

Owner's Manual

Congratulations to your new Blix bike!

We're sure you will enjoy your cycling experience in a completely new way with the purchase of your new Blix bike. Before your first ride, read this manual thoroughly for operating guidelines, maintenance instructions, and other useful information to ensure that you get the most out of your Blix.

Important Information

About this manual

This manual explains how to operate and ride your Blix bike. While we do not claim nor intend to include instructions and tips for every combination of rider and bike, rider and environment, and bike and environment, this manual is intended to explain how to operate a Blix bike. This manual includes instructions for performing basic maintenance tasks that will benefit the performance and lifespan of your bike. Some maintenance should only be performed by your dealer, and you can refer to this manual to check which maintenance needs to be performed by a Blix dealer. By following the instructions in this manual, you and your Blix bike should have many miles together.

Activate your warranty

To activate the limited warranty of your bike, register online at www.blixbike.com. You will be asked to identify the frame number of your bike. It is important that you keep the frame number for your records as it is specific to only your bike. The frame number is located on the front of the frame head tube.



Your Frame number:	<input type="text"/>
My bicycle model:	_____
My dealer:	_____

Assembly of your new bicycle

The first adjustments and final assembly of your bicycle require special handling and skills, and this should only be done by a Blix authorized dealer or professional bicycle shop. Your bike will be ready to ride upon assembly, but should you have any questions about the bike before operating it, please contact your authorized dealer.

Blix models

Each model's component setup is customized for different customer needs and tastes. However, all Blix bikes are equipped with:

- Rust free screws and nuts
- Portable lithium-ion battery
- Battery charger
- LCD display
- LED light

If you have questions

There are different models of Blix bicycles, and this manual may contain information and illustrations that don't apply to your bicycle. If you have any questions after reading this manual, we recommend to contact your dealer. If you still have any questions we encourage you to contact our customer service department:

support@blixbike.com
Call: 855-655-BLIX (855-655-2549)
www.blixbike.com

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Before Riding

Safety Regulations

- Carefully read this manual before your first bike ride.

**Recommended total max weight
is 220 lbs (rider and cargo)**

- Before each ride, check your bike to ensure that there are no visible damaged components.
- Unfastened or damage parts should be secured appropriately or replaced.
- Your Blix bike is intended for recreation and transportation. It is solely designed for cycling on paved roads and bike paths.
- You should not make any alterations or changes to your Blix bike. This may affect the ride ability and safety of the bike.

Battery Safety

- For specified safety regulations for charging the battery, see section “The Battery – Charging the Battery”.

**Keep the battery out of the
reach of children.**

- Only use the charger provided with your Blix bike.
- Use the charger only in a dry indoor environment.

**Do not connect the charger with
wet hands.**

- Do not charge the battery under direct sunlight.
- Do not charge the charger during lightning storms.
- Charge the battery where there is plenty of ventilation.
- Discontinue charging if you hear unusual noises or notice leakage from the battery.
- Do not disassemble the battery - this will void your warranty.
- Do not heat or hit the battery, this will damage your battery and possibly cause injury.
- Do not immerse the battery in water or other liquid.
- Disconnect the charger from the electrical outlet when not charging.

Using a Blix bike

A Blix bike is a fast, smart and efficient solution for personal transportation. If you don't want to use the electrical assist system, your Blix bike will function as a normal traditional bicycle. The motor rotates without noticeable friction when you pedal. You're in control of the level of assistance you want during your ride.

Make sure the bike fits you

Your dealer should fit you with the proper size of bicycle. There should be at least 1" (25 mm) clearance between the top tube and the rider when standing over the bicycle. The seat may be adjusted to offer the best comfort and performance.

Know how the bike performs

A Blix bike is an electric bicycle and functions differently than a non-electric traditional bicycle. It has an electric motor located where the crank is or, depending on the model, rear or front wheel-hub that can give you extra assistance and speed when riding the bike. **It is important that you read this manual carefully and know how to operate the bicycle and its functions before you ride the bike for the first time.**

Unique Components





1
Battery with charger
connector

2
Seat post with tilting function



3
Throttle



4
Display

5
Brake levers with automatic
power cut-off switch



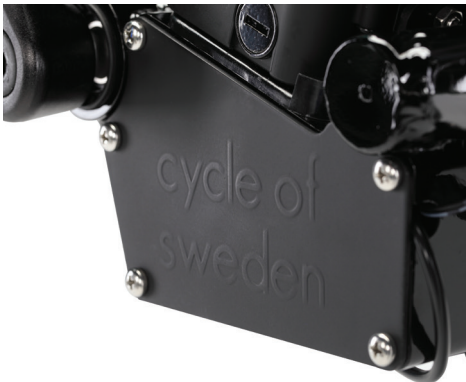
6
LED-lighting



7
Hub-motor



8
Crank with pedaling
sensor



9
Control-box compartment
under battery

Check Your Bike

There are several simple guidelines that we recommend in order to keep your Blix bike in a good working condition. Here are a few steps for a long and trouble-free relationship with your new commuter friend.

Keep it clean

We encourage you to keep your Blix bike nice and clean. A clean bike lasts longer and is more enjoyable and safer to ride. Use a damp cloth to wipe off the bike. Do not use high-pressure water systems, this can damage parts of the bike.

Tighten the screws

Regularly check that screws and nuts are securely attached. Unfastened parts may cause the bike to not function properly and can cause accidents.

Brake

Make sure to maintain and service the brake system. Well functioning brakes are essential to operate the bike in a safe manner.

Lubricate

Keep the chain well lubricated with bicycle chain lube. Make sure to wipe off the chain with a cloth before and after lubrication in order to prevent accumulation of dirt and any excess oil.

Charge

Charge the battery regularly. Do not allow your battery to remain in a discharged state for a long period of time. Doing so will negatively affect the life of the battery.

Pump

Keep the bicycle tires sufficiently inflated. A properly inflated tire has lower rolling resistance and lasts longer. The recommended tire pressure is found on the side of the tire. Maintain the tires at this recommended pressure.

Safe Riding



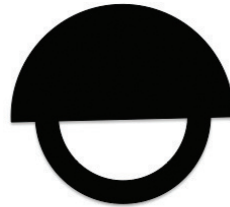
Lights and reflectors

In order to improve the visibility of you and your bike, LED lights are powered by the battery and can be switched on and off from the display. A Blix bike is also equipped with reflectors. Remember to keep the lights and reflectors clean for best visibility.

Use your helmet

Remember to use your helmet.

Even if you feel confident on the road, you will share the road with others and accidents can happen.



Be in control

Make sure you can control your riding, and understand how the electric assist system functions.

Ask your dealer to instruct you and read this manual before riding the first time.

Let's Go! Quick Guide



Step 1

Turn the battery on by pressing the ON/OFF-button on the battery.

Step 2

Push and hold the ON/OFF-button on top of the display on the handlebar for 2-3 seconds. This will activate the pedal assist system (PAS).



Ready! - Ride your Blix bike in a similar manner as on a traditional non-electric bicycle. The electric motor will automatically provide assistance based on your pedaling speed. Don't forget your helmet!

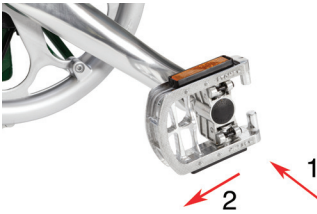
Foldable Model - Quick Guide



This guide shows how to fold a foldable Blix bike. Contact your dealer if you need further instructions.

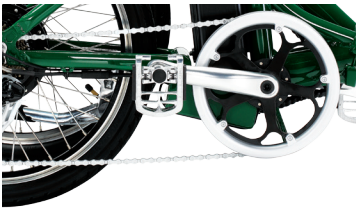
Step 1 - Handlebar

1) Twist the knob counter clockwise to loosen the handlebar and fold it down.



Step 2 - Pedals

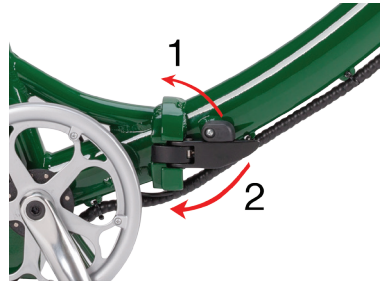
1) Fold the pedal by pushing it in and to the side (2).



3) Turn the right pedal-arm so that it's pointing towards the rear wheel.

Step 3 - Frame

1) Turn the top locking mechanism upwards.



2) Open the latch and fold the frame towards yourself.



Align the two magnets in both wheel hubs to keep the bike together when folded.



You can let the bike stand on its own on the ground. Make sure it rests on the support stand located directly under the bike, and not on the crank or the pedals.

Tips!

Get a Blix carrying bag for smart and convenient transportation of your folded bike!



The Display - Introduction



Every Blix bike with a hub-motor uses the SpinTech™ pedal assist system. The LCD display will show you riding information and you can control the level of assistance you want when pedaling. The display is water resistant and you can ride your Blix bike in rain with the pedal assist on.



To minimize risk of water damage, wipe off the display after it has been in contact with rain or water.

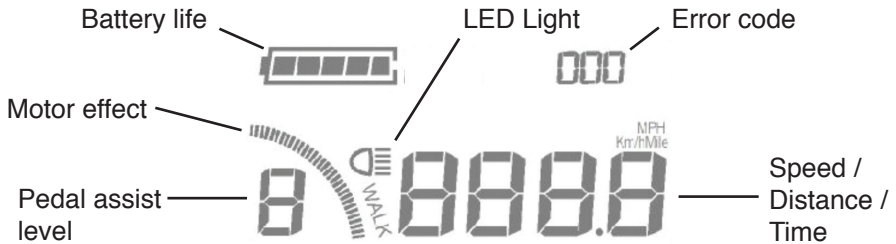
Navigate the Display

1) Press and hold the MODE button for 2-3 seconds to turn the display on or off. *Assist level 1 will automatically be activated when the display is turned on.*

2) Press the MODE button to navigate between the below functions:

- SPEED (mph)
- AVG SPEED = Average speed (mph)
- MAX SPEED = Top speed reached
- ODO = Odometer
- TRP = Trip distance
- TIME = Trip time

Display symbols:



Below is a list of the different functions that you can access and manage on the display:

- Battery life
- Motor effect
- 5 levels of Pedal Assist
- LED lights Off/On
- Speed (current, average, and max speed)
- Trip time and distance
- Odometer
- Background lighting of display
- Error code indication

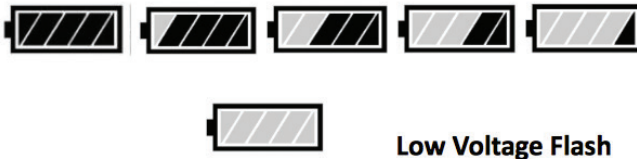
LED Lights

Press the “UP” button for 2-3 seconds to turn the front and rear LED lights on and off. A background light on the LCD display will automatically be turned on when the LED lights are turned on.

Battery Indicator

When the battery is fully charged, all 5 bars will show in the battery indicator. The bars will change along with the usage of the battery. When the battery is empty, the battery indicator will flash.

You can charge the battery frequently, a fully charged battery improves the performance!



Error Codes

The display will show an error code if the electric system does not work as it should. If you see an error code, contact your dealer.

Error code 25 will show up if the brake levers are pulled when turning on the display. Release the brakes to remove the error code (when braking, power is automatically shut off for safety reason).

Change Display Settings

Change the display settings

Press and hold the UP and DOWN button at the same time for 2-3 seconds to activate the settings menu.

Use the UP or DOWN button to change the settings option and the MODE button to select the setting you want:

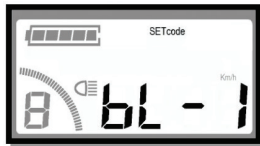
SET CODE 1 - **tc**: Reset trip meter: Y (yes) N (no)

SET CODE 2 - **bl**: Background light: level 1,2,3

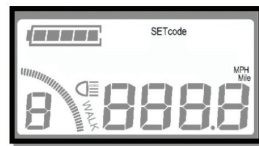
SET CODE 3 - Unit: mph or km/h

Press and hold the MODE button for 2-3 seconds to save the settings and exit the settings menu.

SET CODE 2



SET CODE 3



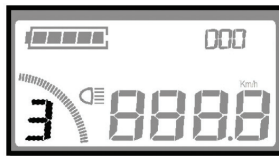
The Electric System

The Pedal Assist System (PAS)

Press the “UP” or “DOWN” button to shift between level 0 to 4. The amount of pedal assistance is automatically provided based on your pedaling speed.

A lower gear gives higher pedaling speed and more assist. So when going uphill, switch to a lower gear and enjoy! A higher assist level enables the motor to assist you at higher speeds - level 4 can take you up to 20 mph depending on bike model.

The pedal assist level is indicated in the lower left corner of the display:



Throttle

If you don't want to pedal at all, you can use the throttle to receive electric assistance up to 20 mph as long as the display is turned on.

To turn the pedal assist off but keeping the throttle function on, switch to pedal assist 0.

Using the throttle function will cause the battery to run out faster than when using pedal assist.

The Battery - Overview

Battery position

The battery is located under the saddle of your Blix bike. This allows for a low center of gravity and better stability when cycling.

Battery type

The battery consists of Panasonic™ Lithium-ion cells and is suitable for regular use and recharge.

The ON/OFF button and battery lock

The battery has a button for turning it on and off, and a battery lock for securing the battery to the bicycle.

Charging

You may charge the battery when it is mounted in its position under the saddle of the bike. You may also remove the battery and charge it from a regular wall outlet. Complete charging time of a fully discharged battery is about 3 hours. You may also charge the battery even if it is not fully discharged, it will not damage the battery.

Fuses

The battery is equipped with a fuse. If the main fuse blows, the battery will not provide power to the motor. Contact your dealer to replace the fuse.

Charging the Battery

Removing the battery

The battery can be charged in its fixed position under the saddle or removed and charged elsewhere. Remove the battery by tilting the seat post, unlock the battery-lock, remove the key, and pull the battery upward. Make sure to take out the key before pulling the battery up.



Charge the battery

Only charge the battery with the charger provided with your Blix bike.

For charging, connect the charger to a wall outlet and to the battery. When charging is completed, disconnect the charger.

Charger

The charger has two LED lights: POWER and CHARGE. The POWER light turns red when the charger is plugged into an outlet. The CHARGE light turns red while battery is charging. When the charger is not connected to battery or when the battery is fully charged, the CHARGE light turns green.



Reattaching battery

Slide the battery down through the fixed tracks on the bike. Lock the battery to prevent from theft.



Check battery status

You can check the battery status directly on the battery when it's turned on. The battery status is also displayed on the top left corner on the display.

During operation, the displayed battery status is based on the current biking condition. A lower battery status might be displayed when biking uphill, during acceleration and when switching to a higher level of electric assistance.

Storing the Battery

The battery status and durability is maintained by regularly using and charging the battery. When storing the battery, make sure to perform regular maintenance by charging the battery according to the specifications found in this manual and on the battery.

Store the battery indoors and in normal room-temperature.

When storing the battery it is recommended that you charge the battery for two hours each month.

! - Do not leave the battery uncharged for longer time periods. It will alter the battery life.

!! - The battery charger is exclusively designed for use in a dry indoor environment with good ventilation.

!!! - When charging, only use the charger provided with your Blix bike.

Range and Influencing Factors

Battery Range

There are many factors that affect the range of the battery. In the list below you will find some examples of factors and conditions that have negative impact on the range.

Factors having negative influence on range:

- Headwind
- Hilly terrain
- Soft ground
- Low tire pressure
- High assistance level
- Throttle usage
- No or poor maintenance
- Acceleration
- Low manual pedaling force
- High weight, the bike is heavily loaded.

Technical Description

The battery consists of a series of interconnected Panasonic™ Lithium-ion cells. The battery also contains a control unit (BMS) that monitors the cells during use and during charging of the battery.

The control unit (BMS) turns off the battery at a given voltage level to prevent damage to the battery cells. This means the battery is empty and needs recharging.

The control unit also contains a balancing circuit that controls charging so that the individual cells are charged evenly. This improves the performance of battery.

Should there arise an unbalance between the cells, the battery range may be affected. In order to improve the balance between the cells, it is recommended to fully discharge and charge the battery 2-3 times monthly (complete discharge and charge cycles).

The Wheels and Motor



Unmount the wheel

The power cable to the hub-motor is provided with a connector and can be unplugged by pulling it apart.

When the connector is unplugged, the wheel can be unmounted in a similar manner as a traditional bike wheel.

The connector plug is provided with two arrows which align to indicate the correct position.



Let's Go! Quick Guide

SHIMANO STEPS



Step 1

Turn the battery on by pressing the ON/OFF-button on the battery.

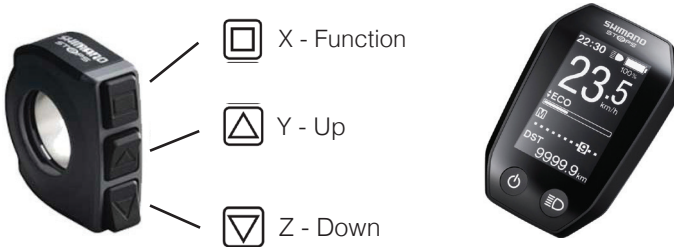
Step 2

Use the up and down buttons to choose your level of assist; Eco, Normal, or High.



Ready! - Ride your Blix bike in a similar manner as on a traditional non-electric bicycle. The electric motor will automatically provide assistance based on your pedaling speed. Don't forget your helmet!

The Display - Introduction



Navigate the Display

Press the Function button to navigate between the below functions:

- TIME = Time cycling
- Speed = current speed (mph)
- AVG = Average speed (mph)
- MAX (speed) = Top speed reached
- DST = Trip Distance
- ODO = Odometer
- Range = Estimated range per assist level



Take the display with you

You can take the display with you by pressing down the plastic piece below the display and slide the display upwards.

Read separate Shimano Steps™ manual or go to www.shimano.com

The Electric System

The Pedal Assist System (PAS)

The Shimano Steps™ system is a pedal assist system only, which means that you always need to pedal to activate the electric motor.

Use the Y (Up) button to select the level of pedal assist you want. You can choose between 4 modes:

Off - The pedal assist is turned off, you can still ride your bike without power!

ECO - Low level of pedal assist.

NORM - Medium level of pedal assist

HIGH - High level of pedal assist

LED Lights

Press the light button on the display to turn the front and rear LED lights on and off.



Charging the Battery



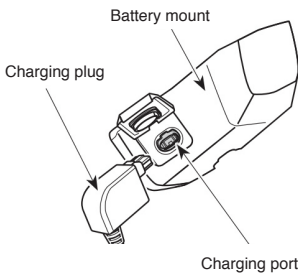
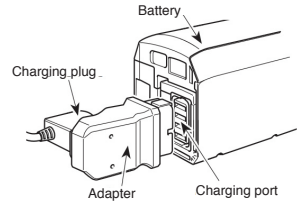
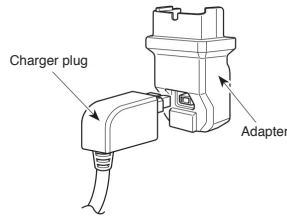
Removing the battery

Turn the key counter-clockwise and pull the upper part of the battery sideways towards the key side.

Charge the battery - when taken off the bicycle

1. Attach the adapter to the charging plug and connect the charger's power plug to an outlet.
2. Plug the adapter into the battery's charging port.

*Charge the battery on a flat surface indoors.



Charge the battery

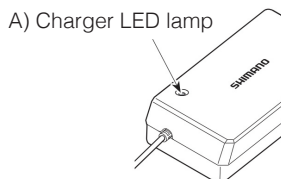
- when installed onto the bicycle

1. Connect the charger's power plug to an outlet.
2. Insert the charging plug into the charging port on the battery mount.

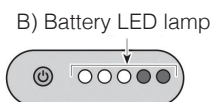
Read separate Shimano Steps™ manual or go to www.shimano.com

The charger

A) Charger LED lamp - after charging has started, the LED lamp on the charger lights up.



B) Battery LED lamp - you can check current charging status on the LED lamp on the battery.



Charing in progress indicators

Battery level indicator*1	Battery level
☀ ● ● ● ●	0% - 20%
○ ☀ ● ● ●	21% - 40%
○ ○ ☀ ● ●	41% - 60%
○ ○ ○ ☀ ●	61% - 80%
○ ○ ○ ○ ☀	81% - 99%
○ ○ ○ ○ ○	100%

*1 ● : Not lit ○ : Lit up ☀ : Blinking

Maintenance

General Maintenance

It is not just nice to have a clean bike, it's smart too. A clean bike lasts longer and performs better than a dirty bike. Wash your bike gently with a damp cloth. Do not use pressure washer systems!

Periodically check through the nuts and bolts on the bike to make sure they are tightened and secure. It is also recommended to do periodic servicing of your bike by a professional.

Storing

Your Blix bike is best stored indoors when not in use to protect from wearing from weather conditions.

Take proper care of your battery and do not expose it to extreme temperatures. Preferably, store the battery inside when not in use. Do not forget to recharge the battery during periods between use. Refer to the "Storing the battery" section of this manual.

Recycling

The battery's capacity and performance will decrease over time. The life cycle of the battery depends on many factors including usage, storage, maintenance and environment.

Lithium-Ion batteries can be recycled. If you are unsure where to recycle the battery in your area, contact your dealer.



Adjusting the Brakes

Different models have different types of brake systems, these are explained below. Ask your dealer if you are not sure which brake system your model has.

For safety reasons, the brake lever on the handlebar is equipped with a cut-off sensor that automatically turns off the power assistance when braking.

Disc brakes

Hydraulic or mechanical disc brakes provide great braking performance. Adjustments and service of this brake should be made by a professional.

V-brake (rim brake)

Some Blix bike models are also equipped with V-brakes, or rim-brakes, having brake pads gripping the front wheel rim during braking. These brakes provide good and effective braking, but wear out over time. You need to regularly check the brake pads, tighten the braking wire and/or replace the pads when worn out.

! - If you hear a scraping metallic sound when you brake with the rim brake, the brake pads may be completely worn out and need to be replaced immediately. Worn out brake pads cause unnecessary wear on the bicycle rim and will lead to reduced braking performance and accidents.



Quick adjustment of V-brake

Adjustment screw (j) is located at the brake lever.

To tighten the braking wire, screw the adjustment screw outwards. Secure its position with the locking-nut.

Adjusting the V-brakes

If the brake pads are worn, you may need to tighten the braking wire.

1. Loosen the bolt on the brake arm using a hex key.
2. Tighten the wire 1-3 mm and lock the position by tightening the screw.



Check the brake pads

Adjust the brake arm with adjustment screw (J).

Tightening the adjustment screw increases the spring tension and turns the brake arm away from the rim. The brake pads should not be in contact with the rim when not braking.

Adjusting the tension for one brake arm will influence the other arm. Adjust the tension for each arm until they move symmetrically.

Adjusting the Gears

Different models have different types of gear systems, these are explained below. Ask your dealer if you're not sure which gear system your model has.

The gears are pre-adjusted before purchase, but after some time of use the gears may need some adjustments. Instructions for how to adjust each gear system are described on the following pages.

Internal-gear hub, Nexus

For Blix bike models equipped with an internal Nexus hub-gear, the gear mechanism is located inside the back wheel hub. Internal-gear hubs are more reliable and require less maintenance than derailleur systems. You can shift gear at a stop. You shift gear by turning the gear-shifter on the handlebar.

External gears (derailleur) – Acera/Deore

External gears provides efficient operation and drive-train of your Blix bike. The derailleur arranged below the cassette guides the chain to correct rear sprockets during shifting. You shift gear by pressing the respective gear-shift buttons (+ or -).



Adjusting the gears

You may adjust the gears yourself. To fine tune the gears is easy and may be done as soon as you experience any trouble. Gears that are not adjusted correctly may cause unnecessary wearing of the gear system.

Adjusting Nexus 3

The gear hub has a display with a yellow mark. The gear has the correct setting when the yellow mark is located between two white lines when set to the second gear.



To adjust the gear:

1. Turn the gear-shifter to the second gear.

2. Loosen the inner bolt (ii).

3. Turn the adjustment bolt (iii) until the yellow mark is located between the two white lines.

4. Tighten the inner bolt (ii) again.



Adjustment - Acera / Deore



Adjusting the gears

For adjusting the gear, turn the adjustment screw (J). The gear wire runs through this bolt.

By tightening the wire, the derailleur will change to a lower gear more easily.

Tighten the wire by turning the adjustment screw (J) one step at a time in a counter-clockwise direction. One step makes a big difference – check after each step.

In order to loosen the wire, turn the adjustment screw in a clockwise direction, one step at a time.



For more Information

If you would like additional information about your new Blix bike, contact your local dealer or Blix bicycle directly. If you want additional information about electric bicycles or cycling in general, there are also a lot of available information to be found in your public library or online.

If you have any questions or if there is something you think we should know - tell us about it! We continually strive to improve our products and services and we love to hear your opinion!

Thank you for choosing Blix!

- The Blix Team

support@blixbike.com
Call: 855-655-BLIX (855-655-2549)
www.blixbike.com

Blix Bicycle LLC
2877 Mission street
Santa Cruz, CA-95060

Limited Warranty

Go to www.blixbike.com to activate this warranty.

3 years

- Frame and rigid front forks, excluding suspension forks.

2 years

- Motor, battery, display, controller box.

1 year

- Paint finish and decals.
- Suspension forks.
- All other electrical components and parts.

(a) Remedies: The sole remedy is limited to repair or replacement of defective parts and components of those with equal or greater value at the sole discretion of Blix. Seller's liability under any limited warranty is discharged, in Seller's sole discretion and at its expense, by: repairing or replacing the affected goods; or crediting or refunding the end user's purchase price of the affected goods, less any applicable discounts, rebates or credits. Seller's limited warranty is extended to the first end user purchaser only and such end user must register their product at <https://www.blixbike.com> to claim warranty coverage. Affected products may not be submitted to Seller for warranty repair or replacement except with written authorization from Seller after confirmation of coverage. Notice for replacement must be given within 60 days of the discovery of the defect.

(b) Exclusions: The above warranty or any implied warranty does not cover normal wear and tear, improper assembly, damage or failure due to accident, misuse, abuse, or neglect, improper follow-up maintenance, installation of third party components, parts, or accessories, or any products that have been modified from manufacturer's specifications.

(c) Delivery Costs: The end user is responsible for all costs and risk of loss associated with the delivery of warranted goods to Seller or its agent for warranty repair or replacement, and Seller is responsible for all costs and risk of loss associated with the return delivery of repaired or replaced products to the end user.

(d) Warranty claims: Warranty claims must be made through the dealer/store that the bicycle was purchased from. All Warranty decisions will be made by Blix Bicycle LLC.

(e) THIS SECTION SETS FORTH PURCHASER AND END USER'S SOLE REMEDY AND SELLER'S ENTIRE LIABILITY FOR ANY WARRANTY RELATING TO THE PRODUCTS. EXCEPT FOR THE LIMITED EXPRESS WARRANTIES DESCRIBED IN THIS SECTION (A) NEITHER SELLER NOR MANUFACTURER HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, INCLUDING ANY WARRANTIES OF: (i) MERCHANTABILITY; (ii) FITNESS FOR A PARTICULAR PURPOSE; (iii) TITLE; (iv) NON-INFRINGEMENT; OR (v) PERFORMANCE OF PRODUCTS TO STANDARDS SPECIFIC TO THE COUNTRY OF IMPORT, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED AND (B) PURCHASER ACKNOWLEDGES THAT IT HAS NOT RELIED ON ANY REPRESENTATION OR WARRANTY MADE BY SELLER, EXCEPT AS SPECIFICALLY DESCRIBED IN THIS SECTION.

Technical Specification

Battery:

36 Volt

11Ah / 17,5Ah

396Wh / 630Wh

Cell: Panasonic™, Lithium-Ion

(2200mAh / 2900mAh per cell)

Temperature range:

Usage: 5 °F - 104 °F

Charging: 50 °F - 86 °F

Charing time: 3 hours

Weight 7 lbs

Main fuse: 30A

Charger fuse: 5A

Charger:

Input: 110V - 120V

Output: 42V (for 36V-battery)

Hub motor:

Brushless

36V

250 / 350 / 500 Watt

Max speed: up to 20 mph

Bicycle:

Frame: Aluminum

Recommended maximum weight: 220 lbs (rider and cargo)

Shimano Steps™:

See separate manual for technical specifications for the Shimano Steps™ system.

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electric bikes

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