



NANROBOT

LIGHTNING

USER MANUAL



This manual contains important information to help you use your product more safely.

OFFICIAL SITE: WWW.NANROBOT.COM

CONTACT & SUPPORT EMAIL: SUPPORT@NANROBOT.COM

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REQUIRED CHECK BEFORE RIDING



WARNING!

Please read this manual carefully before using the product.

CHECK THE SCOOTER BEFORE RIDING

CHECK THE SCOOTER BEFORE RIDING

1. Check that the control panel turns on.
2. Ensure that the brakes are working properly.
3. Check that the brake pads are not damaged or need replacing.
4. Make sure the seat is stable and secure.
5. Check that the horn is operating correctly.
6. Ensure the switch for Eco and Turbo mode switch are working normally.
7. Make sure the voltage value is within the normal range of 42V-54V.
8. Make sure the folding mechanism is in good condition and operational.



SAFETY GUIDELINES

SAFETY PRECAUTIONS

1. Always wear a helmet and knee and elbow pads when riding.
2. When first riding the scooter maintain a low speed and slowly increase speed as riding skills improve.
3. Do not ride the scooter on rainy days.
4. Riding through puddles is not recommended.
5. Children under the age of 16 are prohibited from riding.
6. The handlebar should be adjusted to an appropriate and comfortable position.
7. When going downhill, ensure you are driving slowly to avoid accidents.
8. Obey all traffic rules.
9. Ensure all screws are in condition and appropriately fastened.



PRODUCT SPECIFICATIONS

NANROBOT LIGHTNING SPECS

NET WEIGHT	65 LBS
SIZE	49*46*24 INCH
CHARGING TIME	8-10H
WHEEL DIAMETER	8 INCH WIDE WHEEL
RANGE	18-20 MILES
MAXIMUM SPEED	30 MPH
LOAD CAPACITY	MAX 280LBS
LITHIUM BATTERY	48V 18AH
MOTOR	1600W



PRODUCT COMPONENTS

LIGHTNING





SAFETY GUIDELINES BEFORE RIDING

CHECK THE FOLLOWING PARTS OF THE PRODUCT AFTER UNBOXING

1. Check if there is a tool kit.
2. Check for a charger.
3. Check if there is a voltage lock key.
4. All nuts and screws should be tight.
5. Seat (if available).
6. Test the brakes.

PACKING LIST



X 1



X 1



X 2



X 1



X 1



UNBOXING

IMPORTANT CHECKLIST



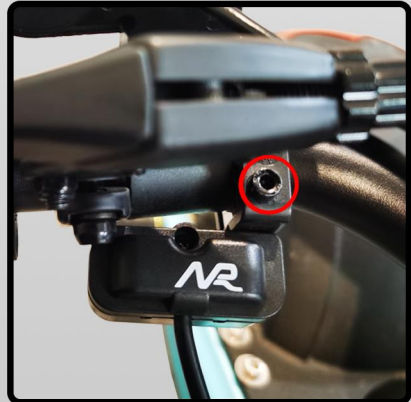
Check whether the LCD control panel screws are tightened.



Make sure the voltage lock and light button screws are tightened.



Check whether the brake lever screws are tightened.

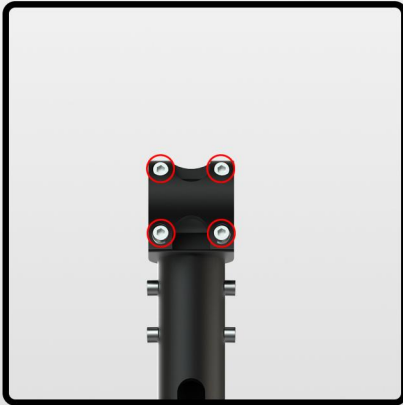


Check whether the SINGLE/DUAL button screws are tightened.



UNBOXING

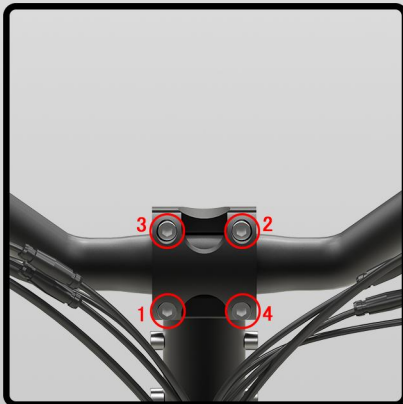
HANDLEBAR ASSEMBLY



① Loosen the screws on the handle mount with a 4mm hex wrench, which is included in the basic tool kit.



② After aligning the handlebar with the center mount, replace the cover mount, and tighten the fixing bolt.



③ Progressively tighten the bolts in sequential order (1 to 4), ensuring equal tension balance between the mount and handlebar.



④ Installation complete.



SCOOTER UNFOLDING

HANDLEBAR UNFOLDING



① Push the handlebar in the direction of the arrow.



② Align the 1-shaped buckle with the grooves, then tighten the folding knob.



③ Make sure to perfectly align the 1-shaped buckle.



④ Unfolding complete.



SCOOTER FOLDING

HANDLEBAR FOLDING



① Loosen the knob in the direction of the arrow.



② Keep loosening the folding knob until the J-shaped buckle completely leaves the grooves



③ Lower the handlebar.



④ Folding complete.



CHARGING & RANGE

When charging, connect the charging cable in this order:

1. FIRST to scooter's charging port
2. THEN to the power outlet

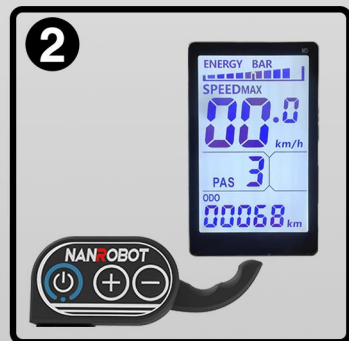
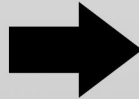
NOTE: When connected to the charger, the red light indicates that the scooter is charging. The light will turn green when fully charged.

Be sure to close the charging port cap when driving or storing except when charging. Use only genuine chargers.

Range: 18-20 miles. The range of the scooter depends on many factors: road conditions (off-road, uphill), weather, rider's bodyweight, frequent braking and acceleration, single/dual drive, gears 1/2/3 etc.

POWER TURN ON/OFF

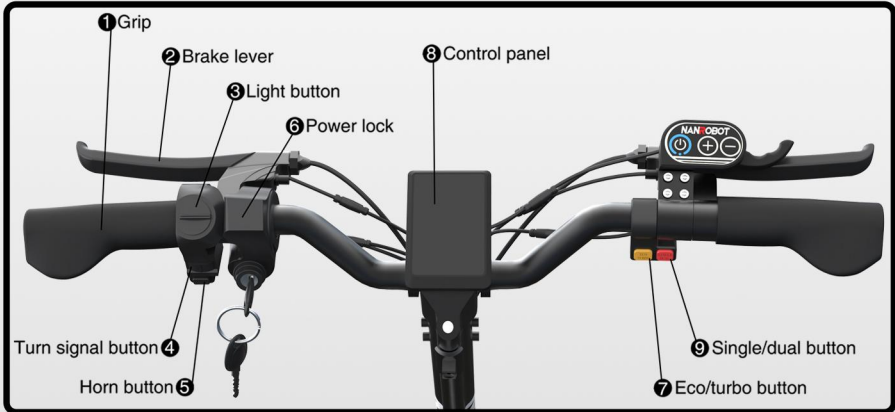
- 1 Insert the key into the power lock and turn to unlock your scooter.
- 2 Press the POWER key for 3 seconds to turn on.



You can turn off power either directly via the power lock or turn it off by pressing and holding the POWER key on the control panel for 3 sec.



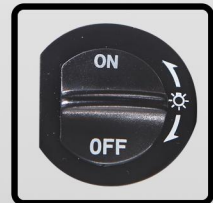
HANDLEBAR CONTROLS



Lcd Control Panel



Horn Button



Light Button



Turn Signal Button



Power Lock

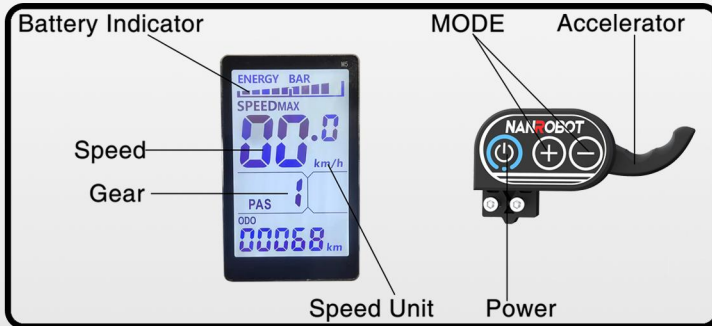


Single/Dual Drive Switch



CONTROL PANEL INSTRUCTIONS

CONTROL PANEL



- **POWER:** long presses will either start or shut down the scooter)
- **MODE:** parameter setting key
- **Gear:** current gear (gears: 1, 2, 3)
- **Switch Gears:** Pressing the key (⊕ ⊖) allows you to change gears, shifting from level 1 (slowest) to level 3 (fastest).
- **Short press the key (⏻) to switch between:** TIME, TRIP, ODO, VOL.
- **N-Soft:** A hard start requires greater momentum to start the scooter into motion.
- **Speed Unit:** MPH, KMH.
- **Battery Indicator:** current battery capacity.

1. The panel will automatically turn off after three minutes of inactivity.
2. A short press of the POWER key(⏻) allows the user to change the display content of the instrument (TIME. TRIP. ODO, VOL, etc.) When 00:00 is displayed, the panel is indicating current run time (TIME display). When TRIP is displayed, it indicates the mileage for that particular trip. When ODO is displayed, the total mileage of all trips is shown. The VOL display indicates the battery voltage.



PARAMETER SETTINGS

Press and hold both MODE (⊕) and MODE (⊖) keys at the same time to enter the mode settings menu. Short pressing either MODE (+1) or POWER (-1) will change parameter items. Once at the desired parameter, holding MODE will change the value to flashing and all for that parameter to be modified. A short press to the POWER key will decrease the value, and a short press on MODE increases the value. After the modification is completed, hold the MODE key down to set and save the value, the flashing will also stop.

Note: Please keep the default values of the parameter settings; please do not change these values.

FOR EXAMPLE

How to disable EBS (Electric Braking System)

Press and hold both the POWER (⊕) and MODE (⊖) key simultaneously to enter the settings, and short press MODE (or POWER) until P11 is displayed. Then hold MODE to select P11, short press POWER or MODE to change it to 0. Then long press MODE to save the changes.

Parameter settings and definition		
P01	Headlight brightness: 1-3, 3=brightest	Default=3
P02	Speed units: 0=Kmh 1=Mph	Default=Kmh
P03	Voltage: 24V,36V,48V,52V,60V	Default=48V
P04	Self cut off : Unit: minute 0= turn off the self cut off; 1-60 = time for self cut off. For example: P04=5, the scooter will cut off after 5 minutes by itself if you don't use it.	Default=5
P05	-	-

P06	Wheel diameter: Inch; Precision: 0.1	Default=8.0
P07	Magnetic poles in hub motor. Do not change it .	Default=28
P08	Max output (max speed) 1-100%	Default=100
P09	Non-kick start / Kick start 0=Non-kick start 1=Kick Start	Default=0
P10	-	-
P11	EBS brake settings: 0=EBS off, 1=weakest, 5=strongest	Default=3
P12	Start settings: 1-5 1=slowest start 5=strongest start	Default=3
P13-14	-	-
P15	Voltage cut off. When the voltage drops to 42.0V, undervoltage protection will be triggered and the power supply will be cut off automatically.	Default=42.0
P16	ODO clearing setting: long press "Mode" for 5 seconds, the ODO will be cleared.	-
P17	Turn on / off cruise control 0=Non-cruising 1=Cruising	Default=0
P18-19	-	-
P20	Default=4. Do not change it.	Default=4

COMMON ISSUES AND SOLUTIONS

Issue 1: Both the light and horn are not working. This happens when the display is defective and is solved by replacing the display.

Issue 2: The scooter is not charging. The issue may be with the charging port. If the charging port is burned out, it will require replacing. The other may be that the charger is damaged. In either case, please contact customer service via e-mail to receive a solution.

Issue 3: The brake pads produce abnormal sounds. Generally, this is due to malposition. Please use the tool kit and adjust to the correct place.



MAINTENANCE & FAQ

The screws should be regularly maintained, inspected and tightened. Especially the screws on the folding mechanism, brake system and motors (axle nuts).

1. Tighten the folding mechanism screws, handlebar, front & rear shock absorbers, front & rear wheel axle nuts.
2. Brakes: if you find rust or excessive wear on the brakes, which will occur with regular use over time, the brake pads and brake discs should be replaced.
3. Motor: Check the motor wires regularly. All exposed wires should be wrapped with electrical tape.
4. Tires:
 - (1) Do not inflate the tires beyond the recommended air pressure range.
 - (2) The tires will slide easily in wet conditions. Avoid rain, snow, icy road, wet dirt road, water, poor visibility.
 - (3) Replace the tires on your scooter once wear patterns become evident. This will prolong the use of the scooter.
5. Speed limit removal: please go to P8 and then press the "M" button for 1 minute until your go back to the main menu.
6. Battery & overheat protection: the controllers and the battery has temperature sensors and the scooter stops working when it gets too hot. Please wait about 0.5-2 hours to cool down the scooter or use eco/1st gear to continue riding after 5-10 minutes.



CUSTOMER SUPPORT

Scooters manufactured by Nanrobot are pre-assembled, though some of the parts may require assembly by our customers. To help ensure the safety of your scooter and driving, please check and test everything before using your scooter. If your inspection finds an issue with the scooter, please contact your seller. You can also contact your seller if you need assistance with any of the assembly

SHIPPING

To avoid damage during transport, the we have safely packed all of the electric scooter components in foam and cardboard. If there is something broken upon arrival, please take photos of the damaged parts and contact the seller, they will be able to offer you a solution.

MECHANICAL DAMAGE OR MODIFICATIONS

If your scooter is damaged due to an accident or misuse, you can buy replacement parts nanrobot.com, the distributor or seller you made your purchase from, or you can send the scooter to be repaired. The buyer bears all repair costs. If there are other after-sale problems or questions, please send an e-mail to us at support@nanrobot.com.



WARRANTY GUARANTEE

WARRANTY GUARANTEE

We do provide a warranty and offer customer service for our products if you find there is a quality issue. You can do this by contacting us, and we will offer professional instructions and solutions timely.

For the entire scooter, vulnerable parts like tires, brake discs, horn, dash board, light etc. are within the warranty of 90 days Battery and controllers are within the range of 180 days. The frame is within 365 days repair warranty. If the problem is caused by non-human factors, we will provide new replacements for free.

We are not responsible for wrong return and refund loss, the buyer should be responsible for more than 20% return charge, and double-way transportation charge.

EXCHANGES (IF APPLICABLE)

We only replace items if they are defective or damaged. We do not accept returns but do offer exchanges; all inquiries can be directed to us via an e-mail at support@nanrobot.com.



Website: www.nanrobot.com
FB: Nanrobot Electric Scooters