eFLOW

LAST MILE MADE EASY

3.0

OPERATING MANUAL

CRAZY LENNYS

OFFICIAL RESELLER IN USA

crazylennysebikes.com

Class 3.0

Congratulations on your new bike from crazylennysebikes.com!

You're about to embark on an exciting adventure—an opportunity to experience the thrill of riding one of the finest Speed E-bike electric bicycles available.

Rest assured, your bike was carefully engineered and built using top-quality components with attention to every detail.

Enjoy the ride!

The Crazy Lenny's eBikes Team

OWNER INFORMATION

First and last name .....

Address .....

Zip code .....

City .....

BIKE INFORMATION

Model name .....

Frame number .....

PURCHASE INFORMATION

Date of purchase .....

.....

Seller’s stamp and signature

INDEX

USER MANUAL

WARNING!

Read all instructions in this Manual. Failure to read and follow the instructions and warnings provided in this Manual and by the manufacturer may result in electric shock, fire or a crash resulting in serious personal injury or death.

General Battery Safety and Fire Risks:
E-bikes use an electric drive system, battery, and charger, all of which carry potential electrical and fire hazards. For more detailed guidance, see Battery Safety and Function Pg 10.

Pre-Ride Checks
Make sure your battery is fully charged (Instructions below). Inspect all fasteners for integrity and tightness. Squeeze the brake levers to make sure there is resistance and brake actuation. Check tire inflation pressure and adjust to the value printed on the sidewall. Make sure the lights and bell are fully functional. Adjust the seat height and handlebars for comfortable and efficient riding. If anything seems questionable, check with your selling dealer.

SAFETY WARNING!

Before charging or operating your e-bike, carefully read, understand, and follow all instructions in the Battery Safety section (Starting on Page 10) of this manual. This section includes critical information on safe handling, charging, transportation, storage, and disposal of your e-bike battery. For continued safe use, it is strongly recommended that you review these guidelines regularly. Failure to follow the battery safety instructions may result in fire, serious injury, death, or property damage.

Rules of the Road

Please follow all local traffic rules and regulations. These are always based in common sense. Always ride with traffic, not against. Obey all traffic signs and signals. Don't ride on sidewalks where you may be a hazard to pedestrians or yourself. Always yield to pedestrians. Use the eBike's bell to alert inattentive pedestrians and other cyclists to your presence. Use hand signals to communicate your intentions to drivers and pedestrians around you.

Regulations and Restrictions

Where you may ride an e-bike depends on its type and the laws of your country, region, state, or city. These local regulations may apply to you. It's your responsibility to know and obey these rules and regulations. Failure to do so may result in cost and inconvenience to you.

WARNING!

Do not operate an e-bike if you are too young to ride safely, or if you have medical, physical, or cognitive conditions (including seizures, or impairments related to vision, hearing, speech, or mobility) that could interfere with safe operation. Parents and guardians must review this complete Manual before permitting a minor to ride. If you are uncertain about your ability to ride safely, consult a physician before use.

Use of E-Bikes by Children and Youth

Riding or carrying passengers on an e-bike may involve additional risks for children and youth. Age restrictions vary depending on the type of e-bike and the laws in your country or region. Local regulations may also set requirements such as helmet use.

Safety on the eBike

Wear a helmet at all times. Be extra cautious when riding in wet conditions. Wet brakes take longer to stop, and pavement will be slippery, especially for bike tires. This E-bike is fast. Never rider faster than traffic and road conditions allow. This eFlow e-bike is designed for one rider, and one rider ONLY. More than one person on the bike is dangerous. Never ride while distracted. Safely stop to take a call or exchange a text. Focus on the road and your riding environment and be ready to react to hazardous conditions that can arise in a moment's notice.

Plan a sensible route

If possible, avoid heavily congested roads. Avoid areas of road construction or roads with excessive potholes or loose gravel. Take care when crossing railroad tracks; always cross perpendicular to the tracks so that your tires don't fall into the gap between the rail and the pavement. Take care when riding off-road as trails can become hazardous due to excessive use, inclement weather or severe terrain.

CAUTION:

The eFlow e-bike is a Class 3 e-bike. This means that power output of the e-bike is dependent on throttle application and on your power input. If you don't pedal and only apply the throttle, the motor will propel the bike only to 20 mph. If you use a combination of pedaling and throttle application, the ebike can accelerate up to 28 mph. There is a sophisticated electronic sensor mounted near the pedal cranks that senses and measures your pedaling effort. When the E-bike is turned ON, and an assist level is selected (more on assist levels later), if you turn the pedals the sensor will see your effort and signal the system to actuate the motor and drive the E-bike forward. That means that it's very important for you to be on the bike ready to ride BEFORE you turn the Ebike ON. If the pedals are moved before you are ready to ride, or if the throttle is applied before you are ready to ride, the E-bike can lurch forward potentially injuring you or bystanders and causing damage to the E-bike and its surroundings. So please make sure that you are properly seated on the E-bike and ready to ride before turning the Ebike ON. It's also a good idea to apply and hold a brake lever while you mount and situate yourself on the E-bike. The brake levers incorporate switches that kill power to the drive system when one or both brakes are applied. If you inadvertently mount the Ebike with the power ON, holding a brake lever will prevent the motor from running even if a pedal or the throttle are actuated.

Adjust the Seat Height

This EFLOW E-bike is equipped with a seat post that allows you to easily set the desired saddle height without tools. Simply depress the lever under the saddle and position the saddle to the height that you desire. It's a good idea to check for proper saddle height by mounting the bike (with the power OFF) and checking to see if the saddle is properly adjusted. When properly adjusted, you should have a slight bend in your knee when your foot is on the pedal and the pedal is at its lowest position. Also, you should be able to comfortably support yourself and the E-bike while sitting on the saddle with your feet on the ground. If you find that the saddle height is not correct, dismount the E-bike and readjust the saddle height.

OPERATING
THE EFLOW E-BIKE

CAUTION:

When the power is ON, the pedal rotation sensor AND throttle will be active. Depressing a pedal and/or actuating the throttle will cause the ebike to begin providing propulsive power. If this occurs before the rider is properly situated and ready to ride, a hazardous condition may arise. To prevent this occurrence, apply one or both brake levers and hold the lever(s) until you are ready to start the ride. The brake levers incorporate microswitches that cut power to the motor under all circumstances. Depressing and applying a brake level will prevent untended, unanticipated acceleration of the eBike.

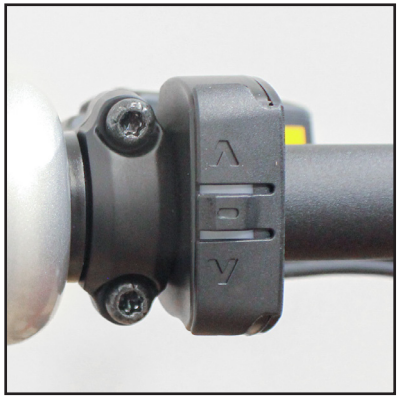
Power (ON / OFF)

The power button is located at the bottom of the down tube:
To turn Class 3.0 on or off, press the power button.

Power ON:
Depress the “ON” button momentarily to turn ON the ebike. A BLUE LED will illuminate to indicate that the power is ON.

Power OFF:
When finished riding, you may turn OFF the eBike by again depressing the ‘ON’ button or simply leave the bike. The power will turn OFF after a brief period on non-use.

DISPLAY, BRAKE AND SHIFTER CONTROLS:



Switch pedal assist level:
Use the Up and Down Arrow Buttons to switch pedal power assist levels.

Pedal Assist level:
The display shows the current pedal-assist level.

DISPLAY

A - Speedometer
B - Pedal assist level
C - Current trip
D - Battery state of charge
E - Odometer

	TOP SPEED	0	ECO	TOUR	SPORT
PEDAL ASSIST	28 MPH	NO ASSIST	33% ASSIST	66% ASSIST	100% ASSIST
THROTTLE	20 MPH	NO POWER	20 MPH	20 MPH	20 MPH

BATTERY PACK SAFETY

There is a lot of energy stored in a Lithium-Ion battery pack, which is why they are well suited for light electric vehicles. But when that energy is released in an uncontrolled fashion, bad things can and do happen. Care must be taken in use, charging, maintenance and storage to ensure that the battery pack provides many miles of troublefree service. While the battery pack itself is not serviceable, it is important to follow these guidelines:

- Use only the charger that is provided with the bike to recharge the battery pack. Use of a charger not supplied for this E-bike battery pack may result in an unsafe condition, may result in an explosion, or fire with potential for property damage and personal injury, and will void the warranty.

- Do not drop the battery pack or otherwise allow severe impact or physical damage to occur. Damage to the battery pack may result in internal short circuits or battery cell damage which may result in an unsafe condition, may result in an explosion or fire with potential for property damage and personal injury, and will void the warranty.

- Consult appropriate authorities regarding regulations associated with transporting or shipping the lithium-ion battery pack.

Do not attempt to use the battery pack if it has been damaged. Dispose of a damaged battery pack through a qualified lithium-ion battery recycling agent. Use of a damaged battery pack may result in an unsafe condition, may result in an explosion or fire with potential for property damage and personal injury.

Battery Pack Caution

- **Never leave the battery unattended while charging, particularly overnight. Disconnect the charger once the battery is fully charged.**
- **Do not charge or store the battery in direct sunlight or outside the temperature range specified by the manufacturer.**
- **Keep the battery away from excessive heat, open flames, and prolonged sun exposure.**
- **There are no user-servicable The battery pack is not serviceable. Do not attempt to open the battery pack.**
- **Opening the battery pack will expose key functional elements of the pack and dramatically increase the likelihood that a short circuit, (or other damage) will happen which will result in an unsafe condition, may result in an explosion or fire with potential for property damage and personal injury, and will void the warranty.**
- **Remove the battery pack from the E-bike any time service is performed on the E-bike, any time the E-bike is transported, and when the E-bike is stored for extended periods.**
- **Store the battery pack in a cool, clean, and dry environment, free from any metallic debris that might short circuit the battery pack terminals. For extended periods, the battery pack state-of-the- charge level should be maintained at 48 to 50 volts. Check the battery pack charge level every 8- to 12-weeks, and recharge, if necessary.**

REMOVAL / INSTALLATION OF THE BATTERY PACK

Removing the Battery Pack:

Step 1:
Unlock the battery pack with the supplied key, holding your hand under the battery pack to prevent it from dropping to the floor, as it is released from the e-bike.

Step 2:
Remove the battery pack by disengaging the lower portion of the pack from the frame.

Installing the Battery Pack:

Step 1: Reverse the Steps above.
Step 2: Remove the key before riding the e-bike.

CHARGING THE BATTERY PACK

There are two ways to charge the battery pack: On-board, or Off-board.

Charging the battery pack On-board:

Step 1:
Open the charger port access cover on left side of the E-bike.

Step 2:
Connect the charger cable to the charge port on the left side of the frame, just to the rear of the head tube. Plug the charger into a wall outlet.

NOTE:

When charging the eFlow E-Bike, always do so in a dry environment, away from external heat source. Never leave the battery pack unattended while connected to the battery charger for extended periods of time or overnight.

CHARGING
THE BATTERY PACK

Charging the battery pack Off-board:

Step 1:
Remove the battery pack from the E-bike.

Step 2:
Connect the charger cable to the charge port on the end of the battery pack. Plug the charger into a wall outlet.

Charging duration:

An empty battery pack will take up to 6-hours to fully charge. 90% capacity can be achieved in approximately 4-hours.

NOTE:

When charging the eFlow E-Bike, always do so in a dry environment, away from external heat source. Never leave the battery pack unattended while connected to the battery charger for extended periods of time or overnight.

BATTERY OPERATION

Warming:

STATUS	FUNCTION
CHARGING MODE	The screen change text to Charging... and can't output function.
LOW BATTERY MODE	SOC < 10%, The bar of SOC color change from black to red.
	SOC < 5%, The bar of SOC color flashes red color.

ERROR CODES SUMMARY

McuSwFaultEvents

ERROR CODE	FAULT STATES	DESCRIPTION	EFFECT
1	Fault_e_EventOverCurrentOCP	Hardware over current protection active.	Stopping output power
3	Fault_e_TrqSensorOutOfRange	Measured torque sensor value exceeds range defined in software ([230Hz..450Hz]).	Stopping output power
5	Fault_e_EventAngleSensor	Angel sensor error detected.	Stopping output power
8	Fault_e_EventUnderVoltage	Battery voltage drop detected (<27V).	Power output continuously reduced depending on battery voltage.
9	Fault_e_MotorBlocked	No motor movement although measuring a current > 2A.	Stopping output power
12	Fault_e_EventOverTemperature	Temperature oversteps the mark of max. allowed temperature value defined with parameter.	Power output continuously reduced depending on temperature.
13	Fault_e_HmiMsgTimeout	HMI CAN message timeout detected.	Stopping output power

PRODUCT SPECIFICATION

MOTOR INFORMATION	MT0O9HCT5F00000 Rated voltage: Rated output power:	Rear wheel drive (hub motor) 48V 250W
BRAKING SYSTEM	Front wheel: Rear wheel:	Hydraulic disc brake Hydraulic disc brake
PERFORMANCE	Maximum speed: Assisted mode: Range:	28 mph (electrically assisted) 5-stage auxiliary (0, 1, 2, 3, 4) 70 miles and above @ Level 1
BATTERY	Type/Model: Rated voltage × capacity:	Lithium battery 48V × 17.5Ah
CHARGER	Input voltage: Output voltage: Output current:	110V–220V 54.6V 3A
TIRE	Size:	26” × 2.15”
FRAME / FORK	Material:	Aluminum alloy
VEHICLE WEIGHT	Batteries included	58 lbs
LOAD CAPACITY	Maximum load capscity	≤ 300 lbs

MY NOTES:

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