BIRCH

ELECTRIC BICYCLE
FUNCTION MENUS
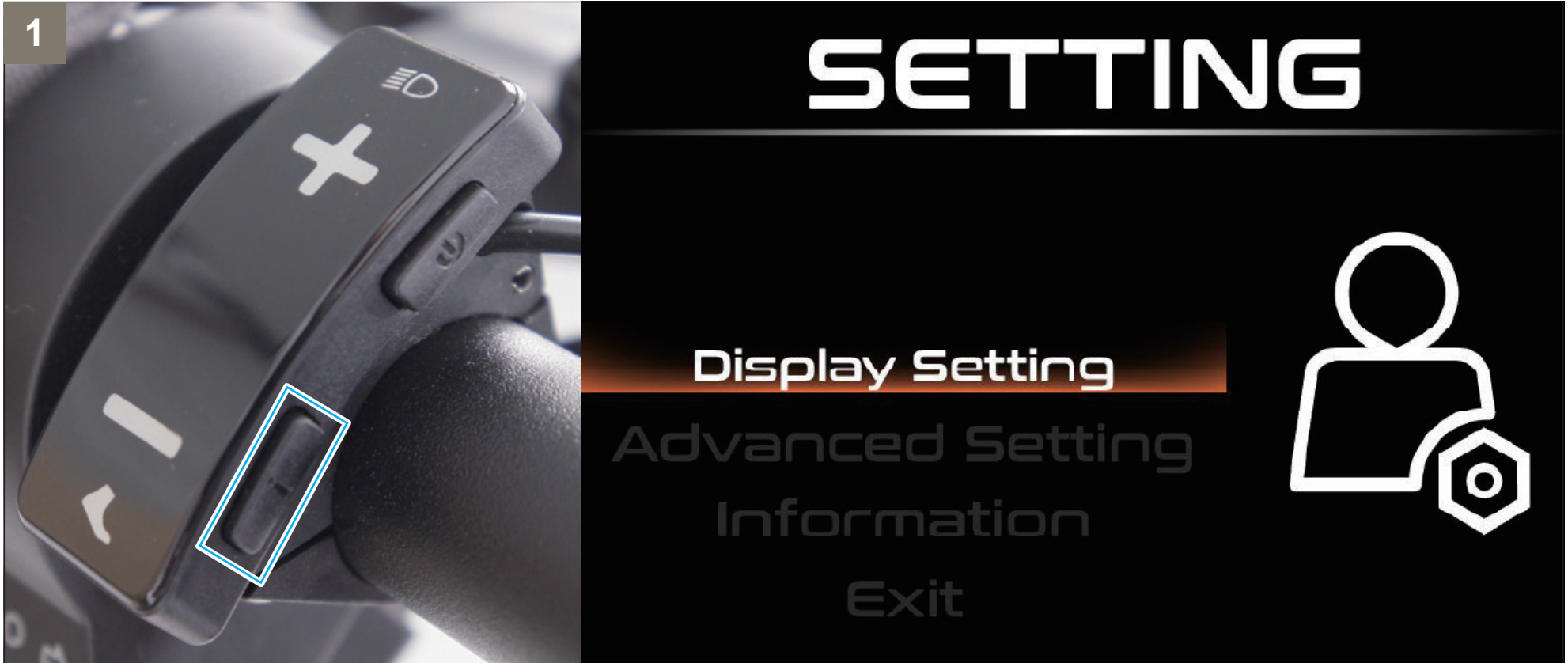
User Guide

Read Carefully Before Use
Keep for Future Reference
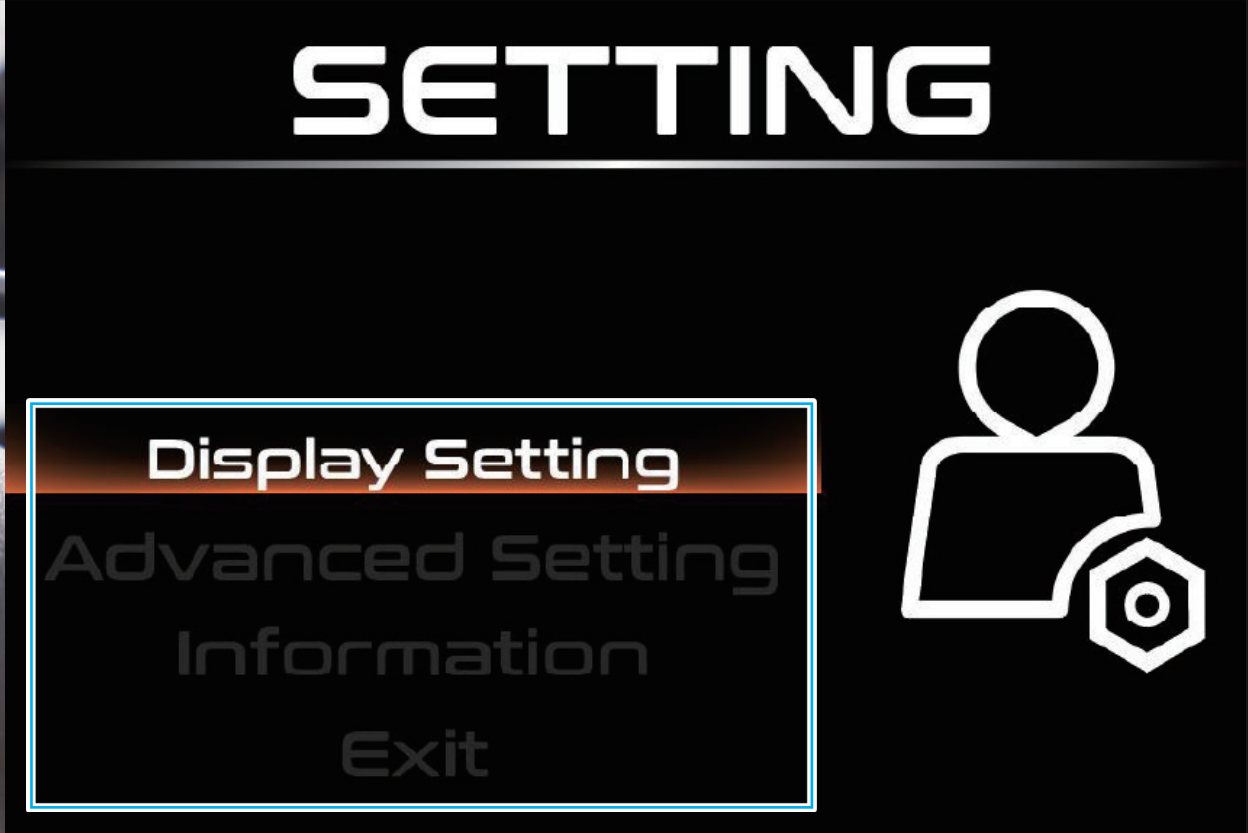
BIRCH

Contents

Menu Directory

1

SETTING

Display Setting

Advanced Setting

Information

Exit

When the display panel is on, hold the **i** button to enter the menu directory (**SETTING**).

2

SETTING

Display Setting

Advanced Setting

Information

Exit

Use the **+** or **–** button to select a menu (**Display Setting**, **Advanced Setting**, or **Information**) or **Exit**.

3

SETTING

Display Setting
Advanced Setting
Information
Exit

DISPLAY SETTING

TRIP Reset
Toggle Unit
Brightness

No

SETTING

Display Setting
Advanced Setting
Information
Exit

KEY-DISP
72%
mph
00.0
TRIP
4.0
mile
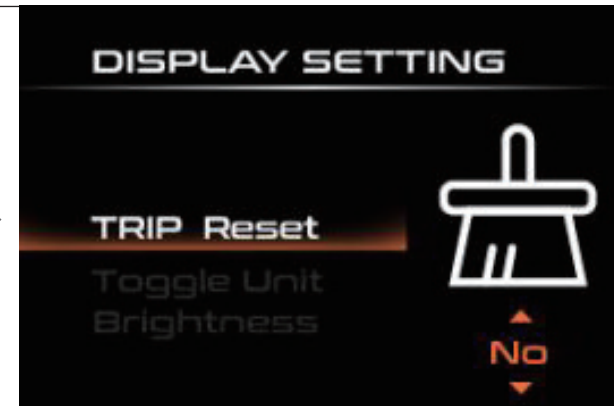
Press **i** to open the selected menu or to leave the directory.

Display Settings Menu

General Guide

In the Display Setting Menu, use **+** or **–** to select a parameter.

2

DISPLAY SETTING

TRIP Reset
Toggle Unit
Brightness
SOC View
Auto Off

100%

Press **i** to allow settings adjustment for the parameter.

3

DISPLAY SETTING

TRIP Reset
Toggle Unit
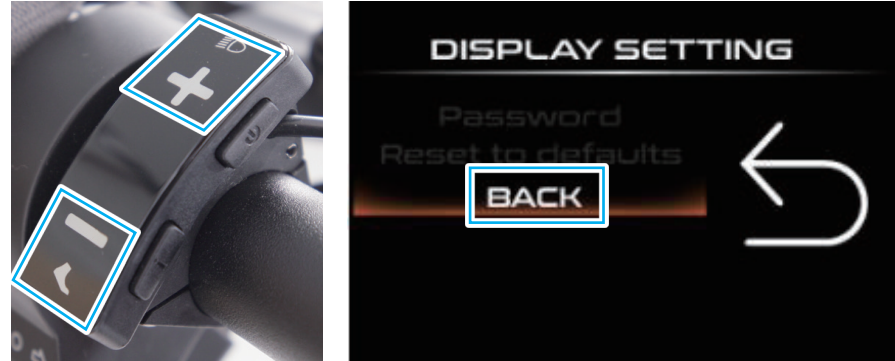**Brightness**
SOC View
Auto Off

50%
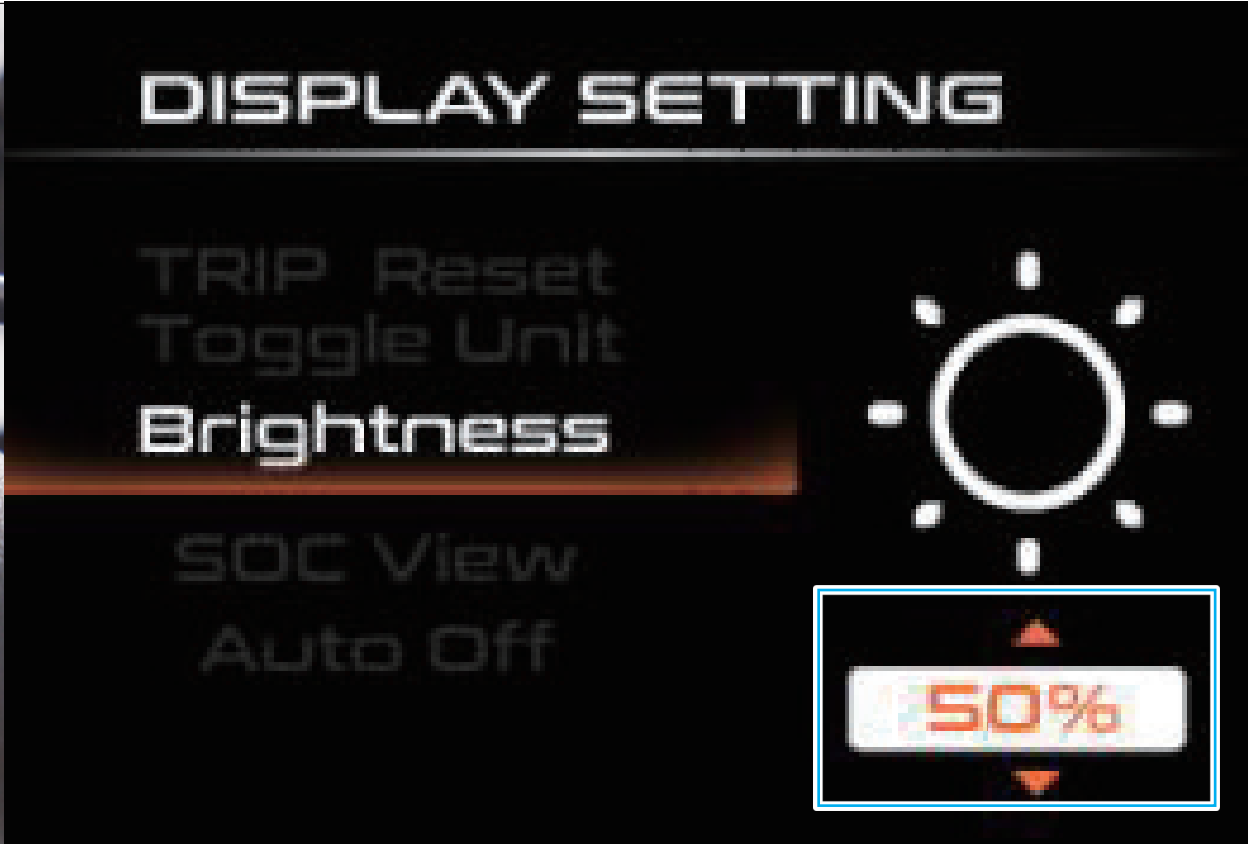
Use **+** or **–** to select a desired setting.

4 (Option A: Save your change.)

Method 1

a. press **i** to confirm.

b. Use **+** or **–** to select **BACK**.

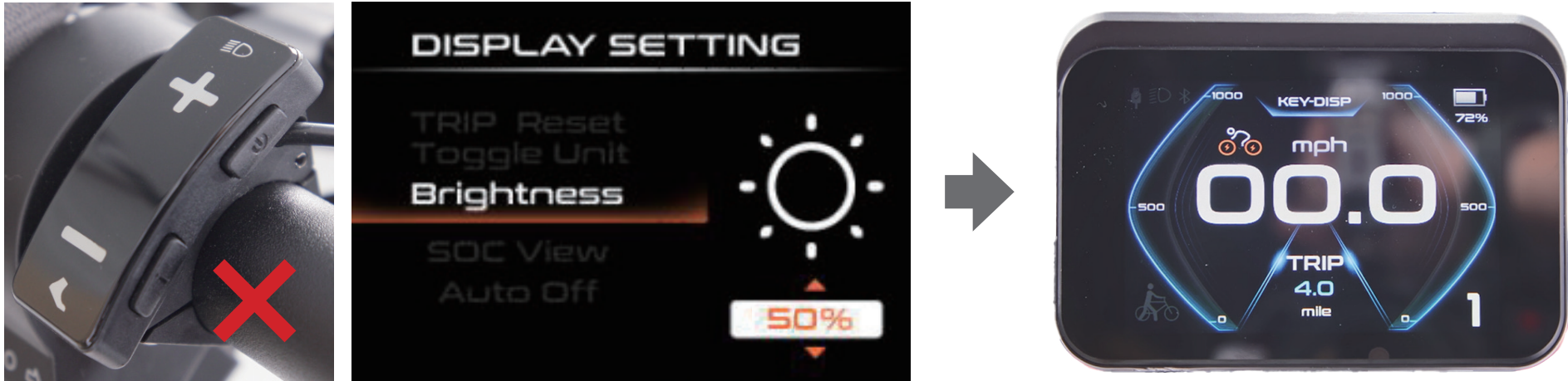c. Press **i** again to return to the menu directory.

4   (Option A: Save your change.)

Method 2

Hold **i** until the digital display resets.

4 (Option B: Cancel your change.)

Wait without operation until the digital display resets by itself.

Clearing/Saving Various Display

Select **TRIP Reset**.

This concerns your current trip distance (**TRIP**), average speed (**AVS**), maximum speed (**MAX**), and length of riding time (**TIME**).

- To clear them, choose **Yes**.

- To save them, choose **No**.

*Note: The total distance traveled (**ODO**) cannot be cleared.*

Measurement Units
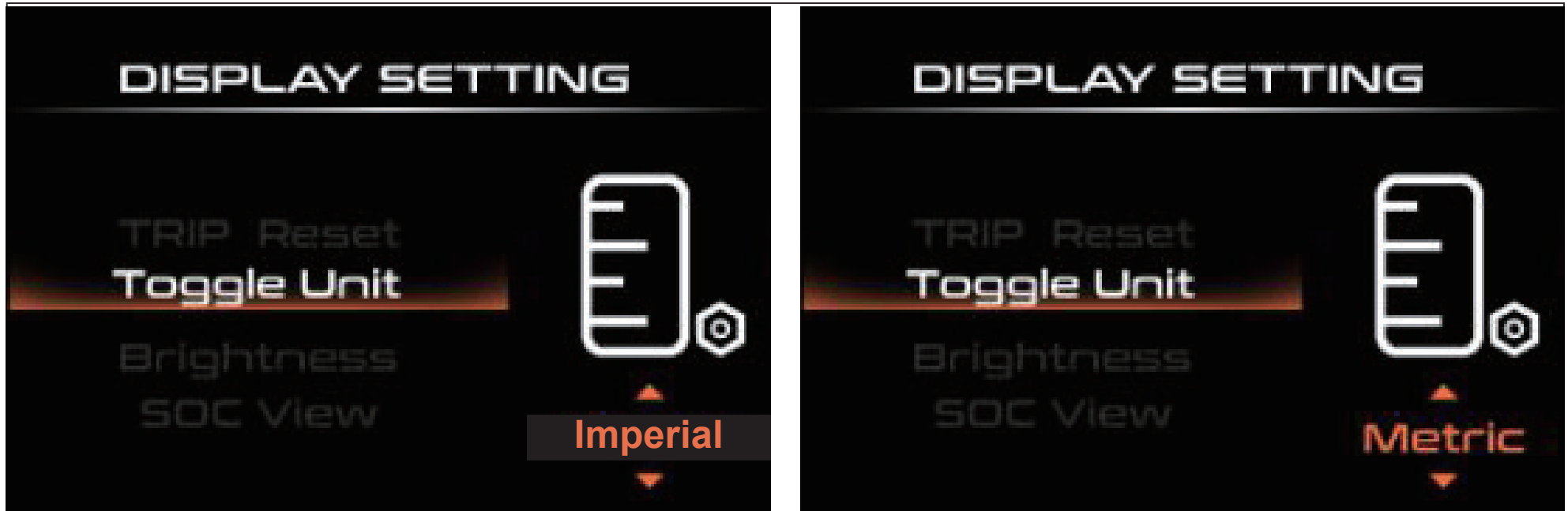
Select **Toggle Unit**.

This toggles between imperial and metric units for speeds and distances being displayed.

- For mph and mile, choose **Imperial**.
- For km/h and km, choose **Metric**.

Display Brightness

Select **Brightness**.

This toggles the LCD screen's backlight among **100%**, **75%**, **50%**, **30%**, and **10%**.

For best results, use the minimum setting that is clearly visible, prolonging your battery life and allowing your eyes to go between the road and the screen more easily in low light conditions.

- **10%** is the dimmest.
- **100%** is the brightest.

State of Charge

Select **SOC View**.

This switches between displaying the battery power and voltage on the LCD screen's upper right corner.

- For battery power display, choose **Percent**.

- For battery voltage display, choose **Voltage**.

Timed Shutoff

DISPLAY SETTING

Brightness
SOC View
Auto Off
AL Sensitivity
Set Voltage

5min

DISPLAY SETTING

Brightness
SOC View
**Auto Off**
AL Sensitivity
Set Voltage

Off

Select **Auto Off**.

By default, the e-bike will shut off automatically once it has stopped for 5 minutes with no operation of the display panel (**5 min**).

- You can adjust the number of minutes before the display shuts down between **1 min** and **9 min**.

- To disable the timed shutoff, choose **Off**, putting the panel and motor(s) in standby mode indefinitely when you park your e-bike.

Light Sensors (Inapplicable to the E-Bike)
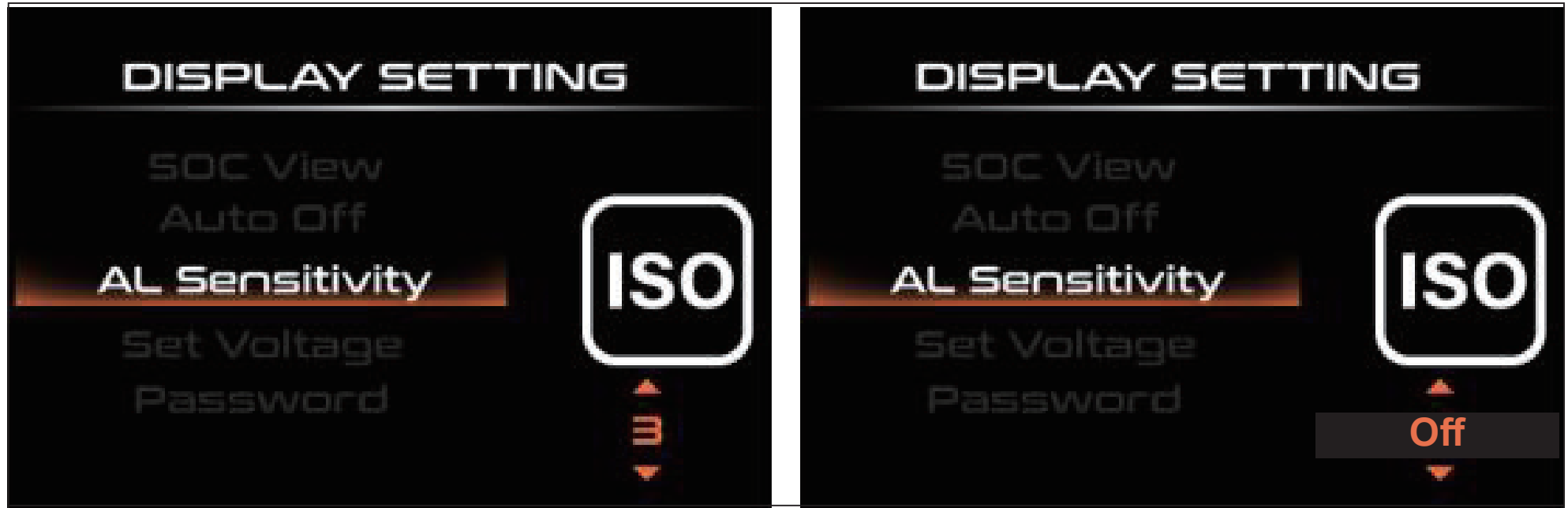
Select **AL Sensitivity**.

This regulates how responsive (**1–5**) the lights and LCD screen are to changes in ambient light levels **if light sensors have been installed**.

- Low values ensure stable lighting and display brightness.

- High values enable frequent automatic adjustments.

- To disable this, choose **Off**.

Battery Voltage

Select **Set Voltage**.

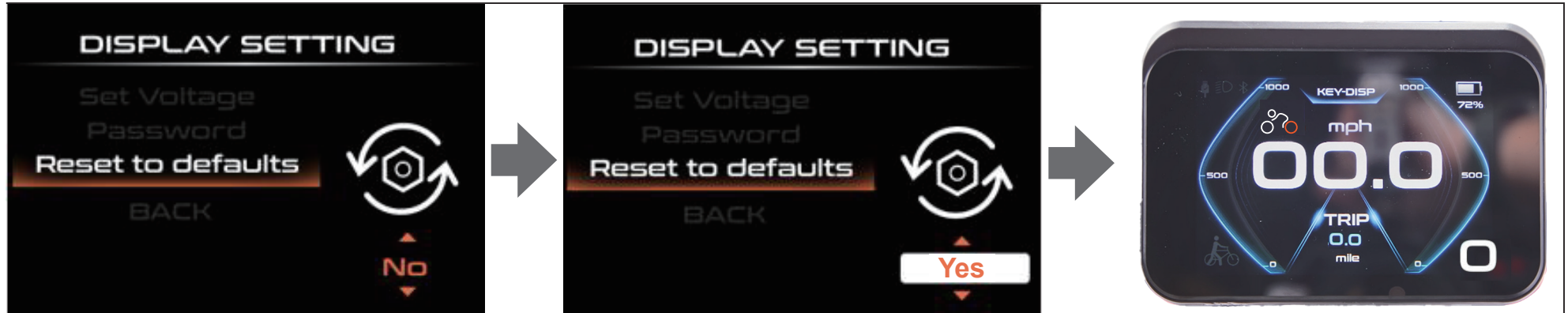This modifies the system to accommodate batteries with various output voltages.

⚠**Caution**

NEVER adjust the default setting at random.

*If it is ever changed by accident, reset it to **48V** before continuing use.*

16

Restoring the Factory Settings

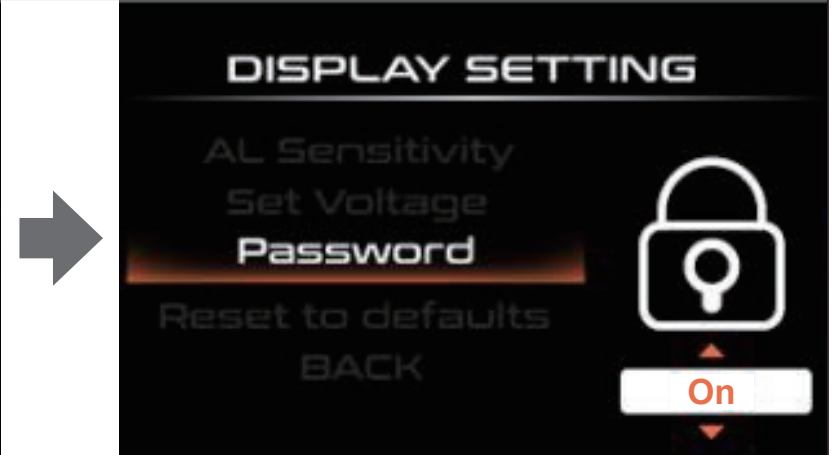1. Select **Reset to defaults**.

2. Switch **No** to **Yes**.

3. Confirm to begin resetting the system.

   When finished, the digital display resets.

17

Password Protection

<u>Setting a Password</u>

1	
a. Select **Password**. b. Switch **Off** to **On**.	

2	
Press **i** to access the **INPUT PASSWORD** interface.	 Default Password

3		
Use **+** or **–** to enter a number for the first digit.		INPUT PASSWORD 2 0 0 0

4		
Press **i** to confirm the first digit and move on to the next one.		INPUT PASSWORD 2 0 0 0

5		
Repeat **steps 3–4** for the remaining digits.		INPUT PASSWORD 2 3 1 4
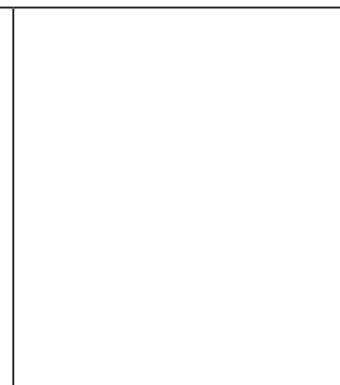
6

Once conforming the last digit, reinput the numbers to reconfirm your setting.

- If the reinput is correct, the display should prompt a success and then jump to the **PASSWORD** menu as shown, indicating that password protection has activated.

  To exit and go back to the **Display Setting** menu, select **BACK**.

- If the reinput is incorrect, the display should prompt a mismatch and then return to **INPUT PASSWORD**. Repeat **steps 2–6** for a retry.

INPUT PASSWORD

O O O O

Please input password again

PASSWORD

Start Password   **ON**

Reset Password

BACK

Note:

- Next time you hold ⏻ to turn on the display panel, simply use **+, –,** and **i** to enter the password and then the display should activate.

- If the password is forgotten, contact customer service for help.

  For best results, **take notes when setting your password.**

- To deactivate password protection, select **Password** and switch **On** back to **Off**.

Resetting the Password

1	
a. Select **Password**. b. Press **i** two times.	DISPLAY SETTING → DISPLAY SETTING → PASSWORD

In step 1 displays:

DISPLAY SETTING
AL Sensitivity
Set Voltage
Password
Reset to defaults
BACK
Off

DISPLAY SETTING
AL Sensitivity
Set Voltage
Password
Reset to defaults
BACK
On

PASSWORD
Start Password   ON
Reset Password
BACK

2	
Select **Reset Password** and then press **i**.	**PASSWORD** **Start Password ON** **Reset Password** **BACK** → INPUT PASSWORD 0 0 0 0

3	
Enter your current password and then press **i**.	INPUT PASSWORD 2 3 1 4 → INPUT PASSWORD 0 0 0 0 Please input new password

21

4

Enter your new password and then press **i**.

INPUT PASSWORD

1 2 4 3

Please input new password

INPUT PASSWORD

0 0 0 0

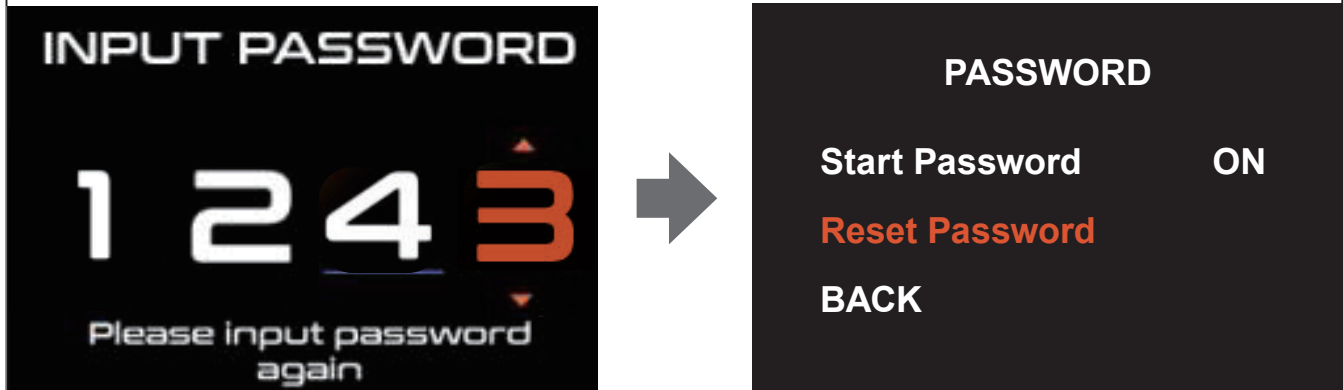Please input password again

5

Reinput the new password and then press **i**.

When finished correctly, a success should be prompted and then the display resumes by itself as shown, indicating that the new password has taken effect.

INPUT PASSWORD

1 2 4 3

Please input password again

PASSWORD

Start Password   ON

Reset Password

BACK

*Note: Again, **take notes when setting a new password** to avoid forgetting it and failing to reactivate the e-bike.*
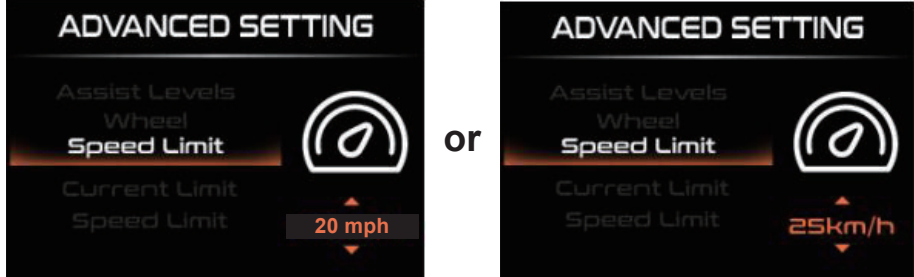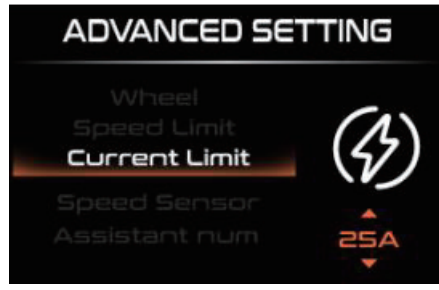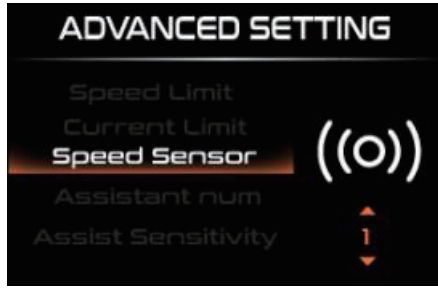
Advanced Settings Menu

General Guide

In the **Advanced Setting** menu, use the **+**, **–**, and **i** buttons for settings adjustment following the **Display Settings Menu** section.

> ⚠️ **Caution**
>
> - **ALL** factory settings in this menu **ARE** already optimized for seamless compatibility among the battery, controller, display panel, motors, wheels, and other parts of the e-bike. They should **NEVER** require **ANY** adjustment.
>
> - If they do, **ONLY** undertake such adjustments in coordination with customer service or authorized technicians.
>
> - If any random adjustment happens accidentally, resume the original settings **IMMEDIATELY**.
>
>   Contact customer service if any point herein is unclear or confusing.
>
> - Failure to follow the above can cause the e-bike to perform abnormally or **EVEN** break and may void **ALL** warranties implied or stated.

Default Settings

PAS Levels	Wheel Diameter
ADVANCED SETTING — Assist Levels / Wheel / Speed Limit — 0-5	ADVANCED SETTING — Assist Levels / Wheel / Speed Limit / Current Limit — 26

Top Speed

ADVANCED SETTING — Assist Levels / Wheel / Speed Limit / Current Limit / Speed Limit — 20 mph	**or** ADVANCED SETTING — Assist Levels / Wheel / Speed Limit / Current Limit / Speed Limit — 25km/h

Maximum Current	Speed Sensor Magnets
ADVANCED SETTING — Wheel / Speed Limit / Current Limit / Speed Sensor / Assistant num — 25A	ADVANCED SETTING — Speed Limit / Current Limit / Speed Sensor / Assistant num / Assist Sensitivity — 1

PAS Sensor Magnets	PAS Sensitivity
![ADVANCED SETTING - Current Limit / Speed Sensor / Assistant num / Assist Sensitivity / Slow Start - 12]	![ADVANCED SETTING - Speed Sensor / Assistant num / Assist Sensitivity / Slow Start / Throttle-6km - 2]
PAS Acceleration	**Push Assist Control by Throttle**
![ADVANCED SETTING - Assistant num / Assist Sensitivity / Slow Start / Throttle-6km / Throttle-PAS - 1]	![ADVANCED SETTING - Assist Sensitivity / Slow Start / Throttle-6km / Throttle-PAS / BACK - No]
Throttle Speed by PAS Level	**Motor Drive**
![ADVANCED SETTING - Slow Start / Throttle-6km / Throttle-PAS / BACK - No]	![ADVANCED SETTING - Throttle-6km / Throttle-PAS / Drive Mode / BACK - Rear]

Settings	Motor Drives
Front	Front
Rear	Rear
F/R	Dual
FR	Auto-Switch

System Version Menu

![Information - Display Software: 128-01W-V2.08.01-08.01 / Display Hardware: KD86-429W-UST-J05 - BACK]

In the **Information** menu, you can see the version numbers of the display panel's software and hardware.

To exit the menu, simply press **i**.

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