



E4 Remote Manual

Tips: Thank you for purchasing this product! Wrong operation may cause abnormal use or even damage related equipment. We strongly recommend that you read this manual carefully before using the equipment and strictly abide by the specified operating procedures. We do not assume any responsibility arising from the use of this product.

Liability, including but not limited to liability for incidental or indirect losses; At the same time, we do not assume any responsibility caused by modifying the product without authorization. We have the right to change the product design, appearance, performance and use requirements without notice.

If your remote control battery is low, please do not charge and use it at the same time. Doing so may cause malfunction, including unintended acceleration of the electric skateboard, which can lead to serious injury.

Note: A short press means pressing and releasing the button in about 1 second; a long press means holding the button down without releasing it.

1. Specification Parameters

Name	Specifications	Parameter
E4 Remote	Battery Size	802540
E4 Remote	Capacitance Capacity	3.7V/800mA
E4 Remote	Charging Time	40% charged in 20 minutes
E4 Remote	Charging port	Type-c
E4 Remote	Lanyard	Supported
E4 Remote	Weight	65g
E4 Remote	communication Method	Multi-point frequency hopping 2.4G
E4 Remote	Remote Distance	20 meters in an open area
E4 Remote	Display Type	TFT1.47 inch /RGB color screen
E4 Remote	Display Size	1.47 inches
E4 Remote	Transmit power	20dBm

2. Function Function Description & Parameter Adjustment

parameter adjustment:

2WD/4WD selection, unit selection, belt & hub selection, wheel diameter, motor pole pair & transmission ratio setting, display brightness adjustment, sensorless/sensored switching, 4-speed (1/2/3/4) speed/acceleration curve/current & power adjustment, coasting deceleration adjustment, 4-speed (1/2/3/4) color selection, voltage display, fixed frequency test, front drive power setting.

Remote On

Long press the Power button for 3 seconds to turn on the remote control, and the display will light up.

Remote Power Off

Long press the Power button for 3 seconds

Remote Automatically Turn Off

The remote control will turn off automatically after 30 seconds if it is not connected to the scooter; if connected, it will not turn off automatically and will only power off 30 seconds after the scooter is turned off and the connection is lost. If the scooter is in motion, long press the power button for 5 seconds to activate vibration; hold the button for another 20 seconds without releasing it to turn off the remote control.

Unit switching:

When the remote is turned off, press and hold the No.1 and No.2 buttons to display the menu interface, press the No.2 screen arrow to move up and down to UNIT: KMH /MPH, and the wave wheel switches between kilometers and miles.

Wheel Speed Display Adjustment

When the remote controller is turned off, press and hold the reverse and power buttons to display the menu interface, press the arrow on the screen of power to move up and down, and move the WHEEL DIAMETER:100 wheel diameter setting, MOTOR POLE PAIRS:10 motor pole number setting, and SPEEDRATIO:1.0.

For transmission ratio setting, please set reasonable parameters according to the configuration of the vehicle model.

Remote Display Content

Scooter battery level, remote control battery level, ODO (total mileage), single trip mileage, maximum sprint speed record, real-time speed, forward/reverse indicator, speed gear, brake gear, communication indicator, etc.

Vibration Alerts

Power on: 1 vibration

No scooter connected: 2 vibrations

Press Power button: 1 vibration

Press Speed button: 1 vibration

Long press Power to shut down: 1 vibration

Midpoint learning error: continuous vibration

Scooter battery below 10%: 2 vibrations

Remote Neutral Position Learning

When the remote control is off, long press the Power and Reverse buttons until the screen displays THUMBWHEEL: OK (Neutral position learning successful). If NG is displayed, the learning has failed and continuous vibration will occur.

Lights On

When the remote control is on, long press the Speed button (one vibration) to turn on the light; long press the button again to switch to brake light mode.

Forward/Reverse Switching

Double press the Power button, and the direction arrow will display on the screen: one vibration for forward, two vibrations for reverse.

Pairing Method

Step 1: Turn on the scooter first, then long press the scooter's Power button for 3 seconds. The scooter's indicator light will flash every 0.5 seconds to enter pairing mode (the indicator light stays on to exit pairing mode). A successful connection is confirmed when the scooter's communication indicator and the remote control's communication indicator flash synchronously.

Step 2: Turn on the remote control, then press and release the Power and Function buttons simultaneously for 1 second (press both buttons at the same time for 1-2 seconds, then release both). Pairing is completed.

Step 3: Confirm the synchronous flashing of the scooter's and remote control's communication indicators to verify a successful connection.

Scooter Battery Level Indicator

The remote controller is successfully connected to the scooter, B1 is the power of the scooter with the main engine. B2 as the auxiliary engine (the main engine as the rear drive and the auxiliary engine as the front drive), and the power is divided into four segments, and the full light is the power ("100%-75%"), (the first grid is "75%-50%") and (the second grid is "50%-25%") (the third one turns off "25%-5%") When the power is lower than "10%-0%", the fourth grid flashes for 0.5 seconds, and the remote control vibrates twice.

Remote Battery Level Indicator

Turn on the power of the remote controller, as shown in Figure FULL, the lightning sign is green, and as shown in Figure LOW, the remote controller is in the feed state, and the lightning sign is red, which needs to be charged in time. When the

red lightning sign flashes, it is in the bottom power protection state, and the remote cannot accelerate, so it can only brake.

Tank Mode

In 4WD connected state, click the Speed button 6 times to enter Tank Mode. Roll the thumb wheel to turn or rotate the scooter: roll up for left turn, roll down for right turn. Exit Tank Mode by pressing any button or automatically after 10 seconds of inactivity. Warning: Do not stand on the scooter when in Tank Mode.

Cruise Mode

Cruise at a constant speed of 5-50 km. During the acceleration of the throttle, press the Power button of the Power supply briefly to enter the cruise, display the cruise logo, and press any button such as the following power button or brake acceleration to exit the cruise.

Acceleration/Braking

Push the thumb wheel forward to control scooter acceleration.

Pull the thumb wheel backward to control scooter braking.

Push the thumb wheel forward to switch speed gears; pull it backward to adjust brake force levels.

Speed Gear Switching

When the scooter is stationary or coasting, short press the Speed button to switch between 4 speed gears:

1 short press = Gear 1 (low speed)

2 short presses = Gear 2 (medium speed)

3 short presses = Gear 3 (high speed)

4 short presses = Gear 4 (sport high speed)

Braking Force Gear Shift

Pull the thumbwheel backward and hold it, then short press the Speed button to switch between 4 brake force levels:

Brake 1 (low), Brake 2 (medium), Brake 3 (high), Brake 4 (sport).

Front Drive Power Distribution (4WD Mode)

In the menu interface, select FWD MOTOR CURRENT:50% to adjust front drive power (lower value = less power, higher value = more power).

Remote Charging

Charging port: Type-C

Red lightning CHG icon: Charging in progress

Green lightning icon: Fully charged

Remote Battery Protection

When the power of the remote controller is less than 5%, the battery voltage is less than 3.2V It is forbidden to push the "roller" forward, and it is normal to brake by pulling the "roller" backward. (If the power of the remote controller is less than 1%, it can only brake), and the remote controller will automatically shut down.

Note: Charge the remote control immediately when the LOW red lightning icon appears to avoid lithium battery damage from over-discharging.

Signal Loss

If signal is lost while accelerating: The scooter stops accelerating and the motor coasts freely.

If signal is lost while braking: Braking remains effective for 1 second. Reconnect within 1 second to resume normal use.

If signal loss exceeds 1 second: Both acceleration and braking are disabled, and the scooter coasts freely.

3. Self-Learning Tutorial

Pair the remote control first. Press and hold the power button for 3s until 1 beep, release, then press and hold again until 2 beeps to enter learning mode. Push the remote throttle to check motor direction. If wrong, double-click power to reverse; verify after each change. Hold the throttle (cruise allowed) until learning completes (buzzer beeps 4 times repeatedly). Pull the brake to exit and save; ready for use.

Beep Modes (Hold power, release & hold again cyclically)

- 1 beep: Remote pairing
- 2 beeps: Motor learning (throttle required)
- 3 beeps: Current setting (adjust via remote)
- 4 beeps: Voltage setting (adjust via remote)

Controller Features

Self-learning controller, compatible with dual/4WD; Voltage: 7 - 14S; Per-motor current: 8 - 35A; Supports 99% of motors on the market.

4WD Setup Notes

B1 = Rear drive, B2 = Front drive (do not mix up).

Pair rear motor to remote B1 (re-pair if not B1), then learn.

Turn off rear motor power, pair front motor to B1, then learn (check direction).

Interface Introduction:



Remote Low Battery

00.0mi 0001mi Brake 4
(P) ← 00 mph Gear 2
39.8v (t·) LOW ⚡

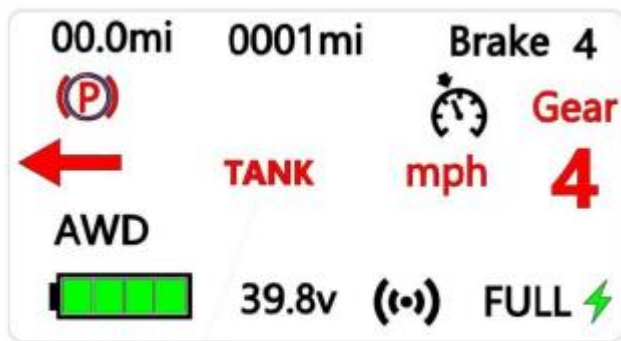
Remote low battery

Disconnected







Tank Mode:

4WD Tank



Tank Mode

Introduction of Remote Parameters:

THUMBWHEEL:OK	CHARGING:...	摇杆中位状态
> DRIVE MODE:2WD/AWD/FWD/RWD		双驱、四驱模式选择
UNIT:KPH-MPH		单位切换
DRIVE TRAIN:HUB MOTOR / PULLEYED		电机类型选择
WHEEL DIAMETER:100		轮径设置
MOTOR POLE PAIRS: 10		极对数设置
SPEEDRATIO:1.0		传动比设置
BRIGHTNESS:75%		亮度调节
MOTOR MODE:SENSORED/SENSORLESS		无感有感切换
THUMBWHEEL:OK	CHARGING:...	
G1 > TOP SPEED: 30%		1档速度设置
ACCELERATION: 30%		1档加速曲线设置
CURRENT: 30%		1档电流设置
G2 > TOP SPEED: 40%		2档速度设置
ACCELERATION: 50%		2档加速曲线设置
CURRENT: 50%		2档电流设置
G3 > TOP SPEED: 70%		3档速度设置
ACCELERATION: 70%		3档加速曲线设置
CURRENT: 70%		3档电流设置
THUMBWHEEL:OK	CHARGING:...	
G4 > TOP SPEED: 100%		4档速度设置
ACCELERATION: 100%		4档加速曲线设置
CURRENT: 100%		4档电流设置
DECELERATE:50%		减速比例设置
COLOR G1: 		1档颜色
COLOR G2: 		2档颜色
COLOR G3: 		3档颜色
COLOR G4: 		4档颜色
THUMBWHEEL:OK	CHARGING:...	
SHOW VOLT:YES/NO		电压显示开关
> FREQUENCY:2402		频率测试模式
FWD MOTOR CURRENT:50%		四驱模式下, 前驱动力分配
LIMIT:GEAT4		速度档位限制
FACTORY RESET:YES		恢复出厂设置
Click Power Button		
To Confirm Reset		
LONG PRESS POWER BUTTON		
TO SAVE AND EXIT		

Exterior View of Remote:

