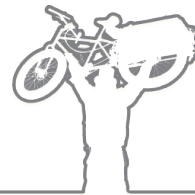


# XTRACYCLE

..... EdgeRunner eSwoop/eClassic ASSEMBLY MANUAL .....  
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This guide is designed to help you assemble an EdgeRunner eSwoop or eClassic as efficiently as possible. Please follow the assembly instructions in order. This guide covers most common accessory variations, with notes on common problems and troubleshooting. While thorough, this guide is not exhaustive - you should already be familiar with all bike component installation and adjustment procedures. If you are not, please refer to the component documentation to ensure correct installation and adjustment.

## **A note to the builder, before diving in:**

As longtail cargo bike pioneers, we do things differently. This bike has unusual rear wheel dish, steer tube length and rider fit (not to mention all of our custom accessories).

1. **Asymmetrical rear wheel dish.** We redesigned our dropouts to create better chain/derailleur/tire clearance which "shifted" the rear axle toward the drive side. The rear wheel is then dished back toward the non-drive side. The result is a stronger load-bearing wheel that keeps the derailleur and chain clear of the tire.
2. **We like our steer tubes long.** Unlike traditional road and mountain bikes, cargo bikes benefit from a much more upright riding position. While it is always an option to cut down the steer tube, we recommend letting the customer ride it for a while before making the decision to shorten it. If you choose to cut the steer tube short, check to be sure that any stem-mounted lights will clear the PorterRack, if applicable.
3. **Help select stem/post kit for optimal rider fit.** You should find the stem and seatpost kit ordered with this bike. Many shops will stock all three sizes so that the rider(s) can be best accommodated. This is important when sharing the bike between differently sized riders (i.e. families or demo bikes) and is a surprisingly effective way to customize fit on upright bikes. See our site for additional guidance.

### **Warning:**

***We require the use of wheel protection like EdgeRunner WheelSkirts or Xtracycle bags for carrying passengers or cargo; we ask that you help educate your riders on this.***

# XTRACYCLE



IN THE BOX

## Included

You'll receive the eSwoop or eClassic in a large box and may receive additional boxes if you order many accessories.

The following items will be installed on the ebike: all bicycle components other than those listed below, Xtracycle Tail Piece, RackLocks, V-Racks, FlightDeck, and all Bosch components including battery.

The following items will be included in the box and will not be installed on the bike: pedals, headset, headset spacers, seatpost, stem, handlebars (with brake levers, shifters and Bosch Purion display already mounted), front brake caliper, chain, handlebar stabilizer, fork, front wheel, front brake rotor, front and rear e-bike specific lights, remaining FlightDeck bolts (4), reflectors, and any additional ordered accessories.

# STEP 1

## Unboxing the eSwoop or eClassic



- Open the box
- Remove the accessory box from the back of the bike.
- Lift the bike out (team lift recommended) and set it upright on the floor.
- Pull the seatpost out from the sizing kit, grease the seat tube and insert the seatpost to the minimum insert line. Torque the seatpost collar bolt to 5nM.



- Fold the corner of the cardboard block closest to the seat post back and out of the way, to make room for the clamp.
- Lift the bike into the stand (team lift recommended) and clamp it by the seat post.

## STEP 2

### Remove the Fork and Front Wheel



2A  
Remove the fork from above the rear wheel - this does not require removing the deck.



2B  
Both the front wheel and the handlebars are attached to the thick, protective cardboard "front wheel block." Remove the bars first and zip tie them to the top tube to avoid damaging the hoses or derailleur cables. Then remove the block and front wheel.

### Remove the Packaging



3  
Starting from the back of the bike, remove the packaging.

## STEP 3

# STEP 4

## Install the Fork



4A

Find the headset and spacers in the included small parts box, and then the stem and seatpost.



4B

The headset includes a thin rubber seal that sits on the lip of the crown race. Install this first, then the lower bearing (the lower bearing is larger than the upper). Grease liberally.



4C

Slide the steerer tube up through the headtube, taking care to make sure the hoses and housing are routed correctly.



**Pro tip:** Zip-tie or toe-strap the fork to the down-tube to assist during stem/headset assembly.

**Note:** The cable housing and hoses are routed past the head tube on the same side as they come up the down tube - don't cross them under the downtube!

# STEP 5

## Assemble Headset & Install Stem

5A



Slide on the upper bearing, top race, split bushing, bearing cap, spacers, and the stem.

5B



Install the stem cap and bolt to hold things in place, but do not adjust at this point.



## STEP 6

### Install Handlebar



- Remove the faceplate with integrated light mount from the stem, and install the handlebars so that the ends of the bars will lie parallel to the ground. Torque the stem faceplate bolts to 6nM.
- Angle the shifter/brake lever down 45 degrees.

## STEP 7

### Adjust the Headset



Tension the headset bolt to adjust the headset. You may now release the zip-tie or toe-strap that was holding the fork.



7B



Tighten the stem clamp bolts to 6nM to lock in the adjustment.

## Install the Front Light

# STEP 8

8



Attach the bracket to the mounting eyelets on the stem using the included nut, bolt and washers. If curved washers were included, point the concave sides towards the stem's eyelet.

Tighten this bolt enough that the light will stay in place if the front end of the bike is bounced on the ground.

Splice or plug in the connectors as instructed.




**Note:** It is possible to flip the stem's faceplate to lift the light above cargo on the PorterRack.

## STEP 9

### Bolt Brakes to Fork

9



The front brake and its bolts are attached to the handlebars - bolt the brake to the fork per the included Shimano instructions, but do not torque it down yet.

## STEP 10

### Install the Rotor

10



The 180mm front rotor is in the accessory box - attach it to the front wheel using a 16-notch external bottom bracket tool to tighten the center lock nut.

# STEP 11

## Install Front Wheel & Adjust the Front Brake



11A  
Remove cardboard from thru-axle. Install the front wheel, and secure the thru-axle.



11B  
Now adjust the front brake.

# STEP 12

## Adjust the Rear Brake



12

## STEP 13

### Install the Chain

13

Two silver metal KMC Missing Links are shown against a white background. One link is oriented vertically, and the other is oriented horizontally, showing its internal structure and pins.

Use the provided KMC Missing Link. Do not resize the chain. It is 162 links on purpose; this will provide the best possible performance.

## STEP 14

### Adjust the Derailleurs

14

A close-up photograph of the rear derailleur on a bicycle. A red arrow points to a grey plastic lever on the derailleur, which is the rear clutch. The bicycle frame is teal, and the rear wheel has a black tire with 'SCHWABE' and 'BIG BEAT' visible on the sidewall.

Remember to engage the rear clutch (a grey plastic lever located on the derailleur itself) for better performance.

\* **Timing:** If you are installing U-Tubes, now is a good time to do it - refer to the U-Tube documentation, found on the Xtracycle Support page, for details.

## STEP 15

### Check RackLocks & V-Racks



Make sure the RackLocks and V-Racks are seated correctly: The racks should be fully inserted into the uprights and the RackLocks should be pushed all the way down on the uprights and the outer clamp should fully cover the inner collar. Torque all bolts to 5nM.

## STEP 16

### Check Tailpiece Bolts



Make sure the tailpiece bolts are tight, use a wrench on the backing nut to keep it from spinning. Torque to 6nm.

## Installing the WheelSkirts

(skip this step if installing bags instead of WheelSkirts)

17a



Tighten them enough to keep anything from pushing into the wheel - you may need to loosen the bolts holding the deck on to slip the straps between the deck and V-Racks.

17b



On the lower straps, make sure not to wrap straps around the derailleur cable.

\* **Timing:** Install bags (CargoBays, CarryAlls, etc.) now if applicable - refer to the bags' installation instructions for specifics.

## STEP 18

### Loosen the WeddingRings



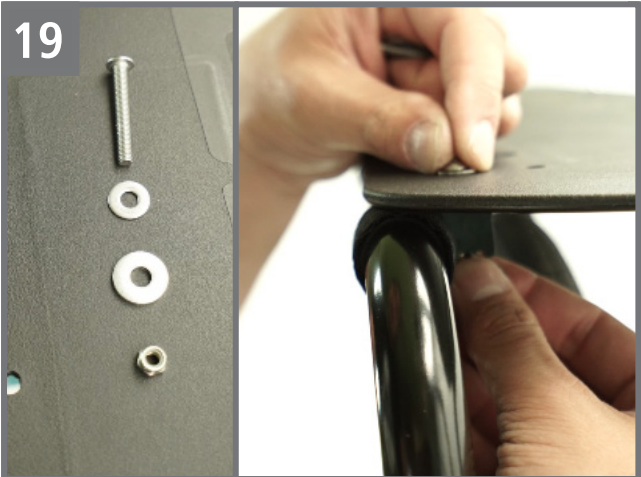
18

Take some tension off of the WeddingRings to make finishing the deck installation and installing other accessories easier.

\* **Timing:** This is the best time to install a Hooptie, Yepp Adapter and/or MagicCarpet - refer to our documentation, found on the Xtracycle Support page, for details.

## STEP 19

### Bolt Down the FlightDeck



19

Secure the deck by tightening the four bolts already in the deck and installing the four long bolts and nylock nuts provided into the empty bosses on the V-Rack - two in the front and two in the rear (you may have completed this second part during Hooptie installation). If you are having a hard time aligning the holes in the FlightDeck and V-Racks, you may need to further loosen the WeddingRings.

**Note:** The larger, thicker washer goes between the FlightDeck and the V-Rack.

## STEP 20

### Adjust the WeddingRings



20 Finally, apply some blue loctite to the threads of the WeddingRings, and tighten them to a more harmonious union - take out the slack, then add a full turn for tension.

## STEP 21

### Install Handlebar Stabilizer



21a Use pliers to thread the spring.



21b Install protective cover over stabilizer spring.


\* **Timing:** This is the best time to install a PorterRack or KickBack3.



# STEP 22

## Finishing Touches

22

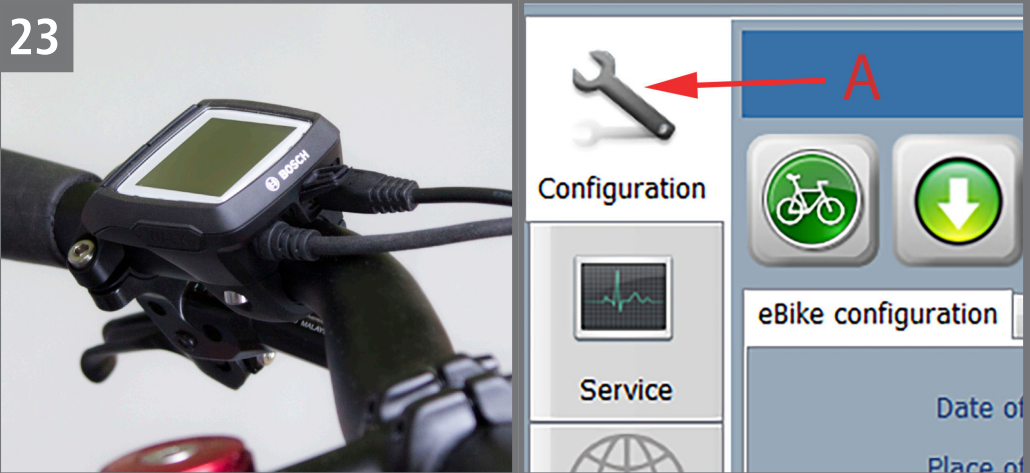


- Install the reflectors.
- Air up the tires.
- Install any third party accessories (bells, etc)
- Install the pedals and seat.

# STEP 23

## Flash Bosch Components

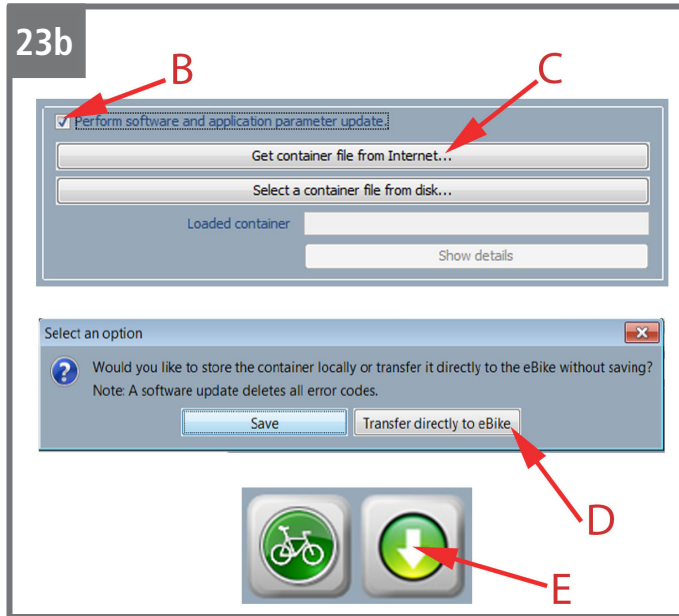
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- Plug the Purion display into your PC with a USB micro cable.
- Plug your Bosch dealer dongle into the same machine.
- Launch the Bosch eBike Diagnostic Software
- Click on the wrench (configuration) icon on the left side of the Diagnostic Software. (A)

# STEP 23 CONT.

## Flash Bosch Components



- Check the “Update software and application parameters” box on the right side of the screen. (B)
- Click on the “Get container file from Internet. . .” (C) button, then select “Transfer directly to eBike”. (D)
- Click on the icon that looks like a white arrow on a green circle. (E)
- When finished, the status readout should change to “Programming successfully completed”.
- Hit done, exit the software, unplug the bicycle.
- Detailed instructions and troubleshooting tips are available on Bosch’s inside site for certified dealers.

# STEP 24

## Ride!

Get out there and ride!



# XTRACYCLE

