

The **Juggernaut** by **biktrix**

Ride **Now**. Ride **More**. Ride **Anywhere**.



- Strength in numbers.** Interested in what the Juggernaut is made of? Go to [Specs](#) to find out.
- Getting started.** Unbox, power up, and take a ride. See [Set up](#) for more details.
- Tips and tricks.** You learn something new every day, might as well be about ebikes today. Find more [Here](#) .
- Stay rolling.** Not all good things must come to an end. See how in [Maintenance](#).
- Be aware.** Have fun without it costing you an arm and a leg. Learn more in [Safety](#).

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Take a Look

Your Juggernaut is a beast of a bike, packed with top of the line components, fat tires, and an attitude that says "take me anywhere."



- **26"x4" Fat Tires:** Kenda puncture resistant tires have a built in ceramic particle layer so you can go off the beaten path with less worry of never getting back on.
- **Tektro Dorado e-Brakes:** The hydraulic disc brakes on the Juggernaut are equipped with e-cutoffs. This means the brakes not only stop the wheels but also cuts off the power to the motor.
- **Interactive Display:** The interactive display shows realtime speed, top speed, watts used, time and battery life.
- **Panasonic Battery Cells:** The water proof open concept battery pack allows you to go anywhere while staying secure under lock and key.
- **1000W Mid Motor:** By using the 9 speed Shimano gears as its transmission the Juggernaut is more efficient and powerful than ever.

The Specs

Together each component makes the Juggernaut what it is today. A collection of top of the line tools compiled to provide you with the ultimate riding experience in all weather and terrain.

Frame: Custom designed unisex Aluminum Alloy 6061 T6 frame

Tires: 26"×4.0", puncture resistant K-shield (KENDA)

Rim: Aluminum Alloy twin wall and CNC side wall

Spokes: 13G stainless - black

Brakes: Tektro Hydraulic Dorado disc brakes front and rear

Gears: Shimano 9 Speed Deore

Headset: Waterproof Neco headset

Pedal: Wellgo flat shoe pedal

Chain: Rust resistant chain

Kickstand: Heavy duty Aluminum side kickstand

Saddle: Velo comfort

Seat Post: Aluminum Alloy Zoom

Motor: 48V 500W/750W/1000W Bafang 8fun BBSHD motor with custom firmware

Display: C10 Bafang display

Battery: 48V/52 11.6Ah/14Ah Panasonic Cells - 13S4P configuration

Charger: 100-240V, 50-60Hz, 2A smart charger

Max speed (user programmable): 32 km/hr (US/Canada)

Range:

- Basic pedal assist 50-60km
- Throttle only: 15-20km on flat ground

Load capacity: 125Kg

Getting Started

Set Up

The bike comes almost assembled, but there are a few things you have to do once it's out of the box.

TOOLS

- 5/32" (4mm) hex key
- Additional hex key (included)
- Wrench (included)

STEPS

1. *Install the handlebar.* The bike is packaged with the front fork facing backwards, so turn the fork 180°, making sure to place the motor wires in a free position. Using a 5/32" hex key, loosen the bolts on the handlebar clamp and remove it. Seat the handlebar so that the middle of it is aligned with the middle of the stem, and replace the handlebar clamp back on the stem, bolting it in. Using the additional hex key (included), loosen the bolt on the stem's collar to adjust the tilt of the handlebar.
2. *Mount the front wheel.* In the box with the charger is a quick-release rod that you will need to install in the front wheel. Unscrew the threaded cap and remove the washer and the spring closest to the threaded cap. Push the skewer rod through the left side of the wheel axle (the side with the disc brake rotor). When it pokes through the other side of axle, replace the washer, then the spring (narrow end first), then screw the threaded cap back on, but not all the way. Lift the bike's front fork up and seat it onto the wheel, ensuring that the disc brake rotor is properly seated in the caliper. Tighten the quick-release cap and the quick-release lever.
3. *Install the pedals.* On the end of the pedal thread you'll see an 'L' and 'R' for the left and right pedals. The left and right sides are relative to when you are sitting on the bike. The threads are set up in such a way that both pedals will tighten by moving the wrench (included) toward the front of the bike when the wrench is above the pedal (counter clockwise on the left, clockwise on the right).

4. *Turn the seat around and adjust it.* Like the front fork, the bike is sent with its seat turned around. Disengage the quick-release lever to turn the seat around to face forward, and adjust it to the height you desire.
5. *Turn on the motor.* Press the 'M' button on the handlebar's display. Use the +/- buttons to change the level of assist.
6. *Ride your new Juggernaut off into the sunset.*

NOTE: If you have purchased the optional lights, install the headlight onto the front fork using the bolt that comes with it. Attach the two loose wires on the handlebar to the light. There is no polarity in the wires so it doesn't matter which wire you connect to which terminal. Once the system is on, holding the brakes will turn the light on. To turn the light on permanently, press and hold the '+' button.

Find your way around

As you get onto your Juggernaut for the first time you'll have all the controls at your fingertips.

Thumb Throttle | Throttle Assist Levels | Center Display



The Center Display

All the info you need right where you need it:

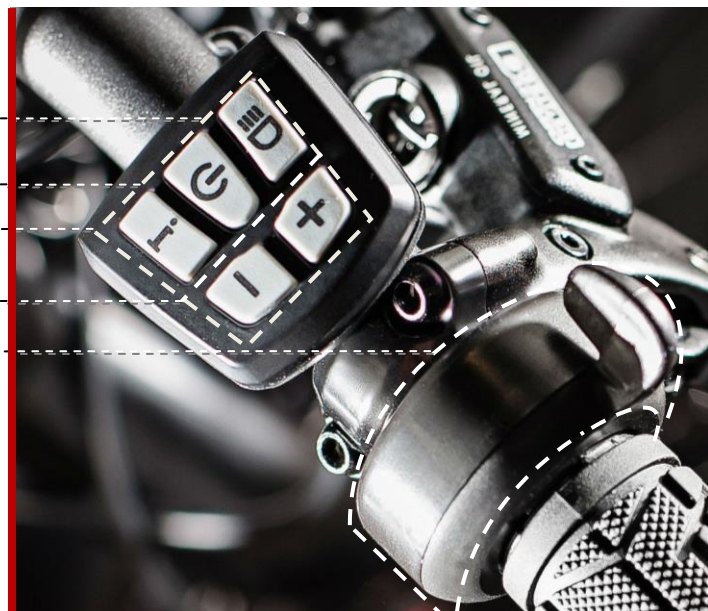


- Headlight Mode
- Battery Level
- Current Speed
- Max Speed
- Assist Level
- Trip Distance

Throttle Assist Levels

Control your power through pedal assist +/- or simply with the thumb throttle.

- Front Headlight Toggle
- System's Power Switch
- Information Toggle
- Assist Level +/-
- Thumb Throttle



Charging

It's easy, but important. Simple uncover the rubber cap from the charging port and plug in the lithium battery charger from any wall outlet. When the battery is charging it will blink **red** and **orange** and when it's done the light will turn **green**.

Charging Tips

- A lithium battery is unlike a normal car battery or AA. When a lithium battery is completely out of charge it is dead forever, therefore lithium batteries never drop below 10%. It's important to keep your battery charged, so if you do leave the bike for an extended period of time it won't ever reach 0% and a brick for a battery.
- These batteries don't have the traditional charging "memory" problem older batteries had. This means that you don't have to wait for your battery to be dead to charge it fully, just charge it whenever you can at any level.
- Don't put the battery near fire or other combustibles or it may catch on fire too ;)

Your Battery

Made up of 52(48V batteries) and 56(52V batteries) lithium Panasonic battery cells conveniently packed in a water proof and secure enclosure. You can unlock and remove it for easy storage or switching out, once new battery technologies are available.

Battery Level Indicator

Press the center button and the LED's show the charge level.

Driving Range

Depending on your battery type, driving habits and terrain range from 20-50 miles per charge.



Tips and Tricks

How to Improve your Range:

1. *Keep your battery charged:* your bike's battery has no "memory" when it comes to how it's charged, so remember to charge it whenever you have a moment.
2. *Pedal harder:* although it may not feel like much, pedaling can mean the difference between 15 km of range and 45 km
3. *Riding slow:* wind resistance at high speeds can seriously slow you down. Traveling at a slower speed and remaining in more of tucked position will limit your losses.
4. *A second Battery:* Bringing an extra battery with you or having one ready for you to go where ever you are heading can quickly increase your driving range without having to wait for a charge.
5. *Second charger:* keeping a second charger at work for example can double your daily range by allowing you to use a full charge one way.
6. *Tire Pressure Up:* By having your tires at their recommend level you'll reduce rolling resistance and increase your efficiency, but by lowering your tire psi you can get a softer smoother ride with your fat tires.
7. *Oil your chain:* Keeping it lubricated will increase its efficiency and reduce losses from friction.

Keep Things Rolling

Maintenance

To keep your juggernaut on the road longer: replace what you break and keep new what you use.