ASSEMBLY MANUAL

CONGRATULATIONS! Thank you for your purchase of an Xtreme Fat Tire Bike. When properly assembled and maintained your new bike will give you many years of riding pleasure. We highly recommend that all bikes are either assembled or checked by a trained professional bicycle mechanic prior to riding. *Xtreme Fat Tire Bikes, its owners, employees and affiliates are not liable in any way for any accident, injury or death that may occur from an improperly assembled bicycle.*

In addition, riders should be fully aware of the unique capabilities of the Xtreme Fat Tire Bike that allows them to ride in all types of terrain and in various conditions, and can pose additional risks to the rider. Riders should take extreme caution to always ride within their skills and refrain from riding in extreme conditions unless you are experienced with the particular riding style and terrain which you are riding on. Just because your bike can handle a certain situation doesn't mean the rider can.

Always use good judgment, wear a properly fitted helmet and protective riding gear, and always be alert to your surroundings. *Xtreme Fat Tire Bikes, its owners, employees and affiliates are not liable in any way for any accident, injury or death caused by the use of any Xtreme Fat Tire Bikes product. The instructions in this manual are designed to provide a general guideline for the assembly of all models of Xtreme Fat Tire E-Bikes.*

You can register your Xtreme Fat Tire Bike online via our website: [www.XtremeFatTireBikes.com](http://www.XtremeFatTireBikes.com). By registering your bike you automatically activate your warranty. The only pieces of information needed to complete the registration are the serial number (located directly under the crank shaft), the model name, frame and wattage size. EXAMPLE: E-Grizzly 19” 1000 Watt.

Your bike will be received with all of the necessary components needed for complete assembly. Note, if for any reason your box arrives with damages to the exterior of the box, please take photographs and document this possible shipping damage. If upon further inspection any damage to the actual e-bike is found, please keep the box and contact us immediately at 757-635-5160.

TOOLS NEEDED FOR ASSEMBLY:

*Snips or scissors to cut zip-tie straps*
Front Wheel / All-Wheel Drive Fat Tire Electric Bikes
for More Power, Better Safety and Control
(757) 635-5160
www.XtremeFatTireBikes.com

*Allen wrenches: 5mm, 4mm and 3mm
*18mm wrench for front axle nuts
*Adjustable wrench to install the pedals (or pedal wrench)

REMOVAL FROM BIKE BOX AND SET-UP:
We are going to begin removing your e-bike from the box. Upon opening your box, you will find the frame with the back wheel already assembled, the front wheel and front fork strapped to the frame, a component box, a battery box, and your battery charger all inside of the box.

For the time being, you can leave the three boxes inside and set up a flat, clean area where you're going to install your e-bike. The easiest way to remove the bike from the box is to grab the bike by the rear wheel rim and the frame, lifting it straight up until it clears the box itself. Lay the bike on the area you had prepared making sure that the front wheel (which is strapped to the side of the frame) is facing UP. Carefully cut the zip ties with snips or scissors and remove the front wheel and set it to the side. We suggest avoid using a knife or razor knife due to possible damage of frame. Once the front wheel has been removed, turn the bike over to free the handlebars and front fork, setting the front fork aside as well.
You can remove the battery box, the component box, and the battery charger box at this time and set the box your bike arrived in to the side.

1) After everything has been removed from the original package, we are now going to begin the installation of your new e-bike. Start out by opening your component box, which should be the second largest box that you received in your package. This is what you will find inside:

- Two Pedals marked Left and Right (top left)
- Stem (Directly to the right of your pedals)
- Seat Post (Right of your Stem)
- One Seat (Directly underneath pedals)
- Handle Bar Controller Pad and Display (Right of Seat)
- Four Steer Spacers, black bottom bearing seat, chrome top bearing seat, steer dust cap, top cap, allen screw, small cap + washer (for top of dust cap), and two bearings
2) The first thing that we're going to install is your front fork and steering system. Locate the black bottom bearing seat and slide onto the fork steering stem, all the way to the bottom of the steering tube. This piece has a slit in it, making it easy to locate. Make sure that the beveled side is facing UP as shown in the picture below.
3) Next, locate the two sealed bearings. They are identical, meaning either one can go on the top or bottom. Notice the 45 degree angle on one side of each flat sealed bearing. When installing the bearings into the steer and headset cup, make sure the angled side faces down on the top, and faces up on the bottom. They slide in rather easy, and the flat side should face up on the top of the headset cup and the bottom should rest flush against the bottom bearing seat which you just placed on the bottom of your fork.

4) Now that your bearings are properly in place, insert your fork into the bottom of the headset cup on the head tube. An important note is to make sure your braking system for the front fork is located on the left side of your frame if you were in a riding position. Locate the chrome upper
bearing seat (only entire chrome piece in your component box) and slide it into the steer so that the beveled side is facing down to match the bevel on the bearing.

5) Locate the steer dust cap and slide it down onto the upper bearing seat and bearing so that the beveled side is facing up, as shown in the picture below.
6) Now locate the four black spacers (each 10mm tall) and slide 3 or 4 (depending on how high you want your handlebars) onto the steer, directly on top of the dust cap.

7) Your stem (or handlebar mount if you aren't familiar with that term), has a slight angle which should be facing up. Center it with the frame of the bike or front fork. Once the stem is placed on the steer and secured, place the top cap (last piece) onto the stem so that the beveled side is facing down. Place the allen bolt into the top cap and tighten with a 5mm allen key to tighten the headset assembly. The last two pieces remaining in that package should be a small black cap and washer, shown in the picture below on the right. Place the washer inside of the cap so it’s snug, and place the small cap on top of the allen nut you just fastened. Note that adjustments can be made after the assembly is completed.
8) Next, it's time to install your handlebars onto your stem. Unfasten the four allen nuts located on the end of your stem (facing away from your frame) and use the lines on your handlebars for an aid in lining them up with your stem. Place the mount onto the handlebars and begin tightening the allen nuts, doing so evenly in an X pattern as shown below to evenly distribute the pressure amongst the handlebars.
9) At this point your fork and handlebar assembly have been completed and it’s time to move into the next stage, installing your front tire. You’re going to need your 18mm wrench. Unfasten the two outside bolts on each side of the wheel. You don't have to take them all of the way off, just enough to slide the axle onto the dropouts. The right side of your tire will have the wire coming out (for your motor connection). Notice how you have a smooth spacer and a lock tab spacer on each side of your axle.

![Smooth Spacer](image1) ![Lock Tab Spacer](image2)

The lock tab spacer should sit outside of the smooth spacer, and should point down towards the bottom of the fork, facing away from the wheel, matching on both sides of the axle. Both of these spacers should sit inside of the fork. Also notice that on the left side of your wheel you have an odd shaped plate, also known as the lock plate. This will sit on the outside of the fork and inside of the outside bolt. As you are now ready to install your wheel, set it in the fork drop out and line your locking plate up with the threaded hole on the fork. Take your allen nut and hand tighten the locking plate, then securing your outside bolts, with 18mm wrench.
10) It's time to install your seat (or saddle) on your new e-bike. Take the seat post and seat which we located in your component box in the beginning. On your frame, you'll see a QR (quick release) seat post clamp. It’s much easier to secure your seat onto the seat post before placing it onto your bike. Take your allen key and unfasten the two allen nuts on your seat post. Place the seat on the bracket which sits on the seat post, then place the other bracket underneath the seat so that it aligns with the rails on the seat. The nuts have square sides, and should fit into their designated holes. Take your allen nuts and fasten the seat into a preferred position, which can always be re-adjusted at a later time. You can now take your seat post and install it onto your bicycle, fastening it with your hands by closing the QR seat post clamp. Notice that there is a minimum assertion line on your seat post, and we highly recommend you abide by that line when setting your seat post for preliminary safety measure.
11) Next thing we're going to install is going to be your display and your controller, which was in a little brown box located inside of your components box. For this, you’re going to need your small 3 mm allen key. Your display is the larger piece with a screen, and your controller is your smaller circular piece with three buttons on it. Start by unfastening the two screws located on the back of the display and placing it centered over the top of your stem head (middle of your handlebars). **NOTE: Do not over tighten these allen nuts due to the possibility of snapping the plastic mounting plate.** Face the screen upwards, place the back brackets in the correct spot, and fasten the display onto your handlebars. When that's finished, unfasten the allen nut bolts on the back of your controller and mount it next to the left grips on the handlebars near the throttle.
12) In your package you found a loose cable which goes to your front brake, which is what we’re going to be installing now. Locate the end of the cable that has the little cylindrical metal piece. Squeeze your front brake (left) and place that gray metal piece into the designated hole on the brake (shown below). Pull the metal cable through the slot in the front of the brake, grab the attached wire and place it into the black metal mechanism located on the brake (also shown below). Make sure the black metal piece is fastened, which you should be able to do with your hands.
The gray metal piece on the end of the wire slides into its designated spot on the brake.

Pull the metal wire through the slot on the brake and black metal mechanism, hand fastening it to the brake itself.

13) Pull the wire down alongside the fork and into the same piece which you found on your front brake on the handlebars. On the back of your Avid BBS Disc Caliper, you should find and allen nut with a metal washer underneath. Unfasten this nut just a little bit, pull your metal wire down through the slot, and fasten the allen nut. You can adjust the tension of your front brake by grabbing a pair of pliers and pulling on this wire to produce more tension.
Run the cable down along the fork into the black metal piece and through its slot.

Pull the wire through the unfastened allen nut and braking system, fastening it back to keep tension. Adjustments can be made by pulling the end of the metal wire with pliers.

14) Last but not least are your pedals which were packaged together in your component box. Locate your pedals and find the L and R which should be marked on each individual pedal. You put your pedals on in a forward motion, and go into the threaded holes in your crank. Start by guiding the pedals in, it’s important not to force them on as they should go on rather easy. Hand tighten them as much as possible, and when you can’t anymore fasten them with an adjustable wrench.
15) Now that everything is installed on your new e-bike, it’s time to tie up the loose ends. All of your cables can be zip tied to the designated areas that run alongside the frame of your bike. You can now inflate your tires as well, as we recommend a PSI of anywhere between 15-20. When inflating your tires, make sure that they are set in your rim when inflating them. Check on them every few pumps to make sure the tire itself is actually set inside of the rim. Make sure your chain is in place as well.

16) You can now plug in the electrical components of your new e-bike. The plugs are color coded and take note of the prongs inside of each adapter. Try to line them up as best as possible before attaching them. These metal receptors can be damaged if they are not aligned properly. You will see a display manual on how to set up your display in this packet. Make sure to read it and follow the directions in order to set up your display properly.

17) You can now take your battery out of the box and install it onto the battery mount located on the bottom center of your frame. Before powering up your e-bike and taking it for a ride, it’s important to re-check the assembly and make sure that everything is properly fastened and secured. Please refer to the Safety Guidelines, Bicycle Maintenance, and Warranty information included in this packet.

Thank You,

Xtreme Fat Tire Bikes and Components, LLC