

ELECTRIC BICYCLE USER MANUAL



Read Carefully Before Use
Keep for Future Reference

Safety Information

Warning!

- Install and adjust this bicycle **ONLY** in accordance with these instructions. Read them completely prior to installation and use. Contact customer service if any point is unclear.
- **ALWAYS** obey all applicable local and national laws and regulations while riding. Do not ride this bicycle in any area prohibited to electric bicycles. Always wear your helmet and other required protective gear. Always maintain your reflectors and other required safety equipment.
- Check whether the brakes function well using the brake levers before riding. Even after power is cut to the motorized wheel, the inertia of the bike will often require active braking power.
- **ALWAYS** ensure all fasteners and components are intact and securely tightened before and after every use.
- **DO NOT** ride this bicycle if any part is damaged or malfunctions. Repair or replace worn and broken parts before further use.
- Pay attention to the remaining power before setting out and during use. Recharge your battery as needed to ensure it never runs out of power at a moment where you are taken by surprise.
- **DO NOT** allow children or persons unfamiliar with these instructions to operate this bicycle without strict supervision.
- **DO NOT** wear loose footwear or clothing that may become caught in the wheels or any other moving parts.
- It is recommended that you not ride your bike fast when getting started. This can be ensured by setting the bike's maximum speed limit low until you are fully familiar with your new electric bike and its controls.
- **ALWAYS** be alert for people, animals, or any obstacles that may appear in front of you while riding your bicycle. Be aware that pedestrians and drivers may not expect the speed or responsiveness of your bike. Adjust your behavior accordingly. It is advisable to install warning devices to draw their attention, but always be ready to turn safely out of their way if needed. Do not focus on the LED display panel for extended periods of time while riding.
- **NEVER** ride at a speed where your stopping distance exceeds your visibility. We do not recommend that you ride your bicycle at night or in an environment with poor visibility. If you have an emergency that makes it necessary to do so, keep your light on and limit your speed appropriately.
- **DO NOT** get the battery, its charger, or its power cord wet or operate them with wet hands.
- **NEVER** use the pedal or push assist system in any situation, road condition, or terrain where doing so might impair your control of your bicycle.
- **NEVER** adjust LD, VOL, CUr, PRS, or SPS on the LED display panel. Adjustment of these parameters should only be made when using the display with other handlebar models; motorized wheels of differing diameter, voltage, and/or current; a pedal assist system; or a speed transmitter. In any other case, any adjustment of these parameters should be undone immediately and the original settings be restored before any further use of this bicycle.
- Disconnect the battery from this bicycle before any cleaning, servicing, and storage.

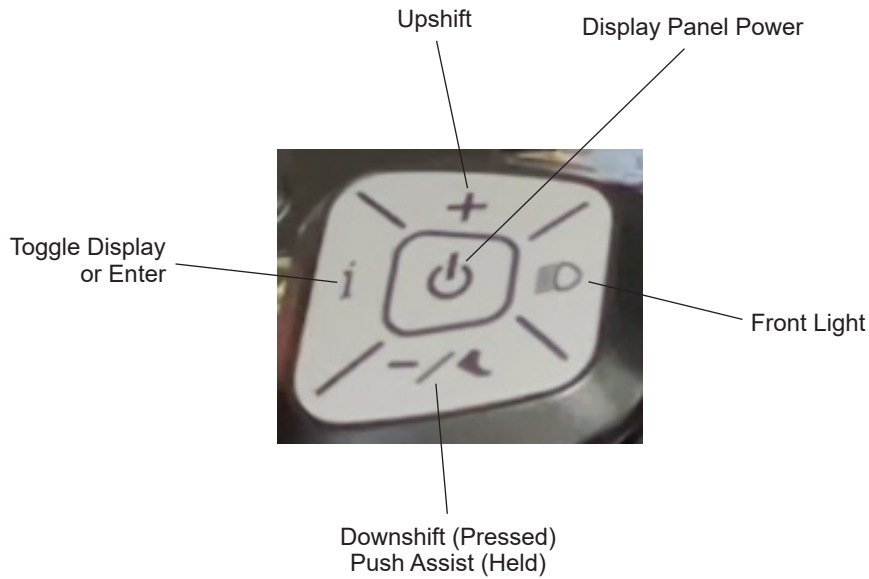
Specifications

| | | |
|--------------------------------|--------------------------|---------------------------|
| Motor Power | | 500W |
| Wheel Diameter | | 26 in. (66 cm) |
| Battery | Type | 48V Lithium |
| | Waterproof Rating | IP65 |
| Max. Speed (Adjustable) | | 12–40 km/h (7.5–24.5 mph) |
| Operating Temp. Range | | –4 to 140°F (–20 to 60°C) |
| Charging Temp. Range | | 32 to 104°F (0 to 40°C) |

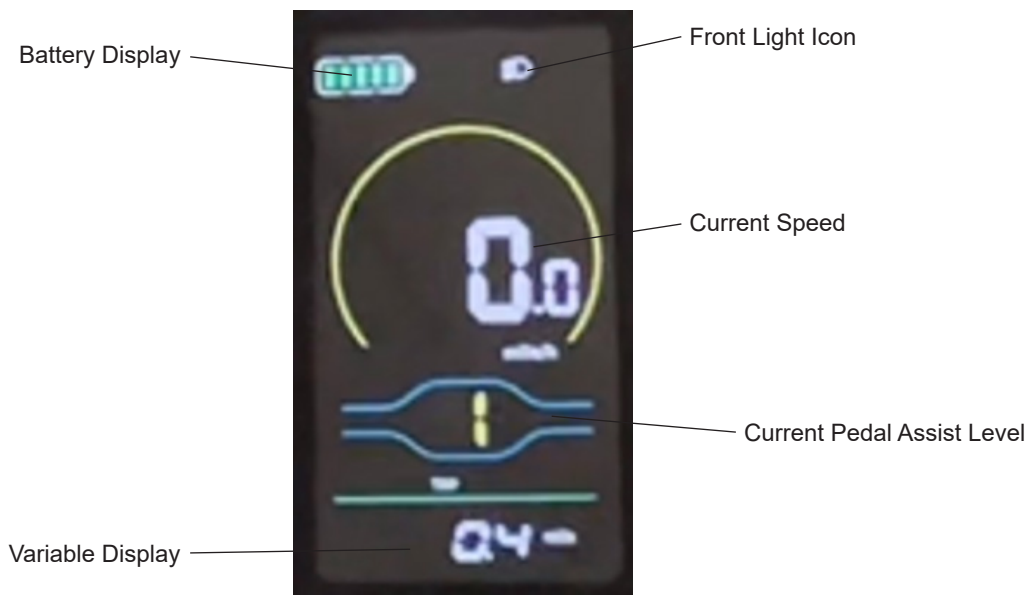
Product Diagram



Control Panel



LED Display Panel



Battery Display: Shows the remaining battery power level

Front Light Icon: Indicates when the light is on

Current Speed: Displays the current speed in mph or km/h

Current Pedal Assist Level: Displays the current intensity of the pedal assist control and whether it has been activated

Variable Display: Displays the top speed of your current trip (MAXS), your average speed during the current trip (AVG), power consumed in Watt-hours (Wh), the current trip distance (TRIP), and total distance traveled (ODO)

Package List

| Item | Name | Qty. |
|------|---|------|
| A | Main Frame with Motorized Rear Wheel and Chain | 1 |
| B | Handlebars with Control Panel, LED Display Panel, Gear Shifter, and Throttle | 1 |
| C | Front Wheel | 1 |
| D | Quick Release | 1 |
| E | Seat | 1 |
| F | Front Light | 1 |
| G | Pedals | 2 |
| H | Battery | 1 |
| I | Charger | 1 |
| J | Power Cord | 1 |
| K | M2.5 Hex Wrench | 1 |
| L | M3 Hex Wrench | 1 |
| M | M4 Hex Wrench | 1 |
| N | M5 Hex Wrench | 1 |
| O | M6 Hex Wrench | 1 |
| P | Multifunctional Wrench | 1 |
| Q | Phillips Screwdriver | 1 |

Assembly

To see these instructions in video form, search for electric bikes on the **Viribus Bikes** channel at [youtube.com](https://www.youtube.com).

1. Installing the Handlebars



1. Remove the bolts from the connecting plate on the head tube of the main frame (A) using the M5 hex wrench (N).
2. Remove the connecting plate.
3. Loosen the bolts on the front of the head tube using this wrench.
4. Rotate the head tube until it faces forward.
5. Fit the handlebars (B) onto the head tube as shown.
6. Replace the connecting plate and bolts, tightening these bolts partially with this wrench.
7. Adjust the handlebars and the attached control panel to convenient positions as needed.
8. Tighten the bolts on the connecting plates completely.

2. Installing the Front Wheel



1. Remove the protective covers from the hub of the front wheel (C).
2. Remove the locking nut and its spring from the quick release (D).
3. Pass the quick release through the wheel hub as shown.
4. Replace the spring, being sure its smaller side faces towards the disc brake.
5. Replace the locking nut, tightening it partially by hand.
6. Loosen the nuts on the protective bar between the front fork of the main frame.
7. Remove the protective bar from the fork.
8. Fit the front wheel between the fork, allowing the fork's tips to catch both ends of the quick release.
9. Rotate the lever of the quick release until the right side of the wheel hub becomes secure. Press the lever and tighten the locking nut completely to lock the wheel in place.

3. Aligning the Handlebars



1. Secure the bicycle using a bike stand (not included).
2. Align the front wheel with the top tube of the main frame.
3. While holding the front wheel firmly, rotate the handlebars until it becomes perpendicular to the top tube and front wheel.
4. Tighten these bolts completely with the M5 hex wrench as shown.
5. To adjust the height of the handlebars, loosen its top bolt with the M6 hex wrench (O), raise or lower the handlebars until your desired height is reached, and retighten the bolt.

4. Installing the Seat



1. Pull the locking lever on the seat tube.
2. Insert the seat post into the seat tube, pressing down on the seat (E) until your preferred height is reached.
3. Push the lever to lock the seat in place.

5. Installing the Front Light



1. Remove the locking nut from the frame above the front wheel.
2. Loosen the locking bolt on the frame.
3. Slot the holder of the front light (F) into the space between the frame and bolt's head.
4. Replace the nut, tightening the bolt and nut with the Phillips screwdriver (Q) and multifunctional wrench (P).

6. Installing the Pedals



Note: The two pedals (G) **ARE** different and should **NOT** be mixed up. The right pedal is marked with an **R** and the left with an **L**.

1. Attach the pedals to the crank arms on the appropriate side, screwing them into place.
2. Tighten their locking nuts with the multifunctional wrench.

7. Installing the Battery




1. Fit the battery (H) onto its mount on the down tube, sliding it down until it clicks into place.
2. Fetch one of the keys attached to the cables from the handlebars.
3. Insert the key into the keyhole on the battery, turning completely clockwise to lock the battery in place.
4. To activate or deactivate the power supply, flip the battery's power switch to **I** or **O**.

Operation

Riding with Manual Control


To ride your bike normally, simply leave the display panel or battery turned off. You can also ride normally with the display turned on by downshifting the motorized wheel to neutral (“0”). The shifter on the handlebar offers 7 gears during manual control.

Riding with Throttle Control


1. Hold  until the display panel turns on.
2. Turn the throttle on the right handlebar to activate the motorized wheel.
3. To speed up, turn the throttle further. The bicycle will not exceed the speed limit you have set (see below) on flat pavement but may do so on slopes.

To slow down, ease the throttle back and/or press your brake levers. Pressing either brake lever completely will cut off all power from your battery to the motorized wheel, temporarily leaving it in neutral. Release the brake to restore power at its previous level.

To toggle to pedal assist control during a ride, fully release the throttle while pedaling your bike.

4. To stop your bicycle, release the throttle completely and apply your brakes as needed.
5. To turn off the motorized wheel, release the throttle and brake levers while the bike is completely stopped. Hold  until the display panel turns off.



Riding with Pedal Assist Control

1. Make sure the throttle is fully released.
2. If the display panel is not currently on, hold  until it is.
3. Press + or – to select your desired pedal assist level. Pressing + shifts up one level (e.g., 3 to 4). Pressing – shifts down one level (e.g., 3 to 2). Downshifting from 1 to 0 puts the motorized wheel in neutral. Upshifting from neutral restores the 1st level of pedal assist control.
4. Turn the pedals on your bicycle once. The pedal assist system (PAS) will activate and turn the wheels using the motor’s power immediately, accelerating the bike to the maximum speed at its current level. The default settings are:

| Gear | | 0 | 1 | 2 | 3 | 4 | 5 |
|-----------|--------|---|----|----|----|----|----|
| Max Speed | (mph) | — | 12 | 14 | 16 | 18 | 20 |
| | (km/h) | — | 19 | 22 | 25 | 29 | 32 |

5. Turn off the pedal assist system by turning the throttle, pressing either brake lever, or downshifting to “0”. The bike will default to throttle control or neutral.


Pushing with Push Assist

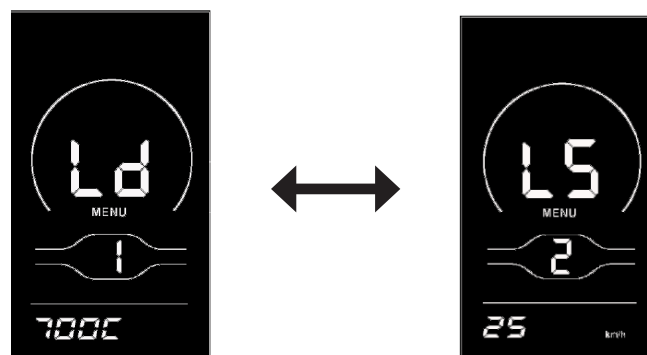
1. Stand beside the bike. If the display panel is not currently on, hold  until it is.
2. Hold **-** to activate the bike's Push Assist. While  is displayed, pushing your bicycle forward will cause the motor to activate at a speed of 3.5 mph (6 km/h).
3. If the Push Assist has been deactivated and you wish to use it, hold **+** and **-** simultaneously until "tC" is displayed. Hold **+** and **-** again until "VOL" is displayed. Press **+** or **-** until "SYS" is displayed. Press **i** twice and then press **+** or **-** until "P-Y" is displayed. Confirm your changes by holding **l** and then follow the instructions above.
4. Release **-** to turn off the bike's Push Assist at any time.

Adjustment

Setting the Maximum PAS and Throttle Speed

The maximum motorized speed for your bicycle is 20 mph (32 km/h) by default. When the bike's speed surpasses this value, the motor will automatically shut off and shifts to neutral. To see or adjust the speed limit:

1. If the display is not currently on, hold  until it is.
2. Hold **+** and **-** simultaneously until "tC" is displayed.
3. Hold **-** and **i** simultaneously until "Ld" is displayed. **DO NOT** press **i** at this point. The Ld parameter is used to tell the motor the diameter of your bike's wheels in inches. It should **NEVER** be adjusted during use on this bike. If it is accidentally adjusted, undo the mistake or restore the motor's factory default settings. (See below.)
4. Press **+** or **-** to toggle to "LS". The current speed limit will be displayed.
5. Press **i** to allow the value to be changed.
6. Press **+** or **-** to adjust the value by 1 km/h (0.6 mph) per press up to a max of 40 km/h (24.5 mph) or down to a minimum of 12 km/h (7.5 mph). Gears 1, 2, 3, and 4 will be automatically adjusted to be 60%, 70%, 80%, and 90% of this new value.



Note that LS settings are **ALWAYS** in km/h even when US units are used elsewhere.

7. Press or hold **i** to confirm your adjustment or hold **-** to cancel it.

Clearing the Trip Odometer

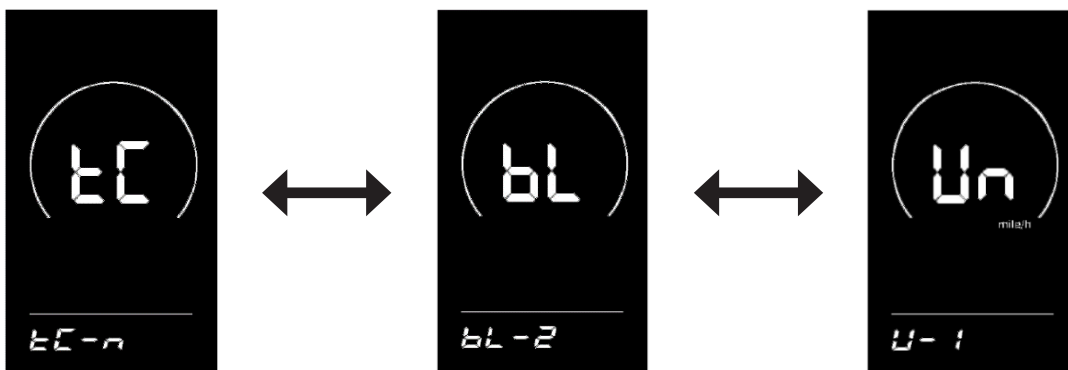
1. If the display is not currently on, hold **⏻** until it is.
2. Hold **+** and **-** simultaneously until “tC” is displayed.
3. Press **i** to allow the value to be changed.
4. Press **+** or **-** to toggle from no reset (“tC-n”) to reset (“tC-Y”).
5. Press or hold **i** to confirm your adjustment or hold **-** to cancel it.

Adjusting the LED Brightness Level


1. Go to “tC” as above.
2. Press **+** or **-** until the display reads “bL”. The current setting is shown below.
3. Press **i** to allow the value to be changed.
4. Press **+** or **-** to adjust the display brightness from low (“bL-1”) to high (“bL-3”).
5. Press or hold **i** to confirm your adjustment or hold **-** to cancel it.

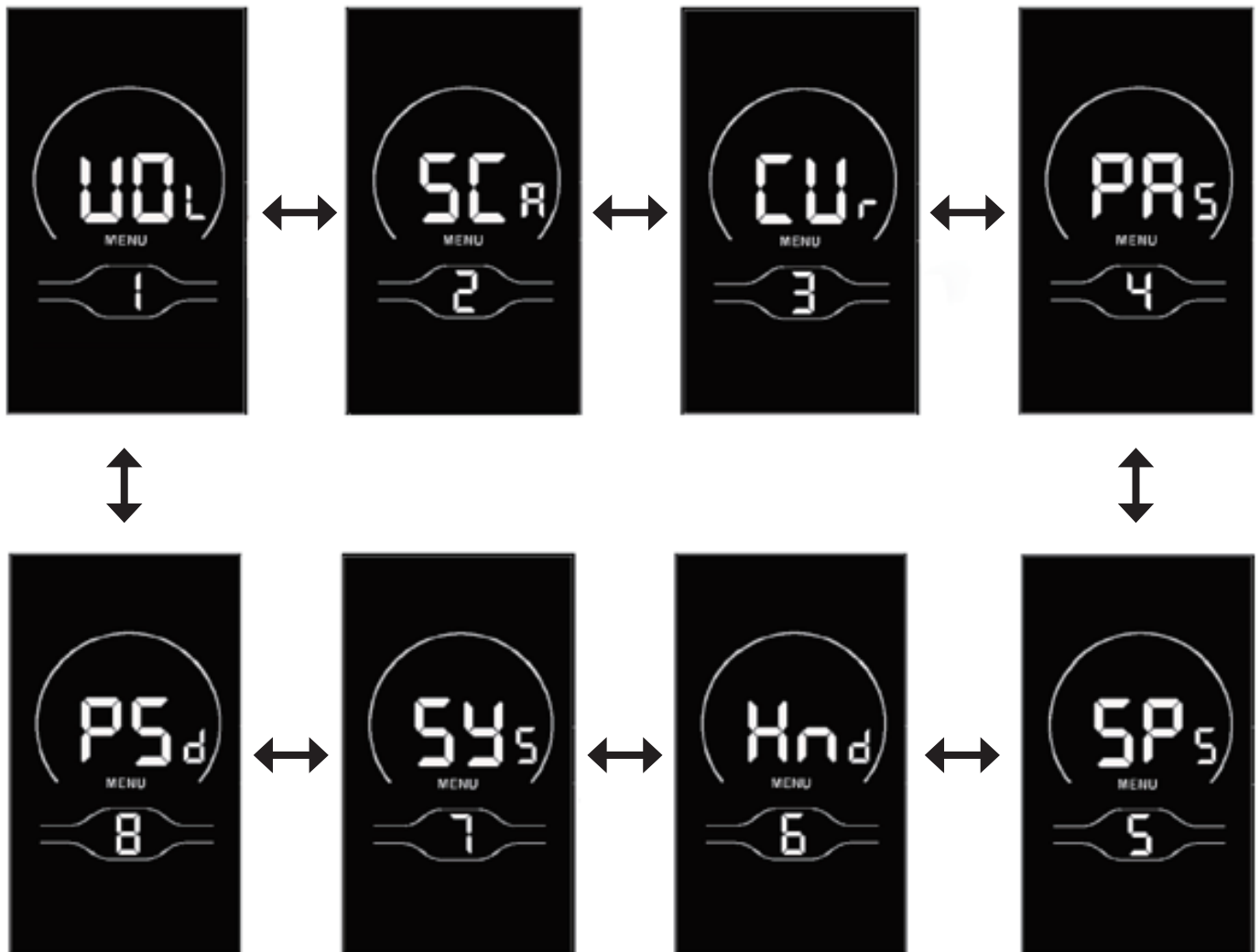
Adjusting the Measurement Units

1. Go to “tC” as above.
2. Press **+** or **-** until the display reads “Un”. The current setting is shown below.
3. Press **i** to allow the value to be changed.
4. Press **+** or **-** to toggle between U.S. customary units (“U-1”) and metric (“U-2”). Note that the PAS max. speed (“LS”) will always be adjusted in kilometers per hour (km/h) even when U-1 is selected.
5. Press or hold **i** to confirm your adjustment or hold **-** to cancel it.



Settings Menu

1. If the display is not currently on, hold  until it is.
2. Hold + and - simultaneously until "tC" is displayed.
3. Hold + and - simultaneously again until "VOL" is displayed.
4. Press + or - to move among the following menus:



DO NOT press **i** to adjust VOL, SCA, CUR, PAS, or SPS while using this controller with this bike. If such adjustment happens accidentally, immediately correct the settings or restore the system's factory defaults. (See below.)

VOL allows adjustment of the battery voltage. SCA allows the number of Pedal Assist gears to be reset to 3, 5, 7, or 9. CUR allows adjustment of the system's current. PAS has 3 submenus allowing adjustment of the system's polarity, sensitivity, and number of alnico magnets. SPS allows adjustment of the motorized wheel's magnetic arrangement.



Changing any of these values during use with this bicycle **WILL** cause it to perform abnormally, malfunction, and/or break. Always correct any adjustment immediately or reset the bicycle to its factory default settings. (See below.)

Enabling Push Assist from the Throttle

1. Go to “Hnd” as described above.
2. Press **i** to allow the throttle function to be adjusted.
3. Press **+** or **-** to toggle the throttle from standard operation (“HL-n”) to activating push assist (“HL-Y”). When this is activated, turning the throttle will no longer accelerate the bike to its max. speed setting. Instead, it will function like the **-** button to move the bike at a steady 3.5 mph (6 km/h).
4. Hold **i** to confirm your adjustment or hold **-** to cancel it.

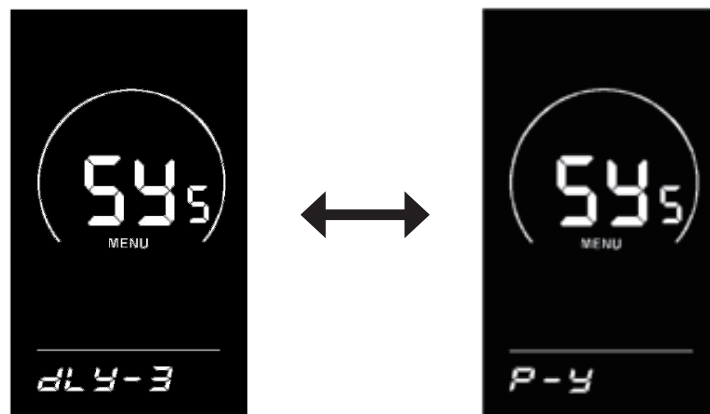


Adjusting the Battery Display Refresh Rate

1. Go to “SYS” as described above.
2. Press **i** to allow the value of the battery display refresh rate to be changed.
3. Press **+** or **-** to toggle the refresh rate to 3 seconds (“dLY-3”), 6 seconds (“dLY-6”), or 12 seconds (“dLY-12”). This is the interval between each sensor check that updates the battery display on the LED panel. Lower settings are more real-time, high settings use slightly less power over long rides.
4. Hold **i** to confirm your adjustment or hold **-** to cancel it.

Disabling Push Assist

1. Go to “SYS” as above.
2. Press **i** to allow the battery display refresh rate to be changed.
3. Press **i** again to allow Push Assist to be activated or deactivated.
4. Press **+** or **-** to toggle between activating Push Assist (“P-Y”) and deactivating it (“P-n”). When Push Assist is active, holding **-** on the control panel will cause the motor to activate at a speed of 3.5 mph (6 km/h). When it is deactivated, holding **-** on the control panel will not cause any changes.
5. Hold **i** to confirm your adjustment or hold **-** to cancel it.



Restoring Factory Default Settings

1. If the display is not currently on, hold **⏻** until it is.
2. Hold **-** and **i** simultaneously until “dEF” is displayed.
3. Press **+** or **-** to toggle from No (“dEF-n”) to Yes (“dEF-Y”).
4. Press **i** to begin removing any changes and restoring all factory default settings. During this process, “dEF-0” will be displayed.
5. The LED panel will return to the main display automatically when the process is over.



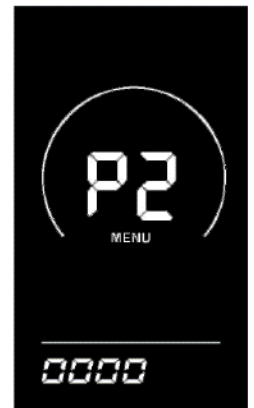
Passwords

Entering a Password

When password protection is activated, the LED panel will read “P1” on startup. In the lower display, there will be a password field reading “0000”. Press **+** or **-** to adjust each digit. Press **i** to confirm the digit and move one place to the right. If the password is correct, pressing **i** after entering the fourth digit will unlock the display. The default password is 1212.

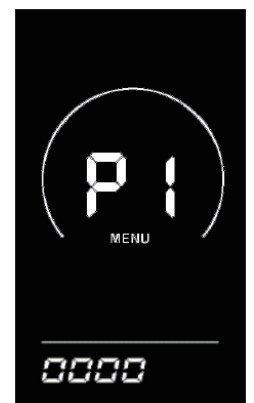
Activating Password Protection

1. Go to “PSd” as described in the Settings Menu above.
2. Press **i** to allow password protection to be activated or disabled. The main display should change to “P2”.
3. Enter the current password as described above. If you have not previously adjusted this setting, the default password is 1212.
4. After confirming the last digit of the password, press **+** or **-** to toggle between activating password protection (“PSd-Y”) and disabling it (“PSd-N”).
5. Hold **i** to confirm your adjustment or hold **-** to cancel it.



Changing Passwords

1. Repeat Steps 1–4 from the previous section.
2. In Step 5, press **i** instead of holding it. The display should change to “P3”. The password field can be modified again.
3. Enter a new password as described above.
4. After entering the last digit, hold **i** to confirm your adjustment or hold **-** to cancel it.
5. Restart the display panel, which should now require your new password to access. Enter it to finish restarting and unlock the LED display.



Maintenance

Charging the Battery

You can see the remaining power on the battery's power display and the top left of the LED display panel. When recharging is necessary:

1. Unlock the battery by inserting the key and turning counterclockwise.
2. Remove the battery from the bicycle frame.
3. Connect the charger (I) to a stable compatible power source.
4. Connect the battery to the charger using the provided power cord (J). The charger's power indicator light should turn red and charging should begin.
5. When the light turns green, the battery has been fully charged. Disconnect the charger first from your power source and then remove the battery from the charger.

Miscellaneous

- Disconnect the power after each use and prior to any cleaning or other maintenance.
- Check the parts of the bicycle for any looseness, wear, or damage after each use. Tighten, repair, or replace any problematic parts before further use. To tighten the locking bolts, use the M3 hex wrench (L) for the display panel and the M4 hex wrench (M) for the gear shifter and battery mount.
- The exterior of the bicycle can be cleaned with a soft damp cloth. Do not use harsh abrasives or caustic chemicals.
- Lubricate the chain and other moving parts using standard bike lubricants as needed.
- If the bicycle will not be used for an extended period of time, store in a cool dry place inaccessible to children.

Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at help@cs-supportpro.com and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.



