable, and plug before each charging operation. Do not use the charger if there is any damage. The braking distance on a wet road is usually longer than on a dry road. As a result, riders must brake earlier to ensure a safer stop.

Cross designated pedestrian crossings on foot. Avoid and eliminate all sharp edges that may develop during use. Try to avoid riding this electric motorcycles on rainy, stormy, or snowy days. Damp or flooded electrical modules (control unit, motor, and battery) may suffer irreversible damage and may even result in battery explosion. This product is intended for use by only one adult at a time. Please do not carry any passengers. If you are feeling unwell or are under the influence of alcohol or medication, please do not ride this electric motorcycles.

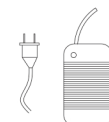
Please do not perform any stunts or acrobatics with this electric motorcycles, as it is not designed for such activities. Do not modify or alter this electric motorcycles, including its steering tube, bushings, rods, rear brake, etc. This vehicle is not a toy. As with any other vehicle, this electric motorcycles is subject to risks such as falling, colliding, or other dangerous situations. Do not lend your electric motorcycles to anyone who does not know how to operate it properly. If you allow others to ride your electric motorcycles, you are responsible and liable for ensuring: all riders have understood the warnings, precautions, and instructions; they are capable of operating it safely and responsibly; and they can protect themselves and others from harm.

This electric motorcycles must be kept away from flammable materials and open flames. Do not ride this motorcycle on rainy days.

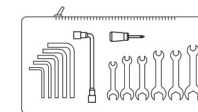
## 3. Packing list



1. User Manual\*1



2. Charger\*1

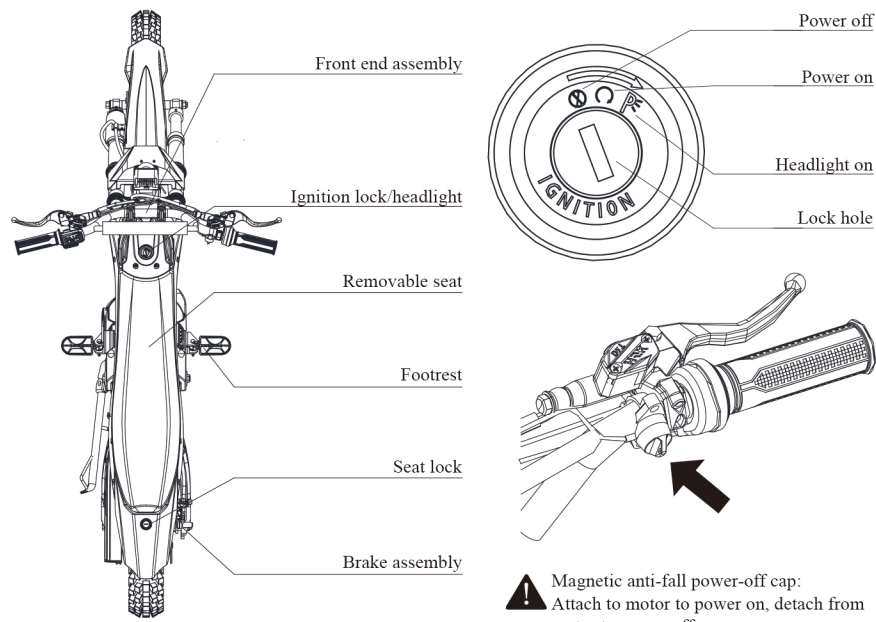
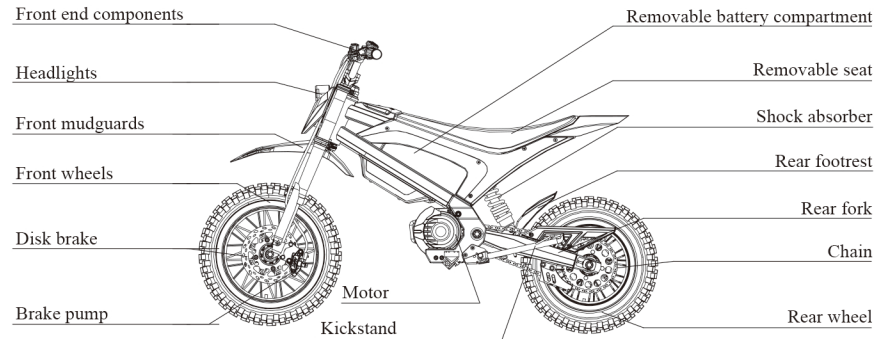


3. Tools

Please scrutinize them in case of any loss or damage. If there is, please contact us without delay.

## 4. Schematic diagrams

Note: Vehicle noise is less than 70 dB.



## 5. Assembly and operation guide

### Unpacking and assembly

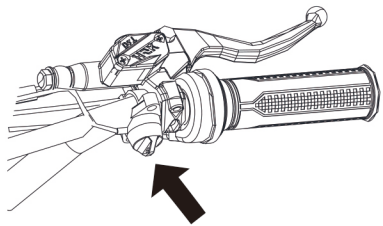
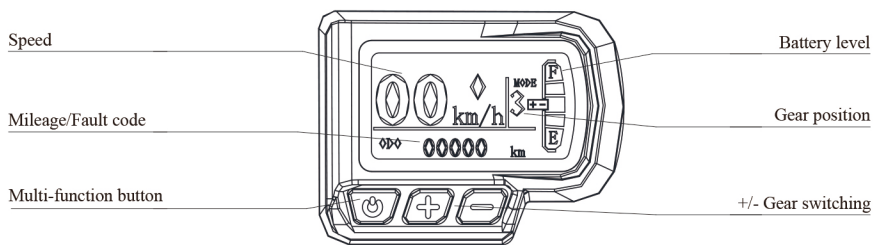
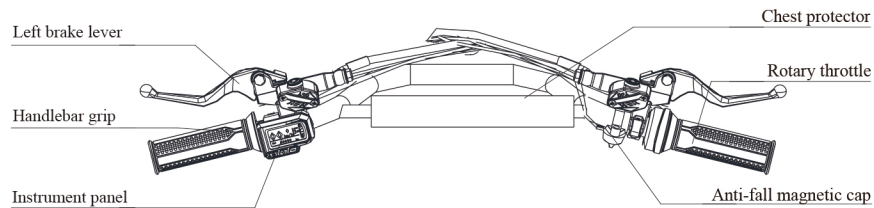
1. Pull the packaging upward. (See Figure 1 on page 004-006.)
  2. Remove the surrounding metal frames. (See Figure 2 on page 004-006.)
  3. Install rear wheel shock absorber, note direction, tighten nuts. (See Figure 3 on page 004-006.)
  4. Install the handlebar and tighten the hex screws. (See Figure 4 on page 004-006.)
  5. Install the front fender and tighten the hex screws. (See Figure 5 on page 004-006.)
- ⚠️ It is recommended to place appropriate supports under the motor and complete the front wheel installation on the iron frame. (See Figure 6 on page 004-006.)
6. Place the parts strictly according to positions ①②③④⑤⑥, thread ① through ②③④⑤, and finally tighten ⑥ to complete the front wheel installation. (See Figure 7 on page 004-006.)

After completing the installation, remove the vehicle. (See Figure 8 on page 004-006.)

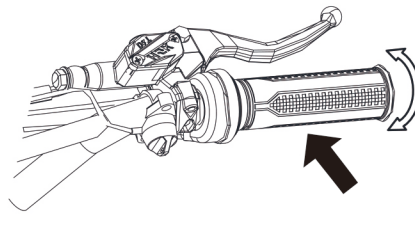
### External charging & battery removal charging process illustration

1. ① The external charging port is on the right side of the vehicle, ② open the charging port, ③ insert the charger. (See Figure 9 on page 004-006.)
2. ① Turn the key clockwise, ② remove the seat cushion, ③ unplug the power cord, ④ remove the battery. (See Figure 10 on page 004-006.)

## 6. Dash board and switch group



Magnetic anti-fall power-off cap: attaches to the motor to power on, disconnects to power off.

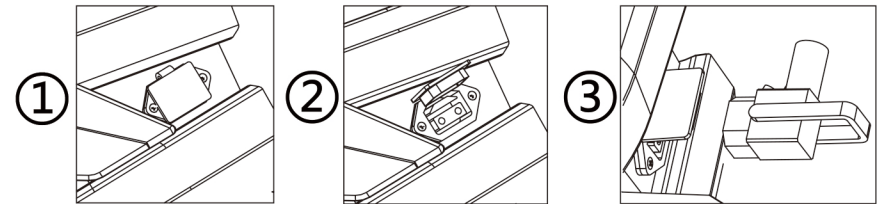


Clockwise rotation: accelerates, resets after relaxation and stops power output.

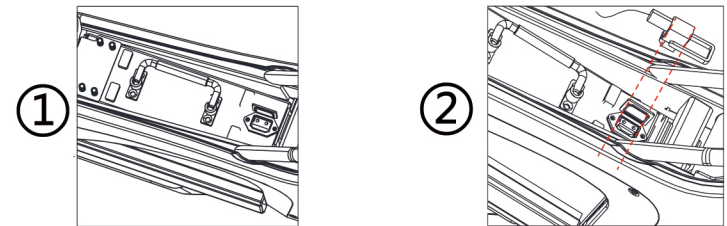
Icons	Names	Operation & Meaning
	Magnetic anti-fall power-off cap	Attaches to the motor to power on, disconnects to power off.
	Power button	Long press: Power ON/OFF.
	+ Gear switching	Single-unit + Gear switching.
	- Gear switching	Single-unit - Gear switching.

## 7. Charging

### External charging port:



### Battery removal:



**Warm Tips:** The charger indicator will be red during charging, and it will turn green once fully charged. Please charge the battery to its maximum capacity before the first use. It is recommended to charge the battery after each use and before it is completely drained. An excessively low voltage may shorten the battery's service life.

**Important Reminders:** Please only use the original charger provided by KuKirin, and do not use any other charger to charge this electric motorcycles. The electric motorcycles must be turned off during charging. Plug the charger into a power socket within the range of 100V to 240V, and charge the battery in a room temperature between 0°C and 35°C.

Do not burn the battery or expose it to high temperatures, as it may explode. Do not charge the electric motorcycles using a charging port, charger, or power socket in a humid environment. If the battery is damaged or comes into contact with water, do not charge or continue to use it. A battery under extreme conditions may leak. If leakage comes into contact with skin, rinse immediately with soap and water; if it enters the eyes, rinse immediately with clean water for at least 10 minutes and seek medical assistance immediately.

Do not modify the charger in any way. Keep the battery away from small metal objects, such as paper clips, coins, keys, nails, or screws.

The battery must be installed in the correct position. If the electric motorcycles will remain idle for a long period, the battery should be removed. Please tighten the rubber plug in the charging port when the electric motorcycles is not charging. Do not ride the electric motorcycles while it is charging.

## 8. Riding precautions

### ATTENTION:

Do not exceed the max load-bearing capacity of the electric motorcycles (refer to the technical specifications).  
Footwear Requirement: Riders must always wear shoes when riding this electric motorcycles.

Compliance: Check and observe local regulations concerning electric motorcycles use.

### Driving:

Insert and turn the key to start the electric motorcycles, then connect the magnetic emergency switch. Gently push the electric motorcycles forward and twist the handlebars to accelerate. To slow down or stop the electric motorcycles, use the brake lever.

### Braking method:

Gently squeeze the brake lever to slow down the electric motorcycles gradually and avoid sudden braking. Begin braking early, especially in wet or slippery conditions, as braking distance increases.

Use a combination of braking and throttle release to control the electric motorcycles's speed and ensure safe riding.

### Avoid obstacles:

Avoid jumping over obstacles such as curbs or steps in urban traffic conditions.

Assess the obstacle in advance and adjust your speed and direction based on its shape, height, or slipperiness. Maintain a safe distance from pedestrians while crossing obstacles.

If the obstacle appears dangerous due to its size or surface condition, it is recommended to dismount and walk the electric motorcycles around it.

### Parking:

Press the brake lever to gradually slow down and stop the electric motorcycles. Then stabilize the electric motorcycles and engage the kickstand.

Please turn off the power and remove the key after using the electric motorcycles.

## 9. Potential safety risk avoidance

Wear a helmet and protective equipment to avoid dangers. (See Figure 1 on page 001.)

Ensure that all display functions on the dashboard are operating correctly before riding the electric motorcycles. (See Figure 2 on page 001.)

When pushing the electric motorcycles forward, use the throttle carefully to avoid pressing it all the way down. (See Figure 3 on page 001.)

Keep the electric motorcycles well balanced during its starting and stopping process, and pay attention to both starting and stopping safety. (See Figure 4 on page 001.)

Keep yourself well balanced during your riding process, grip the handlebars and speed up in a smooth manner. (See Figure 5 on page 001.)

Turn the handlebars slowly and tilt their center of gravity when turning to avoid a sharp turn. (See Figure 6 on page 001.)

Riding an electric motorcycles is not advisable on rainy days or in flooded conditions. (See Figure 7 on page 001.)

For your safety, no flying slopes on the ride! (See Figure 8 on page 001.)

Be careful not to hit your head when passing through doors or collide with a tall object. (See Figure 9 on page 002.)

Please control your velocity when going downhill. (See Figure 10 on page 002.)

Avoid tires coming in contact with larger obstacles. (See Figure 11 on page 002.)

Avoid carrying heavy loads on the handlebars as it may compromise riding safety. (See Figure 12 on page 002.)

## 10. Dangerous behavior prohibition

Please observe the local laws and regulations during the riding process. (See Figure 13 on page 002.)

Do not use electronic devices while riding this electric motorcycles to avoid distractions. (See Figure 14 on page 002.)

Do not ride this electric motorcycles using only one hand or one foot. (See Figure 15 on page 003.)

Never ride this electric motorcycles without holding the handlebars. (See Figure 16 on page 003.)

Do not charge this electric motorcycles indoors. Always ensure charging safety. (See Figure 17 on page 003.)

This electric motorcycles is designed for one person only. Do not carry passengers or children. (See Figure 18 on page 003.)

Do not ride this electric motorcycles up or down stairs, or attempt to jump over high obstacles. (See Figure 19 on page 003.)

Do not touch the disc brake immediately with your bare hands after riding in case of burns. (See Figure 20 on page 003.)

## 11.Parameter list



Product name	<b>KuKirin X1</b>	
Dimension	Packaging dimensions	1350*376*647mm
	Product dimensions	1575*678*1006mm
Parameters	Max velocity	≤ 50km/h
	Endurance mileage at a medium velocity	≤ 40km
	Max slope	≤ 20°
	Shock absorber	Front and rear shock absorbers
	Waterproof grade	IP65
	Brake	Front and rear disc brakes + power-off brakes
	Display contents	Velocity, mileage, battery capacity, headlamp, etc.
	Lamp light	LED
Motor	Frame materials	Aluminum alloy
	Voltage	48V
	Rated power	1000W
Battery data	Peak power	2000W
	Input voltage	100~240V/50~60Hz
	Voltage / capacity	48V/20.8Ah
Weight	Charging duration	54.6V/2.5A charger, takes about 9 hours to charge.
	Max load	120kg
Tire	Net weight	About 52 kg
	Type	Off-Road Pneumatic Tire
	Inch	14 inch & 12 inch

## 12.Maintenance and repair

**Electric motorcycles cleaning:**

Clean the main frame with a soft, damp cloth. For persistent stains, apply toothpaste and scrub gently with a toothbrush, then wipe with a soft, damp cloth.

**!** Do not clean your electric motorcycles with alcohol, gasoline, kerosene or other corrosive or volatile solvents as they may damage its exterior and interior structure. Spray via pressurized washer or hose is strictly forbidden. Before cleaning, make sure that this electric motorcycles is powered off and free of charging and its charging port is tightly sealed. Otherwise, the cleaning process may compromise its electronic elements or cause water into its battery.

**!** **WARNING!** Please stop operating this product if it is damaged. This electric motorcycles will be subjected to high stress and normal abrasion during utilization so the relevant components shall be overhauled in a timely manner according to the Manual. Worn or damaged components or those beyond service lives must be replaced in time so as to avoid riding risks.

**Daily maintenance:**

Check the tire pressure regularly and maintain a proper pressure.

Make sure that both brakes are functioning properly.

Scrutinize the tightness of all screws and nuts.

Wipe this electric motorcycles surface with a clean cloth so as to prevent water from entering electronic elements.

**Battery maintenance:**

When charging or leaving the electric motorcycles idle, turn off the power and avoid fully discharging the battery.

If storing the electric motorcycles for a long period, keep it in a safe, dry place. Maintain battery capacity above 50% and charge it at least once every 3 months. Avoid using or storing the battery in extreme temperatures.

Always charge the electric motorcycles using the original charger to prevent battery damage or fire risk.

**Regular overhauling:**

Electric motorcycles frame, front fork, and suspension: Inspect the frame, fork, and suspension components (if applicable) regularly to ensure there is no damage.

Monthly inspections are recommended, especially for frequent use.

**Storage:**

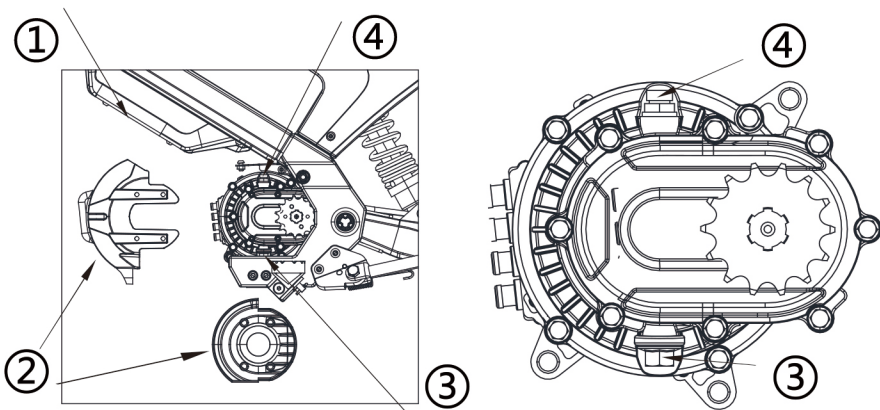
Store the vehicle in a flat, stable, well-ventilated, and dry area.

Avoid exposing the electric motorcycles to direct sunlight or storing it in excessively humid environments for extended periods.

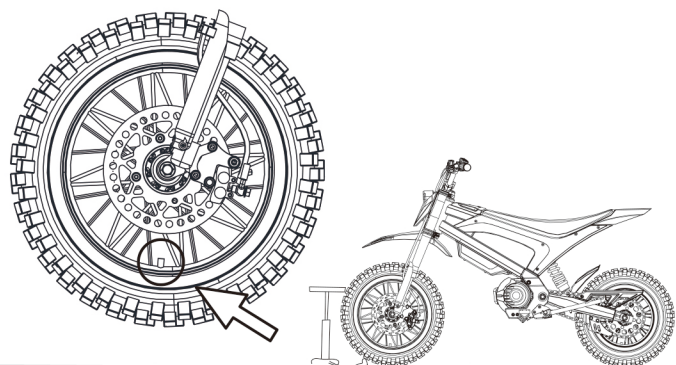
Keep the electric motorcycles clean during storage.

**Gearbox oil change steps:**

1. Remove the four hex screws and take off the controller housing.
2. Remove the four hex screws and take off the motor housing.
3. Drain hole: Rotate counterclockwise to open the bolt, drain the gear oil, and tighten the bolt after completion.
4. Oil filling port: Turn counterclockwise to open the bolt, add gear oil, then tighten the bolt after completion.

**Tire inflation:**

If the tire pressure is low, please inflate the tires using an air pump. First, remove the valve caps from both the front and rear tires. Then, securely attach the air pump connectors to the tire valves. Once they are properly tightened, inflate the tires using the air pump.

**13. Troubleshooting**

Malfunction	Code	Solutions
Brake handle failure	E02	The brake handle is not in place.
Battery undervoltage	E06	Low battery voltage or battery damage.
Motor failure	E07	Motor Hall failure or motor damage.
Grip failure	E08	The throttle is damaged, not in its original position, or the magnetic switch is detached or damaged.
Controller failure	E09	The components of the controller are damaged.
Communication reception failure	E10	The instrument cannot receive the controller's signal or the communication line is disconnected.
Communication transmission failure	E11	The controller cannot receive the instrument's signal or the communication line is disconnected.

**14. Warranty and client support**

- ✘ Prohibition: Do not adopt any accessory or additional item that are not approved by the manufacturer so as to avoid corresponding problems.

**Warranty period:**

If this product should fail or be damaged, it can be repaired, replaced or returned free of charge upon confirmation by KuKirin after-sales center. In any of these cases, please contact the product dealer and conduct operation as per instructions. At that time, you need to produce accurate, complete and valid purchase information or invoice.

**Customer service:**

If component repair or replacement is necessary, please contact our authorized service center or dealer for support.

**Warranty coverage:**

Warranty contents	Warranty period
Controller, instrument, motor, lithium battery and charger, electric motorcycles frame, front body, rear wheel hub, brakes, telescopic tube, front fork, brake system, throttle dial, etc.	1 year

