



# ELECTRIC BICYCLE

## Assembly Guide

Liberty 1.5

## Tool List

- #1 and #2 Phillips Screwdriver
- Metric Combination Wrenches, Size M8, M10, and M15
- Metric Hex (Allen) Wrench, Size M4, M5, M6
- Diagonal Wire Cutters
- Utility Knife

Note: Your e-Moto bicycle comes with a tool kit that contains most every tool needed for assembly. Even though these tools are included, mechanics tools make for an easier assembly and should be used if available.

## Getting Started...

Set out the carton paying attention to the “This Side Up” markings on the box. Next, open both the inner and outer cartons. With the box open you should remove the seat and any other loose accessories laying on top of the bike. With the loose parts removed, lift the bike out of the carton and rest it on the floor. Check the bottom of the box for any other remaining accessories. Accessories included in the box are:

- Battery Charger
  - Seat
  - Fenders
- Owners Manual
  - Tool Kit
- Basket, Basket Stay, Hardware Kit
  - Lock Chain
- Warranty Registration Card

*If anything is missing from the carton contact e-Moto immediately at 888-443-6686 for a replacement.*

## Remove the Packing...

With the bike sitting on the ground, begin to carefully remove the packing material on the bike-- and separate the parts bound to the bike with wire ties. When removing the packing material use diagonal wire cutters instead of a knife to prevent scratching of the frame.

# Installing the Handlebar



Remove the protective plastic cap from the end of the handle bar assembly, and insert the two pieces at the end of the stem into the headset bearing as shown above. There is a maximum installed height etched into the stem- pick a height within the allowed range and tighten the jam nut using your M6 hex wrench. Install the Seat.

If you do not have a bicycle assembly stand, at this point you can turn the bike upside down so that it rests on the seat and handlebar. If you do have a stand, mount the bike now.



## Installing the Fender



Remove the bolt and lock nut from the front forks using 2 M10 wrenches. Pay close attention to the installation order of the bushings. Find and remove the packing from the Front Fender.

Reinstall the bolt into the front fork, with on bushing on the front with the curved side facing the fork. On the rear, instal the remaining bushing, curved side toward the fork, then instal the fender bracket. Tighten.



# Installing the Front Wheel



Next, remove the nuts and washers from the front wheel axle. There should be a nut, one flat washer, and one keyed washer per side. You will also need to find the black metal stay for the basket to complete this step.

Insert the axle into the slots on the bottom of the fork. First, install the keyed washer so that the hooked end faces in, toward the fork, and rests in the small hole above the axle slots, as shown below.



# Installing the Front Wheel



Next, slide the basket stay onto the axle on both sides.

On the outside of the axle stay, add the chrome fender stay to the axle.



# Installing the Front Wheel



With both stays installed, add the flat washers to the axles.

Finally, install and tighten the axle nut.



**Note:**

**Pay close attention to the following segment about brake adjustments. A well functioning brake is critical to the safe operation of your new electric bike.**

**The directions in this manual are also applicable to brake adjustments for future bike tune ups, so be sure to hang on to this manual.**

## Adjusting the Brake



Loosen the M5 hex nut on the right side of the brake, then using your free hand, pinch both brake arms together until there is approximately 2-3mm of gap between the pad and the rim. Tighten the nut into this position, verify the gaps, then squeeze the brake handle and check the feel of the brakes.

Repeat this process until you have affirmative brake feel, and the handle is tight.



## Adjusting the Brake



Once good brake feel has been adjusted, use your #1 screwdriver to adjust the small black screw shown above. This will allow you to adjust one pad independent of the other to set spring tension on both sides and to prevent brake squeal. Once there is a 2-3mm balanced pull, check the feel of the brake handle again, and turn the wheel to make sure it spins freely.

Finally, tuck the loose wire end to the cleat on the brake arm, as shown below.



## Installing the Basket



Locate the hardware kit for installing the front basket. Included should be 4 Phillips machine screws, 4 Nuts, 4 Washers, one flat bracket, one channeled bracket.

Next, pivot the previously installed fender stay up and into position above the front fender, as shown below.



# Installing the Basket



First, install the lower stay bracket.

Align the channel in the bracket with the round stay mounted on the bike. Then install with 2 screws and 2 washers. The bracket itself is threaded so there is no need for nuts.



## Installing the Basket



Locate the remaining flat bracket from the fastener kit. Using two screws, with washers installed, inset attach the assembly through the back of the basket onto the stay mounted on the headset bearing.

Finally, tighten the screws using the remaining nuts from the fastener kit.



# Installing the Pedals



Before applying a final torque to the basket fasteners, ensure it is aligned properly with the bike.

Next, look at the threaded ends of each pedal. The end will be stamped with either a 'L' for left or a 'R' for right. Thread the pedals on to the correct arm, and tighten with a M15 wrench. **Note:** The left pedal is reverse threaded. It will tighten in the opposite direction from the right side.





Inflate both the front and rear tires to 45psi. All e-Moto electric bicycles have self sealing tubes, so use caution to clean any residue from the self-sealing compound from around the valve stem.

Finally, install the rubber plugs and caps on the front and rear axles, as well as the dust plug in the stem, as shown below.





### **Before you ride your new e-Moto Electric Bicycle...**

It is imperative for the long life of your new e-Moto bike battery that it be charged before it is ever ridden. The first charge after your bike is unpacked may take as long as 8-hours, while subsequent charges will take approximately 4-hours.

Finally, be sure to completely fill out and return your warranty registration card to e-Moto. The VIN number for your bike is stamped into the frame, just below the headset bearing and above the e-Moto logo. (See the photo above)

If you have any questions about this guide or your e-Moto electric bike, contact e-Moto immediately.



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