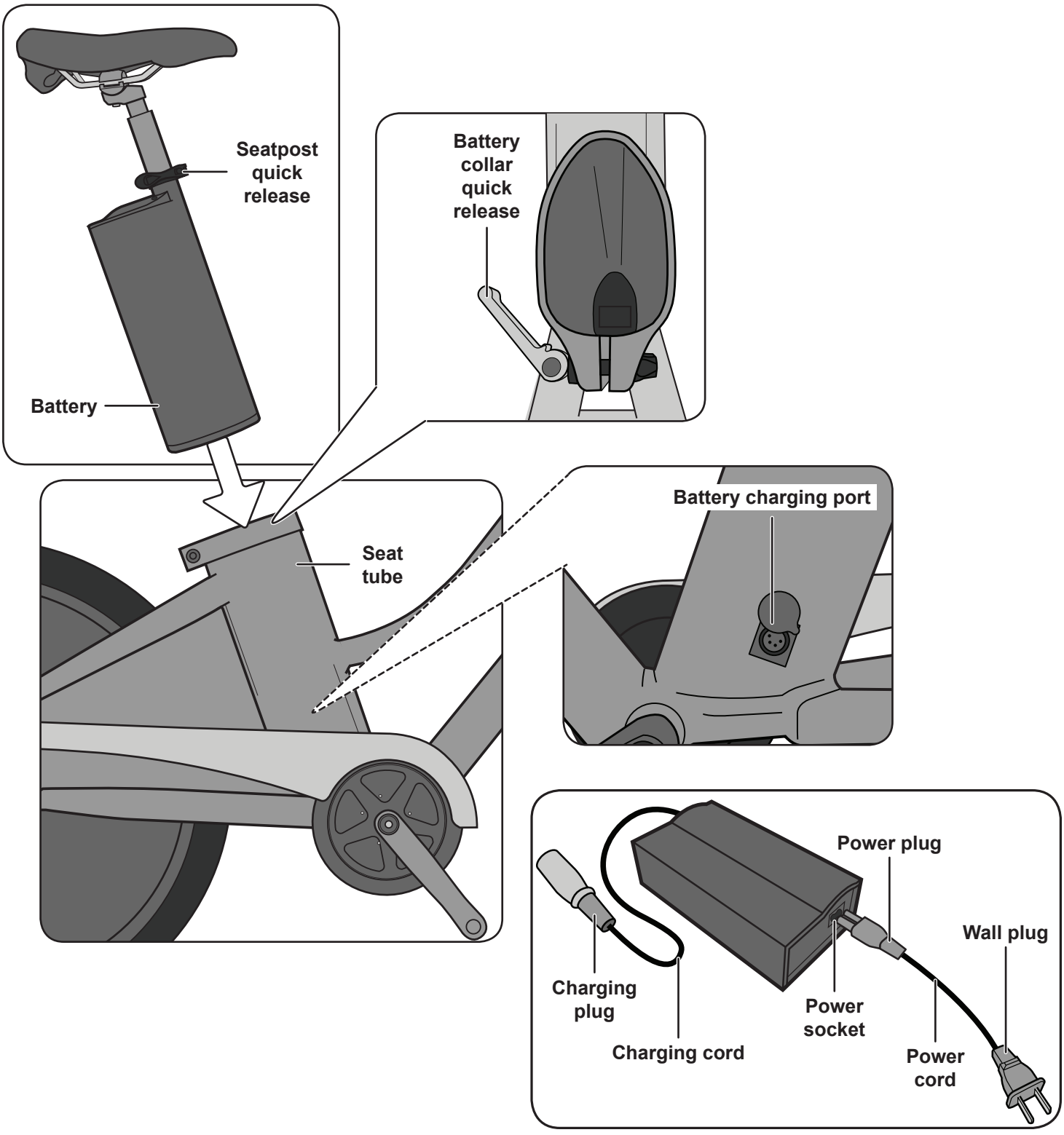
System Operation Manual

E3 Zuma, Drifter EXC, DellaCruz EXC

This manual is meant to be read together with the owner's manual, also included with your bicycle. The owner's manual contains important safety and use information about your bicycle. Be sure to read both manuals before riding for the first time, or performing any assembly. If you did not receive an owner's manual, the most recent version can always be found online at www.CurrieTech.com.

Electrical System Components



General information

USE RESTRICTIONS	
Intended Use[1]	Condition 2 (General purpose riding)
Minimum rider age	16 years
Maximum permissible weight[2]	110 Kg (242 lbs)

1. This bicycle is intended to be used under the guidelines of the stated condition, found in the intended use section of your IZIP owner's manual. Be sure to read this section of the owner's manual for more information.

2. Maximum permissible weight includes the weight of the rider (plus clothing, riding gear, etc), the weight of any added accessories, and any cargo being carried.

TECHNICAL SPECIFICATIONS	
Motor	
Type	Rear hub drive
Rated power	500W
Peak torque	40 Nm
Battery	
Voltage	48V nominal
Capacity	8.7Ah
Energy	417Wh
Cycle life (expected)	~700
Charger	
Input voltage	110-240V AC (auto-sensing)
Frequency	50/60Hz
Input current	2.5A maximum
Charging voltage	54V DC (48V nominal)
Charging current	4.0A
Full charge duration	4–6 hours
Ride performance	
Top assisted speed	32 km/h (20 mph)
Range (expected)[1]	25-30 miles
Control type	Throttle/pedal assist. Cadence sensor, speed sensor.

1. With normal pedaling; Contingent on terrain, rider weight, riding style, and other factors.

Basics

IMPORTANT: The owner's manual included with your bike contains most of the important safety and usage information about this bike, which is not included in this system operation manual. Be sure to read the owner's manual before you begin riding or working on your bike.

Battery charging

The battery is shipped 20% charged and in a deep sleep mode as a precautionary measure for safe transportation. The battery will not turn on until it is charged.

To wake up the battery, simply plug in the charger even just for a few seconds. We recommend you take the time to bring them to full charge before riding for the first time, for maximum enjoyment, following the instructions below. Be sure to check Appendix D in your owner's manual, as well as the section discussing "Battery care & safety" for additional information.

Charging procedure

Connect the power cord to the battery charger. Plug the charging plug into the battery's charging port, then plug the wall plug into a wall outlet.

The charger should always be plugged first into the battery, then into the wall outlet.

Charging will begin immediately. The charger's LED indicator will light up to show its status.

LED	STATUS
Amber	Charging
Green (flashing)	Battery is 80% full and being topped off.
Green	Charging complete
Red (flashing)	Charging error; see Appendix D in your owner's manual for more information.

The battery can either be charged on the bicycle using the charging port on the seat tube, or off the bicycle using the offboard charging adapter included with the charger.

If the battery is attached to the bicycle, and the bicycle is turned on, the battery level indicator on the bike's display will show the current charge level.

The battery does not have a "memory". This means that it can be charged at any time, or partially charged, without causing damage or decreasing performance.

Charge time

The amount of time needed to charge the battery varies based on the battery's charge level. A completely empty battery will take between 4 and 6 hours to charge. A battery at 50% may only need 2–3 hours to come to a full charge.

Checking the battery's charge level

Before riding, you should check the battery's charge level. If the battery is not fully charged, riding range will be reduced.

To check the battery's charge level, first install the battery in the bike, then turn the bike on. The battery level indicator on the display will show the battery's charge level.

Each light represents about 20 % capacity:

LIGHTS	BATTERY CHARGE
(1 flashing)	<5%
1	≤5 – 20%
2	~21– 40%
3	~41 – 60%
4	~61 – 80%
5	~81 – 100%

Using the battery

Installing the battery

First, open the battery collar quick release. Orient the battery so the seat post is towards the front of the bike, then push the battery into the bike's seat tube until it bottoms out. Close the quick release securely to lock the battery in place.

To adjust saddle height, use the seatpost quick release. Don't raise the battery to change saddle height; the battery needs to be bottomed out in the frame at all times to maintain electrical contact.

Removing the battery

To remove the battery, first open the battery collar quick release lever, then pull the battery straight up and out of the bike.

Riding and use

Be sure to read the “Electric Bikes” section of your owner’s manual, and specifically pay attention to the section on “Riding an electric bike”, before you ride for the first time.

Getting ready to ride

First turn the bike on, following the instructions in this section.

Mount the bicycle. Be sure you don’t accidentally twist the throttle, or turn the pedals; this could cause the bike to accelerate unexpectedly.

Riding the bike

Using the motor

The purpose of the hub motor is to gently augment the effort you put into riding.

There are two assist modes, which offer different ways to control the motor: Twist-And-Go (TAG) and Pedal Assist (PAS). See below and also check the illustration for more information on changing between modes.

PAS (Pedal Assist) mode

In PAS mode, the motor will assist you as soon as you begin pedaling the bike. You can choose how much assist the motor gives by setting the assist level. If you do not pedal, no power is sent to the motor. Ceasing pedaling during the ride will cause the motor to turn off. Motor power will be restarted when the rider begins pedaling again.

Assist levels control *how much* power the motor will add to your pedaling. In PAS mode, the assist level is shown on the display, and can be changed at any time using the MODE button. Levels 1–4 are increasing levels of automatic motor assist. Level 1 gives the least assistance; level 4 gives the most. Overall range decreases as assist increases.

The throttle can be used to override the automatic assist, as long as the rider is pedaling. The throttle is never affected by assist level; using the throttle, you always have control of up to 100% of the motor’s power.

TAG (Twist And Go) mode

In TAG mode, automatic motor assist is disabled, and the throttle alone is used to control the level of assistance; power is available whether you pedal or not, and there are no assist levels. You can still adjust the assist level, but it will only affect the bike when you are in PAS mode.

Using the display and control pad

Press the Power button to turn on the bicycle

Hold it down for ~ 2 seconds. The display will light up and stay lit indicating that the bike is ready to ride.

The ‘Battery’ icon indicates remaining charge

The battery gauge provides five indications of battery level. The battery pack reports state-of-charge (SoC) information to the controller and the meter box uses this information to display very accurate battery charge information.

When the battery is depleted to the point of automatic shutoff, the lowest gauge light will blink indicating the need to recharge immediately. Of course, the bicycle can still be ridden with the system turned off.

The Plus and Minus buttons have several functions and will show 0, 1, 2, 3, 4

You can change these settings at any time. The new number will flash on the display briefly before reverting back to speed (the default setting).

PAS mode: Assist levels 1, 2, 3, 4 will amplify your pedaling. The bigger the number, the more boost (and speed). Add throttle as needed for extra momentary acceleration, up to top speed, on any of these settings.

PAS mode: Assist level 0 is a throttle only mode without any need for pedaling

Light function: If lights are installed, a separate purchase and installation, they can be turned on or off at any time by holding the minus button for ~2 seconds

CONTROL PAD LAYOUT	
A	Power *(hold 2 seconds)*
B	Pedal assist level *(increase)*
C	Pedal assist level *(decrease)* *- also these functions:* Throttle only *(TAG mode)* *- select level 0* Turn on/off lights *(if installed)* *- hold ~2 seconds*
D	Battery gauge
E	Speed *(default)*
F	Assist level *(shows after pushing +/- buttons for ~1 second, then defaults back to speed again*