

# ENKI®

Joyrides, redefined.



BILLY EBIKE USER MANUAL



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# WELCOME TO THE ENKI FAMILY

# 01

## WELCOME

Welcome to our Enki Cycles family! Now that you're a proud owner of your very own Billy ebike we want to keep you safe and ensure your Billy is in the best condition possible so you can continue to experience the fun for many miles ahead.

We've created this owner's manual to share important safety, performance and service information with you. Please read it before you take your first ride and keep it for reference.

While we do include tips for a safer riding experience, it's not a comprehensive guide accounting for all circumstances. Because not every situation can be predicted and we cannot give you every rule and mechanical skill necessary to safe riding, it's your responsibility to gauge your skillset and riding conditions in order to ride this electric bike safely.

Please ensure that you are familiar with the legal regulations for the use of electric bikes in your country before riding.

## CONNECT WITH US

We look forward to hearing and seeing your experiences with your Billy ebike online. If you ever have a question regarding your Billy or want to tell us about your adventures, connect with us on social or contact us directly and one of our experienced team members will be there to help.

INSTAGRAM – <https://www.instagram.com/enkicycles>

FACEBOOK – <https://www.facebook.com/enkicycles>

EMAIL – [ride@enkicycles.com](mailto:ride@enkicycles.com)

WEBSITE – <https://enkicycles.com>

HASHTAGS - #enkicycles #billyebike #joyridesredefined #notallridesaremadeequal

Be sure to use the hashtags above when you post about your experiences. When we find them we'll help you share the love so more people can learn about us. Thanks!

## READ THIS MANUAL

This manual contains information on the Billy electric bike by Enki Cycles. Always keep it handy and refer to it when required. Updated at the date listed on the support page, we reserve the right to make changes at any time without prior notice. Please ensure that you return to our support page frequently to download the latest version.

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WARNING!


02

## WARNING

### WARNING

#### RISK OF DEATH OR SERIOUS INJURY

Whenever you ride your Billy ebike, you risk death or serious injury from loss of control, collisions and falls. In order to ride safely and minimize the risk of injury, you must read and follow all instructions and warnings in this user manual.

This manual contains many **WARNINGS** regarding the safe operation of your ebike and outlines consequences if safe setup, operation and maintenance are not performed. All information in this manual should be carefully reviewed and if you have any questions you should contact Enki Cycles immediately. The warnings contained within the manual and marked by this  triangular Caution Symbol below and should be given special care.

**NOTE: PICTURES ARE FOR REFERENCE ONLY AND MAY SHOW THE SIMILAR COMPONENT FROM ANOTHER MODEL.**

## GENERAL WARNINGS

MAXIMUM RIDER WEIGHT: 300lbs (136kg)

DO NOT ALLOW CHILDREN UNDER THE AGE OF 14 TO USE THIS PRODUCT

ADULT SUPERVISION IS REQUIRED

## SPECIAL NOTE TO PARENTS AND GUARDIANS

As a parent or guardian, you are responsible for the activities and safety of your minor or child (while he or she is operating a Billy ebike). Please ensure that their Billy ebike is in good repair and safe operating condition and that your child understands its proper use. It is also important that both you and your child learn, understand, and obey all applicable local motor vehicle and traffic laws. Always make sure your child is wearing proper protective equipment, including a helmet and wrist guards.

**THE BILLY ELECTRIC BICYCLE IS NOT RECOMMENDED FOR CHILDREN UNDER THE AGE OF 14. FOR CHILDREN 14 YEARS OF AGE AND OLDER, ADULT SUPERVISION IS REQUIRED.**

## HELMET USE

While the use of helmets may not be required in your country, state or territory, we advise that you use a helmet whenever you ride your Billy ebike to minimize the risk of brain injury, should you encounter a fall or accident during your riding experience.



WE RECOMMEND TAKING YOUR BILLY EBIKE TO A CERTIFIED ELECTRIC BIKE SPECIALIST OR BICYCLE ASSEMBLY.

**THIS IS REQUIRED FOR VALID WARRANTY.**

## INTENDED USE

Your Billy ebike is only designed for riding with both wheels in contact with the ground on paved roads only. It is not intended for racing, jumps, hops, wheelies, offroad or anything of the kind. The manufacturer and dealer are not liable for any direct or consequential damages.



THE WARRANTY WILL BE VOID IF YOUR EBIKE IS NOT USED IN ACCORDANCE WITH THE INTENDED USAGE.



# SETTING UP YOUR EBIKE

# 03

## UNBOXING

When shipped, your bike arrives securely packaged, but bolts may become loose and other parts can come out of alignment during transit. It is important that you inspect and correctly set up your new bike before riding to minimize the risk of injury.

Follow the below steps to correctly unbox your new Billy ebike.

A. REMOVE FROM BOX

B. REMOVE ZIP TIES AND PADDING

C. INSTALL HANDLEBAR

D. UNFOLD THE EBIKE

### INSIDE THE BOX:

1 x Billy ebike

1 x smaller box containing a battery charger and cable.

1 x smaller box containing reflectors and folding pedals.

Any extra items that you may have ordered will also be included in the box.

## TOOLS YOU WILL NEED

In order to correctly setup your Billy ebike, you will need the following tools:

1 x 6mm allen wrench

1 x 5mm allen wrench

1 x 3mm allen wrench

1 x flat head screwdriver

1 x small phillips head screwdriver

1 x 18mm spanner

1 x 15mm spanner

1 x bicycle tire pump with schrader valve attachment



WHILE WE TAKE EVERY CARE POSSIBLE TO ENSURE YOUR EBIKE REACHES YOU IN THE BEST CONDITION POSSIBLE, VIBRATIONS FROM SHIPPING, TRANSIT AND GENERAL HANDLING CAN CAUSE BOLTS AND FASTENERS TO LOOSEN. IT'S IMPORTANT THAT YOU CHECK ALL BOLTS, NUTS AND FASTENERS TO MINIMIZE THE RISK OF INJURY WHEN YOU RIDE.

## A. REMOVE FROM BOX



Your Billy ebike ships securely as pictured above.

Open the box from the top and with the help of another person, lift out of the box.

Place the bike on the ground carefully ensuring it stays upright with the bike resting on the wheels and bottom guard.



YOUR BILLY EBIKE IS HEAVY, AND IT IS RECOMMENDED THAT YOU ENLIST THE HELP OF ANOTHER PERSON TO AVOID INJURY.



## B. REMOVE TIES & PADDING



Using scissors, carefully cut and remove zip ties and padding, ensuring you do not mark or damage the bike or its components.



USE OF SCISSORS OR BLADES RISK SCRATCHING OR HARMING YOUR EBIKE. TAKE EXTREME CARE.

## C. INSTALL HANDLEBAR



Using a 6mm allen wrench, undo the four bolts at the top of the head stem and remove the top piece.



Pointing the handlebars with the levers facing down, place the knurled center section of the bar in mounting point of the head stem.

The installation is made easier if the display is rotated forward. If the display is secured and will not rotate easily, loosen the securing bolts slightly with a 3mm allen wrench.



Replace the previously removed top piece and install the four bolts by hand to ensure correct installation.

Slightly tighten each bolt at opposite ends (e.g. 1, then 4, then 2, then 3) a little at a time to ensure even pressure is applied across the top piece.



Just before the bolts are fully tightened, adjust the handlebar so that the vertical bars are in line with the forks and the brake levers face forward.

Tighten the four bolts to ensure a secure connection of the handlebar to the head stem.



BE CAREFUL NOT TO OVER TIGHTEN AS EXCESSIVE FORCE MAY DAMAGE THE HEAD STEM THREADS.



Straighten the handlebar so that a forward facing handlebar coincides with a forward facing front tire, then secure by removing the rubber cover and tightening the top cap bolt.





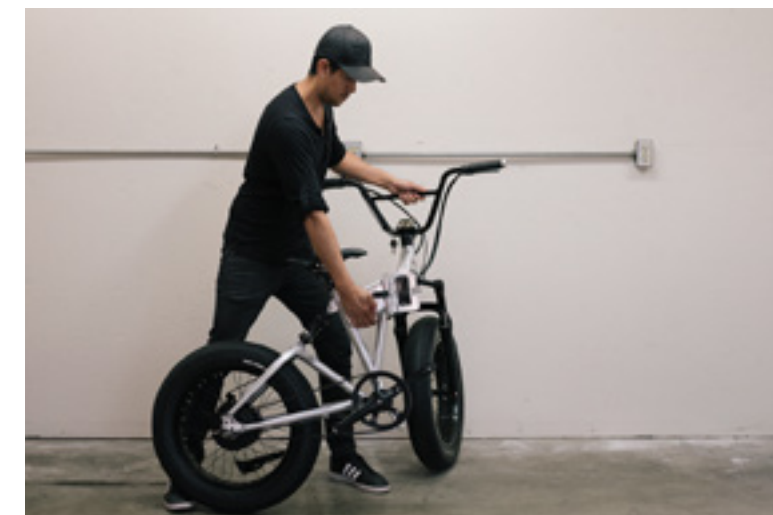
## D. UNFOLD THE EBIKE



Adjust the display position so that it can be easily viewed when sitting on the bike, then finally secure the handlebar by tightening the two pinch bolts using an allen wrench.



Standing toward the 'tire' side of the folded ebike, place an anchoring foot behind the tire and raise the bike so that the bike is no longer resting on the crank guard.



Slowly swing the handlebar half of the bike outwards in a motion that closes the center hinge.



Clasping the clamp lever handle, draw it closed by swinging it across the frame break so that there is an even gap between the lever handle and the front half of the frame. It is designed to sit very close to the frame, but not actually touch it.



Rotate the lock clasp clockwise so that the locking tab sits inside the hole of the clamp lever handle and the lock clasp sits flush against the handle.



**DO NOT RIDE THE EBIKE UNLESS THE FRAME IS FULLY UNFOLDED AND BOTH THE CLAMP LEVER AND LOCK CLASP ARE SECURED. SEVERE CONSEQUENCES WILL RESULT.**





## 1. HANDLEBARS



By the left grip on the handlebar you will find the 3 button keypad that controls the ebike power and display system.



**USA MODELS ONLY:** The right side grip is a motorcycle style twist throttle. Twisting the grip down towards the rider dictates the level of throttle applied.

Brake lever positioning varies from region to region. While we officially ship correct configurations to regions, It is important to understand which regional versional version you have so that you know which lever controls which brake.

**Region: USA**

Left brake controls front brake  
Right brake controls rear brake

**Region: Europe**

Left brake controls front brake  
Right brake controls rear brake

**Region: Australia**

Left brake controls rear brake  
Right brake controls front brake

**Region: UK**

Left brake controls rear brake  
Right brake controls front brake



**FAILURE TO UNDERSTAND WHICH LEVER CONTROLS WHICH BRAKE CAN LEAD TO ACCIDENTS AND SERIOUS INJURY.**



## 2. FOLDING PEDALS



Your Billy ebike ships with the pedals detached.



Each pedal is labelled according to the side of the bike they belong on. “R” for right, and “L” for left.



To install the right pedal, find the pedal labelled “R” and place one of the supplied washers on.



Next, locate the right side crank and attach the pedal to the arm by threading in a clockwise motion.

To install the left side pedal, locate the pedal labelled “L”, install the other supplied washer, then attach to the left side crank arm by threading in an anti-clockwise motion.



READ PEDAL LABELS CAREFULLY TO AVOID ATTEMPTED INSTALLATION OF INCORRECT PEDALS AND DAMAGING COMPONENTS.



PAY CAREFUL ATTENTION TO THE ANGLE OF INSTALLATION AS WELL AS THE TIGHTENING FORCE TO AVOID DAMAGE TO THE CRANK ARM.

Crank arms are quite sensitive because they’re made of an alloy material and the pedal bolt of hardened steel, and it doesn’t take much for them to be damaged.

Two common ways they can be damaged during installation are through cross-threading (installation at an incorrect angle) and over tightening.

To avoid cross-threading, it’s best to install the pedal carefully by hand. When the pedal is in the correct position for installation (the pedal is positioned perpendicular to the face of the crank arm), it should be easy to screw in by hand. If you meet resistance back all the way out (rotate the bolt in the reverse direction) immediately to avoid damage caused by cross threading.

While they should be tightened a little more than hand tight, tightening with any more than 30lbs ft will cause the threads to strip. This is where the threads of the crank arm are pulled so tightly towards the pedal that they break away from the crank arm itself.



### 3. SEAT ADJUSTMENT



Seat adjustment is achieved without tools via the quick release system. To adjust, locate the quick release lever at the top of the seat tube.



Open by pulling towards the rear of the bike. The seat post should now be loose enough to adjust the seat height.



When raising the seat height, ensure that you do not extend the seat height past the minimum insertion point marking on the seat tube.



EXTENDING THE SEAT POST PAST THE MINIMUM INSERTION POINT MAY LEAD TO COMPONENT FAILURE AND SERIOUS INJURY.



If the seat post is loose when the quick release is fully engaged it may be necessary to adjust the clamp further to secure the seatpost correctly. This is achieved by turning the adjustment dial clockwise when the clamp is released.

Alternatively, if the clamp is too difficult to compress fully, it may be necessary to loosen the clamp slightly. This is achieved by turning the dial in an anti-clockwise direction when the clamp is released and then trying again.

The seat can be adjusted further by either moving it slightly backward or forward, as well as the angle the seat sits; either more upwards or downwards.



To adjust, loosen the securing bolt with an allen wrench and turn in an anti-clockwise direction.



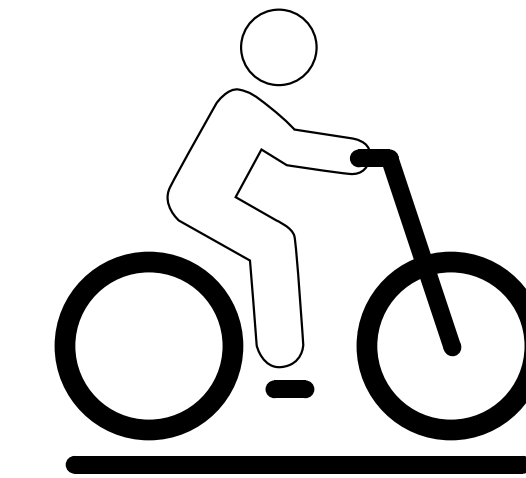
Once the bolt is loose enough, there should be enough play in the seat rail clamp to allow the seat to slide back and forth. Ensure that you only slide the seat so that the seat rail clamp's edges sit within the range marked on the seat post rails.



EXTENDING THE SEAT POST CLAMP OUTSIDE OF THE MARKED RANGE CAN LEAD TO COMPONENT FAILURE AND SERIOUS INJURY.

To adjust the seat angle, loosen the securing seat clamp bolt further. Once loose enough, there will be enough play in the seat to allow for the angle to be slightly adjusted.

Secure the seat angle and slide by tightening the seat clamp bolt.



#### SETTING THE CORRECT SEAT HEIGHT

While seated on the saddle and your foot resting flat on pedal at its lowest position, your extended leg should be slightly stretched but not fully extended. If the leg is fully extended in this position or you can only touch the pedal with your toes, this may result in joint fatigue and sports injury.



INCORRECT SETTING OF THE SEAT HEIGHT MAY RESULT IN SERIOUS INJURY.



#### 4. FOLDING



Rotate the lock clasp anti-clockwise so that the locking tab that sits inside the hole of the clamp lever handle no longer secures the clamp lever handle in place.



Swing the clamp lever handle outwards to release the clamp.



With an anchoring foot behind the rear wheel to stop it from rolling backward as you fold, use one hand to hold the frame close to the seat post and the other hand to hold the front half of the bike. Fold the bike in half using a swinging motion, until the front wheel aligns with the rear wheel. Allow the bike to rest on the lower guard for storage with a smaller footprint.

#### 5. REAR HUB MOTOR



Ensure the motor cable is securely connected to the controller connector cable.

If disconnected, simply line up the arrow on the motor cable with that on the connector cable, and press together carefully. Notice that one side has a 'female' connection with holes and other a 'male' connection with pins. The connection is made such that the pins fit exactly into the holes on the other side.

If there is resistance do not force the two together, as this may bend pins out of place and destroy your connection. Simply put apart gently, then try again by aligning the arrow guides together and pushing carefully.



**DO NOT RIDE THE EBIKE WITHOUT THE MOTOR CABLES PROPERLY CONNECTED. DOING SO COULD DAMAGE COMPONENTS AND RESULT IN SERIOUS INJURY.**

#### 6. BRAKES



Your Billy ebike comes equipped with front and rear hydraulic disc brakes, designed to help you slow down and stop as required.



**KEEP IN MIND THAT WHILE YOUR BIKE'S BRAKES ARE STRONG, WE HOLD NO RESPONSIBILITY IN THE EVENT OF FAILURE.**



It is therefore recommended to service your brakes regularly to ensure:

- i. the brake pads are in suitable usable condition
- ii. the brakes are adjusted correctly so that calipers and pads make appropriate contact with the brake rotor
- iii. lever pulls translate to sufficient braking power
- iv. hydraulic brake fluid is in suitable condition for brake use.

IF YOU DON'T HAVE THE MECHANICAL EXPERTISE AND/TOOLS TO REGULARLY MAINTAIN YOUR BILLY EBIKE'S BRAKES, WE ADVISE YOU TO SEEK THE HELP OF A CERTIFIED BICYCLE MECHANIC.

Your brake levers are not equipped with motor inhibitors that cut the power to the motor whenever the levers are pressed. For safety, if you have no intention to be propelled by its electric motor, we recommend that you switch your pedal assist (PAS) level to 0 or switch the power off by holding the Mode button, to ensure that an accidental twist of the throttle or press of the pedal doesn't result in the ebike being propelled unintentionally.

## 7. TIRE PRESSURE

The recommended tire pressure is 8-20 PSI (0.6-1.4bar). 20psi is ideal for hard surfaces like asphalt and concrete. For softer, looser surfaces like gravel, it is advisable to reduce the pressure for better traction and a more comfortable ride.



To inflate, locate the inflation valve on the tire.



Remove the valve cap by twisting in an anti-clockwise motion.



Attach a Schrader valve compatible tire pump and inflate to the desired pressure.



DO NOT OVER INFLATE PAST 20PSI OR UNDER-INFLATE BELOW 8PSI. DOING SO MAY DAMAGE THE TIRE AND RESULT IN SERIOUS INJURY.

## 8. FRONT SUSPENSION FORK

Your Billy ebike comes equipped with an adjustable front air suspension fork designed to help absorb bumps during your ride.



WHILE SUSPENSION IS DESIGNED TO HELP ABSORB SHOCKS, IT DOES NOT GUARANTEE YOUR SAFETY WHILE RIDING. EXERCISE EXTREME CARE TO AVOID THE RISK OF INJURY.



Billy's suspension fork features a lock out dial. When fully locked out (the lock icon on the dial is closest to the frame), the fork will be fully rigid, meaning it will ride like a standard rigid fork bicycle.





As you turn it anti clockwise, it will progressively allow more travel.



When the dash (-) icon faces closest to the frame, the suspension forks are in full suspension mode.



DO NOT FORCE THE DIAL HARD IN EITHER DIRECTION. DOING SO MAY DAMAGE THE FORKS AND RESULT IN SERIOUS INJURY.

### ADJUSTING SUSPENSION PRELOAD



It is also possible to adjust the amount of preload on the air suspension.



Remove the “Air” cap by turning in an anti-clockwise direction and inflate using a high-pressure air suspension pump. Recommended starting pressures are listed below based on rider weight.

RIDER WEIGHT		AIR PRESSURE	
LBS	KGS	PSI	BAR
220	100	95-110	6.5-7.5
200	90.91	90-100	6.2-6.9
170	77.27	80-90	5.5-6.2
140	63.64	78-85	4.8-5.8
120	54.55	65-75	4.5-5.1



ONLY ATTEMPT TO ADJUST FORK PRELOAD/SAG IF YOU ARE EXPERIENCED WITH SUSPENSION TUNING. OTHERWISE, PLEASE CONSULT A QUALIFIED BICYCLE MECHANIC.

### ADJUSTING SUSPENSION DAMPING

At the bottom of the fork leg you will find a rebound damping dial. This determines the rate of return when the suspension is compressed.



Turning it completely clockwise will set a slow rate of return. Check this by holding the front brake and pumping the fork up and down. Turning it completely anti-clockwise produces a faster rate of return. Setting a faster rate of return is more ideal for bumpy terrain, where the suspension needs to return to full length quickly in between bumps. Setting a slower rate of return might be better for smoother terrain, where bumps are a further distance apart. You can make small adjustments until the setting is right for you.

## 9. REAR SUSPENSION

Your Billy ebike comes equipped with a pre-load and rebound adjustable rear coil suspension to help absorb bumps during your ride.



WHILE SUSPENSION IS DESIGNED TO HELP ABSORB SHOCKS, IT DOES NOT GUARANTEE YOUR SAFETY WHILE RIDING. EXERCISE EXTREME CARE TO AVOID THE RISK OF INJURY.



To adjust, locate the textured threaded stopper that sits at the end of the suspension spring, towards the top of the rear suspension unit.





Twisting the stopper in an anti-clockwise direction reduces the amount of preload.



Twisting the stopper in a clockwise direction increases the amount of preload.



The rebound damping dial determines the rate of return when the shock is compressed. Full clockwise will set a slow rate of return and anti-clockwise for incrementally faster return.



ONLY ATTEMPT TO ADJUST REAR PRELOAD IF YOU ARE EXPERIENCED WITH SUSPENSION TUNING. OTHERWISE, PLEASE CONSULT A QUALIFIED BICYCLE MECHANIC.

## 10. DRIVE SYSTEM

Your Billy ebike comes equipped with a Gates carbon belt drive system. It is important to maintain belt tension to ensure optimum energy is being transferred from the crank to the rear wheel.

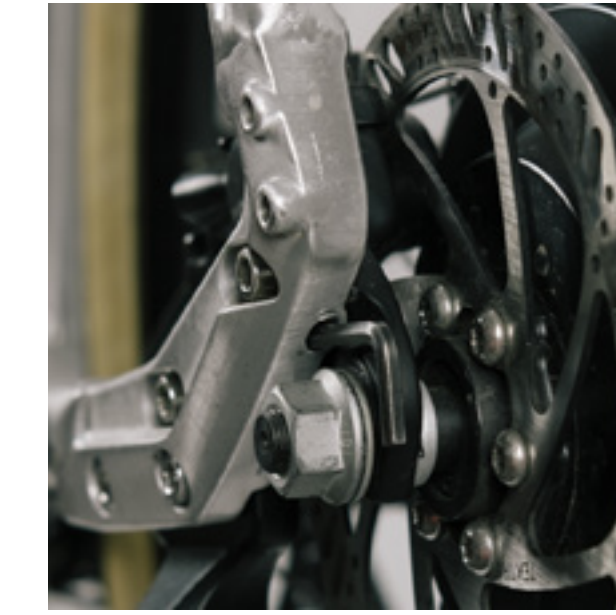


ONLY ATTEMPT TO ADJUST YOUR DRIVE SYSTEM IF YOU ARE EXPERIENCED WITH CYCLE MAINTENANCE. OTHERWISE, PLEASE CONSULT A QUALIFIED BICYCLE MECHANIC.



Your rear wheel axles are secured into the black dropouts via an 18mm nut. The belt tension and wheel alignment are set by adjusting the floating black dropouts either forward or rearward as required.

To correctly adjust the drive tension, first locate and loosen (anti-clockwise) both bolts (1) and (2) on each side of the bike with an allen wrench.



Next, locate the setting screw via the hole at the rear of the silver dropout arm, just above the main axle nut.

Using an allen wrench, turn in a clockwise direction to move the black axle dropout rearward, and anti-clockwise to allow it to move forward.

Understand that adjusting just one side will affect wheel alignment.

Be sure to adjust both left and right sides by the same amount to maintain wheel alignment as you optimize belt tension.

Once you have achieved the desired amount of tension, tighten both the bolts (1) and (2) on both left and right dropout securely.

For accurate belt tensioning it is recommended to download the latest Gates Carbon Drive tuning app from the iTunes or Google Play store and follow the step by step in-app instructions.

## 11. BATTERY

When setting up your Billy ebike for the first time, we recommend that you charge the battery to full overnight. This allows the battery to balance.

As you use the battery, periodically try to use the battery until it is completely empty and then charge it until it is completely full before using it again. Fully cycling the battery like this should help extend the life of the battery. Batteries are ideally stored at 40%-50% charge to maximize battery life.



ONLY OPERATE YOUR BATTERY AND CHARGER BETWEEN 50 DEGREES FAHRENHEIT (10C) AND 80 DEGREES FAHRENHEIT (27C) TO AVOID COMPONENT FAILURE AND MINIMIZE THE RISK OF INJURY.



Your battery can be charged either on or off the ebike. To charge on the ebike, locate and peel open the rubber door to expose the battery's ports and power button.

Only use the included charger to charge your battery.





Ensure that the ebike's power button is switched to the off position (0).

Before powering on the charger, insert the charger jack into the charging port towards the top right of the battery port. Once attached securely, switch your charger on.

While charging, the charger's red light will illuminate. Once charging is complete, the charger will indicate so by illuminating the green light.

Lithium batteries and electricity can cause serious injury when incorrectly maintained or handled or used inappropriately, dropped, or exposed to water.



**WE URGE YOU TO EXERCISE EXTREME CARE WHEN USING YOUR EBIKE'S BATTERY AND ELECTRICITY RELATED COMPONENTS AND DEVICES TO MINIMIZE THE RISK OF SERIOUS INJURY.**



To charge the battery away from the ebike, fold the bike in half and use the supplied key to unlock the battery from its mounted position.



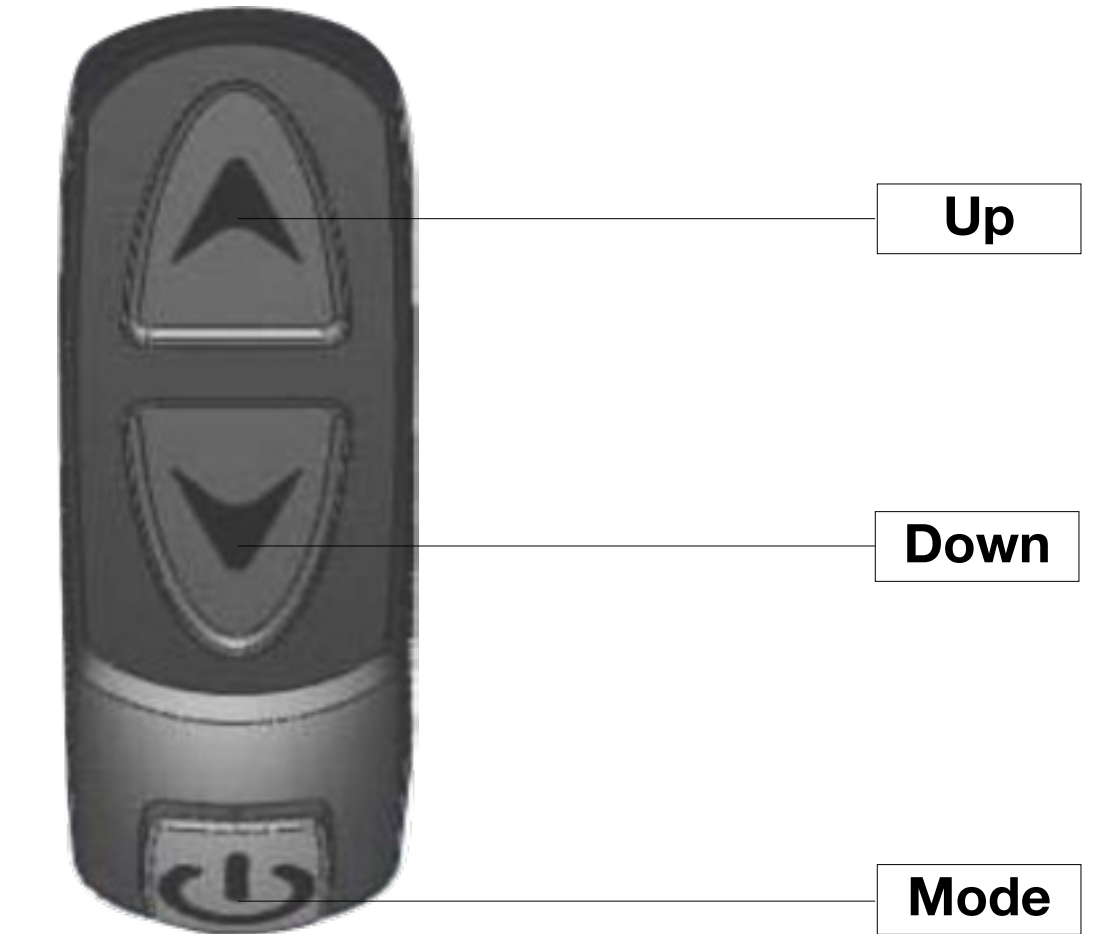
Slide the battery out completely and charge in a cool dry location until fully charged.



**IF YOU NOTICE SOMETHING UNUSUAL DURING THE CHARGING PROCESS, TURN THE POWER OFF IMMEDIATELY AND CONTACT US FOR ASSISTANCE TO AVOID POSSIBLE INJURIES.**

## 12. DISPLAY

Your new Billy ebike comes equipped with a display and 3 button keypad to allow you to operate and customize your ebike riding experience, as well as navigate through trip and system information. References to these buttons will be made as Up, Down and Mode.



To power on the ebike, hold down the Mode button for a few seconds until the display turns on.

Similarly, to power off the ebike, hold down the Mode button for a few seconds until the display turns off.

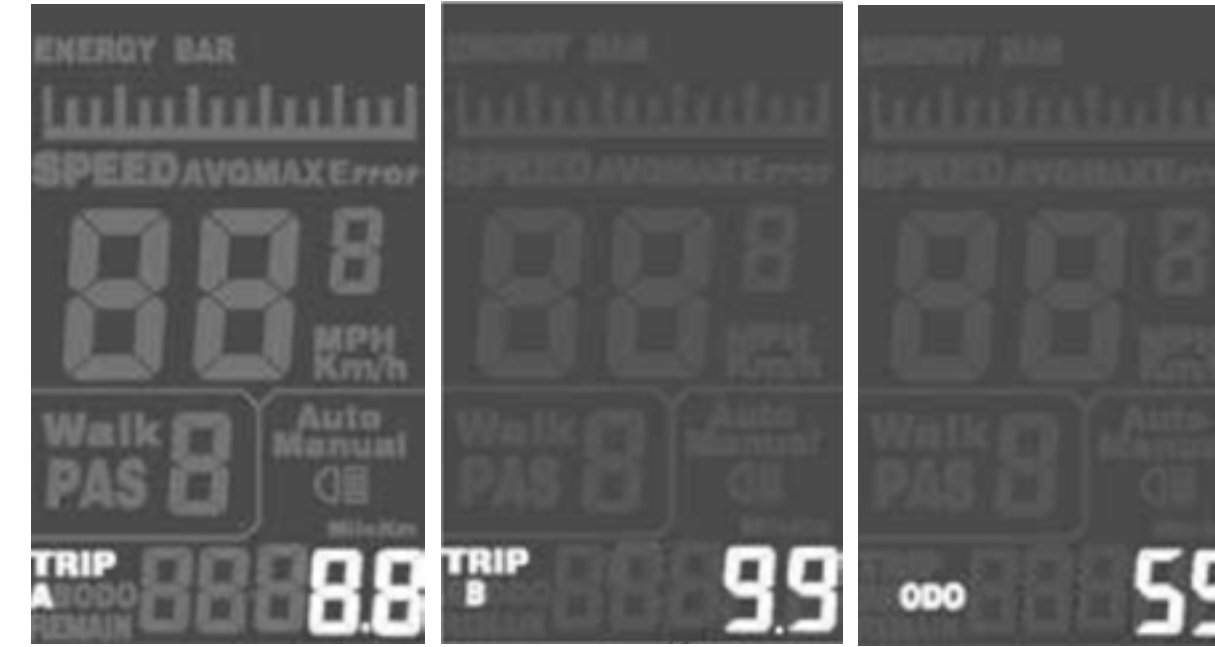




When powered on, pressing the Mode button will cycle through the various speed interfaces of real time speed, average speed and maximum speed.



Pressing the Up button for a few seconds illuminates the display for viewing ease when lighting conditions are low. Once illuminated, pressing Up again for a few seconds returns the display to the standard non-illuminated view.



Pressing the Mode button also cycles through the various trip and odometer readings of the display. Pressing Down and Mode simultaneously resets displayed trip meter.



The next setup menu option allows you to set the maximum speed in terms of kilometres per hour. Use the Up and Down buttons to customize your maximum speed.



Pressing the Down button for 3 seconds activates the “Walk mode”, where the e-bike will travel at a constant speed of 6km/h.

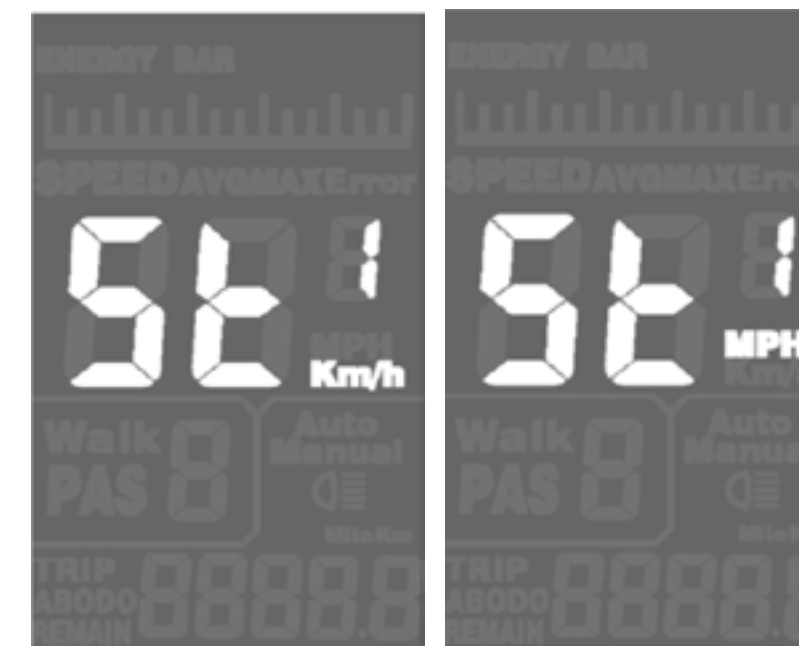


**DO NOT RIDE THE EBIKE WHEN WALK MODE IS ACTIVATED. IT IS ONLY DESIGNED TO ASSIST PUSHING.**



When fully charged, the energy bar across the top right of the display will show bars spanning the width of the display.

When the energy bar is at extremely low levels, it will only show four bars and begin flashing until the motor and display shut off altogether.



The first setup option allows you to switch between imperial (miles) and metric (kilometres) forms of measurement by pressing Up or Down. Confirm your selection by pressing Mode and return to the setup menu.



**YOU MUST BE AWARE OF YOUR LOCAL EBIKE LAWS AND RIDE WITHIN THE ALLOWABLE PUBLIC ROAD LEGAL LIMITS UNLESS YOU ARE RIDING ON PRIVATE OFF ROAD LAND.**

**WE SHALL NOT BE HELD RESPONSIBLE FOR INAPPROPRIATE OR ILLEGAL BEHAVIOUR WITH REGARD TO MAXIMUM SPEEDS AS DICTATED BY YOUR LOCAL BIKE LAWS.**

Exit the setup menu by holding the Mode button for at least 2 seconds.



# SAFETY CHECK- LIST - BEFORE YOU RIDE

## 04

### BEFORE YOU RIDE

Before you ride it's important to check whether key components of your ebike are set up and/or operating correctly. The following checks will help ensure safe operation of your ebike and reduce the risk of potential injury during operation.



WHILE IT'S IMPORTANT TO PERFORM CHECKS BEFORE YOU RIDE, THESE ACTIONS DO NOT REPLACE THE NEED FOR FREQUENT AND DETAILED SERVICING FROM EXPERIENCED EBIKE MECHANICS.

**1. TIRES** - Check tires are inflated correctly and look for signs of excessive wear like loss of tread or cracking that may indicate the need for replacement. Inspect rims for signs of warping or other damage.

**2. BRAKES** - Ensure both front and rear brakes are working correctly by pulling them and initially rocking the ebike back and forth. The amount of 'braking' you feel should be strong and your levers should not be touching the bars as you pull on them. Conversely, when released, you should not be able to hear or feel the disc pads rubbing against the brake rotors. Ensure also that levers are tightly secured to the handlebars and are lubricated.

**3. FOLDING CLAMP** - Ensure that the folding hinge clamp is secured tightly with the locking clasp in place.

Failure to do so may result in disaster.

**4. DISPLAY AND BATTERY** - Power on the ebike to check the battery level and cycle through the menu to see if anything looks unusual. Notice any warning codes displayed.

**5. STEERING** - Check that the forward facing handlebar is coinciding with a forward facing wheel to ensure everything is as straight as possible and steering is correct. Turn the handlebar from side to side to ensure everything is appropriately tight and unrestricted.

**6. BELT** - Ensure correct belt tension and look for signs of unusual wear.

**7. CRANKS & PEDALS** - Ensure cranks and pedals are secured. Notice any signs of wear, odd creaks or sounds when rotated, as well as joint dryness and the need for lubrication.

**8. FRAME** - Inspect the frame for signs of damage and/or cracking.

**9. FORKS** - Inspect forks to verify smooth operation and notice any damage, signs of premature wear, or leaks.

**10. MOTOR** - Ensure the motor is operating as per usual and look for signs of wear, hotspots, or unusual sounds.

**11. BATTERY** - Inspect battery for signs of damage or

unusual heat, smells or bulging that might indicate battery failure.



# STARTING & OPERATING PROCEDURES

## 05

It's important to understand the functionality as well as the limitations of your Billy ebike to ensure you continue to enjoy the riding experience it provides for many years to come.



UNDERSTANDING THE OPERATING PROCEDURES OF YOUR EBIKE WILL HELP MINIMIZE THE POTENTIAL RISK OF INJURY.

**1. MAXIMUM RIDER WEIGHT** - The maximum rider weight of your Billy ebike is 300lbs, or 136kgs. Riding with a weight larger than this may cause the ebike components to fail and may lead to serious injury.

**2. SPEED SENSOR** - Your Billy ebike's motor and controller are designed to provide you assistance as you pedal. Once you begin pedalling, the system senses rotations in the crank, in-turn switching on the hub motor to propel you further. Once you stop pedalling the system senses this, and cuts off power to the motor. The amount of power the motor is 'told' to output and the corresponding top speed is dictated by the PAS level selected.

**3. THROTTLE (USA)** - Just like a motorcycle's throttle, the amount you twist your ebike's throttle dictates the amount of 'power' sent to your ebike's hub motor. This is predetermined by the PAS level selected, but all things remaining equal, a small twist of only a few degrees of the wrist sends the system the signal that you

only want to propel along slowly, and a full twist - all the way through until the twist throttle can twist no more - tells the system that you want to send as much power to the motor as possible and that you want to go as fast as possible NOW.

**4. PEDAL ASSIST (PAS)** - The level of PAS you set dictates the amount of power and speed that will be achieved whether you're wanting assistance as you pedal, or when you twist the throttle. Your Billy ebike comes with 5 programmed levels of PAS, with 0 being no assistance and 5 being the most assistance possible. The levels in between 0 and 5 are incremental levels of speed and power.

After you have powered on the bike and display, simply press the Up and Down buttons to affect the level of PAS.



**5. EXTENDING BATTERY LIFE** - The following tips can help extend your range and overall battery life:

+ Where possible, assist the motor by pedalling. Particularly when climbing hills or accelerating from standstill.

+ Avoid excessive overloading of the motor through constant full throttle use, or large weight load. This will lead to over heating and potential damage of internal components.

+ Reduce power output particularly when climbing hills by dropping the PAS to 1 or 2.

+ Cycle the battery from full to empty to full periodically.

+ Avoid storing your bike with the battery at full charge. Ideally, batteries should be stored at 40%-50% charge to maximize battery life. The battery will discharge slowly when stored, requiring charge from time to time.

+ Never leave your battery empty.

+ Accelerate slowly by starting in a low PAS and switching up as you pedal along.

+ Avoid constant stopping and starting, instead try to maintain a constant pace.

+ Avoid operating your ebike in extreme temperature environments such as snowy or heatwaves.



**6. PARKING & STORAGE** - The following tips can help you when parking and storing your Billy ebike:

+ Switch off the bike when pushing it to avoid accidental acceleration from the motor.

+ Use a reputable lock to reduce the chance of theft, and fold your bike, so that your bike lock can thread through both wheels and as well as the frame.

+ Remove your battery to aid maneuverability and to lighten the total weight of the bike. It also prevents anyone from tampering with it while stored.

+ Time spent parked outdoors and exposed to the elements should be followed by time in a dry location to minimize the risk of corrosion and waterlogging. Much like a regular bike, use in wet conditions mandates a more regular maintenance schedule to ensure your bike does not become corroded and to ensure all systems are always working safely.

+ Ensure any racks used to secure or transport your Billy ebike are capable of supporting an ebike of such weight and size.

**7. MAINTAINING YOUR BIKE** - The following tips can help you to maintain your bike:

+ Maintenance schedule: It's important that you regularly service and maintain your Billy ebike to ensure it runs in optimal condition and you continue to enjoy riding it for many years to come. If you don't have the mechanical expertise and/tools to regularly maintain your Billy ebike's brakes, drive system, electrics and suspension, we advise you to seek the help of a certified bicycle mechanic.

+ Cleaning your Billy: It's important to regularly clean your Billy ebike to maintain its upkeep and prevent it from corrosion. Don't blast it from close distance using high pressure water, instead use a damp cloth to wipe off dirt and debris. Once clean, lubricate joints, connections and general metallic surfaces to minimize the chances of rust and corrosion.



ENKI CYCLES SHALL NOT BE HELD RESPONSIBLE FOR THE THEFT OR DAMAGE OF YOUR BIKE.



# WARRANTY

# 06

Your Billy ebike has been primarily designed for flat, paved roads. You should therefore never ride on stairs, jump or perform wheelies or similar activities.

Billy ebikes are not approved for participation in competitions.

Commercial use does not form part of the intended use. Operation, maintenance and service instructions described in this manual are part of the intended use.

No liability or warranty shall be accepted if the use of the Billy ebike deviates from this intended use, if safety instructions are not observed, in the event of overloading, or if faults are not properly rectified. Similarly, no liability and warranty shall be accepted in the case of assembly errors, willful intent, accidents, and/or if care and maintenance specifications are not followed. Any modification of the gear transmission ratios and alterations to the electrical system (tuning) voids all claims under warranty and guarantees.

Maximum load capacity is 300 lbs (136 kg).



ANY OR ALL MODIFICATIONS TO ELECTRONICS VOIDS ALL CLAIMS TO WARRANTY.

## WARRANTY

Enki Cycles provides a lifetime warranty for the Billy ebike frame when used under its intended use conditions.

Enki Cycles provides a 90 day warranty for the failure of forks, handlebars, head stems, drive system, kickstand, and electronics, including motor, LCD display, and controllers. These items are not classified as wear and tear items.

**This warranty does not cover any damage or defects resulting from failure to follow instructions in the owner's manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, wear and tear, installation of parts or accessories not originally intended or compatible with the bicycle as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance.**

## WARRANTY EXCLUSIONS

Wear and tear is not covered under warranty. Examples of such wear and tear items include:

- + Cables
- + Hand grips
- + Belts
- + Sprockets
- + Tires and tubes
- + Brake pads and rotors
- + Saddle covers
- + Battery





## BILLY ELECTRIC BIKE

### BIKE NAME:

Billy

### FRAME:

T6061 Aluminum tubing, natural hand-polished finish

### MOTOR:

EUROPE: Bafang G060.250 36V 250W

AUSTRALIA: Bafang G060.250 36V 250W

USA: Bafang G060.500 36V 500W

### COMPONENTS:

Tektro hydraulic brakes

Wellgo folding pedals

Gates CDX Carbon belt drive

20x4 wheels

Vee Tire Co. tires

Front air suspension fork

Rear coil shock

### DISPLAY:

King Meter Nokee

### CONTROLLER:

Speed, mileage

5 levels of pedal assist

### PERFORMANCE:

Autonomy range of up to 65km in optimal conditions  
(weight, terrain, components)

Maximum speed Europe + Australia 25km/h

Maximum speed USA 32km/h

### BATTERY:

Li-Ion based

Integrated BMS (Battery Management System)

Samsung 36V 14AH

Removable

Charge time 4-6 hours

### WEIGHT:

24.5kg



# TORQUE VALUES

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## STANDARD TORQUE SETTINGS

COMPONENT		SIZE	STANDARD TORQUE Nm
HANDLEBAR BOLT	1 BOLT / 2 BOLTS	M5	10-12
		M6	12-15
	4 BOLTS	M4	4-6
		M5	6-8
		M6	8-10
HANDLEBAR EXPANDER		M6	12-15
		M8	15-18
HANDLEBAR STEM AND FORK CLAMP BOLT		M5	8-10
		M6	10-15
		M7	10-18
SADDLE		M6	10-12
		M8	15-18
SEAT POST CLAMP		M4	8-10
		M5	10-12
		M6	12-15
FRONT WHEEL			25-30
REAR WHEEL			40-45



## ENKI CYCLES

### MANUFACTURER:

Enki, LLC

### CONTACT:

Email: [ride@enkicycles.com](mailto:ride@enkicycles.com)

Website: <https://enkicycles.com>

### MARKING ON BIKE:

If your ebike is a pedelec, it will have a CE frame sticker which confirms that it has passed all tests outlined in EN 15194.

### DECLARATION OF CONFORMITY:

This user manual complies with the requirements of EN 15194 and Machinery Directive EC/2006/42.

See the separate Declaration of Conformity insert.





DECLARATION  
OF  
CONFORMITY

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## ENKI CYCLES

According to EC directive 2006/42/EC on machinery (Annex II A)

This declaration relates exclusively to the machinery in the state in which it was placed on the market and excludes components which are added and/or operations carried out sub-sequently by the final user. The declaration is no longer valid if the product is modified.

Herewith, we declare, that your Billy Pedelec complies with all essential requirements of the Machinery Directive 2006/42/EC and Directive 2004/108/EC relating to electromagnetic compatibility.

The following technical standards were used:  
EN 15194:2017 Cycles – Safety Requirements for Electrically power assisted cycles  
EN15194:2009+A1:2011 Cycles-Electrical power cycles –EPAC bicycle

Hayward, April 1st, 2022

Enki, LLC

2512 Mistletoe Drive, Hayward, California, 94545, USA.

<https://enkicycles.com>