nakto®

ELECTRIC BICYCLE

Cruiser2

Owners Manual & Assembly Guide

Assembly Starts on Page 32

1. Preface

2. Safety

3. Illustrations

4. Bicycle Overview

5. Assembly（page32）

1.Preface

1.1. Welcome to Nakto Bikes

Welcome to the Nakto Bikes family! We're excited you've chosen Nakto for your eco-friendly rides, whether commuting or exploring.
For any questions or assistance, our support team is always ready to help. We're dedicated to providing you with top-notch service whenever you need it.

Website: www.nakto.com
General Email: support@nakto.com
Contact:
National: 909-281-9608 (Mon-Fri: 11am-8pm Pacific Time)
Central: 816-886-8882 (Mon-Fri: 9am-6pm Central Time)

Nakto Help Center:
For tips, articles, and service policies, visit: https://naktohelp.zendesk.com/hc/en-us

1.2. Symbols

⚠ Warning
Serious injury or death may occur if safety instructions are not followed.

⚠ Caution
May cause physical injury or damage if instructions are ignored.

⚠ Important
Important information to prevent potential issues.

● Notice
Extra tips for better use.

1.3. General warning

Bicycling, like any outdoor activity, carries a risk of injury and damage. By choosing to ride a bicycle, you assume this responsibility. Understanding and practicing proper use, maintenance, and the rules of safe riding is essential. Proper use and maintenance of your bicycle can significantly reduce the risk of injury.

⚠ Warning

Inspect the frame, fork, and rims before each ride for damage or cracks. Do not ride if any damage is found, as it can lead to failure during operation, resulting in serious injury or death.

⚠ Warning

Always wear an approved bicycle helmet while riding. Ensure your child understands that helmets are for biking only and must be removed when not riding. Helmets should not be worn while playing or engaging in other activities. Failure to follow this warning could result in serious injury or death.

❗ Notice

This manual contains important safety, performance, and service information. Read it before your first ride on your new Nakto Bike. Additional information for specific components (e.g., suspension, pedals, or accessories) may be available. Ensure you have all manufacturer literature from your dealer. If there’ s a conflict between this manual and the component manufacturer’ s instructions, always follow the component instructions.

❗ Notice

As a parent or guardian, you are responsible for your child's safety. Ensure the bicycle is properly fitted and in good repair. Both you and your child must understand safe operation and obey local laws and common sense biking rules. Review this manual and its warnings with your child before allowing them to ride.

❗ Notice

Your riding area may have specific safety device requirements. Familiarize yourself with local laws and comply with all regulations regarding bike lighting, licensing, sidewalk use, helmet laws, child carriers, and special traffic laws. It’ s your responsibility to know and follow these laws.

2.Safety

2.1. Safe Riding Practices

⚠ Warning

It is important to carefully follow assembly instructions. Incorrect assembly, neglectful maintenance, or improper use of your Nakto bike can result in failure, loss of control, serious injury, or death. Regardless of rider experience, the operator of the Nakto bike must read and understand the entire manual and any other relevant instructions provided prior to riding. If you are unsure if you have the abilities, skills, and tools to properly assemble the bike, consult a local Nakto Bikes dealer or reputable bike mechanic.

Familiarize yourself and obey all applicable laws

Laws will vary from locality to locality. It is your responsibility to know, understand and obey the relevant laws to the region where you are riding your bike.
Become acquainted with your e-bike in a secure area prior to riding on the open road. Experiment with all the different pedal assist settings and with using the throttle (if allowed in your locality) to grow familiar with the results.

2.1.1.Intended Usage of the Cruiser 2.0

The Cruiser 2.0 is intended for transportation or recreational uses. The Cruiser bike is not intended for off-road use.

⚠ Warning

Understand your bike and its intended use. choosing the wrong bicycle for your purpose can be hazardous.
Using the Low rider/Cruiser the wrong way is dangerous.

No one type of bicycle is suited for all purposes. Your dealer can help you choose the right bike for your needs and help you understand the benefits and limitations of different models.

⚠ Caution

Maximum weight limits are estimates based on several factors which may vary including but not limited to riding style, road and terrain conditions and weight distribution. It is never advisable to continue to load the bicycle to its maximum capacity. If you have questions regarding the use of your bicycle at its maximum capacity please consult your Nakto Bikes dealer of contact Nakto Bikes customer support: 909-281-9608 or support@nakto.com

The maximum load capacity for the Cruiser 2.0 is 330 pounds (150 kilograms).

2.2. Battery & charger

⚠ Warning

· Keep the battery away from children and pets.
· Do not submit the battery to extreme temperatures, and store it in a clean dry place
· Keep the battery and charger away from water and open fire.
· Do not drop or subject the battery and charger to any big shocks or impacts.
· Charge the battery only with the charger that was supplied with the e-bike, or a replacement charger supplied by Nakto Bikes or an official Nakto dealer.
· Do not use the battery and charger for purposes other than described.
· Never connect the battery's terminals with each other
· Do not cover the battery and charger or place objects on top of it during charging
· Do not leave the battery and charger unattended while charging.

· Disconnect the charger and the battery immediately if you notice a strange smell or smoke.
· In the unlikely case that the battery is on fire: immediately notify emergency services.
· Lithium-ion batteries require an ABC or dry chemical fire extinguisher. Water will not suppress the fire.

2.3. Riding with Accessories & Cargo

⚠ Caution

The Cruiser 2.0 is not designed for transporting more than one rider. It is not recommended for passengers to be transported on this model.
The Cruiser 2.0 has a maximum load capacity of 330 pounds (150 kilograms). The load capacity includes the weight of the rider and any additional cargo or accessories.

2.4. Children as Passengers

⚠ Warning

Never exceed the total maximum load capacity of the Cruiser 2.0 or the maximum load capacity of the rear carrier rack.
Always follow the installation instructions, the safety instructions, and the usage instructions of the child seat manufacturer.
Incompatible mounts or improper installation can cause the child seat to fail or become detached from the rear carrier rack, leading to serious injuries or death.
Not all brands and models will be compatible with the Cruiser 2.0. It is essential that if a child carrier is used with the Cruiser 2.0 that it is fully compatible with the bike’ s rear carrier rack. Do not use a child carrier that is

not fully compatible.
Never alter or modify the original parts, the frame, or any other stock part of the Cruiser 2.0 to accommodate a child seat or any other accessory.

⚠ Caution

It is not advised or recommended to operate the Cruiser 2.0 with a child and child carrier that would exceed the maximum load capacity (50 lbs.) of the rear carrier. Exceeding the maximum load capacity of the rear carrier may cause damage or failure to the rear carrier.
The use of a bicycle trailer will cause extra load and stress, increasing the wear on the Cruiser 2.0's electrical and mechanical parts.

2.5. Riding in Various Conditions

It is the responsibility of the rider and operator to be aware of weather and lighting conditions. Should the rider choose to ride in inclement weather and/or poor visibility conditions, extra precautions should be taken.

2.5.1. Wet Weather

For all vehicles, wet weather impairs visibility, tire traction, and braking distance. Risk of an accident in inclement weather is significantly increased.

2.5.2. Night Riding

Reflectors offer significantly less visibility for the rider than lights. Riding without an adequate lighting system during times of poor visibility is dangerous and may result in serious injury or death.
Children should never ride during times of poor or diminished visibility. Adults who choose to accept the greatly increased risk of injury while riding during times of poor or diminished visibility should take extra precautions while riding and should choose specific equipment to lessen that risk.

2.6. Compatible Parts & Accessories

⚠ Warning

Do not exceed the maximum load capacity of the e-bike.
Follow the instructions for installation, safety, and usage as stated by the accessory that is to be used and installed on the e-bike.

⚠ Caution

Never modify any of the original parts or the frame of the e-bike to accommodate third party parts or accessories.
Not all third party parts and accessories are compatible with the Cruiser 2.0. Consult your local dealer or Nakto support if unsure of compatibility or questions with assembly and installation.

❗ Notice

If missing instructions, instructions are not clear, or instructions are not understood, take the necessary actions to acquire and understand the instructions for installation and use prior to using the accessory.

3.Illustrations

3.1. Electrical

1. Display	3. Motor Cutoff	5. Battery	7. Motor
2. Pedal Assist Sensor (PAS)	4. Front Light	6. Controller	8. Cable Tree

3.2. Mechanical

1. Tire
2. Wheel
3. Valve Stem
4. Hub
5. Quick-Release
6. Shifter
7. Brake Lever
8. Disc Brake Caliper
9. Disc Brake Rotor
10. Bottom Bracket
11. Crankset
12. Chainring
13. Chain
14. Rear Derailleur
15. Cassette or Freewheel
16. Seatpost Clamp
17. Pedals
18. Front Fender
19. Rear Fender
20. Rear Carrier Rack
21. Kickstand

3.3. Frame

1. Head Tube	4. Seat Tube	7. Stem	10. Saddle
2. Top Tube	5. Chainstay	8. Handlebar	11. Seatstay
3. Down Tube	6. Fork	9. Seat Post	12. Bottom Bracket

3.4. Cockpit

1. Left Grip
2. Left Brake
3. Throttle
4. Handlebar
5. Motor Cutoff
6. Display
7. Shifter
8. Right Brake
9. Right Grip
10. Display Control

4.Bicycle Overview

4.1. Battery

⚠ Caution

The charger can become hot during charging. Avoid direct contact with the battery and charger during charging operation.
Failure to use a Nakto Bikes authorized charger may damage your battery in addition to voiding the warranty

1. On/off
7. Charge Port

Notice

When the battery has reached the end of its service life, it should be treated as hazardous waste material. It should not be disposed of in regular household trash. Ask your dealer for advice or consult your local laws for proper disposal of the battery.
Not all batteries are compatible with all bikes. Check with a Nakto dealer or with Nakto Bikes Customer Support for questions about compatibility.
Charging at temperatures below 32°F (0°C) or above 122°F (50°C) can cause the battery to charge
insufficiently and can be harmful to the life of the battery.

Info

If the battery is to be unused for a period longer than a month, the battery should be charged up to 80% even30 days. Neglecting to do so will either shorten the life-cycle of the battery or cause the battery to no longerfunction.

4.2 Charger

⚠ Caution

Your Nakto Cruiser 2 battery should be charged with the supplied Nakto battery charger. Contact Nakto Bikes customer support (909-281-9608, support@nakto.com) or your local Nakto dealer for the correct charger.

⚠ Warning

It is essential to use the correct and recommended charger for your battery. Failure to do so may result in overheating, battery failure, or even explosion.
DO NOT USE YOUR CHARGER IF IT:
Is damaged, non-functional, or exhibiting abnormal performance. A damaged charger can harm the battery and pose a fire hazard.
Has sustained a significant impact from a fall or crash, even if there are no visible signs of damage or wear.
Becomes excessively hot to the touch, emits an unusual odor, or shows any signs of overheating.

⚠ Caution

Always ensure that the charger connectors are properly aligned with the battery's charging ports beforeconnecting.

❗ Notice

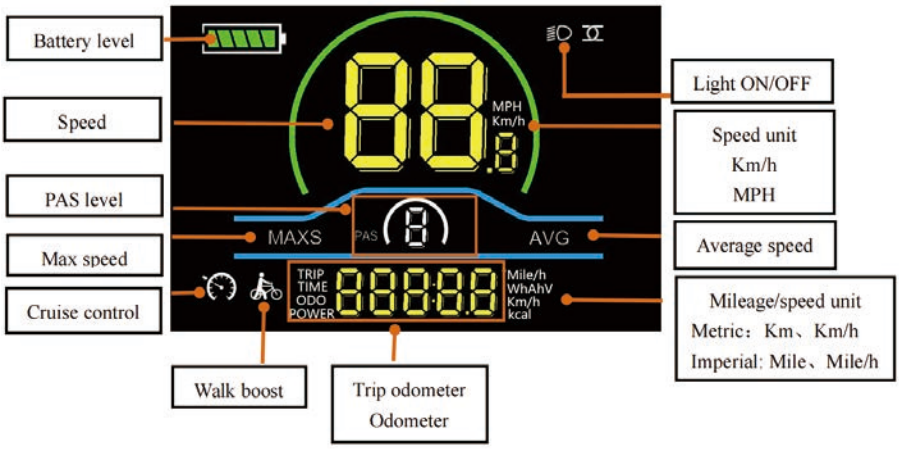
Technical s pecifications and other details can be found on the printed label on the charger.

4.3 Motor

The Cruiser 2.0 Bafang motor works in conjunction with the e-bike's PAS, controller, and rider to providepower assistance to the user. The motor is designed to offer assistance as the rider pedals and for shortperiods while the throttle is engaged. Extended throttle-only use can lead to excessive wearand tear on your bike and its components.

4.4. Display

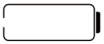
Smart LCD display for electric bicycle; Model: 61F.
Specification
· 36V/48V power supply
· Display rated current 15mA
· Display maximum current 30mA
· Shutdown leakage current <1uA
· Supplied current to the controller 50mA
· Operating temperature -20～60°C
· Storage temperature -30～70°C



Long press ⏻ to power on/off the display. When the display is off, it will not use the battery power and the leakage current is less than 1uA.
The display will automatically shut off if it is not used for more than 10 minutes.

Battery Power

The Battery level is shown as 5 bars. When the battery is full charged, all of the 5 bars lighten up. When the battery is fully depleted, the bar will begin to flash, warning the user to charge the battery as soon as possible.

SOC	Battery Level	Description
80% ≤SOC		Full Battery Level 5
60% ≤SOC < 80%		Level 4
40% ≤SOC < 60%		Level 3
20% ≤SOC < 40%		Level 2
10% ≤SOC < 20%		Level 1
5% ≤SOC < 10%		Level 0
0% ≤SOC < 5%		Level 0 and Icon Blink at 1Hz

Display Control

The display control will allow you to change the level of pedal assist, toggle through the display ‘sreadouts, turn the e-bike’ s lights on and off, and activate/deactivate walk mode.

· Pressing the “Plus” button will increase the pedal assist level. Pressing the “Minus” button will decrease the pedal assist level.

· To toggle through display functions, press the mode function button on the display control. This will toggle through Trip/Average, Odometer/Max.

· Press and hold the “Plus” button to activate the e-bike’ s integrated lights. The light icon on the display screen will show that the light system has been activated.

· Press and hold the “Minus” button to activate Walk-Mode, (speed must be below 3mph to activate).

· The display will show a “Walk-Mode” symbol upon activation. Release the “Minus” to exit Walk-Mode.

Trip, Odometer, & Range

When the display is powered on, it will show the Current Speed (Km/h) and trip Odometer (km)by default. Short press to switch between Trip Odometer (km), Odometer (km), Maximum Speed (km/h), and Average Speed (km/h)

Trip Odometer

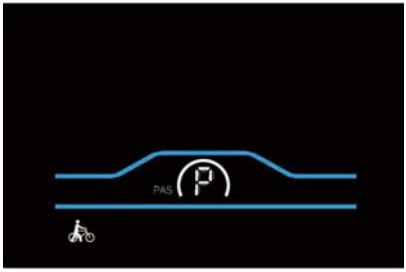
Odometer

Average Speed

Maximum Speed

Walk boost mode

Long press and hold−, the electric bicycle enters the walk boost mode. The electric bicycle will walk ata a fixed speed of 6km per hour and the display shows. Release the button to stop the power output immediately and restore to the state before walk boost.



Error code display

If there is a fault occurs in the eleetric system of the electrie bicyele, the display will automatically show an eror code.

When the error code appears on the display, please troubleshoot the problem in fime, the electrie bieyele wilnot be able to drive normally after the problem occurs.

Backlight luminance setting

01P refers to the backlight luminance setting option, The adjustable range is: 1-3, 01 for the minimum luminance, 02 for the standard luminance, 03 for the maximum luminance.

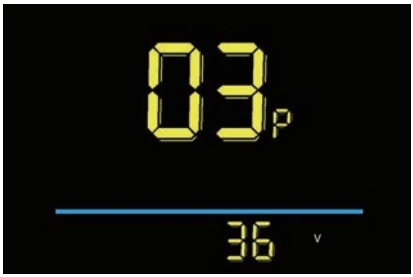
Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Metric and lmperial setting
02P is the metric and imperial setting option, 00 for metric and 01 for imperial.

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save theparameter setting and return to the personalized parameter setting interface.

Rated voltage setting
03P is the rated voltage setting option. The available rated voltage range is: 36V/48V

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.



Auto Sleep Time Setting

04P is the auto sleep time setting. To save the battery power and reach higher range, this dispaly will be turned off after it has not been used for a time. The adjustable range is: 1-60min, 00 means no auto shutdown. The factory default setting is10 minutes

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

PAS level setting

05P is the Pedal assist (PAS) level setting optibn. The available Pedal assist level settings are: 0~3, 1~3, 0~5, 1~5, The factory default setting 0~5.

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Wheel diameter setting

06P is the wheel diameter setting option. Unit: inch, accurace: 0.1, The adjustable wheel diameter range is: 0~50inch

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Number of speed sensor magnets setting

07P is the speed sensor magnet number setting option. The adjustable speed sensor magnet number range is:01~255pcs.

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parametel setting and return to the personalized parameter sefting interface.

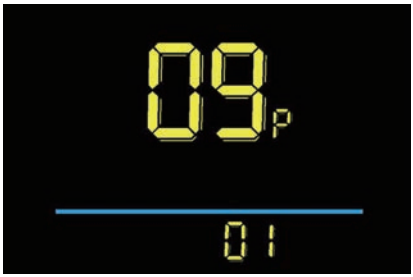
Speed limit setting

08P is the speed limit seting option. Change this value to set the maximum riding speed of the electric vehicle; The adjustable speed limit range is:0~100km/h,100 means no speed limit.

Press ⏻ to enter the parameter changing state.Press the +/- to select the parameter and press ⏻ to save the parammeter setting and return to the personalized parameter setting interface.

Start-up setting

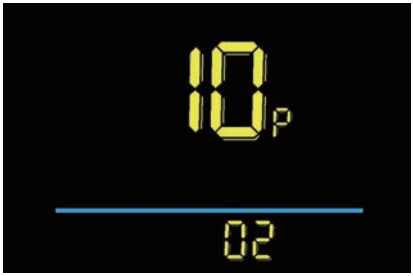
09P is the start-up setting option. The display can choose the following start modes: 00 -> zero start, 01-> non-zero start.



Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Drive mode setting

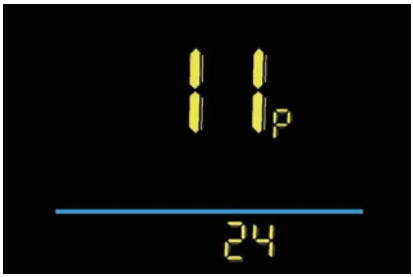
10P is the drive mode setting option. The available drive modes are: 00 - >Pedal assist only, 01 - >Electric only, 02 Both Pedal and assist electric.



Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Pedal assist sensitivity setting

11P is the pedal assist sensitivity setting option. The adjustable range is: 1~24.



Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

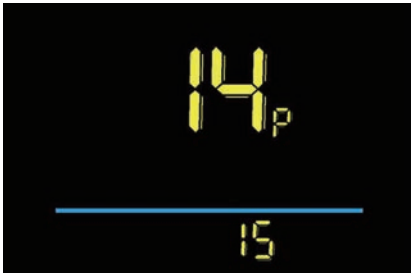
Pedal assist strength setting
12P is the Pedal assist strength setting option. The adjustable range is 0-5. 0 is the weakest strength and 5 is the strongest.

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Number of pedal assist sensor magnets setting
13P is the number of pedal assist sensor magnets setting option. The adjustable range: 5pcs, 8pcs,12pcs.

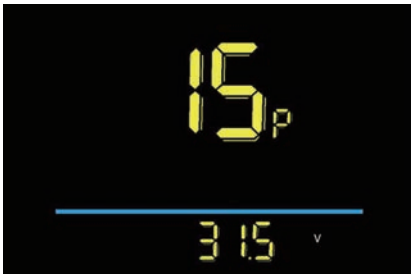
Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Controller Current Limit Setting
14P is the controller current limit setting option. The adjustable range is: 1-50Ah, The factory default setting is 12Ah.



Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Controller under voltage value setting
15P is the controller under voltage value setting option..



Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

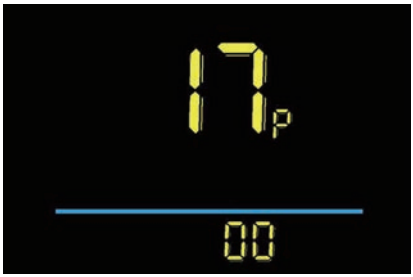
ODO reset operation

16P is the odometer reset setting option.Optional 00、01.

Press to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Cruise enable setting

17P is the cruise enable setting option. 00 means disabled cruise, 01 means enable cruise, The factory default 00.



Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Promotion function setting
18P is the promotion function setting option. 00 represents no 6km, 01 represents 6km. The factory default 00.

Press ⏻ to enter the parameter changing state. Press the +/- to select the parameter and press ⏻ to save the parameter setting and return to the personalized parameter setting interface.

Error Code Definition

YL-01、YL-02 Error codes：				
Error code	Definition		Error code	Definition
E001	Controller failure		E004	Throttle failure
E002	Communication failure		E005	Brake failure
E003	Hall failure		E006	Motor phase failure

Error Code Definition

Customized YL-02（LKLS）Error codes：		
Error code	Status significance	Processing method
Error05	Brake failure	Whether the brake is in position; Replace the brake handle
Error06	Battery undervoltage	Requires battey charging
Error07	Motor fault	Check whether the power line is loose
Error08	Throttle failure	Whether the handle is returned; Check the handle link. If it is normal, replace the handle
Error09	Controller failure	Check the controller hall connection
Error10	Communication reception failure	Check whether the instrument cable is connected properly
Error11	Communication transmission failure	Check whether the instrument cable is connected properly

5.Assembly

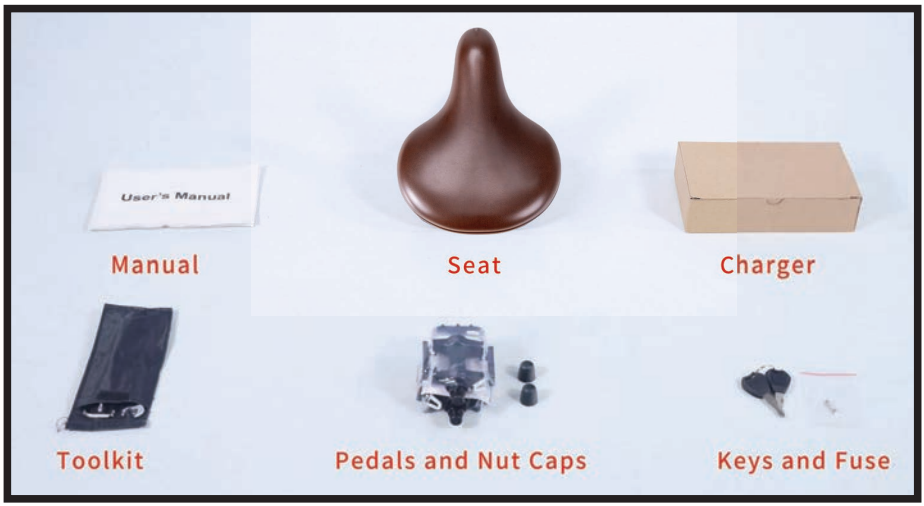
5.1. AssemblyI nstructions: Cruiser

Tools included: Screwdriver, Phillips & Slotted 2 in 1
Double open-end wrench, 13mm/15mm
Allen wrench, 4mm
Allen wrench, 5mm
Tools needed: Scissor Bike pump

Let' s start assembling your NAKTO Cruiser ebike!
(Please read this entire assembly manual before assembly as it will save you a lot of time!)

Step One: Unpack the ebike.

1.Pull the frame and all parts (charger, seat, toolkit, keys & fuse, nut caps, manual and pedals) out of cardboard box. Separate bike from foam padding. Cut off all zip ties with scissors while being extra careful as not to damage the paint or cut any wires or cables.**Notice:** Keep the spare fuse in a safe place.It is not used for assembly and will be used for the replacement if the original fuse were damaged.
Ensure all the following pieces are included with the Nakto Cruiser.

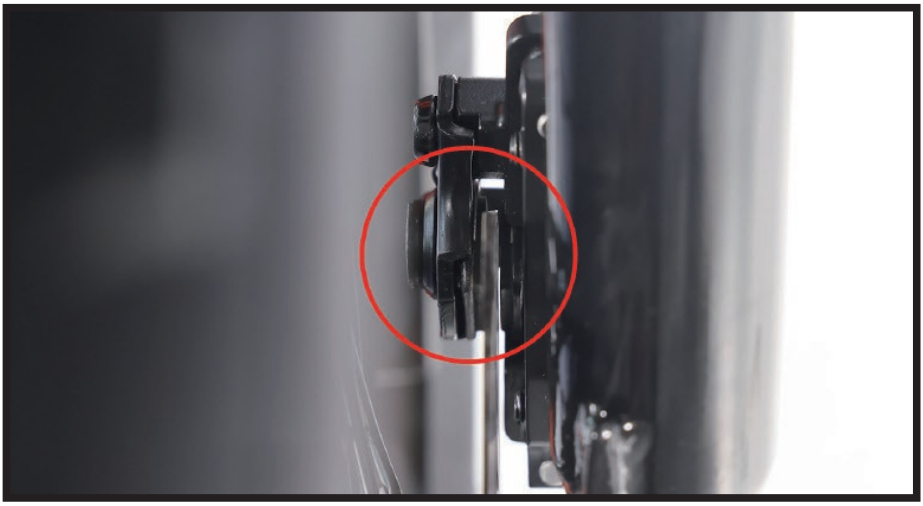


2.Now stand the bike upright. Place some foam padding under the front fork if placed on the ground or put it on bike assembly/repair stand if you have one. We want to keep your bike looking new!

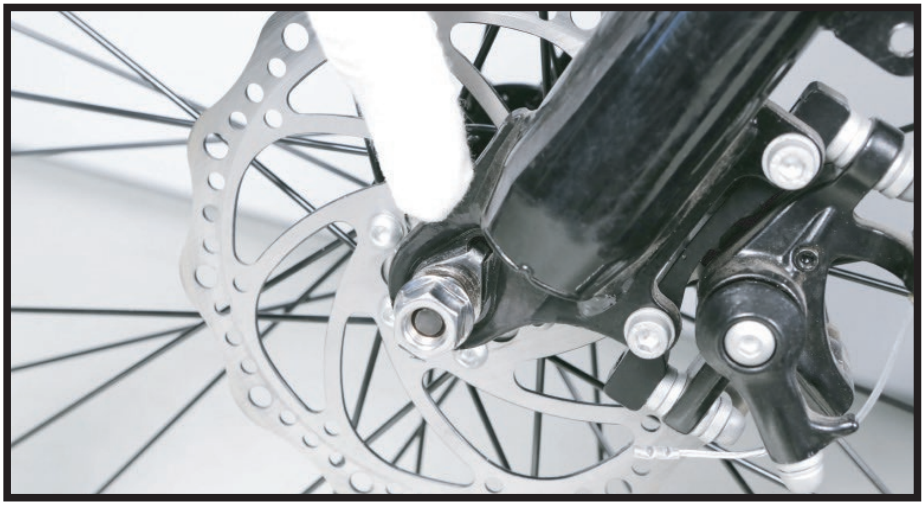
Step Two: Assemble the front wheel.

1.Loosen axle nuts on front wheel to make room for the front fork.

2.Lift the front of the bike and lower the fork onto the wheel axle. **Notice:** The brake rotor should go into the brake caliper in between the brake pads and the axle should enter the fork dropouts fully. The front rotor orientation should be to the left of the fork.



3.Line up the axle lock washers (These are the metal washer with a bent tab on one side) with the hole at each fork. **Notice:** These two special fork lock washers keep the wheel from falling off if the axle nuts ever loosen up! Tighten the axle nuts by hand.

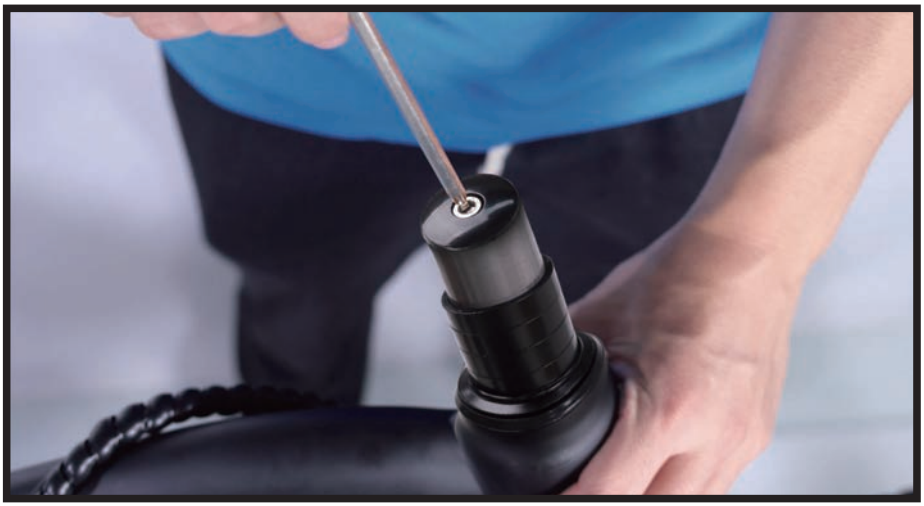


4.Tighten both axle nuts with the supplied double open-end wrench. **Notice:** Before doing the final tightening of the axle nuts, make sure the wheel is square and true with the forks.

5.Push the black plastic nut caps onto the axle nuts.

Step Three：Install the handlebar.

1.Loosen the bolt on the top of the stem with the supplied allen wrench. Remove the stem bolt and washer and set aside.



2.Remove and discard plastic spacer.

3.Install the handlebars onto the steer stem.

4.Pass the stem bolt through the washer mounting point and the stem mount, tighten with the supplied allen wrench part away.

5.Align the stem so the handlebar is perpendicular to the front wheel. Use the allen wrench to tighten the stem clamp bolts evenly (a half turn at a time alternating between the two bolts).

6.Tighten the bolt on the top of the stem with the supplied allen wrench.

7.Perform a twist test.
(1).Brace the front wheel between your legs.
(2).Switch hands so the opposite hands are pushing and pulling with about 20 pounds of force make sure the handlebar and front wheel are still properly aligned.
(3).Repeat the twist test pulling/pushing with the opposite hands

Step Four：Adjust the front brake system.

NOTICE: The The adjustment of the front brake system is not easy. The following steps are only a general guide to assist in the adjustment of the front brake system. Consult a certified, reputable bike mechanic to assist with it.

The end goal is a caliper that is parallel to the rotor, with even gap (2mm-3mm) on each side, and an adequate lever feel. Before adjusting the front brake system, make sure the axle nuts in Step One have been tightened.

1.Alignment procedure of the front brake

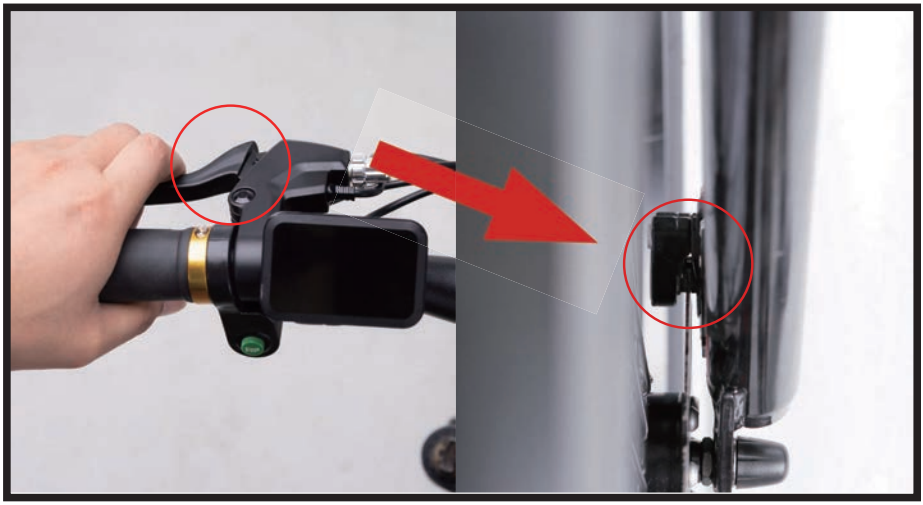
Notice: Usually, all bike's rear brake were adjusted in the good condition at factory. If not, alignment procedures are the same for front and rear brakes. The end goal here is to keep 2mm-3mm clearance on either side of the disc brake rotor so that the pads do not rub on the rotor when they are not applied.

On the front disc brake caliper there are two bolts mounting it to the front fork. Loosen the mounting bolts until the caliper body is able to freely move side to side. Then squeeze the brake lever (this centers the caliper body over the rotor) . While holding the lever, tighten the bolts. Release the brake lever, spin the wheel and check for pad rub. If there is no rubbing, the pads are aligned. Secure the mounting bolts to full torque and your work is complete.

If the pads are still rubbing, we need to do some fine-tuning. Loosen one bolt at a time and adjust until there is a gap on either side of the rotor. Once the pads are not rubbing, fully secure each mounting bolt and the process is complete.

To achieve proper gap, it is sometimes necessary to move pads by pad adjusters. Calipers are equipped with pad adjusters that move the brake pads in or out from the rotor. **Notice:** Turning the mounting bolt clockwise will move the pad closer to the rotor. Turning it counterclockwise will move it away from it. Adjust the mounting bolt with the supplied allen wrench.

2.Check and adjust the travel at the brake lever at the handlebars. Typically, the pads should feel like they are contacting the rotor at a minimum of 1/2 the lever travel. We will get it by adjusting the brake cable tension.



Loosen the bolt on the end of the disc brake caliper arm with the supplied allen wrench to adjust the brake cable tension. Once achieve the required tension mentioned above, fully secure the mounting bolt and the process is complete.

Step Five: Install the front fender and headlight.

1.Remove the fender and headlight mounting bolt from the fork arch with the supplied screwdriver and set aside.

2.Place the fender in position. Pass the front fender mounting point under the front fork arch from the back of the front tire.

3.Attach the headlight and fender to the fork arch. Pass the bolt through the headlight mount, the fender mounting point and the fork arch mounting point. Thread the locknut onto the bolt end and tighten with the supplied screwdriver. **Notice:** the fender bracket will go in between the arch bracket and headlight bracket.

4.Attach the fender mounting arms to the front fork. Remove the mounting bolts from the fork. Pass the bolt through the arm mount and fork mounting point. Ensure the fender is centered and tighten both the mounting bolts.

5.Center the headlight and adjust the angle slightly downwards to illuminate the road ahead and not blind oncoming traffic. Use the supplied Phillips-head screwdriver to loosen the headlight angle adjustment bolt, tilt the headlight to the optimal position, and then tighten in place securely.

Step Six: Install the seat.

1.Open the quick release lever by hinging it open fully.

2.Insert seat post into seat tube. Adjust the seat post up or down to a comfortable height, while ensuring the seat post is inserted into the frame past the minimum insertion point.

3.Close the quick release lever to secure the seat post and check that it cannot move. If needed, use the thumb nut to add tension to the clamp so there is some resistance when the lever is in line with the clamp bolt.

Step Seven: Install the pedals.

1. Locate the pedal with an “R” stamped into the end of the pedal axle, which indicate it is the right pedal. The right pedal goes on the crank on the right side of the bike. The remaining pedal with an “L” stamped into the end of the axle, is the left pedal. The left pedal goes on the crank on the left side of the bike.

2. The right pedals threaded to tighten by turning clockwise. The left pedals reverse-threaded and tightens counterclockwise. Carefully thread the pedal onto the crank by hand slowly.
3.Further tighten with the supplied double open-end wrench. Do not cross thread or damage the threads.

Step Eight：Inflate the tires.
Check that the tire beads and tires are evenly seated around the rims. Use a pump with a Schrader valve and pressure gauge to inflate each tire to the recommended pressure indicated on the tire sidewall. Do not overinflate or underinflate tires.

Step Nine: Charge the battery.
Operate the electrical system when the battery has been adequately charged and the battery is secured to the frame mount.
Your Nakto bike comes partially charged. We recommend you Connect the charger input plug (110/220-volt plug) to the power outlet for 3 to 4 hours. The charger light will go from red to green when it is fully charged.
Notice: Plug the charger into the battery's charging port before connect the charger input plug (110/220-volt) to the power outlet.

Step Ten: Ensure all hardware is tightened properly following recommended torque values.

Recommended Torque Values:

Hardware Location	Hardware	Torque Required (Nm)
Front Dropout Area	Front Axle Nuts	40
Handlebar Area	Handlebar Stem Clamp Bolts	10

Hardware Location	Hardware	Torque Required (Nm)
Handlebar Area	Stem Bolts	10
Handlebar Area	Brake Lever Clamp Bolt	6
Handlebar Area	Shifter Clamp Screw	6
Handlebar Area	Angle Adjustment Bolt	18
Handlebar Area	LCD Display Clamp Bolts	6
Brakes	Caliper Adapter to Frame	6-8
Brakes	Caliper to Adapter	6-8
Brakes	Brake Cable to Caliper Clamp	6-8
Brakes	Disc Brake Rotor to Hub	7
Fenders	All Fender Mounting Bolts and Hardware	6
Headlight	Headlight Angle Adjustment Bolt	6
Seatpost Area	Seat Angle Adjustment Bolt	20
Rear Dropout Area	Rear Axle Nuts	40
Rear Dropout Area	Rear Torque Arm Bolt	5
Rear Dropout Area	Derailleur Hanger Mounting Bolt	6
Rear Dropout Area	Derailleur Mounting Bolt	10
Rear Dropout Area	Derailleur Cable Pinch Bolt	6-8
Rear Dropout Area	Kickstand Mounting Bolts	8
Bottom Bracket and Crank Area	Bottom Bracket and Lockring	60
Bottom Bracket and Crank Area	Crank Arm Bolt into Bottom Bracket Spindle	35
Bottom Bracket and Crank Area	Pedal into Crank Arm	35
Bottom Bracket and Crank Area	Chainring Bolts	10
Bottom Bracket and Crank Area	Controller Mounting Bolts	6

Step Eleven: Register warranty card with us ASAP.

Notice: Keep proof of purchase in a safe place. Keep packing and box for at least two weeks from the date of purchase. (As we do not provide a box for returns if needed.)

Have fun and be safe!

Quick Start Guide

This ebike is equipped with two ways for a rider to use power assistance from the motor to propel the bike forward:

The pedal assist system (PAS) ——The rider can engage the pedal assist system (PAS) while pedaling, and it will call up assistance from the motor to help propel the bike forward.

The twist throttle——The throttle is located on the right side of the handlebar. The rider can use it with a twist of the throttle grip to propel the bike forward without pedaling.

Warning: The throttle is active whenever the bike is turned on. Do not use the throttle unless you are on the bike.

Start-Up Procedure

1.**Turn on the battery with the key**. Insert the key and turn clockwise to position (1).

Battery Key Positions

Key Position / Icon	Description
1	ON , Locked to the frame
2	OFF, Locked to the frame
3	OFF, Unlocked (ready for removal from the frame)

2.**Sit on the bike.**
3.**Turn on the electrical system**——Press the "⏻" button on the left side of the handlebar for approximately 3 seconds until power is delivered to the LCD Display.

4.**Select the desired level of pedal assistance**——Select the level from 0-5 by pressing “＋” and “－” . Level 1 corresponds to the lowest level of pedal assistance, and level 5 corresponds to the highest level of pedal assistance. Level 0 indicates pedal assistance is inactive. Start in PAS level 0 or 1 and adjust from there.

5.**Begin riding carefully**——Hold handlebars and start pedaling on a flat surface, in a low gear (1 or 2), most riders should be able to begin pedaling the bike with pedal assist level 0 or 1. You may also use the throttle to accelerate and maintain your desired speed.

6.**The throttle** is used by slowly and carefully rotating the throttle backward toward the rider. The more you twist, the more powerfully the throttle will propel the bike forward. The throttle is active whenever the bike is turned on. Do not use the throttle unless you are on the bike.

7.**Brake**——Brake the bike by squeezing the brake lever (**Notice:** as a safety feature applying either front or rear brake will disengage the motor.)
8.**Turn off the electrical system** by pressing and holding the "⏻" button approximately 3 seconds again before getting off the bike.

⚠ Warning

We recommend th at you al ways wear p rotective gear when cycling such as a helm et, gloves, elb ow pads and goggles.
When riding, ob ey the same road laws as all other road vehicles as appli - cable by law in your a rea.
Best to cha rge the battery during the day when someone is a round.
Overnight cha rging is n ot recommended.
Follow these steps for cha rging your bi ke: Plug the cha rger in to the battery's cha rging port be fore conne ct the cha rger input plug (110/220 -volt) to the p ower outl et.
Before riding al ways carry out a th rough sa fety check each time. We highly recommend th at you read the in struction manual be fore your very first ride.
It is the use r' s responsibility to ensu re a p otential passen ger on the Na kto ebli ke is adequ ately experien ced and h ealthy enough to ride sa fely as a passen ger. Serious inju ry or d eath can o ccur if passen gers a re in experi - enced or in poor h ealth such th at it im pacts their ability to ride as passen - gers sa fely.
Car rying baggage may redu ce the cont rol of your ebi ke.
Take extra care while riding in wet and sandy sur face including dec reasing speed and inc reasing b raking di stan ces.

❗ Notice

For best results, it is recommended that all nuts/bolts receive one last check after your short test ride.

⚠ Warning

Incorrect assembly, maintenance, or use of your Cruiser 2.0 can cause component or performance failure, loss of control, serious injury, or death. Even if you’ re an experienced bike rider, you must read and understand the entire manual and any documentation provided for subcomponents or accessories before riding. If you are not sure you have the experience, skills, and tools to correctly perform all assembly steps in the manual and the assembly video, consult a certified and reputable bike mechanic.

To reduce the risk of injury, close supervision is necessary when the product is used near children.

5.2. Torque Setting

⚠ Warning

Correct tightening force on fasteners - nuts, bolts, screws - on your bicycle is important. With too little force, the fastener may not hold securely. With too much force, the fastener can strip threads, stretch, deform, or break. Either way, incorrect tightening force can result in component failure, which can result in the operator’ s serious injury.

Because manufacturers use a wide variety of fastener sizes and shapes made in a variety of materials, often differing by model and component, the correct tightening force or torque cannot be generalized. To make sure that the many fasteners on your bicycle are correctly tightened, refer to the torque specifications in this section.

Correctly tightening a fastener requires a calibrated torque wrench. A professional bicycle mechanic with a torque wrench should torque the fasteners on your bicycle. If you choose to work on your own bicycle, you must use a torque wrench and the correct tightening torque specifications provided in this section. If you need to make an adjustment at home or in the field, we urge you to exercise care, and to have the fasteners you worked on checked by your dealer as soon as possible.

Recommend Torque Values:

Hardware Location	Hardware	Torque Required (Nm)
Front Dropout Area	Front Axle Nuts	40
Handlebar Area	Handlebar Stem Clamp Bolts	10
Handlebar Area	Stem Bolts	10
Handlebar Area	Brake Lever Clamp Bolt	6
Handlebar Area	Shifter Clamp Screw	6
Handlebar Area	Angle Adjustment Bolt	18
Handlebar Area	LCD Display Clamp Bolts	6
Brakes	Caliper Adapter to Frame	6-8
Brakes	Caliper to Adapter	6-8
Brakes	Brake Cable to Caliper Clamp	6-8
Brakes	Disc Brake Rotor to Hub	7
Fenders	All Fender Mounting Bolts and Hardware	6
Headlight	Headlight Angle Adjustment Bolt	6
Seat post Area	Seat Angle Adjustment Bolt	20
Rear Dropout Area	Rear Axle Nuts	40
Rear Dropout Area	Rear Torque Arm Bolt	5
Rear Dropout Area	Derailleur Hanger Mounting Bolt	6
Rear Dropout Area	Derailleur Mounting Bolt	10
Rear Dropout Area	Derailleur Cable Pinch Bolt	6-8
Rear Dropout Area	Kickstand Mounting Bolts	8
Bottom Bracket and Crank Area	Bottom Bracket and Crank Area Lock-ring	60
Bottom Bracket and Crank Area	Crank Arm Bolt into Bottom Bracket Spindle	35
Bottom Bracket and Crank Area	Pedal into Crank Arm	35
Bottom Bracket and Crank Area	Chain-ring Bolts	10
Bottom Bracket and Crank Area	Controller Mounting Bolts	6

5.3. Battery Installation

Battery Removal

Insert the key provided with the Cruiser 2.0 into the lock core. The lock core will be located above the battery on the non-drivetrain side. After insertion, turn the key to the unlock position to disengage the locking mechanism. While holding the key in the unlock position, grab the top of the battery and push the battery toward the non-drivetrain side to remove the battery.

Battery Installation

Insert the key into the lock core. Place the bottom of the battery into the bottom battery seat. Turn the key to the unlock position, slide the top of the battery into the top battery seat, return the key to the lock position and remove the key from the lock core.

❶ Notice

Charging the Battery

· Your Nakto Cruiser 2.0 battery may be charged whether it is or is not attached to the e-bike.

· Locate the charge port/charge port cover. The charge port is on the bottom left of the battery.

· Pull the rubber charge port cover to the side.

· Plug the approved charger into a power source.

· Using the charger that was provided with the Premium III, align the pins in the battery/charger connector with the battery’ s charge port. Do not force the charger pins into the charge port. The pins should smoothly slide into the port.

· The indicator light on the charger will light up red when the battery is charging.

· The battery has reached full charge when the charger’ s indicator light turns to green.

· Disconnect the battery from the charger when the battery has reached a full charge.

· Unplug the charger from the power source when the charge is no longer in use.

If your bicycle sustains an impact:
Should you be injured in the impact, check yourself for injuries and take the proper actions needed to attend to any injuries. Seek medical help if necessary. After any crash, take your bike to your dealer for a thorough damage inspection.

⚠ Warning

A crash or other impact can put extraordinary stress on bicycle components, causing them to fatigue prematurely. Components suffering from stress fatigue can fail suddenly and catastrophically, causing loss of control, serious injury, or death.

6.Storage

6.1. Battery Storage

Store the bike in a location where it is protected from extreme elements like snow, rain, or direct and unfiltered sunlight. Snow, rain, road salts, and ice inhibiting chemicals can cause parts to degrade and corrode. The UV rays from the sun can fade the paint and can cause rubber and plastic parts to dry, become porous, and/or crack. Apply sunscreen and wear a hat when in direct sunlight.

6.2. Bike Storage

Separate the battery and the e-bike. The e-bike should be stored indoors, in a covered environment. The temperature range for the e-bike, separated from the battery, can be between 35°-70°F (2°-21°C). The battery should be stored indoors at room temperature.

If your battery is unused for several months it is possible that it may fall into sleep mode. It is recommended to check the charge at least once a month while not in use. It is recommended to maintain a charge between 40-80% while in storage.

7.Maintenance

⚠ Warning

Though this manual is to be used as a reference point, it is impossible for this manual to provide all the information required to properly repair and maintain your bicycle. To help minimize the chances of injury, It is critical that you have any repair or maintenance which is not specifically described in this manual

performed by your dealer. Equally important is that your individual maintenance requirements will be determined by everything from your riding style to geographic location. Consult your dealer for help in determining your maintenance requirements.

⚠ Warning

Many bicycle service and repair tasks require special knowledge and tools. Do not begin any adjustments or service on your bicycle until you have learned from your dealer how to properly complete them. Improper adjustments or service may result in damage to the bicycle or in failure which can cause serious injury or death.

Keeping a regular maintenance and cleaning schedule will optimize the performance and safety of your e-bike. Follow the instructions in this manual as a foundation for how to maintain your e-bike. Consult your Nakto dealer for further advice and recommendations on maintenance, cleaning, tools and materials to

keep your Nakto Bike operating at its fullest.

Routinely check the condition of your bicycle before every ride. Make sure nothing is loose. Lift the front wheel two or three inches off the ground, then allow it to bounce on the ground; listen for anything that

sounds loose. Do a visual and tactile inspection of the whole bike. Secure any loose parts or accessories. If in doubt, seek the assistance of a qualified bicycle mechanic.

After every 10 to 20 hours of riding:

· Check the brake pads for wear. It will be time to replace the brake pads when pad material measures less than 1mm thick.

· Inspect cables, housing, and electrical wires for rust, kinks or fraying. Replace any damaged parts.

· Check tires for excess wear, cuts or damage. Replace tires if necessary.

· Check the wheel rims for dents, scratches and material bending. Consult your dealer if any damage is found. Ensure that all parts and accessories are secured. Tighten any parts and accessories that are not properly secured.

· Check the frame, particularly in the area around all tube joints, the handlebars, the stem, and the seat post for any deep scratches, cracks or discolor

ation. These are signs of stress-caused fatigue and indicate that a part is at the end of its useful life and needs to be replaced.

· Check spoke tension.

⚠ Warning

Different materials and metals wear or fatigue from stress at different rates and have different life cycles. If a component’ s life cycle is exceeded, the component can suddenly and catastrophically fail, causing serious injury or death to the rider. Scratches, cracks, fraying and discoloration are signs of stress-caused fatigue and indicate that a part is at the end of its useful life and needs to be replaced. While the materials and work- manship of your bicycle or of individual components may be covered by a warranty for a specified period of time by the manufacturer, this is no guarantee that the product will last the term of the warranty. Product life is often related to the kind of riding you do and the treatment to which you subject the bicycle. The bicycle’ s warranty is not meant to suggest that the bicycle cannot be broken or will last forever.
It only means that the bicycle is covered subject to the terms or the warranty. Please be sure to read the sections covering the intended use of your bicycle.

⚠ Warning

Once a crack develops, it can and will continue to grow if the e-bike is continued to be used. Any crack that is discovered is potentially dangerous and will only become more dangerous. Do not continue to use the ebikes once a crack is discovered.

⚠ Warning

Do not ride an e-bike with any crack, bulge or dent, even a small one. Riding a cracked frame, fork, or component could lead to complete failure, with risk of serious injury or death.
Ensure that the brakes and their system components are free from damage, properly secured, and working correctly. When brakes are fully squeezed, both front and rear brake levers should not be touching the handle bar. Take your

bike to a certified and reputable bike mechanic to have the brakes repaired if you find a
problem.
If the chain is not shifting smoothly and easily from gear to gear, the derailleur is out of adjustment. Consult your dealer.
Tires and Wheels:
· Ensure that both front and rear tires are inflated to the correct tire pressure. The correct tire pressure is embedded on the sidewalls of the tires.
· Inspect both tires for cuts or damage to the sidewalls and treadings. Replace damaged tires before riding the bike.
· Spin each wheel and watch for side-to-side wobble. If a wheel wobbles side to side even slightly, take the bike to a qualified bike shop to have the wheel trued.

⚠ Caution

Wheel truing is a skill which requires special tools and experience. Do not attempt to true a wheel unless you have the knowledge, experience, and tools needed to do the job correctly.

Brakes: Check both the front and rear brakes for proper operation.
· Squeeze the brake levers. The brakes should begin to engage within an inch of brake lever movement.
· The brake levers should apply full braking force without the levers having to touch the handlebar.
· Do not ride the bike if the brakes are not properly adjusted and in proper working condition.

7.1. Cleanings

With a mixture of water and neutral cleaning solution, use a soft cloth or brush to wipe off dirt, dust, and grit from the exposed surfaces. Rinse soapy residue off with water. Wipe dry with a clean soft cloth.

⚠ Caution

Do not use high-pressure water or air hoses for cleaning. It can force water and other contaminants into greased bearings and/or sealed electrical components, which may cause failure, malfunctions, or defects.

Do not use an excessive amount of water when washing the e-bike. Water may reach internal electrical components, possibly causing components to fail or other problems.

❗ Notice

Do not use cleaning solutions that are non-neutral. Using a solution that is too strong may cause necessary
greases and lubricants or other essential materials to degrade, deteriorate, distort, or irreversibly transform.

7.2. Drive train

After every long or hard ride; if the bike has been exposed to water or grit; or at least every 100 miles: Clean the bike and lightly lubricate the chain’ s rollers with a good quality bicycle chain lubricant. Wipe off excess lubricant with a lint-free cloth. Lubrication is a function of climate. Talk to your dealer about the best lubricants and the recommended lubrication frequency for your locality.

8.Legal

8.1. Warranty

At Nakto Bikes we believe that the safety and enjoyment of the rider is the top priority. To fully maximize the experience, we believe that the rider should only focus on the ride and the journey, without worry or concern about the quality and durability of their e-bike. Nakto Bikes offers a worry-relief warranty on all of our bikes, parts, and accessories.

Nakto Bikes - One Year Limited Warranty

All new NAKTO Electric Bicycles and essential components sold by an authorized NAKTO retailer are warranted to the original purchaser against manufacturing defects in materials or workmanship for a period of one year from the date of purchase.

· For all warranty claims please contact support@nakto.com

· Warranty only applies to the original owner (non-transferable).

Original NAKTO parts and components covered by warranty can get one free replacement **within 1-year limited warranty period** and don’ t need shipping cost, but components that are not covered by warranty will require shipping costs and fees for themselves.

Warranty Period

The warranty is registered automatically when the initial purchaser orders and then receive the product from our online shop and applies to the initial purchaser only. The Nation Wide Limited Warranty applies for a period of **ONE YEAR** upon the original date of purchase. Proof of your purchase date (e.g. order confirmation) is required for valid warranty coverage.

Original NAKTO parts and components are covered by a **1-year limited warranty**. Warranty can be used for an exchange of a component only once within the warranty period and with no shipping costs. If the components get the SECOND replacement, you need to pay for the shipping cost and the components themselves.

Limited Warranty Covers

Subjected to the terms, conditions, and limitations herein, NAKTO electric bikes warrant to the original retail purchaser of the bike that the **motor, battery, controller, throttle, brake, and PAS system** of the bike will be free from detection in material and workmanship under normal use and service for one year from the date of delivery. The Limited Warranty exists for the above-mentioned defects that were already present at the time of delivery of the bike and cover the motor, battery, and controller. A rechargeable battery will experience a decrease in capacity over time as it is charged and discharged. The battery warranty does not include damage from power surges, use of an improper charger, improper maintenance, or such other misuse or normal wear.

Please kindly noted that NAKTO Bikes are not designed for extreme use including contest and water wading.

Warranty Limitations

The warranty only applies to the repair or replacement of defective components and does not cover labor costs or financial losses due to non-standard usage. NAKTO is not responsible for any damages, including bodily harm or property damage, resulting from the use of the product. The warranty also does not apply to extreme uses, such as competitions or water wading, which the bikes are not designed for.

This warranty gives you specific legal rights, and you may have other rights depending on your state. To file a warranty request, complete the form on the "Warranty Form" page at nakto.com, ensuring all fields are filled in and photos of the issue are included.

This warranty does not cover:

·Minor imperfections and/or deviations from design specifications that do not materially alter the functionality of the Product;

·Cosmetic damage to the outer surface/finishing and external parts of the Product, including without limitation cracks, dents, or scratches on the Product’ s exterior;

· Deterioration of the Product due to normal wear and tear;
· Any parts that naturally and are expected to suffer wear and tear, including without limitation, tires, brake pads, calipers, handlebar grips, crankset, chain, saddles, pedals, dropouts, and bearings;
· Water damage and batteries that have been left to self-discharge for an extended period of time are not covered by the terms of the warranty.
· Defect or damage arising from any of the following:
a) Improper assembly;
b) Improper follow-up maintenance;
c) Installation of components, parts, or accessories not originally intended for or compatible with the product as sold;
d) Damage or failure due to accident, falls, misuse, abuse, or neglect;
e) Alterations of the product or the specifications (e.g. paintwork, changes of the geometry/proportions, inadmissible add-on parts etc.); or
f) Repair or maintenance by unauthorized dealer or workshop
g) Exceeding the weight limits or speed limits
h) Attempting to alter the programming of the electrical system, including, but not limited to increasing the speed limiter beyond 32km/hr.
i) Labor to repair or replace the covered component(s) unless otherwise specified in the warranty terms chart. This warranty is limited to parts replacement only.

Customer Obligations to Maintain Warranty
Do not alter the shape or integrity of frame and/or rack carrier tubing's.

Determining whether damage or defect to an e-bike or covered component is protected by this warranty shall be in the sole discretion of Nakto Bikes.

Warranty Claim Process
To file a warranty claim, contact us at support@nakto.com **with proof of purchase, order number, email address, shipping information, and photos of the issue.** If a defect is found during the warranty period, NAKTO will repair or replace the part at its discretion. However, if repairs are conducted by unauthorized parties, the warranty will be void.

Warranty Register:

Warranty register:
https://nakto.com/pages/warranty-service

Or scan the QR code to directly enter the warranty form.

8.2. Exclusions

At Nakto Bikes we believe that the rider and enjoying the ride is the top priority. To fully maximize the ride, we believe that the rider should only focus on the ride and the journey, without worry or concern about the quality and durability of their e-bike. Nakto Bikes offers a worry-relief warranty on all of our bikes, parts, and accessories.

· Modifications from the original condition
· Use of the e-bike in abnormal, commercial and/or competitions or for other purposes other than for which the e-bike was designed.
· Damage or neglect caused by failing to follow the user manual.
· Paint finish and decal damage resulting from taking part in competitions, jumping, downhill and/or training for such activities or events or as a result of exposing the bike to, or riding the bike in, severe conditions or climates.

8.3. Disclaimer

Do not tamper with your bicycle. Tampering is removing or replacing any original equipment or modifying your bicycle in any way that may change its design and/or operation. Such changes may seriously impair the handling, stability and other aspects of the bicycle, making it unsafe to ride.

Tampering can void the warranty and render your bike not in compliance with the applicable laws and regulations. To ensure safety, quality, and reliability, use only original parts or Nakto Bikes authorized replacements for repair and replacement.

Nakto Bikes is not responsible for any direct, incidental, or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses due to tampering.

8.4. Prop.65

⚠ Warning

This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

For more information go to: https://www.p65warnings.ca.gov
Email: support@nakto.com
Phone: 909-281-9608
Nakto Bikes Help Center

nakto

Stay Connected

@naktobike

@nakto_ebikes

@NaktoE

@nakto

@NAKTOEBIKE

@NAKTOEbikes

nakto

Assembly Guide

(step by step video)

or search "Naktor Club" on Facebook

Thank you!

Trek Power Inc
Toll Free: (714) 603-7182
E-mail: support@nakto.com
Website: www.nakto.com
Adress:1683 Sierra Madre,Placentia,CA 92870