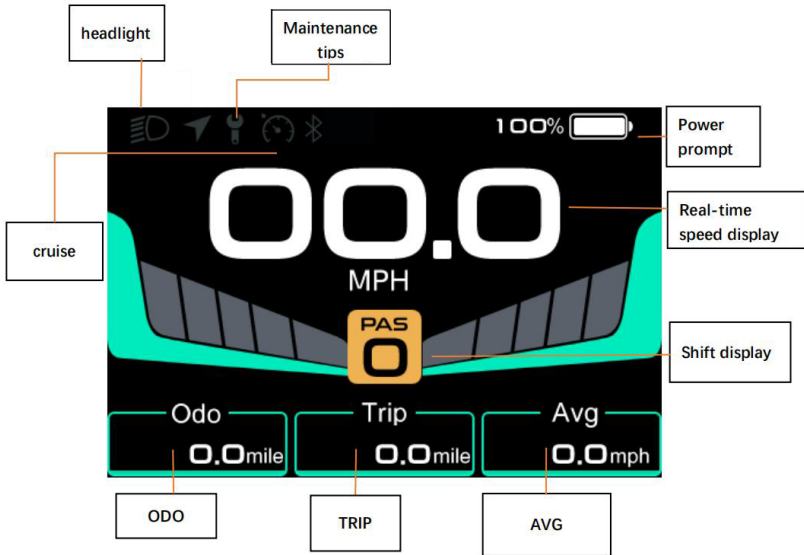


USER MANUAL

PIONEER PLUS/PACER PLUS

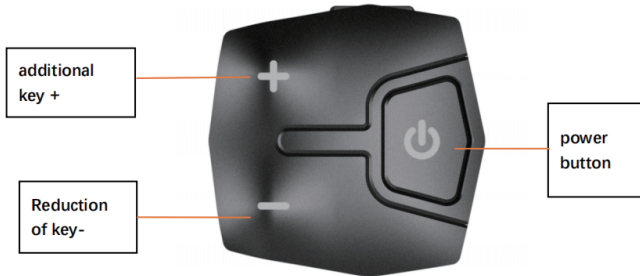
1.The LCD Display Interface



- **Headlight Status:** Shows whether the headlight is on or off. The icon appears when the headlights are on and disappears when they're off.
- **Maintenance Reminder:** Displays a symbol for when maintenance is due.
- **Battery Status:** Provides a real-time indication of the battery level.
- **Current Speed:** Shows the rider's current speed.
- **Gear Indicator:** Displays the gear the bike is currently in.
- **Trip Mileage:** Displays the distance traveled during the current ride.
- **Odometer:** Shows the total accumulated distance the bike has traveled.
- **Average Speed:** Shows the average speed for the current ride.
- **Cruise Control:** The cruise control icon lights up when the cruise function is engaged.

2.Button Functions

The Pioneer Plus and Pacer Plus models each feature three buttons: the Power Button, the Increase Button, and the Decrease Button. The functions of these buttons are defined as shown in the diagram below:



3.Standard Operations

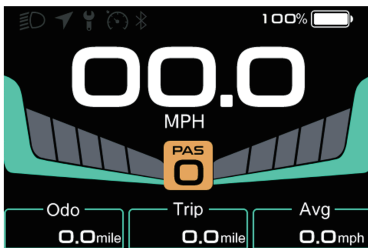
For ease of reference in the following instructions, the terms will be abbreviated as follows:

"Press and hold the button for >2.5 seconds" will be shortened to "long press."

"Press the button for <0.5 seconds" will be shortened to "click."

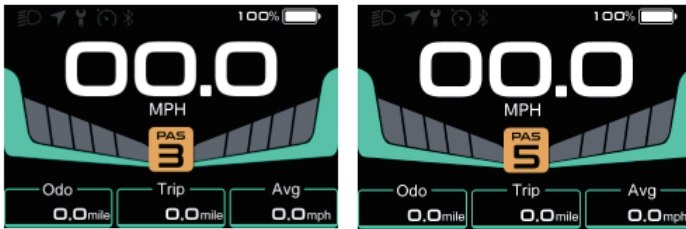
① Power On / Off:

Press the power button to turn the instrument on. When the system is idle, press the power button again to turn it off. When powered off, the instrument's standby current is less than 1 μ A. The power switch interface is shown in the diagram below.



② Power Gear Selection:

After entering the main interface, press the + or - button to adjust the power gear, which controls the motor's output power. The default gear range is 0–5. When the instrument starts, it defaults to gear 0, where no power is output. Gear 1 provides the lowest power, and gear 5 provides the highest power. The power gear selection interface is shown in the diagram below.



③ Headlight / Taillight Switch:

The instrument with light-sensing capability will automatically turn on the headlight based on the ambient light conditions. If the headlight is manually turned on, the automatic headlight function will be temporarily disabled. The automatic headlight function will return to normal once the instrument is restarted.

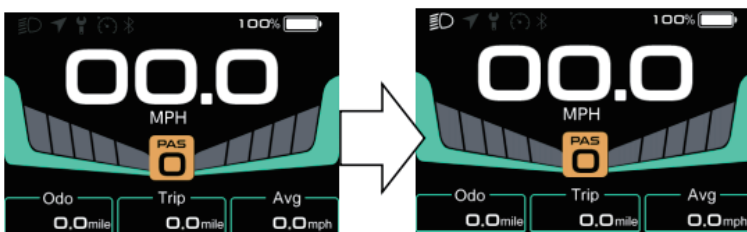
Turn On the Light:

When the light is off, long press the "+" button. The headlight icon will appear on the screen, signaling the controller to turn on the light.

Turn Off the Light:

When the light is on, long press the "+" button. The headlight icon on the screen will not disappear but will dim, signaling the controller to turn off the light.

The headlight switch display interface is shown in the diagram below.



4.Settings Instruction

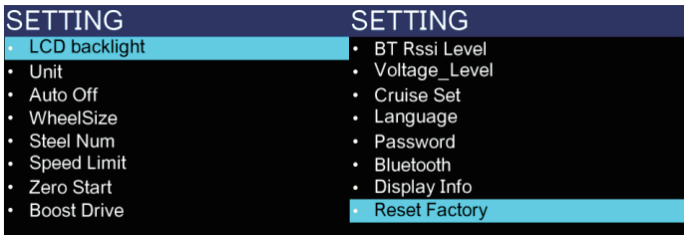
How to Navigate the Settings Menu

Press the Power Key to access the settings menu.

Use the "+" Key or "-" Key to move the cursor up and down through the options.

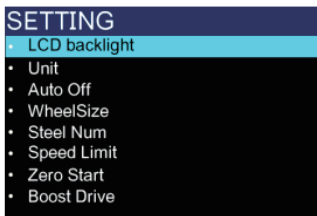
Select a menu by highlighting it, then press the Confirmation Button (or Enter) to open the sub-menu.

The function selection interface will appear as shown in the diagram below.



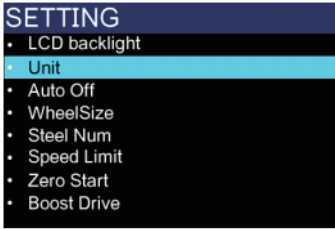
Backlight Level Menu

Press the Power Button to enter the LCD Backlight menu. Use the "+" or "-" buttons to adjust the backlight level of the instrument. Refer to the figure below for details.



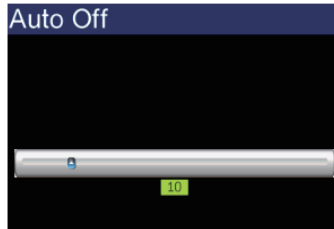
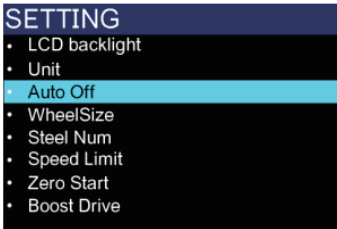
Unit Menu

Press the Power Button to enter the Unit menu. Use the "+" or "-" buttons to change the default unit settings. Refer to the figure below for details.



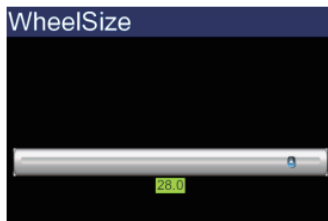
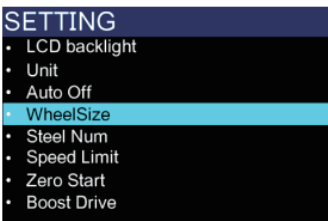
Automatic Shutdown Menu

Press the Power Button to enter the Auto Off menu. Use the "+" or "-" buttons to adjust the automatic shutdown timer. Refer to the figure below for details.



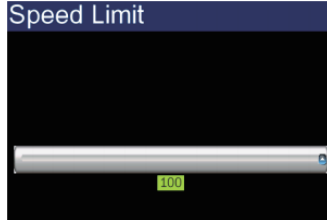
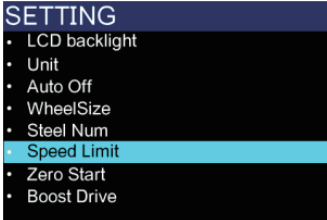
Wheel Size Menu

Press the Power Button to enter the Wheel Size menu. Use the "+" or "-" buttons to adjust the wheel diameter setting. Refer to the figure below for details.



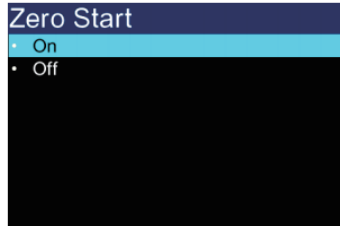
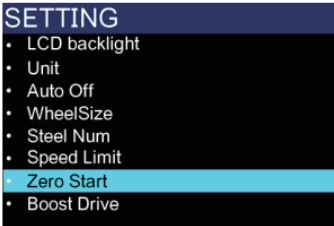
Speed Limit Menu

Press the Power Button to enter the Speed Limit menu. Use the "+" or "-" buttons to adjust the speed limit setting. Refer to the figure below for details.



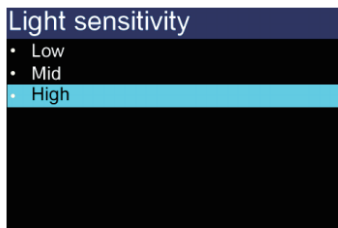
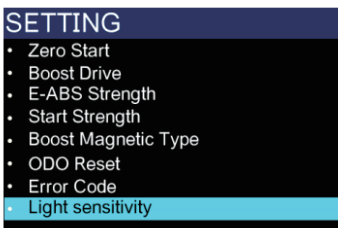
Zero Start Menu

Press the Power Button to enter the Zero Start menu. Use the "+" or "-" buttons to toggle the zero start function on or off. Refer to the figure below for details.



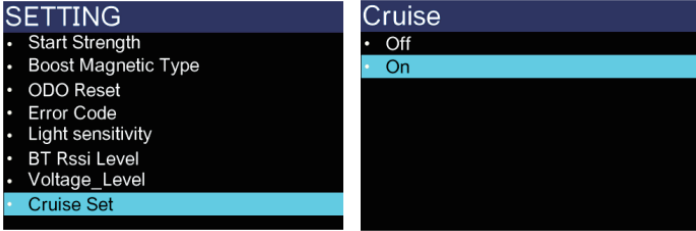
Light Sensitivity Menu

Press the Power Button to enter the Light Sensitivity menu. Use the "+" or "-" buttons to adjust the light sensor sensitivity level. Refer to the figure below for details.



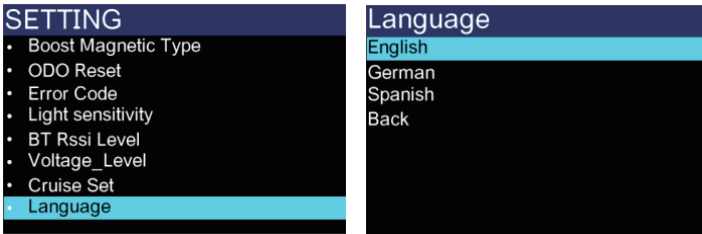
Cruise Menu

Press the Power Button to enter the Cruise Set menu. Use the "+" or "-" buttons to toggle the cruise control function on or off. Refer to the figure below for details.



Language Menu

Press the Power Button to enter the Language menu. Use the "+" or "-" buttons to change the instrument's language setting. Refer to the figure below for details.



Password Menu

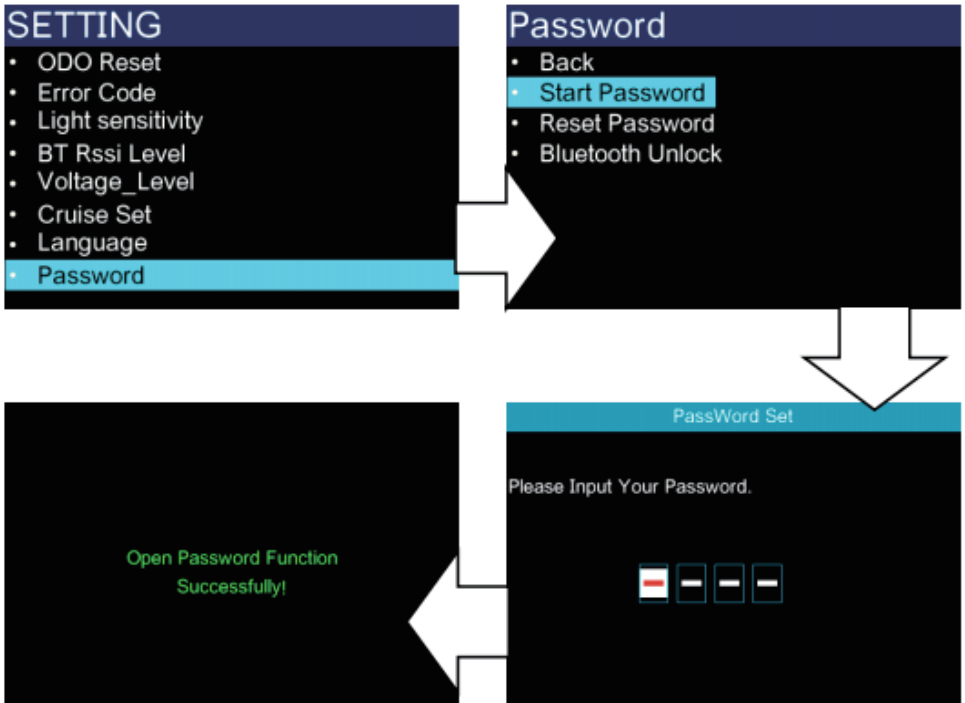
① Close the Password Function

Use the "+" or "-" buttons to navigate to the Password option, then press the Power Button to confirm.

In the Password menu, select "Start Password" (if it's currently on) and press the Power Button to confirm.

Enter your current password using the "+" or "-" buttons to cycle through numbers (0–9). Press the Power Button to confirm each digit. Once the password is entered, the system will prompt you that the password function has been disabled.

The menu will automatically return to the previous settings screen. Use the Back or Exit button to return to the main interface.



② Open the Password Function

Use the "+" or "-" buttons to navigate to the Password option, then press the Power Button to confirm.

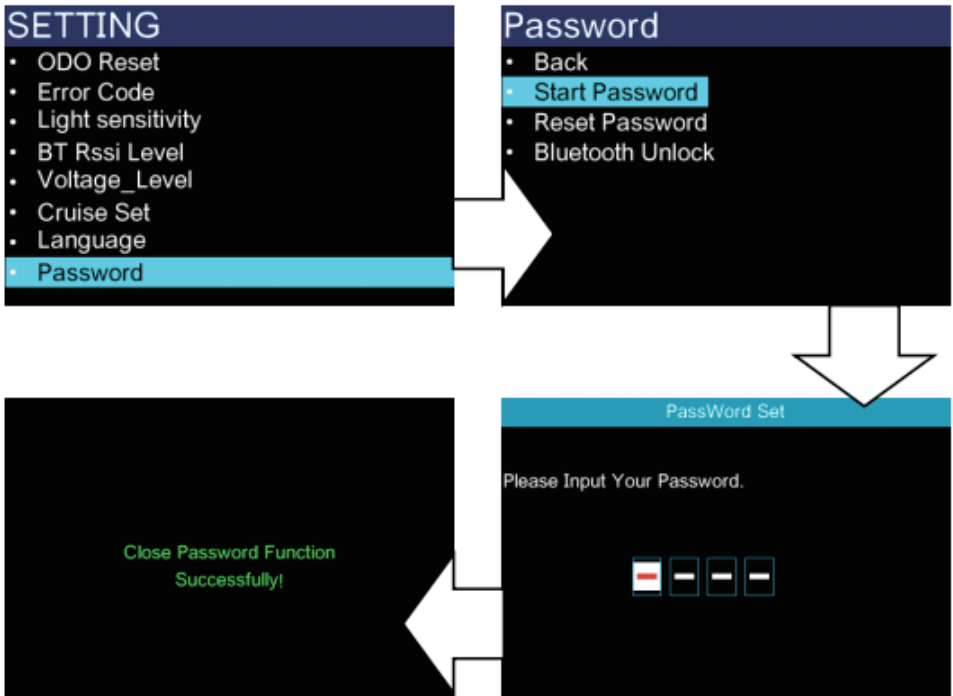
In the Password menu, select "Start Password" (if it's currently off) and press the Power Button to confirm.

Set a new password using the "+" or "-" buttons to cycle through numbers (0–9). Press the Power Button to confirm each digit.

Once the password is set, the system will confirm that the password function is now active.

The menu will automatically return to the previous settings screen.

Use the Back or Exit button to return to the main interface.



③ Set or Change the Password

Use the "+" or "-" buttons to navigate to the Password option, then press the Power Button to confirm.

Select "Reset Password" and press the Power Button to confirm. Follow the on-screen prompts:

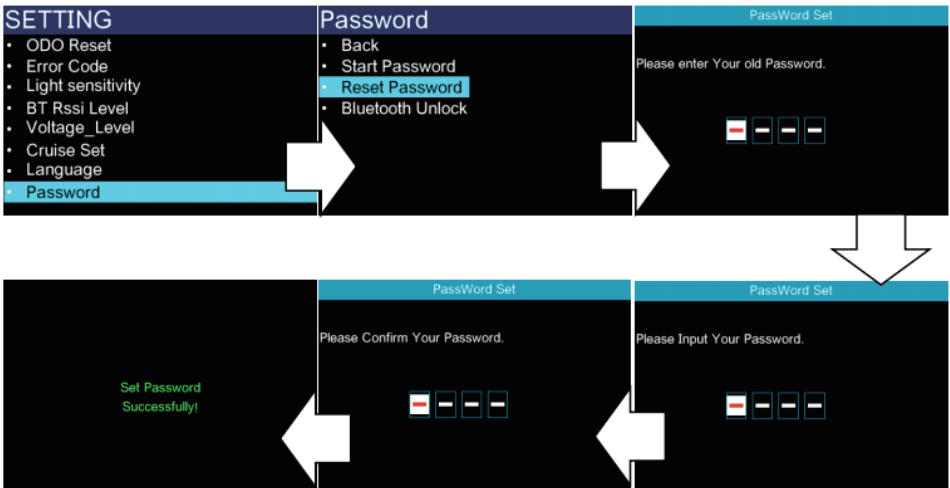
Enter your old password using the "+" or "-" buttons to cycle through numbers (0–9). Press the Power Button to confirm each digit.

Enter your new password using the same method.

Confirm your new password by entering it again.

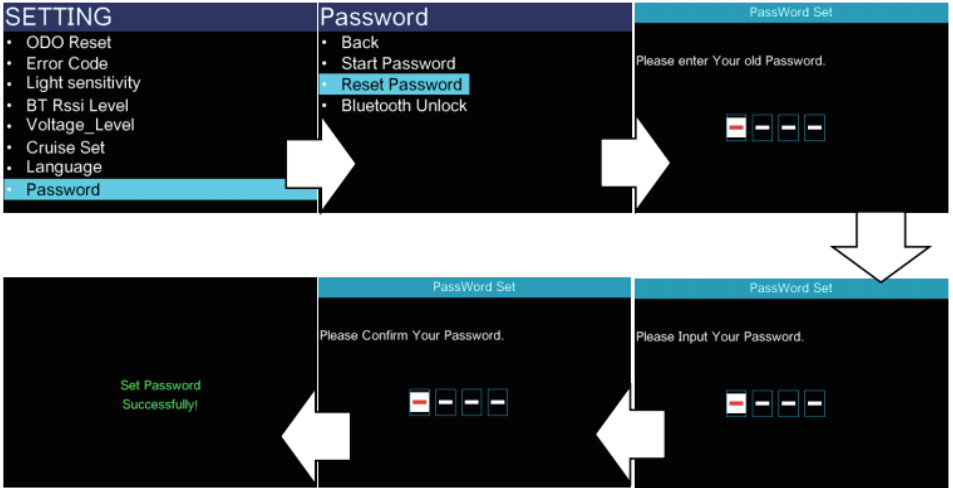
Once the password is successfully changed, the menu will return to the previous settings screen. Use the Back or Exit button to return to the main interface.

Refer to the figure below for detailed steps.



Restore Factory Settings Menu

Press the Power Button to enter the Reset Factory menu. Select "Confirm" to restore factory settings or "Cancel" to exit without changes. Refer to the figure below for details.



5.Error Codes List

error code	Troubleshooting	Troubleshooting method
"04"	Speed control no return	Check whether the transfer bar is returned
"05"	Speed up the fault	Check the turn
"06"	undervoltage protection	Check battery voltage
"07"	overvoltage protection	Check battery voltage
"08"	Motor Hall signal wire is faulty	Check the motor module
"09"	Motor phase line failure	Check the motor module
"11"	Controller temperature sensor has failed	Check the controller
"12"	Current sensor fault	Check the controller
"13"	Internal temperature failure of the battery	Check the battery
"14"	Temperature failure in the motor	Check the motor
"21"	Speed sensor failure	Check the installation position of the speed sensor
"22"	A BMS communication failure	Replace the battery
"30"	Communication failure	Check the controller connector