(English)

UM-7J4WA-007

User's Manual

SHIMANO

E-TUBE PROJECT Professional

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IMPORTANT NOTICE

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings.
The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

DANGER	Failure to follow the instructions will result in death or serious injury.
WARNING	Failure to follow the instructions could result in death or serious injury.
CAUTION	Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

TO ENSURE SAFETY

⚠ CAUTION

- After starting a connection check, never connect or disconnect the battery or units until the procedure is finished and the application has been exited. Failure to follow these instructions may cause the SM-PCE02 and the units to malfunction.
- Never change the content or file name, etc. of a firmware file. Failure to follow these instructions may prevent the firmware update from being performed or cause the unit to malfunction after the firmware update is performed.

Notice

- When connecting the SM-PCE02 to a PC, connect to the USB port directly, without using an intermediate device such as a USB hub.
- Make sure that the PC does not enter the standby mode during a firmware update, etc. If the PC enters the standby mode, E-TUBE PROJECT Professional stops processing and returns to the screen before connecting to the bicycle.

About this manual

Introduction

This user's manual describes how to use E-TUBE PROJECT Professional.

Make sure to read the entire manual before starting use, so that you can make the most of the functions.

Supported operating systems

- Windows 8.1 (32/64 bit)
- Windows 10 (32/64 bit)
- Windows 11 (32/64 bit)

About E-TUBE PROJECT Professional

E-TUBE PROJECT Professional is an application for the customization and maintenance of each unit. Its main functions are indicated below.

Function	Details
Update	The function for upgrading the firmware of each unit.
Customize	The function for customizing the functions and operations of the entire system to meet the preferences of the user.
Maintenance	The function for checking the status and errors of each unit and adjusting the shifting unit.
Setting	The function for configuring the various settings related to E-TUBE PROJECT.
HELP	The function for viewing help related to the various functions.
Preset	The function for saving/loading preset files and exporting them externally, etc.

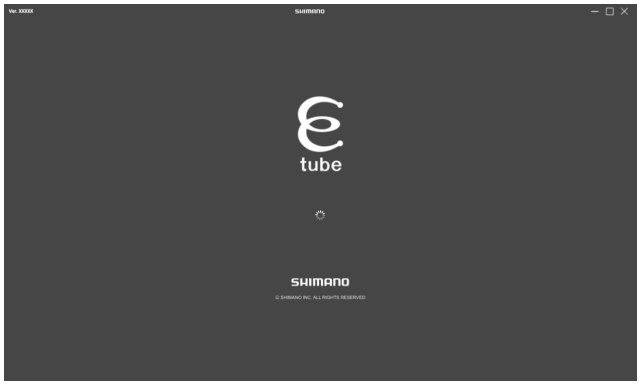
NOTICE

- When E-TUBE PROJECT Professional is first launched, the terms of use are displayed. Confirm the terms and click [AGREE].

Starting and exiting E-TUBE PROJECT Professional

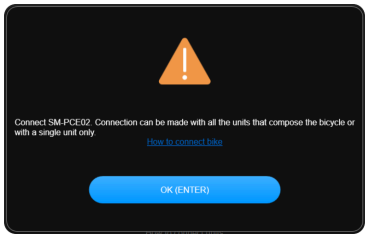
Startup

After installing E-TUBE PROJECT Professional, double-click the E-TUBE PROJECT Professional shortcut icon created on the desktop.



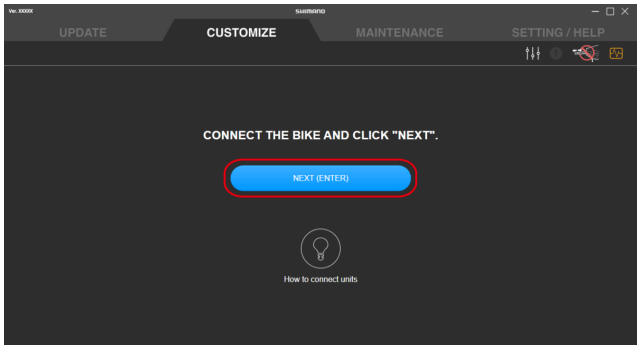
Startup conditions

When using E-TUBE PROJECT Professional, the SM-PCE02 must be connected to the PC. If a screen prompting you to connect is displayed, connect the SM-PCE02 to the PC using a USB cable.



Connecting to the bicycle

Connect the bicycle to the PC and click [NEXT (ENTER)].



NOTICE

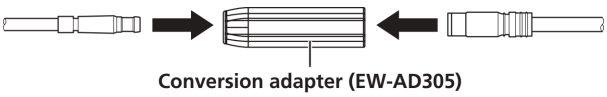
- Buttons like [NEXT (ENTER)] with “(ENTER)” displayed can be operated by pressing the Enterkey on the keyboard to perform the same operation as clicking the button.
- If recognition fails for a unit, check whether the electric wire is disconnected or not. If it is not disconnected, connect the unit to the PC by itself and perform a single unit connection.
- In order to use the latest functions, it is recommended that you connect to the Internet.

Connecting the SM-PCE02

When connecting the SM-PCE02 to a PC, connect to the USB port directly, without using an intermediate device such as a USB hub.

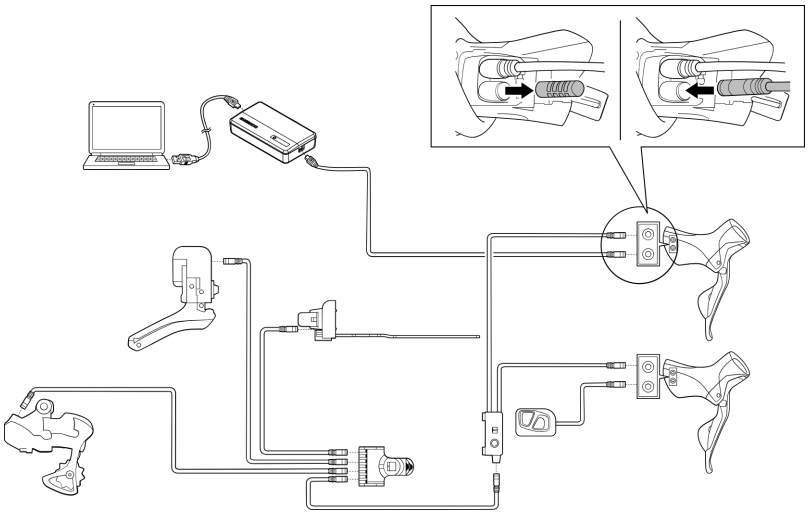
NOTICE

- Use the conversion adapter (EW-AD305) to connect an electric wire or PC link cable with a different plug shape, as required.



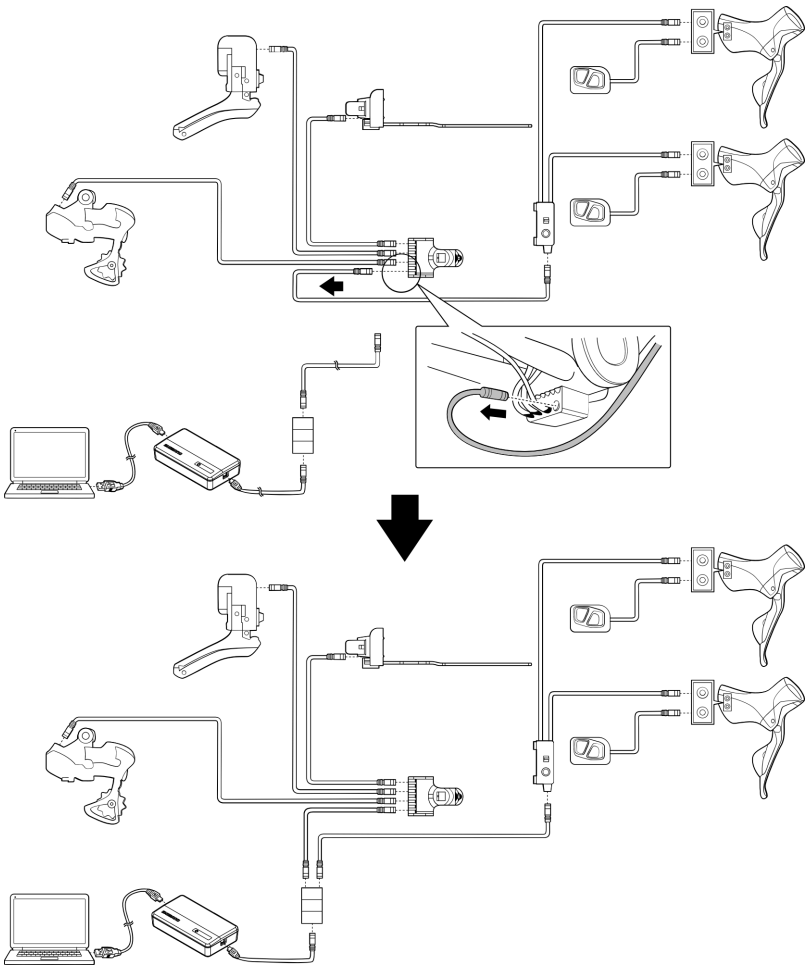
For a regular connection

Connect the SM-PCE02 to an unused E-TUBE port of your choice.



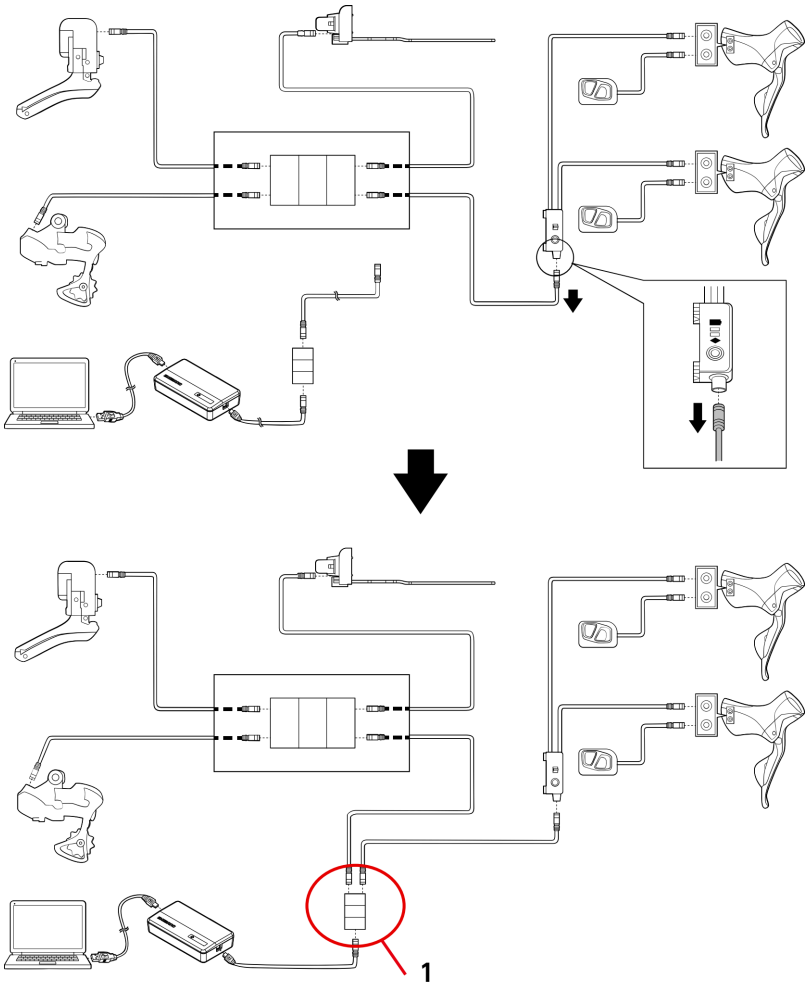
Without free E-TUBE port

Remove the electric wire from junction-B, and connect the SM-PCE02 by fitting it inside that area. A separate electric wire and junction-B to add are required.



When using a frame with internal electric wire routing

Remove the electric wire from junction-A, add the electric wire and junction-B to that area, and connect the SM-PCE02 by fitting it in. A separate electric wire and junction-B to add are required.



(1) Junction-B

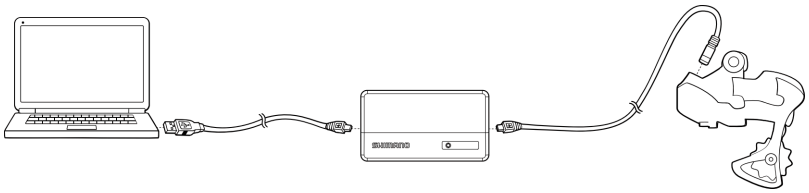
Single unit connection

“Single unit connection” refers to connecting E-TUBE PROJECT Professional to a unit on its own instead of to a bicycle. You can perform customization and maintenance on the unit, in the same manner as when connected to a bicycle.

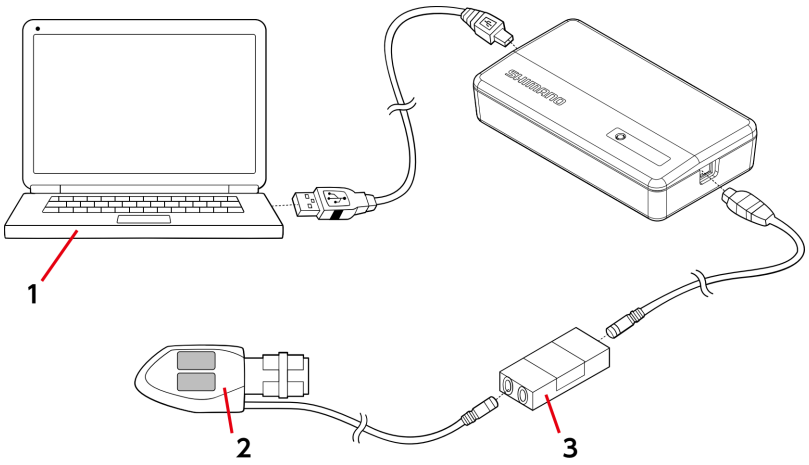
Connecting the SM-PCE02

SM-PCE02 needs to be used for a single unit connection. When connecting the SM-PCE02 to a PC, connect to the USB port directly, without using an intermediate device such as a USB hub.

When connecting a single unit



When connecting a single unit (without an E-TUBE port)



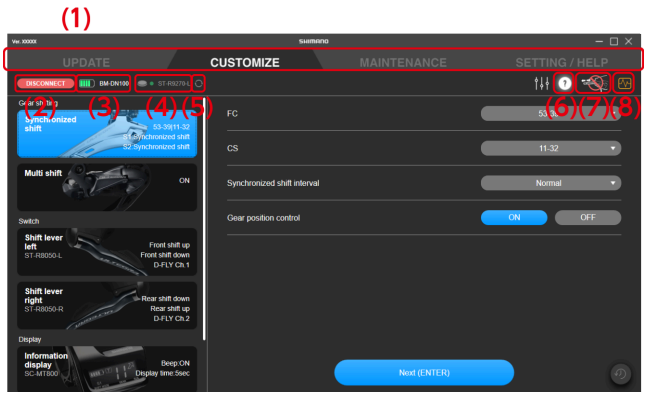
(1) PC

(2) (Example) SW-R671

(3) Junction-B

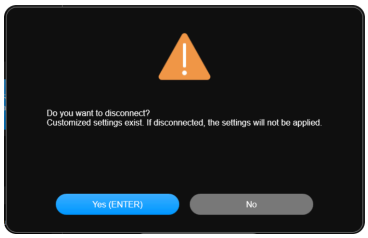
Tabs and icons on the top of the screen

Functions and states are assigned to the tabs and icons displayed on the top of the screen.



(1) The function category of each tab can be switched.

(2) Click to disconnect from the unit.
A confirmation screen is displayed if settings were customized. If you disconnect without confirming, the customized settings are not applied.



(3) Displays the battery level and battery name of the connected system.

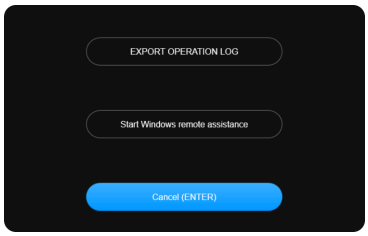
(4) Displays the battery level and unit name of the shifter/switch connected wirelessly and paired. The battery level is only displayed if you operate a button on the dialog prompting a button operation.
(Flashing red: battery level at 10% or less; green: sufficient battery level; -: battery level not retrieved)

(5) Click to display the dialog prompting a button operation. Operate a button to retrieve the battery level data of the shifter/switch again and refresh the display.

(6) If the icon is not grayed out, clicking the icon displays the help screen for the information on the screen (see → " Displaying help ").

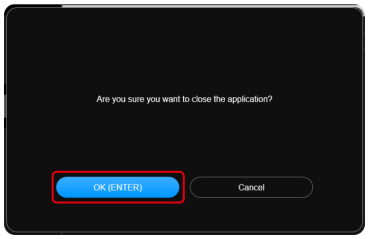
(7) Displayed when a PC connection device should not be disconnected. A dialog box indicates so when this is clicked.

(8) Click to open a folder for extracting logs or start remote assistance. Select the operation when the confirmation screen is displayed.



Exit

Click the close button on the top right of the screen.
When the exit confirmation screen is displayed, click [OK (ENTER)] to exit E-TUBE PROJECT Professional.



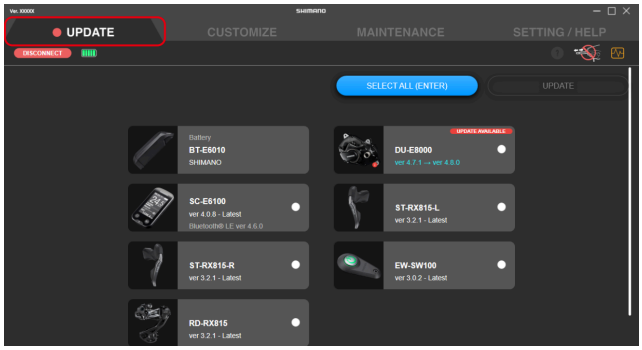
NOTICE

- You cannot exit E-TUBE PROJECT Professional during a firmware update.

Update

Update

You can upgrade the firmware of each unit. Click the [UPDATE] tab to display the update screen.



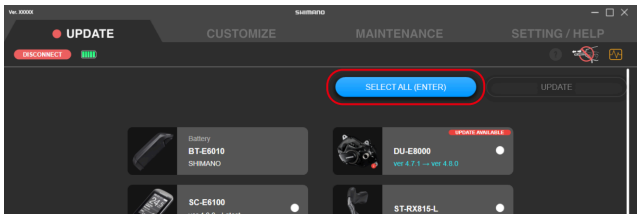
Updating the firmware

Select the unit to update, and start the firmware update.

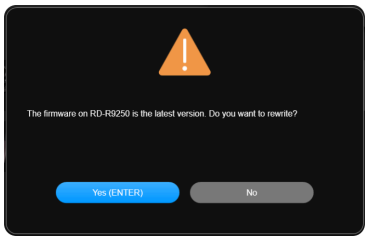
1. **Click the panel for the unit to update on the update screen.**
   The check box for the panel of the selected unit is selected.

NOTICE

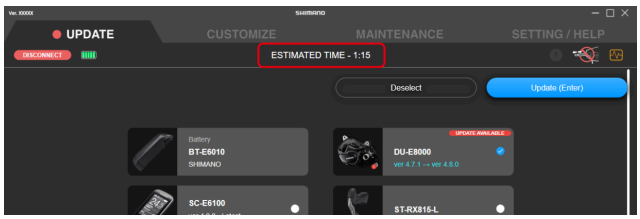
- You can click [SELECT ALL (ENTER)] to select all the units. [Deselect] is displayed when all the units are selected. Click it to deselect all the units.



- If you select a unit with the latest version of the firmware, a screen confirming whether you want to rewrite the firmware is displayed.

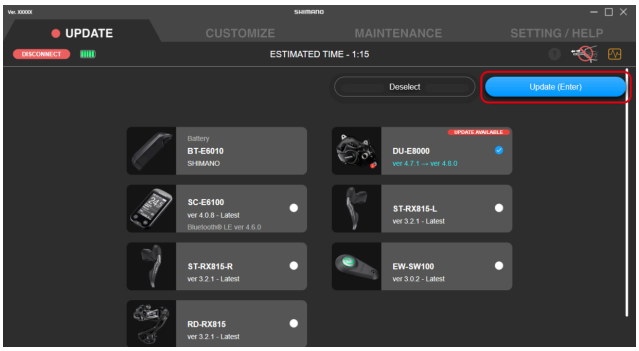


- An estimate of the total time required for updating the selected unit is displayed on the top of the screen.
  The estimated time may differ from the actual processing time, depending on factors such as the work environment.



2. **Click [Update (Enter)].**

   The update starts.

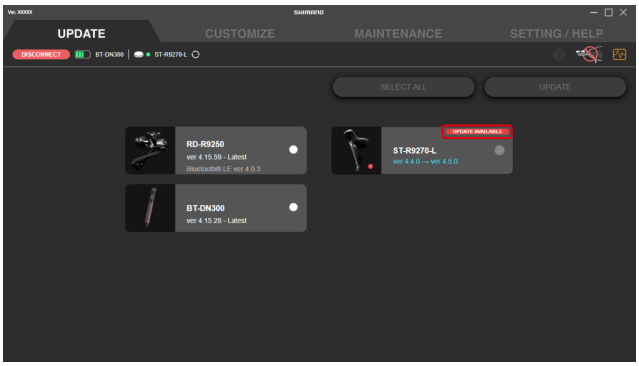


Updating the firmware of a shifter/switch compatible with wireless connections

The firmware of a shifter/switch that supports wireless connections cannot be updated while wirelessly paired with a shifting unit.
It is necessary to perform an update via a wired connection to another unit of the bicycle using an electric wire or via a single unit connection.

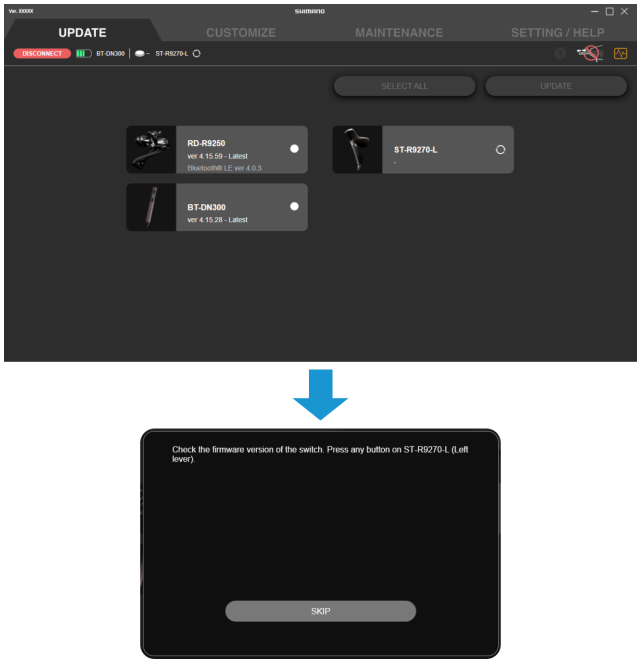
1. **Check whether an update is possible on the update screen.**

   If an update is possible, [UPDATE AVAILABLE] is displayed on the top right of the unit display.

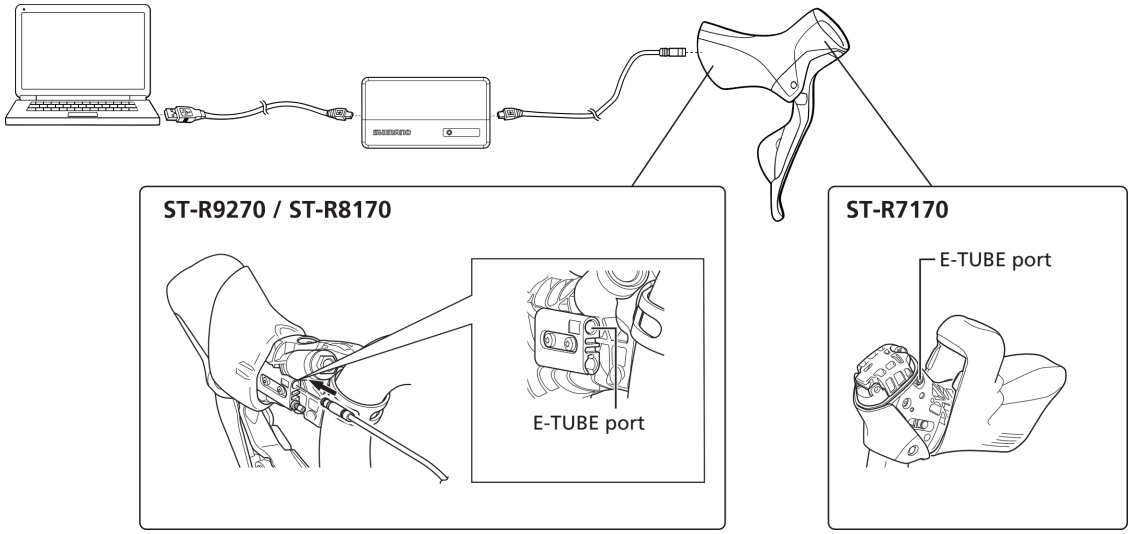


NOTICE

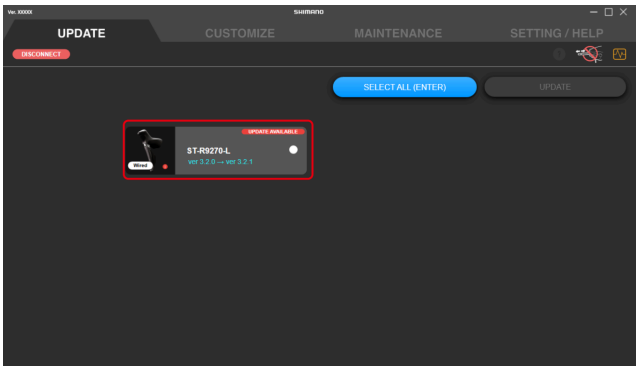
- Units that are not paired are not displayed.
- If ST-R7170 is not connected by wires, [UPDATE AVAILABLE] is not displayed even when an update is possible.
  Check whether it is possible to perform an update via a wired connection to a unit of the bicycle such as the rear derailleur using an electric wire.
- If the firmware information of the unit has not been retrieved, click  and press any button on the unit to update the information.



2. **If an update is required, connect the unit with an electric wire.**
   Perform a wired connection with SM-PCE02 via a connection to another unit of the bicycle using an electric wire or via a single unit connection.



3. **Click the panel for the unit to update on the update screen.**
   The check box for the panel of the selected unit is selected.

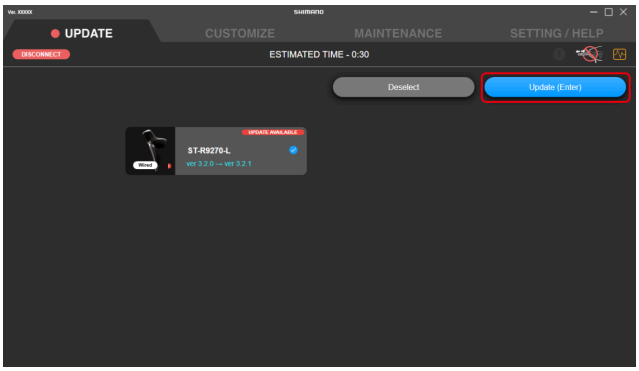


NOTICE

- [Wired] is displayed on the panel of a shifter/switch compatible with wireless connections that is using a wired connection.



4. **Click [Update (Enter)].**
   The update starts.



Restoring the firmware

If the firmware fails to update, it is necessary to perform the firmware recovery procedure.

1. **Use SM-PCE02 to connect to the unit that needs to be restored.**

2. **Follow the instructions on the screen to restore the firmware.**

NOTICE

- When connecting the SM-PCE02 to a PC, connect to the USB port directly, without using an intermediate device such as a USB hub.
- If you do not possess SM-PCE02, contact a nearby place of purchase.

Pairing

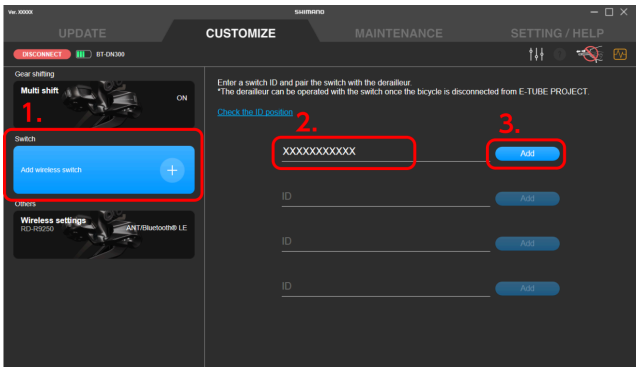
Pairing

Perform wireless pairing of the shifting unit and shifter/switch to enable wireless gear shifting.

- Entering the product serial ID to perform pairing
- Location of product serial ID
- If pairing fails

Entering the product serial ID to perform pairing

1. **Click [Add wireless switch] on the Customize screen.**



2. **Enter the product serial ID.**

   Use alphanumeric characters and uppercase characters.

3. **Click [Add].**

NOTICE

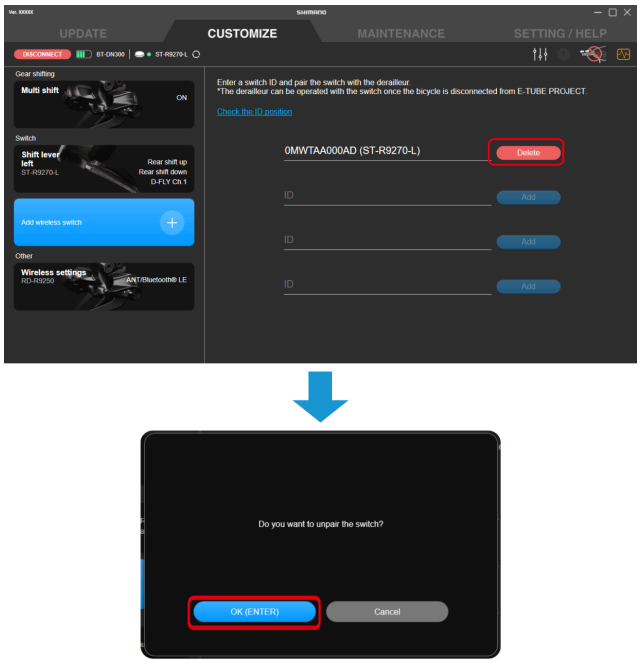
- If the entered ID is invalid, a confirmation dialog is displayed. Check the product serial ID and enter it again.
- If the entered product serial ID is already paired, a warning dialog is displayed.
- If the dual control lever on the same side (-R/-L) is already paired, a dialog will be displayed asking if you want to cancel the existing pairing.
- If there is a failure when writing the product serial ID to the rear derailleur, a warning dialog is displayed.
- If you are using an older version of the application, new shifters or switches may not be recognized. Update the application to the latest version, then perform pairing.

4. **Operate any switch on the shifter/switch to be paired.**
   Pairing begins. [Add] changes to [Delete] when the process is complete.



NOTICE

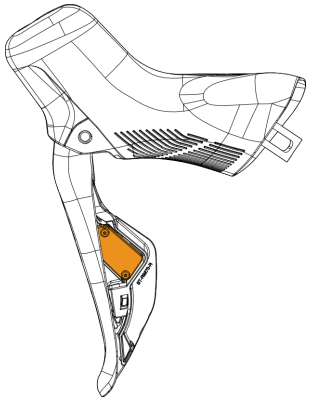
- To cancel pairing, click [Delete] of the shifter/switch to cancel, then click [OK(ENTER)] on the confirmation dialog that is subsequently displayed. The pairing will be canceled and [Delete] changes to [Add].



Location of product serial ID

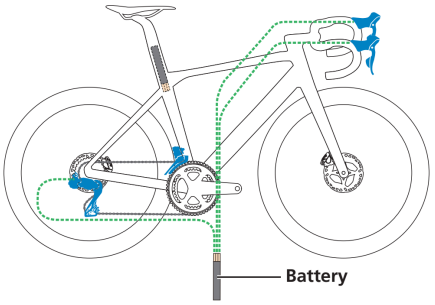
ST-R9270 / ST-R8170 / ST-R7170

The product serial ID is marked on the switch unit inside the lever.



If pairing fails

Check the following information if pairing fails.

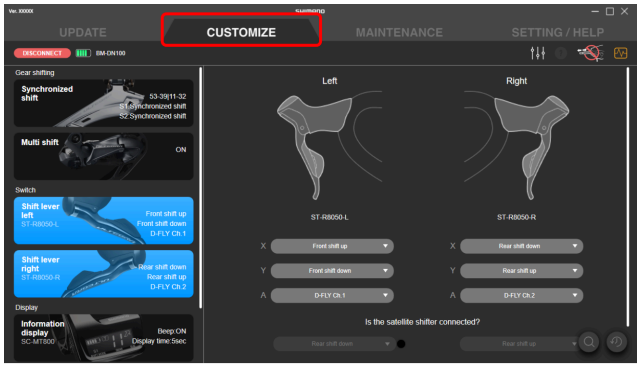
Symptoms	Causes/possibilities	Remedies
Pairing fails.	Is the battery of the switch/shifter charged?	You can check the battery level of the switch/shifter by holding down two shift switches simultaneously for 0.5 seconds or longer and checking the indication of the LED. The button battery has sufficient charge remaining if the LED lights up yellow-green, but needs to be replaced if the LED lights up red or turns off.
	Has the correct product serial ID been entered?	Check whether the correct product serial ID has been entered for the switch/shifter. In particular, check for “O” being mistaken for “0 (Ø)” or “1” being mistaken for “l”. The letter “O” is not used in the product serial ID.
	Pairing using E-TUBE PROJECT always fails.	Pairing can also be performed with a wired connection. 1. Connect the switch/shifter to pair to the rear derailleur using an electric wire. The battery must also be connected. Three electric wires are required.  2. Press and hold the function button on the rear derailleur for 5 to 8 seconds until the LED changes from yellow to flashing blue. 3. If the LED flashes green, pairing is successful. Remove the electric wire and check the operation. If the LED flashes red, pairing has failed.

Pairing has been performed, but gear shifting is not performed when the switch/shifter is pressed.	Is the battery of the switch/shifter charged?	You can check the battery level of the switch/shifter by holding down two shift switches simultaneously for 0.5 seconds or longer and checking the indication of the LED. The button battery has sufficient charge remaining if the LED lights up yellow-green, but needs to be replaced if the LED lights up red or turns off.
	The switch/shifter may have been paired with another rear derailleur.	Gear shifting may not be performed, even if a switch/shifter is displayed in E-TUBE PROJECT. Cancel pairing of the switch/shifter in E-TUBE PROJECT and perform pairing again.
	Did you press another switch/shifter that has not been paired?	Check whether the ID displayed in E-TUBE PROJECT is the same as the product serial ID marked on the product.
	Are you sure that pairing has been performed?	Pairing a switch/shifter with a rear derailleur enables wireless communication to perform gear shifting operations. Perform pairing from [Add wireless switch] using E-TUBE PROJECT.

Customize

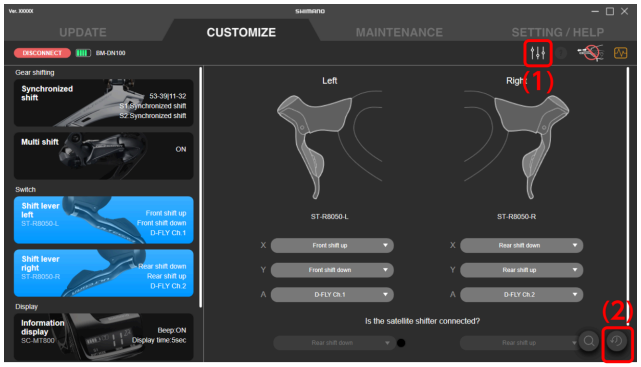
Customize

You can configure detailed settings for each unit. Click the [CUSTOMIZE] tab to display the Customize screen.



Customize screen

A list of the settings for the currently connected unit is displayed on the Customize screen. Select a function displayed on the left, and customize the settings on the right side of the screen. The displayed content and the settings that can be customized differ according to the connected units and combination of units.



(1) Click to display the preset file screen (see → " Using a preset file ").

(2) Click to restore the settings of the unit being configured to the default values. The changes are not written to the bicycle until [Apply (ENTER)] is clicked.

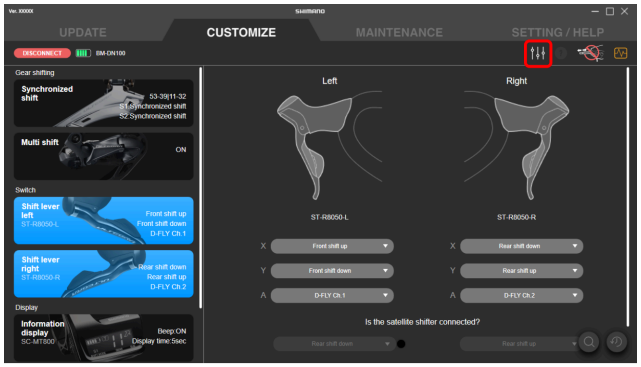
Cautions regarding the Customize screen

- If a setting value of the connected unit is invalid because it is outside the range of allowed values or another reason, the input field will be blank when customizing and [Apply (ENTER)] cannot be selected.

- If the same function is assigned to multiple buttons of a single shifter/switch, [Apply (ENTER)] can be clicked but an error dialog may be displayed and the settings may fail to be applied.

Using a preset file

You can save the settings of each connected unit as a preset file, or load a saved preset file to the units. You can also export a saved file externally or import an external file.
Click on the Customize screen to display the preset file screen.



NOTICE

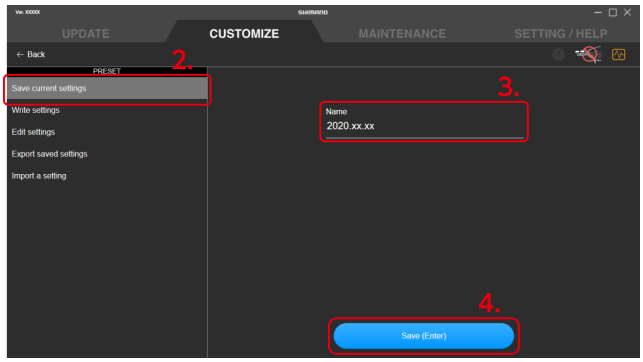
- To delete a preset file, directly delete the corresponding file from the folder set in [Location where preset file is saved].

Saving a preset file

You can save the current settings.
Set the destination to save the preset file on the setting screen (→ " Location where preset file is saved "), then save the file.

1. **Click on the Customize screen.**
   The preset file screen is displayed.
2. **Click [Save current settings].**
3. **Enter the preset file name.**
   The year, month, and day are used as the default preset file name. The display format of the year, month, and day depend on the operating system of your PC.

4. **Click [Save (Enter)].**



NOTICE

- When the unit configuration corresponds to one of the following, a preset file cannot be saved:
  - When a total of two or more ST-***-L units are connected
  - When a total of two or more ST-***-R units are connected
  - When a total of two or more SW-***-L units are connected
  - When a total of two or more SW-***-R/SW-E6000/SW-R600/SW-S705 units are connected, regardless of the combination

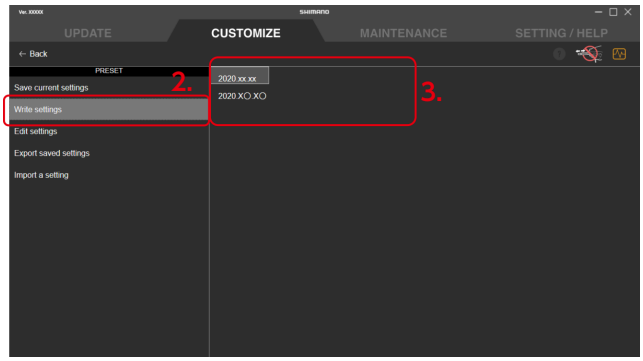
Writing a preset file

You can write the settings in a saved preset file to each connected unit.

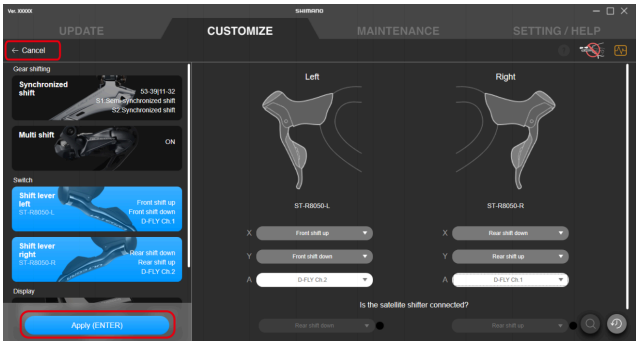
1. **Click on the Customize screen.**
   The preset file screen is displayed.

2. **Click [Write settings].**

3. **Select the preset file to write.**



4. **Click [Apply (ENTER)].**
   Click [Cancel] to cancel writing.



NOTICE

- Settings that were loaded but not applied are displayed in red.
- If none of the settings are applied for a function, no changes are applied for that function.
- You can also edit the settings on this screen before writing them.
- If the settings are not applied, update the firmware for all units to the latest version, and try writing the settings again.

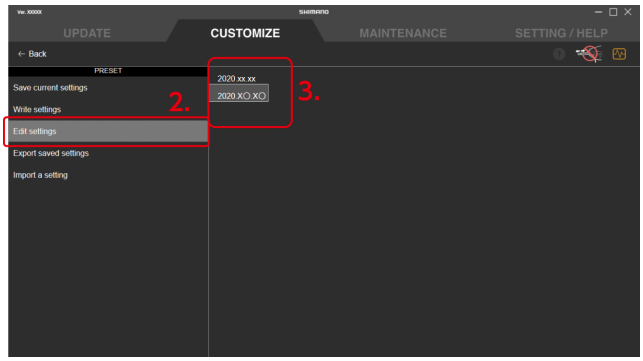
Editing a preset file

You can edit the content of a loaded preset file.

1. **Click on the Customize screen.**
   The preset file screen is displayed.

2. **Click [Edit settings].**

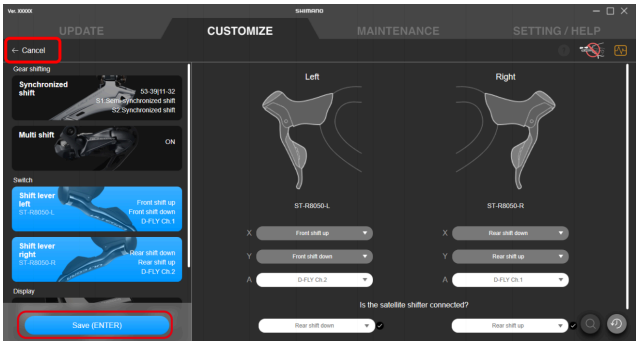
3. **Select the preset file to edit.**



4. **Change the settings, and click [Save (ENTER)].**

   The changes are saved, and the preset file screen is displayed again.

   Click [Cancel] to cancel editing.



Export preset files

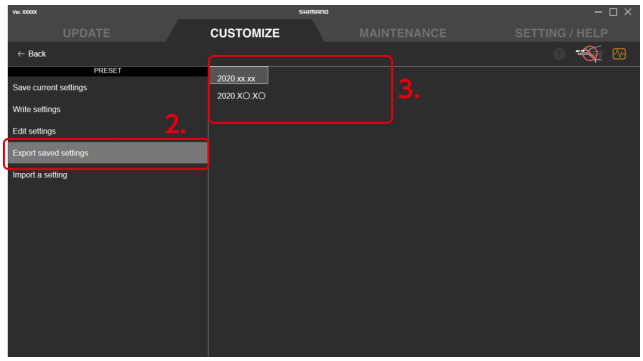
You can export the content of a saved preset file.

1. **Click on the Customize screen.**

   The preset file screen is displayed.

2. **Click [Export saved settings].**

3. **Select the preset files you want to export.**



4. **When the dialog for specifying the export destination is displayed, select the destination to save and file name.**

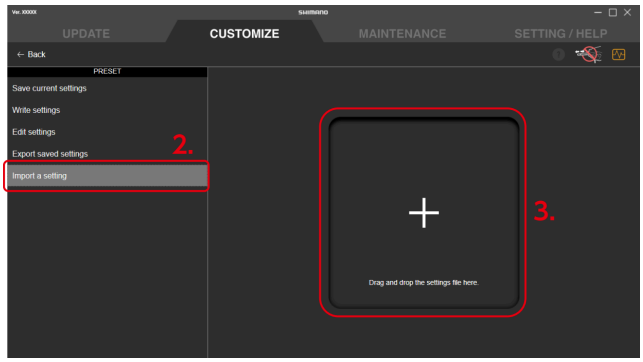
Loading a preset file

You can import a preset file exported on a different PC or other devices.
You cannot import a preset file created in a version of E-TUBE PROJECT earlier than Ver.4.0.0.

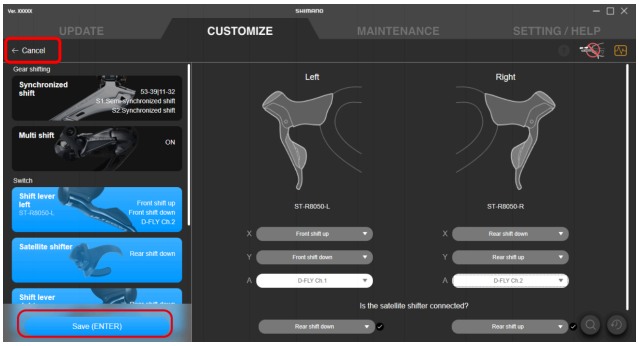
1. **Click on the Customize screen.**
   The preset file screen is displayed.

2. **Click [Import a setting].**
   The load screen is displayed.

3. **Drag and drop the preset file to load to the drop area.**
   The settings of the loaded preset file are displayed.



4. **If necessary, change the settings and click [Save (ENTER)].**
   The changes are saved, and the preset file screen is displayed again.
   Click [Cancel] to cancel importing.



E-BIKE

You can customize the unit settings related to E-BIKE.

Assist settings

You can configure the various settings related to the assist function of E-BIKE.

1. **Click the function to configure on the Customize screen.**

2. Configure the various settings.

Riding characteristic

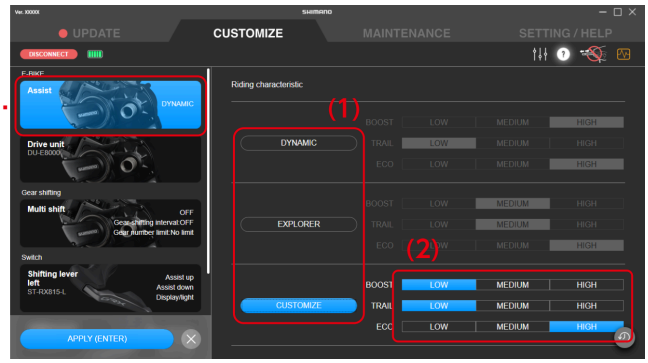
There are 3 riding characteristics to choose from.

Type	Details
DYNAMIC	There are 3 assist mode levels that can be changed with a switch. It offers you support when riding on an E-MTB with “ECO” that provides more assist power, “TRAIL” for superior control, and “BOOST” for powerful acceleration.
EXPLORER	EXPLORER provides both assist power controllability and low battery consumption for the 3 assist mode levels. It is suitable for single track riding.
CUSTOMIZE	The desired assist level can be chosen from LOW/MEDIUM/HIGH for each of the 3 assist mode levels.

(1) Select the type of riding characteristic.

(2) The [BOOST], [TRAIL], and [ECO] setting can only be changed when [CUSTOMIZE] has been selected in (1).

1.



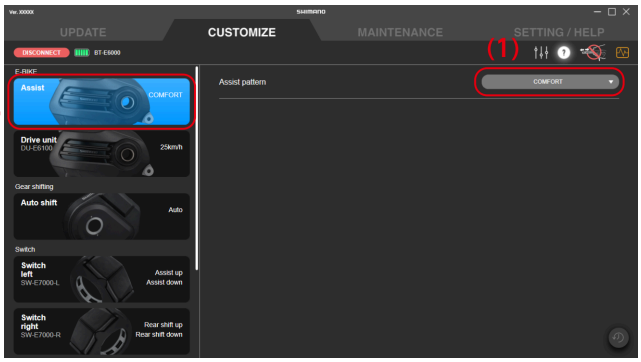
Assist pattern

There are 2 assist patterns to choose from.

Type	Details
COMFORT	Provides a smoother ride and more normal bicycle-like feeling with the max torque of 50 N·m.
SPORTIVE	Provides a level of assistance that lets you easily climb steep hills with the max torque of 60 N·m. (Depending on the internal shifting unit model, the max torque may be controlled to 50 N·m.)

(1) Select the type of assist pattern.

1.



Selecting/creating an assist profile (Assist characteristics/Max torque/Assist start)

You can create 2 types of assist profiles to choose from. The profiles can also be switched with a cycle computer. Adjusts 3 parameters for each of the 3 assist mode levels that can be changed with a switch.

Type	Details
Assist character	With E-BIKE, the assist torque is applied according to the pedal pressure. When the setting is moved toward POWERFUL (the right side), assistance is provided even with low pedal pressure. When the setting is moved toward ECO (the left side), the balance between the assist level and low battery consumption can be optimized.
Max torque	The maximum assist torque output by the drive unit can be changed.
Assist start	The timing when assistance is provided can be changed. When the setting is toward QUICK (the right side), assistance is provided quickly after the crank starts rotating. When the setting is toward MILD (the left side), assistance is provided slowly.

(1) Mode graphs are displayed for each assist profile.

(2) Click to display or hide a graph.

(3) Select the assist profile to change the settings of. Displayed with the assist profile name set in (5).
After exiting the application, assist is performed with the assist profile selected here.

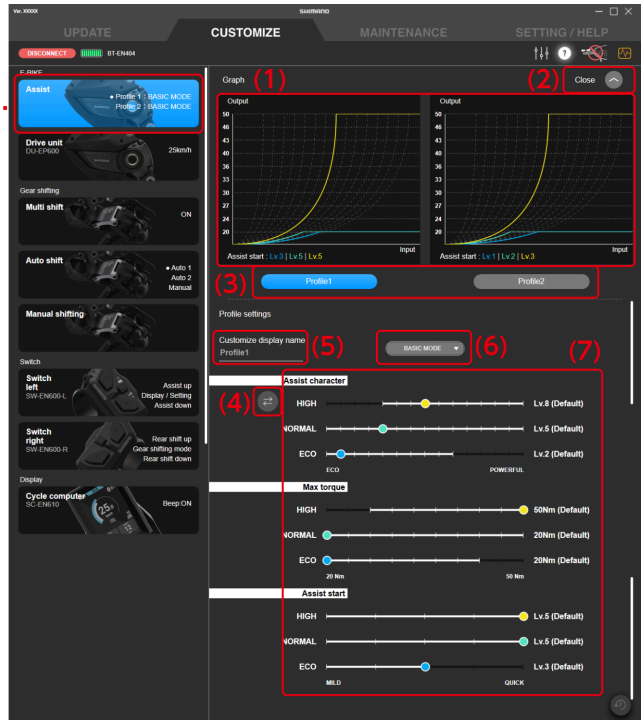
(4) Click to switch the assist mode (BOOST/TRAIL/ECO ↔ HIGH/NORMAL/ECO).

(5) Set the assist profile name.
Up to 10 alphanumeric characters can be set.

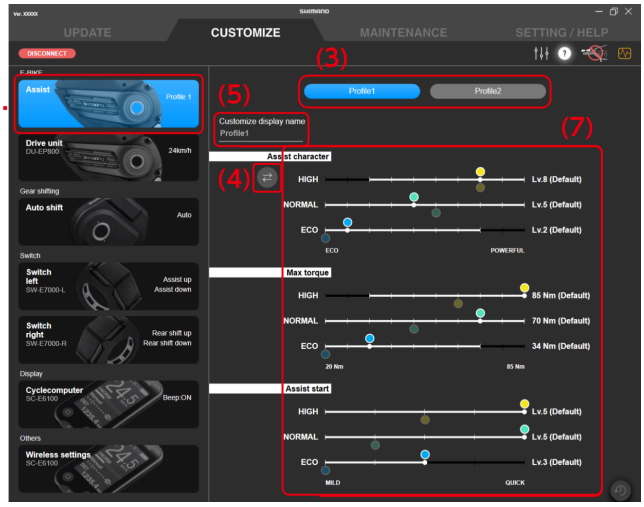
(6) Click to select [BASIC MODE] or [FINE TUNE MODE].

(7) Select the various settings.
The range that can be selected differs for each setting.
You can configure the settings while switching the assist profile with the button selected in step (3).

DU-EP801 / DU-EP600

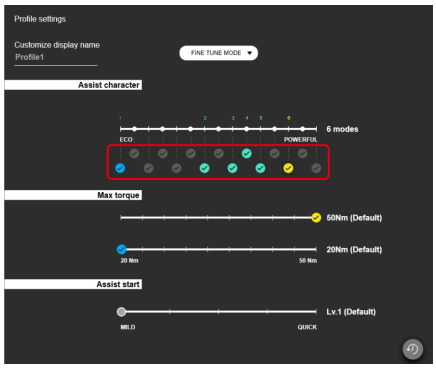

UPDATE
CUSTOMIZE
MAINTENANCE
SETTING / HELP
DISCONNECT
BT-EN404
1.
Assist
Profile 1 : BASIC MODE
Profile 2 : BASIC MODE
Drive unit
DU-EP800
25km/h
Gear shifting
Multi shift
ON
Auto shift
Auto 1
Auto 2
Manual
Manual shifting
Switch
Switch left
SW-EN600-L
Assist up
Display / Setting
Assist down
Switch right
SW-EN600-R
Rear shift up
Gear shifting mode
Rear shift down
Display
Cycle computer
SC-EN610
Beep:ON
Graph
(1)
(2)
Close
Output
Input
Assist start : Lv.3 | Lv.5 | Lv.5
Assist start : Lv.1 | Lv.2 | Lv.3
(3)
Profile1
Profile2
Profile settings
Customize display name
Profile1
(5)
BASIC MODE
(6)
(7)
(4)
Assist character
HIGH
NORMAL
ECO
Lv.8 (Default)
Lv.5 (Default)
Lv.2 (Default)
POWERFUL
Max torque
50Nm (Default)
20Nm (Default)
20Nm (Default)
20 Nm
50 Nm
Assist start
Lv.5 (Default)
Lv.5 (Default)
Lv.3 (Default)
MILD
QUICK

DU-EP800


UPDATE
CUSTOMIZE
MAINTENANCE
SETTING / HELP
DISCONNECT
1.
Assist
Profile 1
Drive unit
DU-EP800
24km/h
Gear shifting
Auto shift
Auto
Switch
Switch left
SW-E7000-L
Assist up
Assist down
Switch right
SW-E7000-R
Rear shift up
Rear shift down
Display
Cyclecomputer
SC-E5100
Beep:ON
Others
Wireless settings
SC-E5100
(3)
(5)
Profile1
Profile2
Customize display name
Profile1
(7)
(4)
Assist character
HIGH
NORMAL
ECO
Lv.8 (Default)
Lv.5 (Default)
Lv.2 (Default)
POWERFUL
Max torque
85 Nm (Default)
70 Nm (Default)
34 Nm (Default)
20 Nm
85 Nm
Assist start
Lv.5 (Default)
Lv.5 (Default)
Lv.3 (Default)
MILD
QUICK

NOTICE

- When [FINE TUNE MODE] is selected, click [✓] and select the level of assist characteristics to enable. You can set a maximum of 15 levels of assist characteristics.



- The white circle on the slider indicates the initial value.
- On the DU-EP800 setting screen, the setting values of assist profiles that are not selected are displayed faintly on the slider.

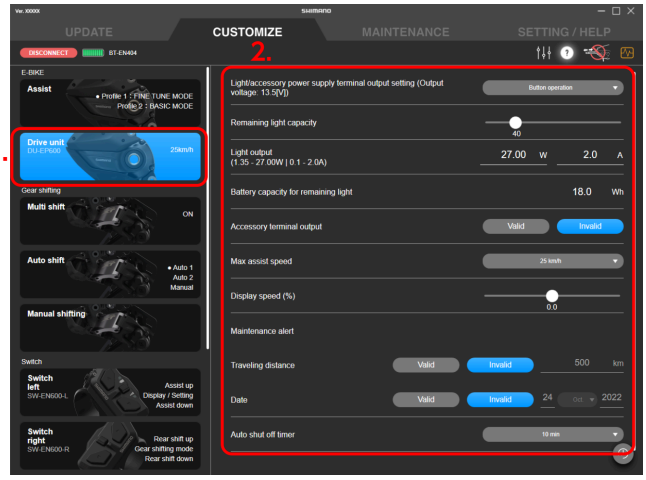
3. **Click [Apply (ENTER)].**
   The settings are applied to the unit.

Drive unit settings

You can configure the settings related to the drive unit.

1. **Click the unit to configure on the Customize screen.**

2. Configure the various settings.



Light ON/OFF setting

When connecting lights, set [ON]; when not connecting lights, set [OFF].

Light/accessory power supply terminal output setting

Select [Always OFF], [Button operation], or [Always ON] as the light/accessory power supply terminal output method.

Remaining battery capacity for light after assist stops

Set how many watt-hours (Wh) of power to retain in the battery for light after assist stops.

Remaining light capacity

Use the slider to set how many minutes of light to retain in the battery after assist stops.

NOTICE

- Rules and regulations for the light illumination and lamp illumination time may apply, depending on the region. Please observe the appropriate rules and regulations of the country, state or region when using the product.

Light output

Enter the light output value.

Accessory terminal output

Select [Valid] or [Invalid] for the output from the accessory terminal.

Maximum assist speed

Select the maximum assist speed from the pull-down menu.

Display speed

If there is a difference between the speed displayed on the cycle computer and that shown on another speed display, the speed display value can be adjusted with the slider.

Automatic power OFF timer

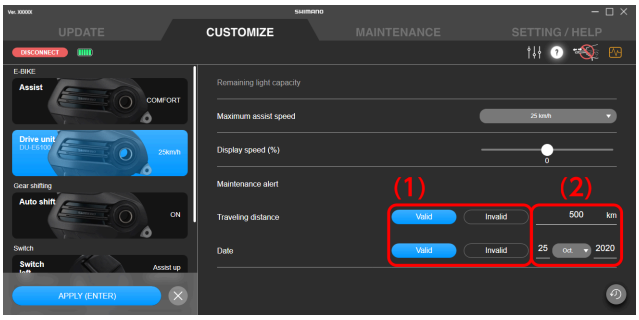
Select the time until the power of the system automatically turns OFF.

Maintenance alert

You can set the traveling distance and date for displaying the maintenance alert.

(1) You can select whether to display the maintenance alert for both the traveling distance and the date.

(2) Only set the traveling distance and date for displaying the maintenance alert if you selected [Valid] in (1).



3. Click [APPLY (ENTER)].

The settings are applied to the unit.

Shift mode

You can customize the movement of the shifting unit, etc.

NOTICE

- To set synchronized shift, all the conditions indicated below must be met.
  If it cannot be set despite all the conditions being met, update the firmware for all units to the latest version.

  For MTB

1	An 11-speed electronic rear derailleur is used.
2	An 11-speed electronic front derailleur is used.

  For ROAD

1	An 11-speed or 12-speed electronic rear derailleur is used.
2	An 11-speed or 12-speed electronic front derailleur is used.
3*	One of the SC- M****, EW- RS910, SM- EW90A, or SM- EW90B is used as the junction.
4	Either BM-DN100, BT-DN110, or BT-DN300 is used.

  * When a 12-speed derailleur is used, 3 does not need to be met.

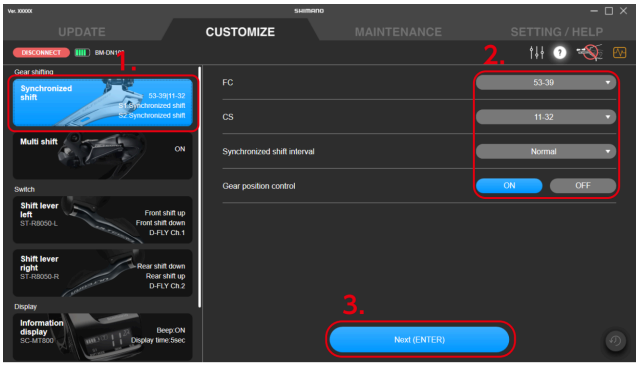
- To set multi shift, both the conditions indicated below in 1 and 2 must be met.
  If it cannot be set despite both the conditions being met, update the firmware for all units to the latest version.

1	For E-BIKE	A drive unit other than DU-E60*0 or DU-E6001 is used.
	For other than E-BIKE	EW-EX020 is not used.
2	An electronic rear derailleur (external shifting unit) is used.	

Synchronized shift

Synchronized shift is a function that automatically shifts gears on the front derailleur in synchronization with rear derailleur gear shifting.

1. **Click the function to configure on the Customize screen.**



2. **Configure the various settings.**

   Select the number of FC gear teeth

   Select the number of chainring gear teeth from the pull-down menu.

   Select the number of CS gear teeth

   Select the cassette sprocket from the pull-down menu.

   Synchronized shift interval setting

   Select Standard/Slow/Very Slow from the pull-down menu.

   Gear position control setting

   Select whether to control the gear position.

   For details on gear position control, refer to the dealer's manual for the rear derailleur being used.

   NOTICE

   - The synchronized shift interval settings and gear position control setting may not be displayed in the settings or may be displayed but not be able to be changed, depending on the combination of component configuration and number of teeth.

3. **Click [Next (ENTER)].**

   The synchronized shift setting screen is displayed.

4. Configure the detailed synchronized shift settings.

Configure shift mode 1 (S1) and shift mode 2 (S2).

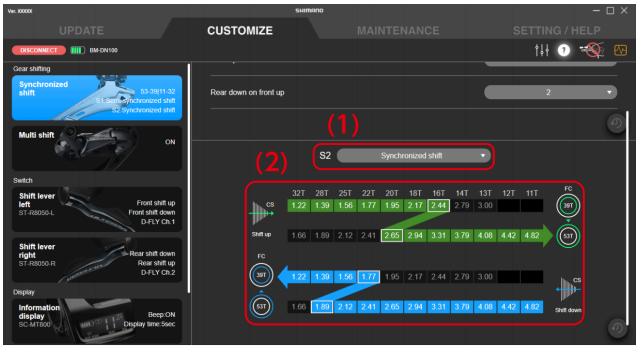
Select synchronized shift or semi-synchronized shift for the shift mode.

Semi-synchronized shift may not be available, depending on the component configuration.

Detailed synchronized shift settings

(1) Select [Synchronized shift] from the pull-down menu.
The synchronized shift map setting screen is displayed.

(2) You can click and move the area enclosed in white to change the synchronized shift map.



NOTICE

- The gear position and number of teeth of the crank, the position and number of teeth of the cassette sprocket, and the gear ratio at each gear position are written in the synchronized shift map. The gear position where the synchronized shift is performed is enclosed in white. Green means shift up, and blue means shift down.
- Click [Copy S1] to copy the synchronized shift map in S1 to S2.
  Click [Copy S2] to copy the synchronized shift map in S2 to S1.
- The movable range is determined based on the following rules, to enable comfortable synchronized shifting. The shifting point (area enclosed in white) for the front derailleur on the synchronized shift map is called the synchronization point.

  (1) Shift up synchronization
  Synchronization point RD gear position ≥ synchronization destination RD gear position
  Up to the first gear ratio smaller than the synchronization source can be selected for the synchronization destination gear ratio

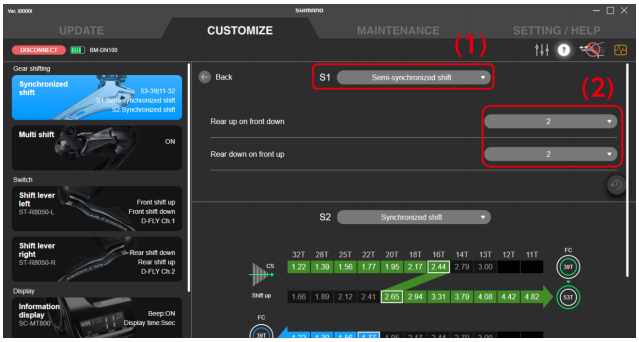
  (2) Shift down synchronization
  Synchronization point RD gear position ≤ synchronization destination RD gear position
  Up to the first gear ratio larger than the synchronization source can be selected for the synchronization destination gear ratio

Detailed semi-synchronized shift settings

Semi-synchronized shift is a function that automatically shifts the rear derailleur when the front derailleur is shifted in order to obtain optimal gear transition. At this time, it is possible to select among rear derailleur gear positions 0 - 4. (Some gear positions cannot be selected depending on gear combination.)

(1) Select [Semi-synchronized shift] from the pull-down menu.

(2) Select the gear position from the pull-down menu.

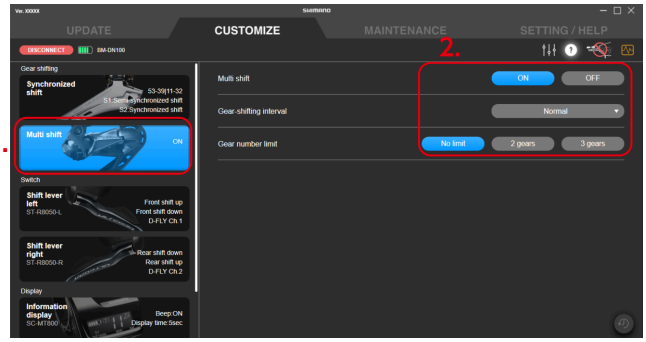


5. **Click [Apply (ENTER)].**
   The settings are applied to the unit.

Multi shift

You can configure settings related to multi shift.
Multi shift is a function for continuously shifting multiple gears of the rear derailleur or motor unit by holding down the shift switch. (Multi shift is not available for the front derailleur. When synchronized shift is set, the front derailleur may also shift gears when multi shift is used for the rear derailleur.)
* In order to set multi shift, it is necessary to connect the drive unit and battery unit, or battery holder unit, in addition to the motor unit or shifting unit.

1. **Click the function to configure on the Customize screen.**



2. **Configure the various settings.**

   The items that can be selected differ according to the unit configuration.

   Multi shift mode setting

   You can select whether or not to use multi shift. If you are using a 2-level gear switch, you can select this for both the 1st level and 2nd level.

   Gear-shifting interval

   Select the gear-shifting interval for multi shift from one of the five levels from the pull-down menu.

   Gear number limit

   You can limit the number of gears shifted by pressing and holding the shift lever.

   For details on gear position control, refer to the dealer's manual for the rear derailleur being used.

NOTICE

- Fully understand the features of the gear-shifting interval, then set the gear-shifting interval according to the riding conditions, such as the terrain and the riding style of the rider.

Gear-shifting interval	Benefits	Drawbacks
Fast setting	• Quick multi shift is possible • The rider can quickly adjust the cadence or traveling speed in response to changes in the riding conditions	• A high cadence is required when gear shifting • Unintended over-shifting occurs easily
Slow setting	• Gear shifting can be performed reliably	• Gear shifting takes some time

3. **Click [Apply (ENTER)].**

   The settings are applied to the unit.

Auto shift

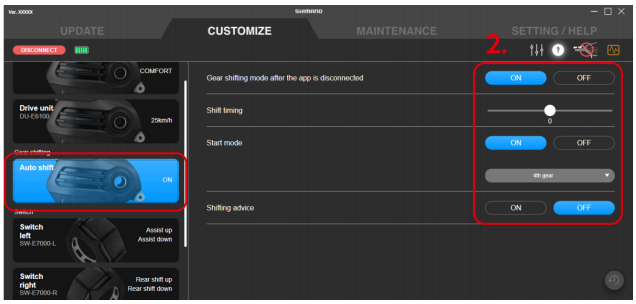
You can configure settings related to auto shift.

NOTICE

- AUTO FREE SHIFT

  AUTO FREE SHIFT enables stability and control to be maintained when riding by automatically selecting the optimal gear while coasting to roads with considerable terrain variation and switchbacks.

1. **Click the function to configure on the Customize screen.**



2. **Configure the various settings.**

   Gear shifting mode after the app is disconnected

   Determine whether auto shift is ON or OFF.

   Shifting timing

   Select the reference value of the crank arm speed at which auto shift is performed using the slider.

   The larger the value, the higher the crank arm speed for gear shifting. This is effective for fast pedaling with a light load. The smaller the value, the lower the crank arm speed for gear shifting. This is effective for slow pedaling with an excessive load.

   Start mode

   With Start mode ON, auto shift will shift into a gear set in advance when you come to a stop. Enables you to start from a light gear.

   Shifting advice

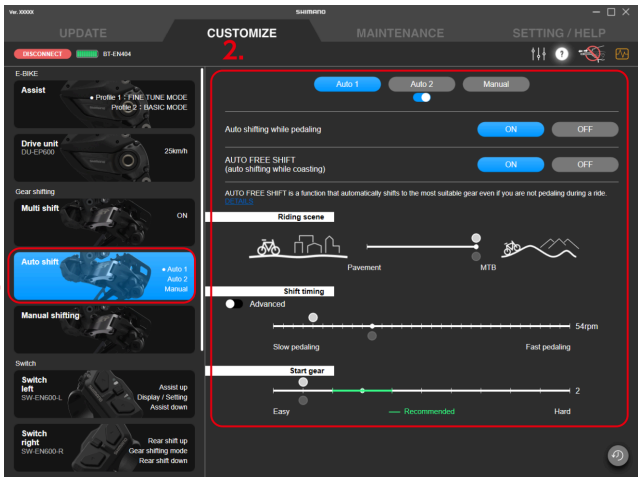
   Gear shifting advice can be switched ON/OFF. Gear shifting advice is displayed on the cycle computer at the timing set in [Shift timing].

3. **Click [Apply (ENTER)].**

   The settings are applied to the unit.

Auto shift of the DU-EP801/DU-EP600

1. Click the function to configure on the Customize screen.



2. Configure the various settings.

Items may not be displayed or settings may not be able to be selected or changed, depending on the unit configuration.

Mode selection for auto shift

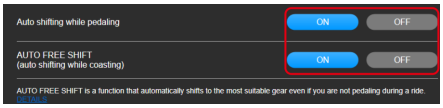
Select [Auto1], [Auto2] or [Manual] as the mode to set. The last mode selected before clicking [ENTER] will be the auto shift mode after the application is disconnected.

Click the button below [Auto2] to set whether to enable [Auto2].



Auto shifting while pedaling/AUTO FREE SHIFT

[ON] or [OFF] can be set for auto shifting while pedaling and auto shifting while not pedaling when riding.



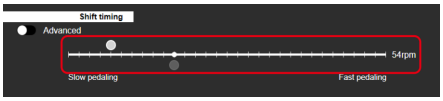
Riding scene

Select the riding scene using the slider.

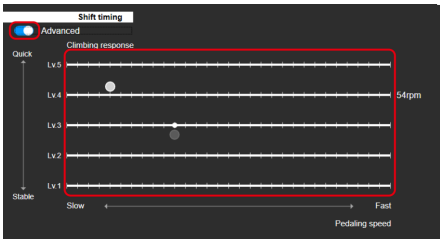


Shifting timing

Select the reference value of the crank arm speed at which auto shift is performed using the slider.



Click [Advanced] to configure more detailed settings.



Start gear

Use the slider to select the lower limit for the gear to automatically shift to, in order to make it hard to switch to a gear lighter than a certain line immediately after starting from a stop.

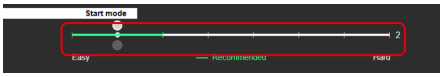
The recommended range is displayed in green.



Start mode

Use the slider to select the gear to shift to when the bicycle has stopped. Enables you to start from a light gear.

The recommended range is displayed in green.



NOTICE

- The white circle on the slider indicates the initial value.
- The setting values of auto shift that are not selected are displayed faintly on the slider.
- The current setting value is displayed on the rightmost side.

3. **Click [Apply (ENTER)].**

   The settings are applied to the unit.

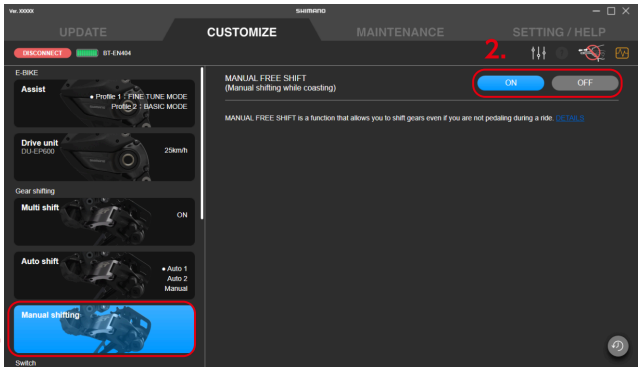
Manual gear shifting

Set whether to enable MANUAL FREE SHIFT.

NOTICE

- MANUAL FREE SHIFT:
  MANUAL FREE SHIFT enables stability and control to be maintained when riding by manually selecting the optimal gear while coasting to roads with considerable terrain variation and switchbacks.

1. **Click the function to configure on the Customize screen.**



2. **Select [ON] or [OFF].**

3. **Click [Apply (ENTER)].**
   The settings are applied to the unit.

Motor unit settings

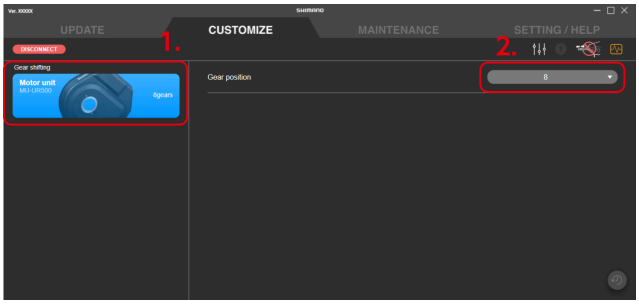
Set the motor unit gear setting after checking the shifting unit to install.

* Please refer to the dealer's manual for the model numbers of compatible internal geared hubs.

Motor unit gear setting

1. **Click the function to configure on the Customize screen.**

2. **Select the number of gears in the internal geared hub that the motor unit was installed to.**



3. **Click [Apply (ENTER)].**
   The settings are applied to the unit.

Switch

Configure the settings related to the connected switch.

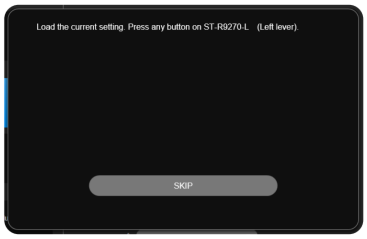
Function assignment

Assign functions to the buttons on the left and right switches.

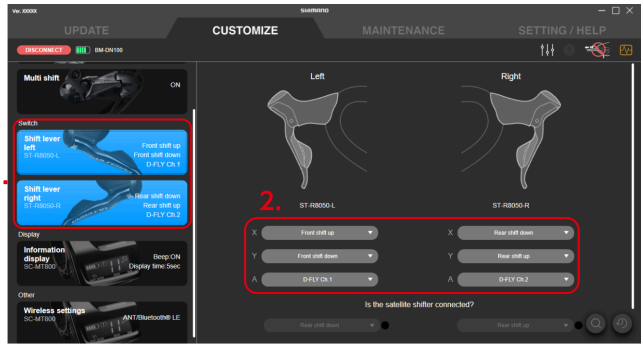
1. **Click the function to configure on the Customize screen.**
   Both the left and right switches are selected.

NOTICE

- If a shifter/switch compatible with wireless connections is paired, a dialog prompting a button operation is displayed. Follow the instructions on the dialog to operate a button.
  If you clicked [SKIP], you cannot check the settings currently assigned to the shifter/switch compatible with wireless connections. To check the current settings, display another screen then return to the setting screen and operate a button.



2. Select the function to assign to each button from the pull-down menu.



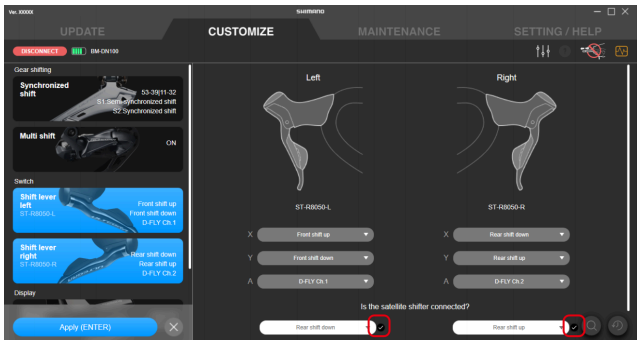
■ Functions displayed in the pull-down menu

Only available functions are displayed on the menu.

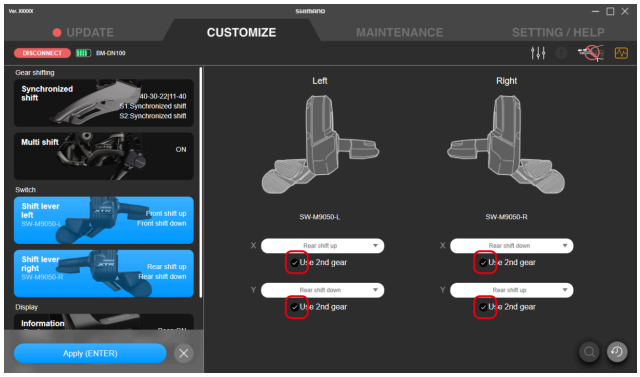
Function	Explanation
[Rear shift up] [Front shift up]	The gears shift from a light gear to a heavy gear.
[Rear shift down] [Front shift down]	The gears shift from a heavy gear to a light gear.
[D-FLY Ch. 1]	Assign Ch. 1.
[D-FLY Ch. 2]	Assign Ch. 2.
[D-FLY Ch. 3]	Assign Ch. 3.
[D-FLY Ch. 4]	Assign Ch. 4.
[Assist up]	Raise the level of assistance in the assist mode.
[Assist down]	Lower the level of assistance in the assist mode.
[Display]	Switches the screens of the display monitor.
[Display/light]	Switches the screens of the display monitor. * Pressing and holding the switch turns the light ON/OFF. It may not switch, depending on the unit configuration.
[Cycle computer left]	Moves the screen of the cycle computer from another manufacturer to the left.
[Cycle computer right]	Moves the screen of the cycle computer from another manufacturer to the right.
[RD function]	Performs the same operation as the function button of the rear derailleur.
[Gear shifting mode]	Switches the auto shift mode.
[Display / Setting]	Switches the cycle computer screen and displays the setting menu.
[Light ON/OFF]	Turns the light ON/OFF.

NOTICE

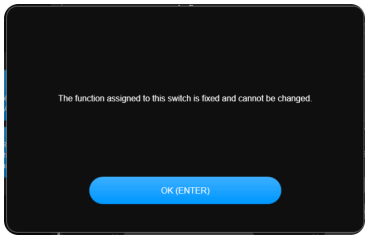
- When using a sprinter switch, you can assign functions from the pull-down menu by selecting the items indicated below.



- When using a switch supporting 2-level gear shifting, you can add check marks to each of the items indicated below to select whether to use the second switch level. This may not be able to be selected, depending on the function assigned to the button.



- If you click a switch that you cannot change the assigned function for, a dialog indicating so is displayed.



3. **Click [Apply (ENTER)].**
   The settings are applied to the unit.

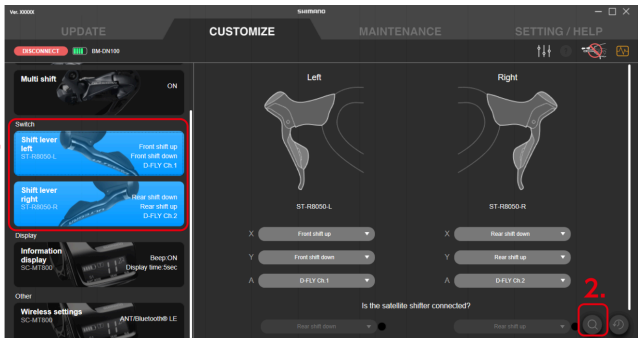
NOTICE

- If a shifter/switch compatible with wireless connections is paired, a dialog prompting a button operation is displayed. Follow the instructions on the dialog to operate a button.
  If you clicked [SKIP], the setting changes are not applied to the unit.



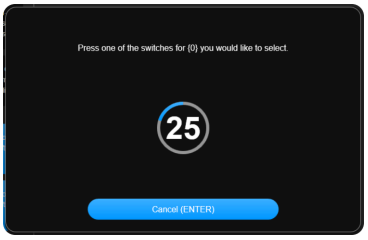
Checking via a search

When multiple switches of the same model are connected, you can check which switch is set.



1. **Click the function to configure on the Customize screen.**
   Both the left and right switches are selected.

2. **Click the search button.**
   The search dialog is displayed.



3. **Operate the switch of the unit to select until the countdown of the search dialog is over.**
   Click [Cancel (ENTER)] to cancel searching.

4. **A mark is displayed to the left of the unit name that you operated the switch for.**

Display

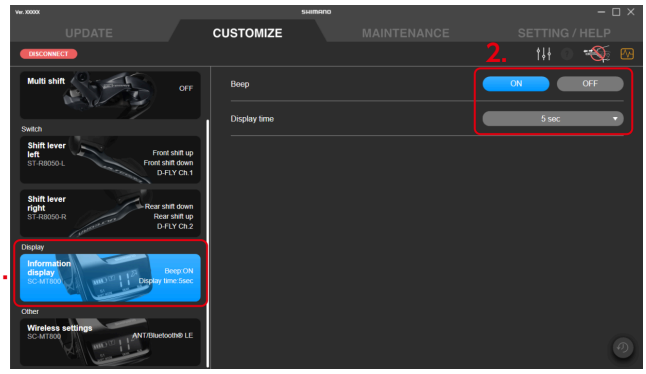
Configure the display settings.

Display-related settings

Configure the settings related to the display of the cycle computer, etc.

1. **Click the function to configure on the Customize screen.**

2. Configure the various settings.

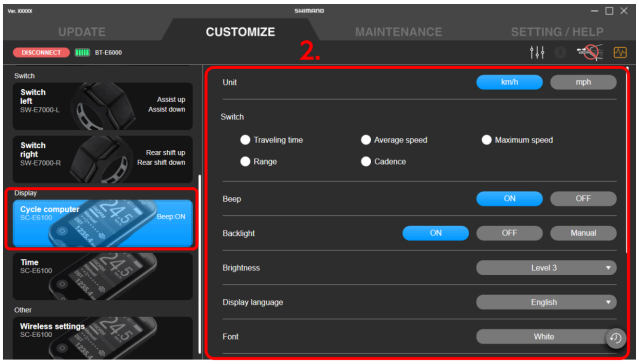


Beep setting

Select [ON]/[OFF] for the beep.

Display time

Set the time until the display turns off when the display monitor is left unattended from the pull-down menu.



Display units

Select the display format for units (km/h or mph).

Display switch

Select whether to display [Traveling time], [Average speed], [Maximum speed], [Range], and [Cadence]. Select the items to display.

[Current time] may be displayed as a selectable item instead of [Range] on some cycle computers.

Backlight setting

Select [ON]/[OFF]/[Manual] for the backlight.

Backlight brightness setting

Adjust the backlight brightness in the pull-down menu.

Display language

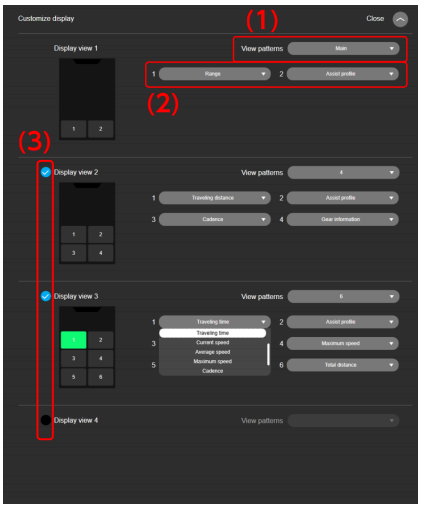
Select the display language from the pull-down menu.

Font color

Select the font color from the pull-down menu.

Customization of the display

Select the items and the number of items etc. to display on the screen. Configure these settings for screens 1 to 4.

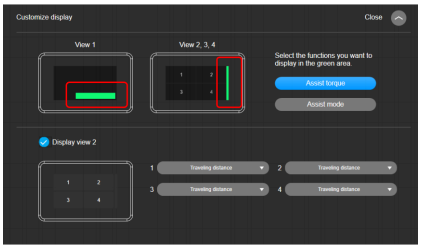


(1) Select [Main], [4], or [6] as the screen pattern.

When [Main] is selected, two items of data can be displayed.

* The screen pattern cannot be changed for the SC-EN600. Screen 1 always displays no data and screens 2, 3, and 4 are always set to [4].

* For the SC-EN600, set what to display in the gauge area (the green area on the setting screen below).



(2) Select which data to display.

When configuring settings, the display area you are configuring is indicated in green.

(3) Sets whether to display that screen on the cycle computer.

You cannot hide screen 1.

3. Click [Apply (ENTER)].

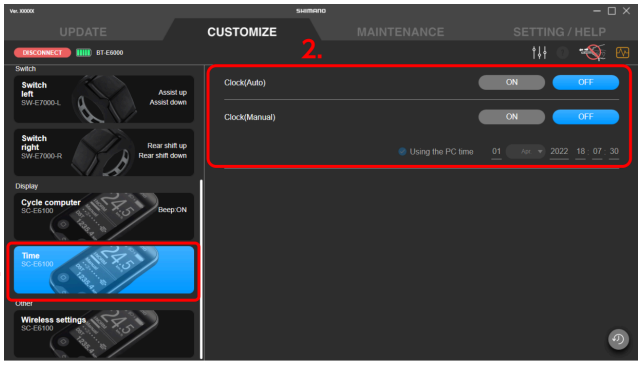
The settings are applied to the unit.

Settings related to the time

Configure the settings related to the time displayed on the display.

1. **Click the function to configure on the Customize screen.**

2. **Configure the various settings.**



Automatic time setting

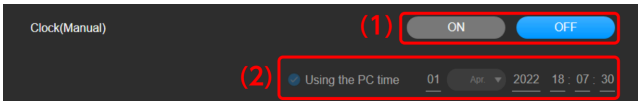
Select [ON] / [OFF] for automatic time setting. If you select [ON], the time of the cycle computer is automatically set to the time in the connected PC when E-TUBE PROJECT Professional is connected.

Manual time setting

This can only be set when [OFF] is set for automatic time setting.

(1) Select [ON] or [OFF] for manual time setting.

(2) Only if you selected [ON] in (1), select [Using the PC time] or enter the time.



3. **Click [Apply (ENTER)].**
   The settings are applied to the unit.

Other settings

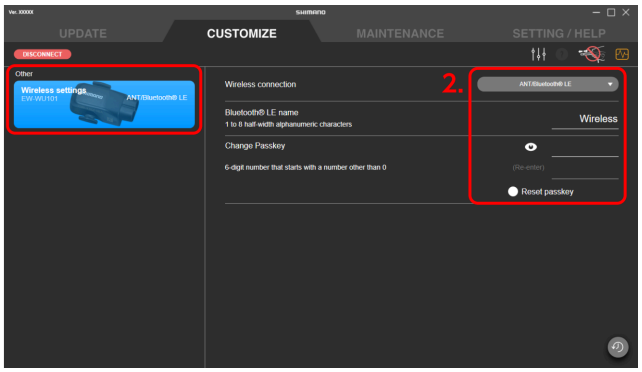
Configure the other function settings.

Wireless settings

Configure the wireless settings for a wireless unit, rear derailleur compatible with wireless connections, and cycle computer with a wireless function.

1. **Click the function to configure on the Customize screen.**

2. **Configure the various settings.**



Wireless connection setting

Set the wireless connection method in the pull-down menu.

You can connect to E-TUBE PROJECT Cyclist and E-TUBE RIDE regardless of the connection method that is selected.

Bluetooth ® LE name setting

Enter the name of the wireless unit. Enter up to 8 alphanumeric characters.

Passkey setting

Set the passkey using 6 numerals.

(1) Enter the passkey to set.

(2) Enter the passkey for confirmation again.



NOTICE

- Click to switch between displaying/hiding the entered passkey on the screen.
- Select [Reset passkey] to enter the default passkey.
- The number zero cannot be used for the first digit of the passkey.

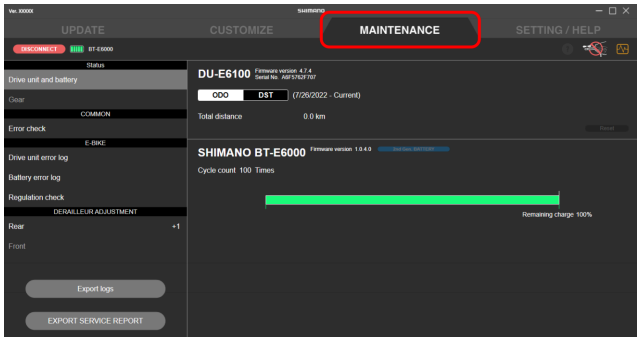
3. **Click [Apply (ENTER)].**

The settings are applied to the unit.

Maintenance

Maintenance

You can check the status and errors of each unit and perform adjustment. Click the [MAINTENANCE] tab to display the maintenance screen. The information before disconnection is displayed only on the maintenance screen even after disconnecting a unit. The operations that can be selected may be limited, depending on the situation before disconnection, such as whether an error check was performed.



Status

You can check information for the various units. The items that can be checked differ according to the unit configuration.

Drive unit and battery

You can check information for the drive unit and battery. The status cannot be checked for some drive units.

NOTICE

Information on Gen.2 batteries (second generation SHIMANO STEPS batteries)

- Corresponding batteries: BT-EN404 / BT-EN405 / BT-EN604 / BT-EN605 / BT-EN606 / BT-EN805 / BT-EN805-L / BT-EN806
- Storage temperature range: -20 - 60°C
- Do not use the battery outside of its operating temperature range. If a battery is used or stored in temperatures which are outside these ranges, fire, injury or problems with operation may occur.

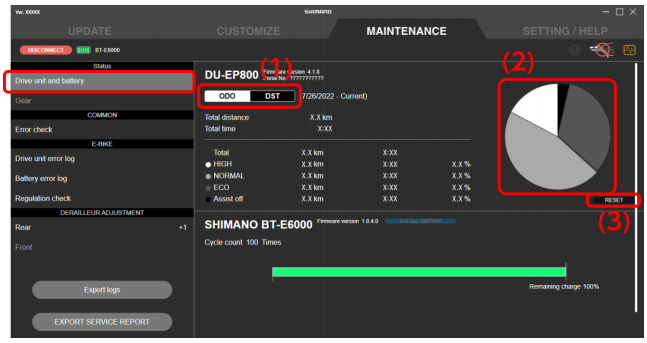
  (1) During discharge: -10 - 50°C

  (2) During charging: 0 - 40°C

- Store the battery or bicycle with battery installed in a cool indoor location away from direct sunlight and rain (approx. 10 to 20°C). If the storage temperature is too low or too high, the performance of the battery is reduced, and its usable time will be shorter. When you use it after a long storage period, make sure to charge it first.

1. Click [Drive unit and battery] on the maintenance screen.

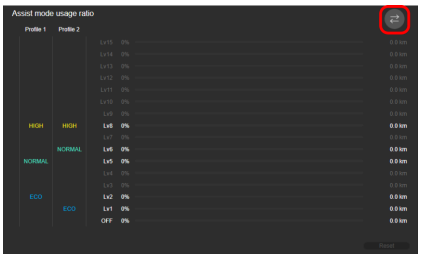
The status is displayed on the right side of the screen.



(1) Click it to switch between the ODO view (total distance/time) and DST view (traveling distance/time).

(2) Displays the usage ratio of each assist mode in a pie chart. This is not displayed for some drive units. For drive units that support the [FINE TUNE MODE] assist profile, the usage ratio is displayed in a bar graph instead of a pie chart.

Click ⇄ to switch between a bar graph of the distance used and a bar graph of the time used.



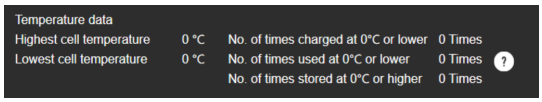
(3) Click it to reset the traveling distance/time. It cannot be clicked for the ODO view.

NOTICE

- The battery information display area displays labels indicating that the battery is a Gen.2 battery and that the battery is supported by SHIMANO. If the label is grayed out, it means that the battery is not supported.



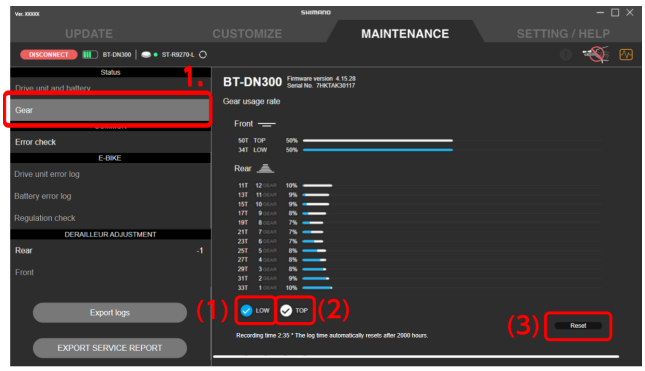
- For a Gen.2 battery, temperature data is displayed in the information display area.



Gear

You can check the usage ratio for each gear position of the front derailleur. The logging time of the usage ratio is also displayed.

1. **Click [Gear] on the maintenance screen.**
   The status is displayed on the right side of the screen.



(1) Select this to display the usage ratio with the front derailleur on the low side as a light blue bar graph.

(2) Select this to display the usage ratio with the front derailleur on the top side as a white bar graph.

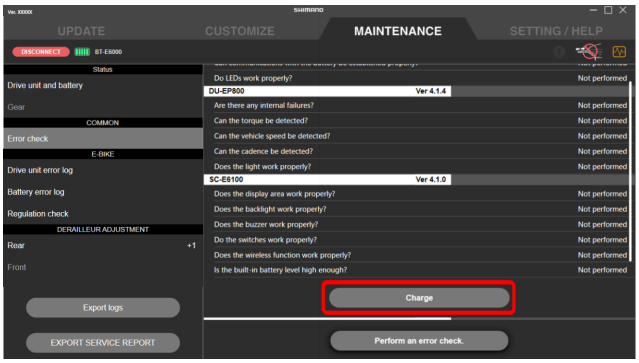
(3) Click to display the dialog confirming whether you want to reset the usage ratio. Click [OK(ENTER)] to reset the usage ratio. [Reset] may not be displayed, depending on the state of the product firmware.

Error check

Select a unit to perform an error diagnosis to check whether the unit has malfunctioned.

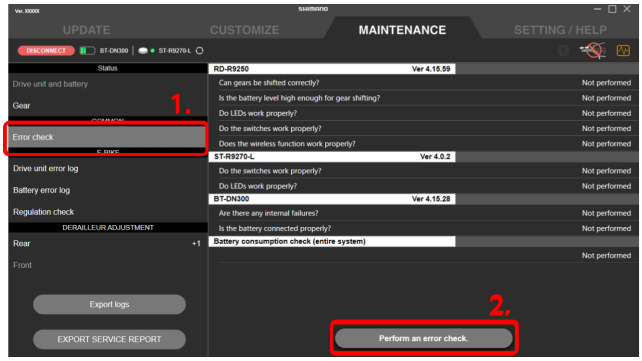
NOTICE

- Some models of cycle computers and satellite system ON/OFF switch utilize a built-in battery for the system ON/OFF function. If [Charge] is displayed, you can click it to charge the internal battery. The charging completion rate and estimated charging time are displayed while charging. Click [Cancel] to cancel charging.



- If the error check fails with a single unit connection, it may succeed by performing it again with a battery connection.
- If the power of the E-BIKE battery is not ON, the unit recognition will fail, and the error check cannot be performed.

1. **Click [Error check] on the maintenance screen.**
   The error check screen is displayed.



2. **Click [Perform an error check.].**

3. **Select the unit to perform an error check for.**
   Click [SELECT ALL(ENTER)] to select all the units.

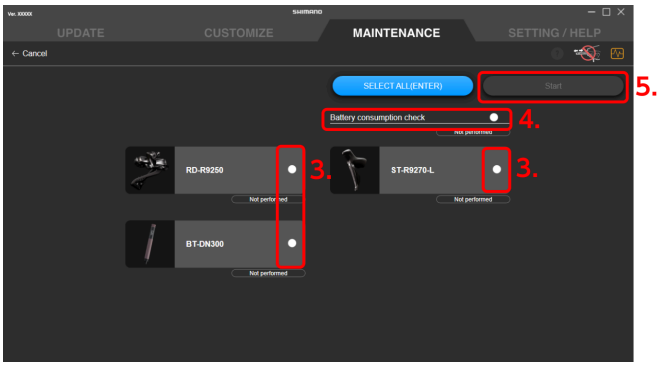
4. **Add a check mark to perform a battery consumption error check.**

   A battery consumption error check can only be performed when a bicycle other than E-BIKE is connected with the SM-PCE02. Perform a battery consumption error check when battery consumption seems too fast.

> **NOTICE**
>
> - The battery consumption error check function confirms whether or not there is an electrical leakage from any part of the connected unit. Perform this check not for individual units, but at a system level. This check can also be performed for individual units.
>
>   For SM-BMR1, perform the check without connecting SM-BTR1.

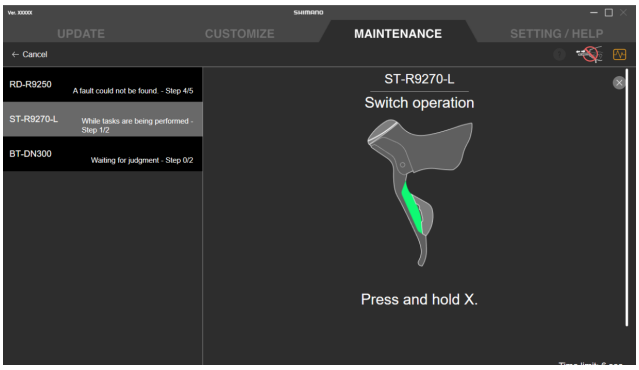
5. **Click [Start].**

   The error check screen for each unit is displayed in turn.



6. Follow the instructions on each screen to proceed with the check.

(Example)

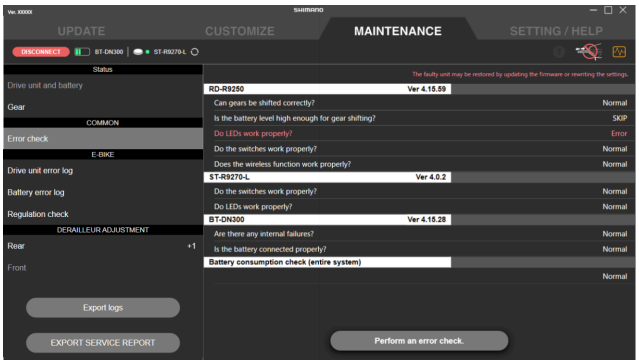


NOTICE

- You can correct displacement in the gear position when performing the error check on the rear derailleur.

7. Confirm the check results screen that is displayed.

Items with an error are displayed in red.



NOTICE

- Click [Perform an error check.] to perform the error check again.

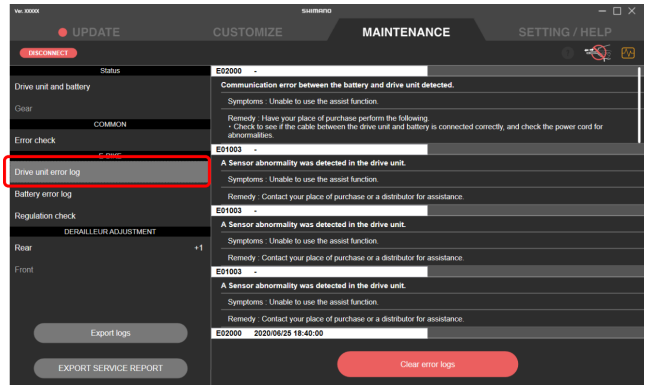
E-BIKE

You can check information and error history related to E-BIKE.

Error log

You can check the error log related to the drive unit or battery.

1. **Click [Drive unit error log] or [Battery error log] on the maintenance screen.**
   The error log is displayed on the right side of the screen.
   For information on the error codes, refer to https://si.shimano.com/error .



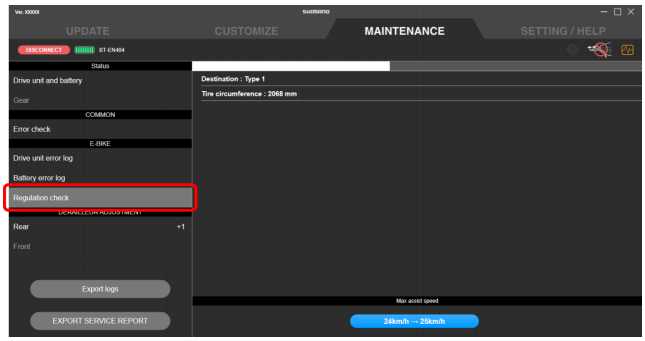
NOTICE

- You can click [Clear error logs] to clear the error log. The error logs in [Battery error log] cannot be cleared.
- You can click a blue area in the error log to display a website for confirming the details for each error.
- Error details are only displayed on the screen if E-TUBE PROJECT Professional is connected to the Internet.

Regulation check

You can check the regulation setting history.

1. **Click [Regulation check] on the maintenance screen.**
   The setting history is displayed on the right side of the screen. Only the current setting values are displayed for some drive units.



NOTICE

- When there are invalid setting values or there is a difference between the latest regulation check history and the current unit setting values, the corresponding area is displayed with a red bar or red character.

Adjustment of the shifting unit

You can adjust the shifting unit.

NOTICE

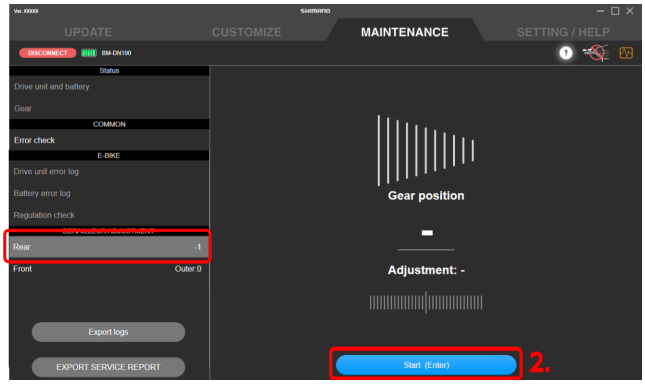
- If shifting unit adjustment fails with a single unit connection, it may succeed by performing it again with a battery connection.

Adjusting the rear derailleur

You can adjust the gear shifting of the rear derailleur. It is necessary to turn the crank when performing adjustment.

1. **Click [Rear] on the maintenance screen.**

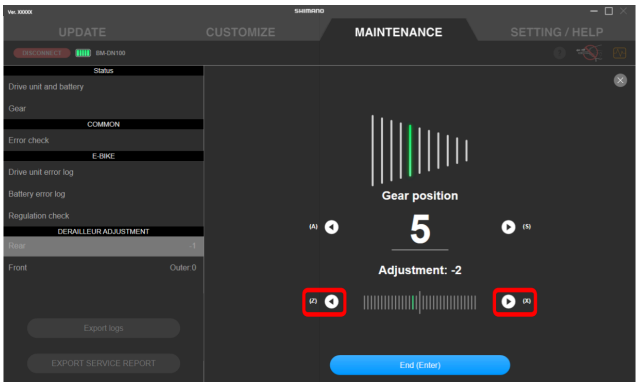
2. Click [Start (Enter)].



NOTICE

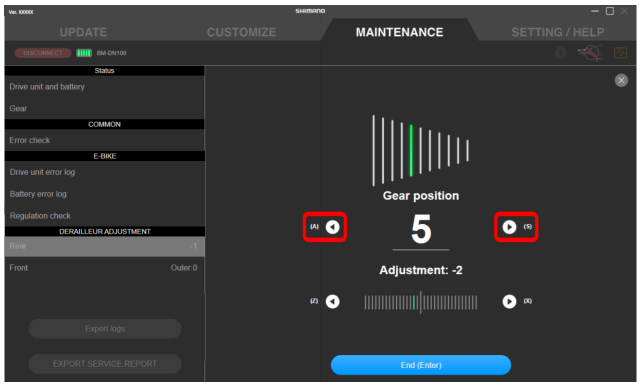
- If the battery charge is low, a confirmation screen is displayed and you cannot perform adjustment.

3. **Click ◀ / ▶ to adjust the position of the guide pulley.**
   Click ◀ to move the guide pulley inside (in the minus direction).
   Click ▶ to move the guide pulley outside (in the plus direction).
   Be sure to perform adjustment while turning the crank.



NOTICE

- Click ? to check the details of the adjustment method.
  Refer to " Rear derailleur adjustment method " for details on the adjustment method.
- Click ◀ / ▶ below to shift the gear. Click ◀ to shift to a larger sprocket and click ▶ to shift to a smaller sprocket.

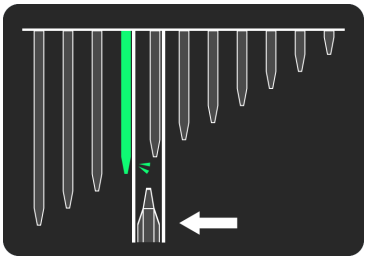


4. **Click [End (Enter)].**
   Adjustment is complete.

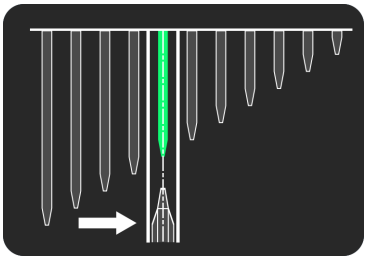
Rear derailleur adjustment method

1. **Move the chain to the 5th sprocket.**

2. **Move the guide pulley toward the inside until the chain touches the 4th sprocket and makes a slight noise.**



3. **Move the guide pulley toward the outside by 4 steps (5 steps for MTB and RD-R9250 / RD-R8150) to the target position.**



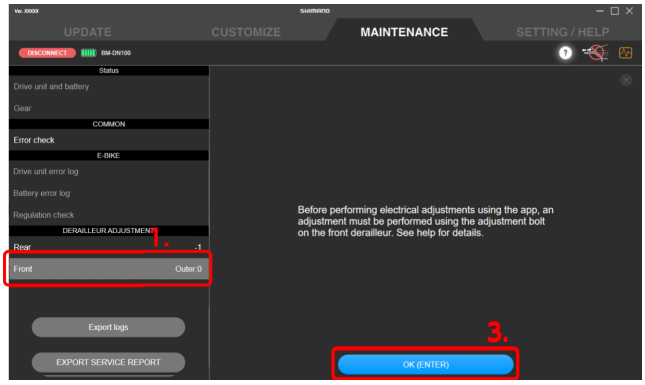
Adjusting the front derailleur

You can adjust the gear shifting of the front derailleur. It is necessary to turn the crank when performing adjustment.

1. **Click [Front] on the maintenance screen.**

2. **You can adjust the high limit of the front derailleur.**
   Click ? to check the details of the adjustment method.
   For the FD-R9250/FD-R8150
   Refer to " Adjustment of the front derailleur high limit (for FD-R9250 / FD-R8150) ".
   For the FD-R7170
   Refer to " Using the adjustment screw of the front derailleur to perform initial adjustment (for FD-R7170) ".
   For ROAD
   Refer to " Using the limit screw of the front derailleur to perform initial adjustment (for ROAD) ".
   For MTB
   Refer to " Using the adjustment screw of the front derailleur to perform initial adjustment (for MTB) ".

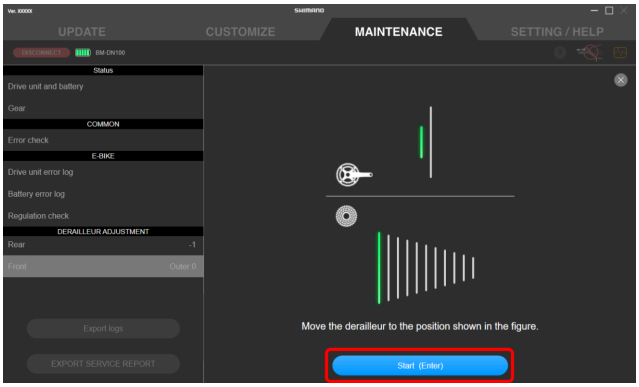
3. **Click [OK (ENTER)].**



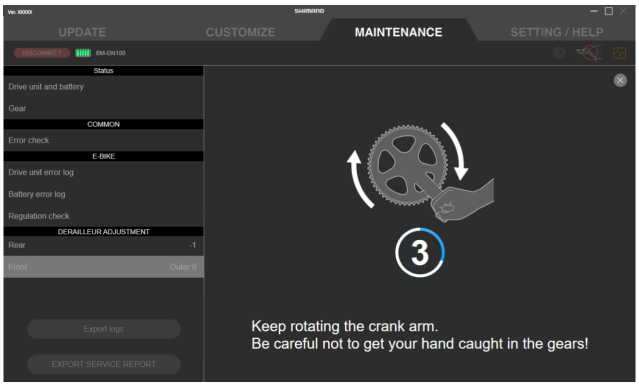
NOTICE

- If the battery charge is low, a confirmation screen is displayed and you cannot perform adjustment.

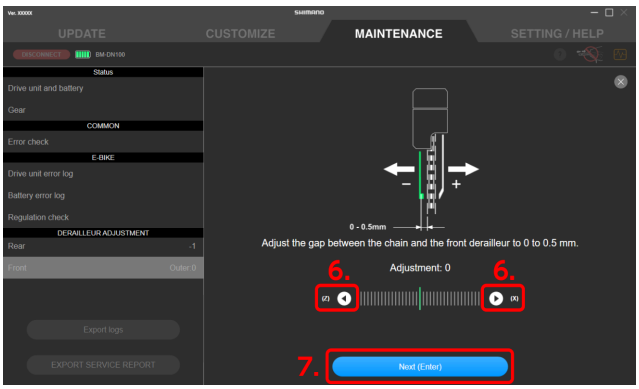
4. **Click [Start (Enter)].**



5. **Start rotating the crank arm until the countdown reaches zero.**



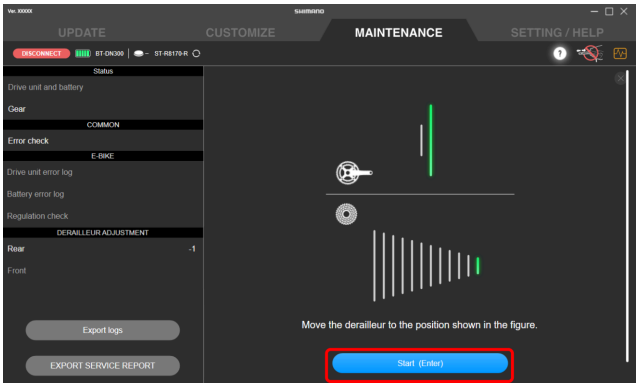
6. **Click / to perform adjustment according to the guidance.**
   Click to move the chain guide inside (in the minus direction).
   Click to move the chain guide outside (in the plus direction).
   Be sure to perform adjustment while turning the crank.



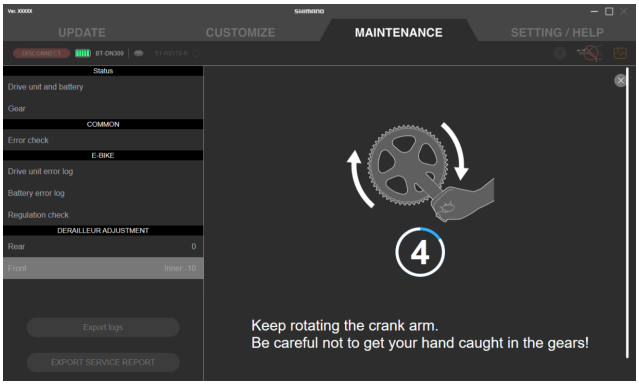
7. **Click [Next (Enter)].**
   If any unadjusted gears remain, perform steps 4 - 6 .
   Click [OK (ENTER)] on the confirmation screen that is displayed when adjustment is complete for all the gears.

Adjustment of the front derailleur high limit (for FD-R9250 / FD-R8150)

1. **Click [Start (Enter)].**



2. **Start rotating the crank arm until the countdown reaches zero.**

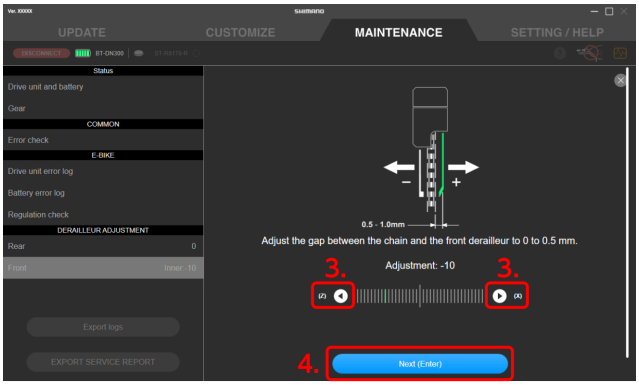


3. **Click ◀ / ▶ to perform adjustment according to the guidance.**

   Adjustment for the rear top position starts.

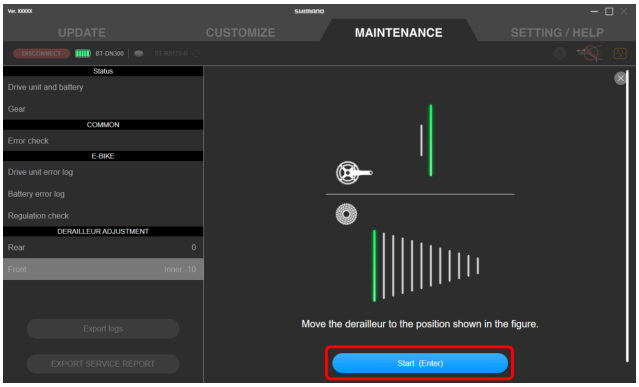
   Click ◀ to move the chain guide inside (in the minus direction).

   Click ▶ to move the chain guide outside (in the plus direction).

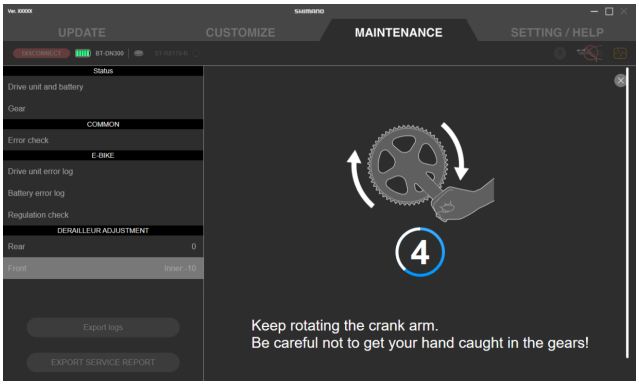


4. **Click [Next (Enter)].**

5. **Click [Start (Enter)].**



6. **Start rotating the crank arm until the countdown reaches zero.**

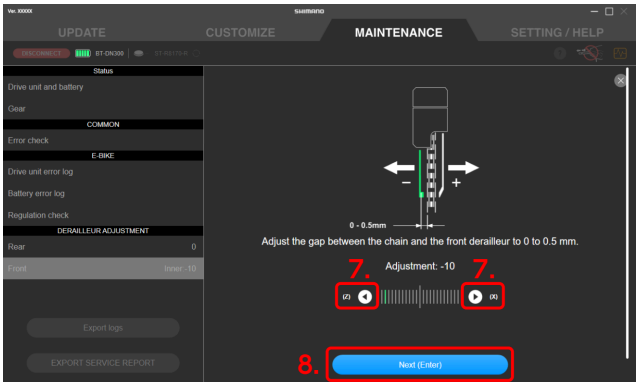


7. **Click ◀ / ▶ to perform adjustment according to the guidance.**

   Adjustment for the rear low position starts.

   Click ◀ to move the chain guide inside (in the minus direction).

   Click ▶ to move the chain guide outside (in the plus direction).

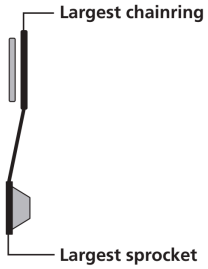


8. **Click [Next (Enter)].**

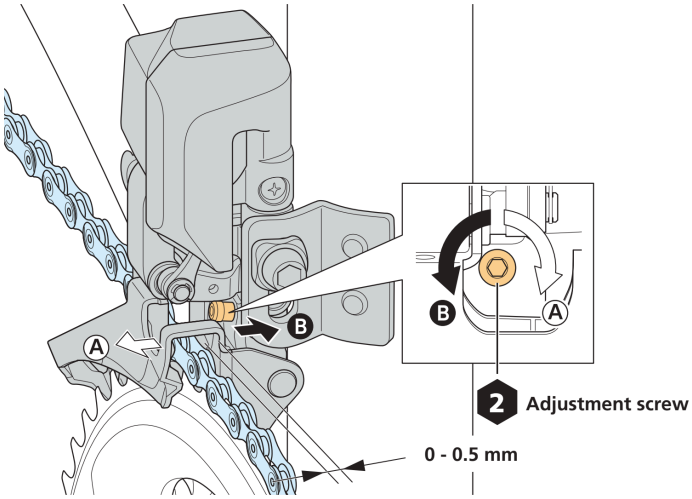
   Adjustment for the low side of the front derailleur starts. Proceed to step 4 of " Adjusting the front derailleur ".

Using the adjustment screw of the front derailleur to perform initial adjustment (for FD-R7170)

1. **Shift the chain to the largest chainring and the largest sprocket.**



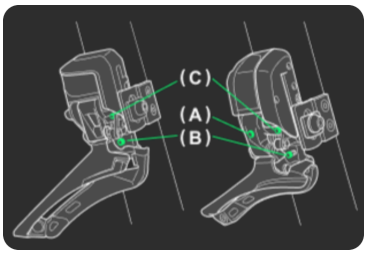
2. **Adjust the gap between the chain and inner plate.**
   Adjust the clearance to 0 - 0.5 mm.



Using the limit screw of the front derailleur to perform initial adjustment (for ROAD)

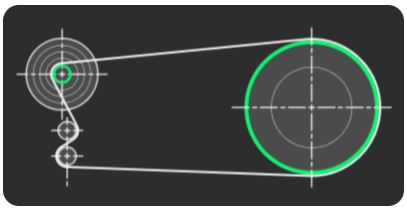
The FD-R9250 / FD-R8150 does not have a limit screw. Initial adjustment using the limit screw is not required.

1. **Check the screw position.**
   The low limit screw, the high limit screw and the support screw are close to each other. Make sure that you are adjusting the correct screw.
   (A) Low limit screw
   (B) High limit screw
   (C) Support screw

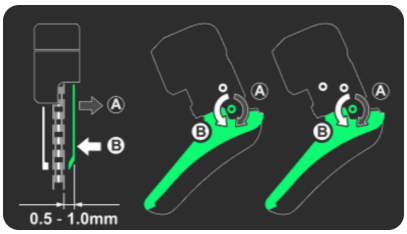


How to perform a high limit

1. **Set the chain on the largest chainring and the smallest sprocket.**

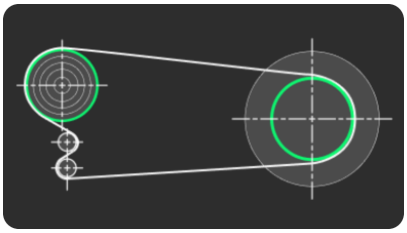


2. **Rotate the high limit screw with a 2 mm hexagon wrench. Adjust the gap between the chain and the chain guide outer plate to 0.5 to 1 mm.**

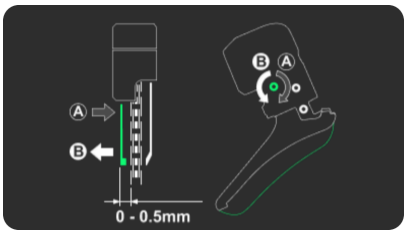


How to perform a low limit (FD-6080 / FD-9070 only)

1. **Set the chain on the smallest chainring and the largest sprocket.**

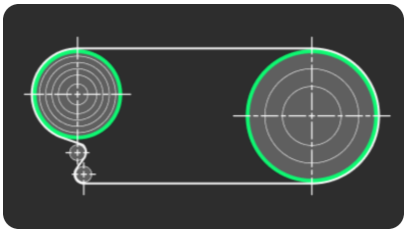


2. **Rotate the low limit screw with a 2 mm hexagon wrench.**
   Adjust the gap between the chain and the chain guide outer plate to 0 to 0.5 mm.

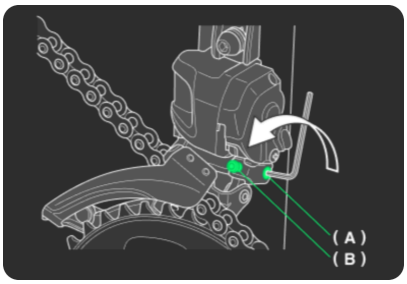


Using the adjustment screw of the front derailleur to perform initial adjustment (for MTB)

1. **Set the chain on the largest chainring and the largest sprocket.**

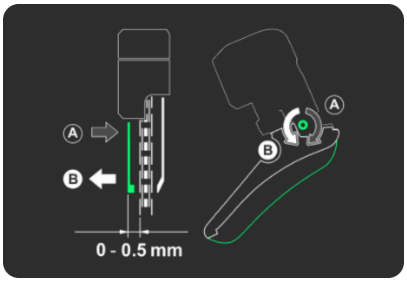


2. **Loosen the stroke fixing screw with a 2 mm hexagon wrench.**

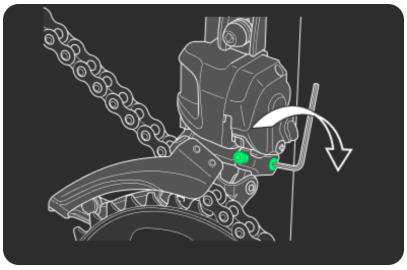


(A) Stroke fixing screw
(B) High limit screw

3. **Turn the high limit screw with a 2 mm hexagon wrench to adjust the clearance. Adjust the gap between the chain and the chain guide outer plate to 0 to 0.5 mm.**



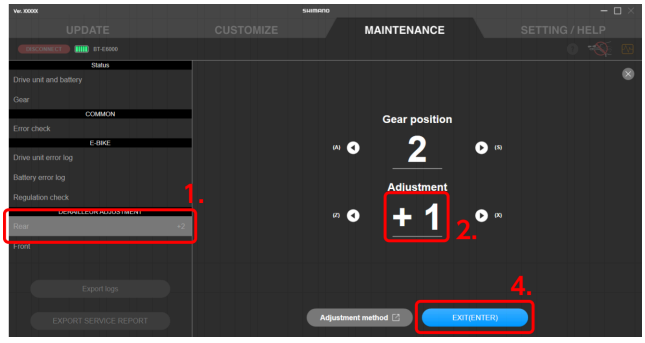
4. **After adjustment, securely tighten the stroke fixing screw.**



Motor unit adjustment

Performs gear shifting adjustment via the motor unit. It is not necessary to turn the crank when performing adjustment.

1. **Click [Rear] on the maintenance screen.**

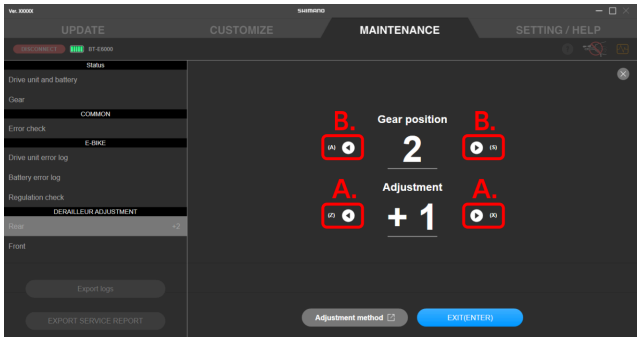


2. Check that the adjustment value is set to 0 (default).

(1)	Value is set to 0	Proceed to step 3 .
(2)	Value is set to other than 0	Adjust the value to 0 and shift gears to check whether abnormal noise or unusual feels have been eliminated. Proceed to step 3 if the symptom has not improved, or step 4 if it has.

NOTICE

- Click (A) ◀ / ▶ for the adjustment value.
  Click ◀ to make the parts which control gear shifting rotate in the lighter gear direction.
  Click ▶ to make the parts which control gear shifting rotate in the heavier gear direction.
  Click (B) ◀ / ▶ to shift the gear.



3. Change the adjustment value by one in the + or - direction, and check the sound or feel of gear shifting.

The setting can be adjusted 4 levels in the + direction and 4 levels in the - direction.

(1)	The condition has improved	Check the sound or feel of gear shifting again while changing the adjustment value one by one in the same direction. Continue adjusting the value until the abnormal noise or unusual feels are eliminated.
(2)	No sign of improvement	Change the adjustment value by one again in the same direction, then check the sound or feel of gear shifting again. Check (1) in this table if the symptom is improved, or (3) if not.
(3)	The condition has worsened	Change the adjustment value by two in the opposite direction, then check the sound or feel of gear shifting again. Continue adjusting the value by one in the same direction until the abnormal noise or unusual feels are eliminated.

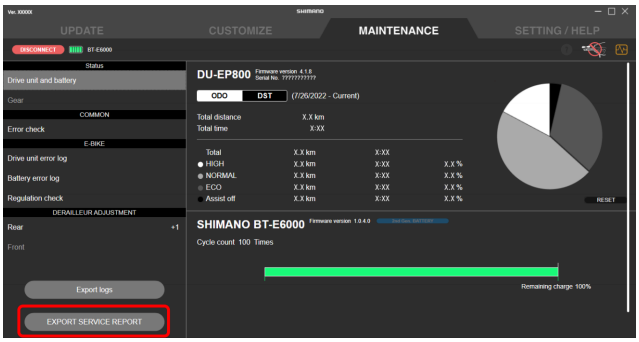
4. Click [EXIT (ENTER)].

Adjustment is complete.

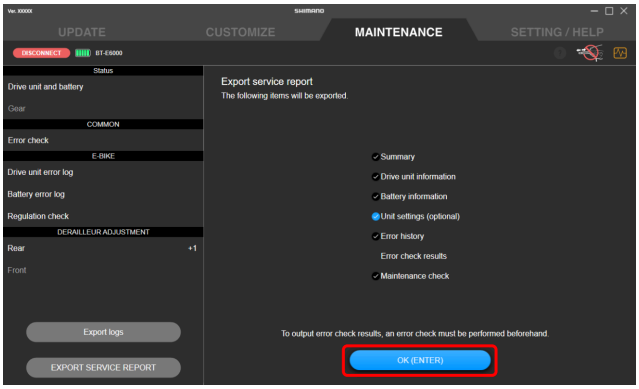
Export service report

Outputs a service report as a PDF file.

1. **Click [EXPORT SERVICE REPORT] on the maintenance screen.**
   The service report output screen is displayed.



2. **Click [OK (ENTER)].**
   A PDF file is output to the specified location of the PC.



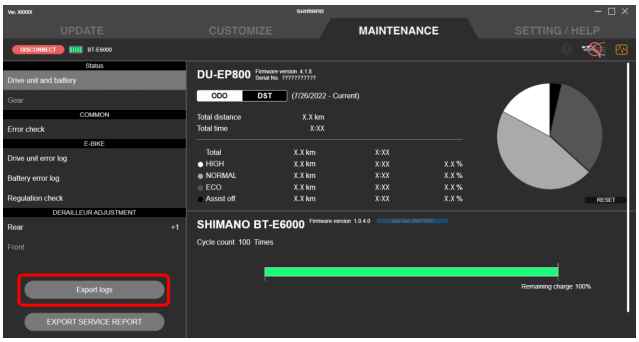
NOTICE

- If you export a service report before retrieving the error log, it may take some time to export the report. The screen display will not change, but you should wait a few moments until the export is complete.
- Select [Unit settings (optional)] to output the settings of each unit.
- To output error check results, an error check must be performed beforehand.

Retrieving log data

You can retrieve the log data required to make a query when a problem has occurred, etc.

1. **Click [Export logs] on the maintenance screen.**
   The log data is output to the specified location of the PC.



NOTICE

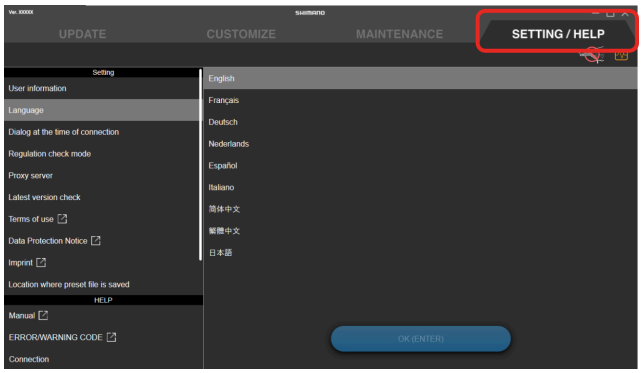
- If it will take some time to retrieve the log, a confirmation dialog is displayed. Click [OK (ENTER)] to start retrieval.

SETTING / HELP

SETTING / HELP

SETTING / HELP

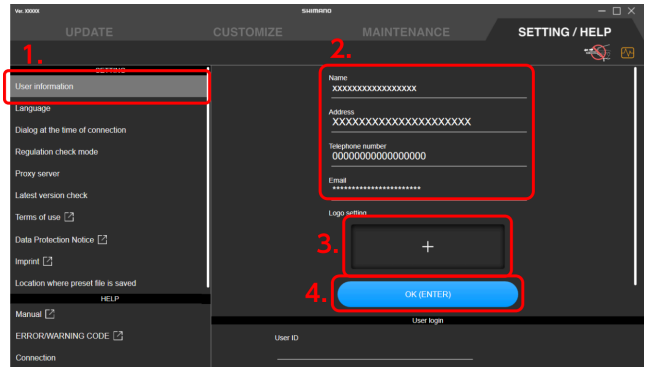
The function for configuring the various settings related to E-TUBE PROJECT Professional. Click the [SETTING / HELP] tab to display the settings/help screen.



User information

Register the user information.

1. **Click [User information] on the settings/help screen.**
   The user information screen is displayed.



2. **Enter the user information.**

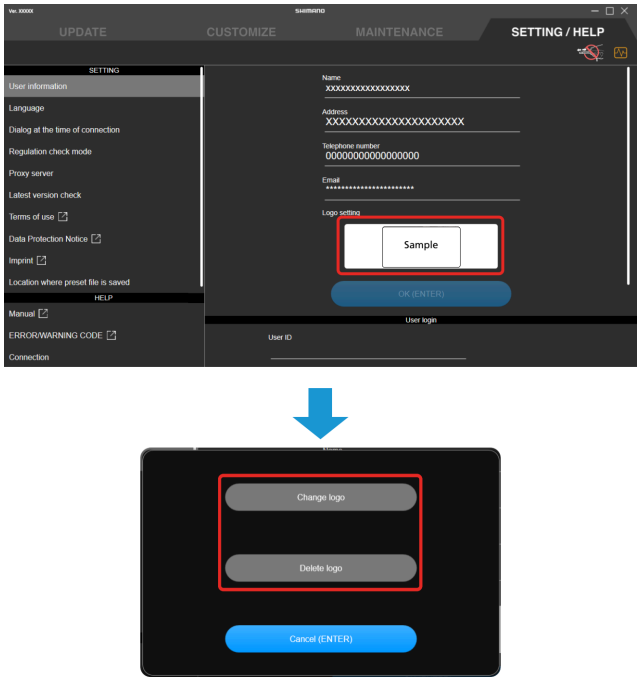
3. **Click the button for adding a logo to set a logo.**
   The folder selection dialog box is displayed. Click the folder where the logo file to use is stored, and select the logo.

4. **Click [OK (ENTER)].**

   The user information is registered.

NOTICE

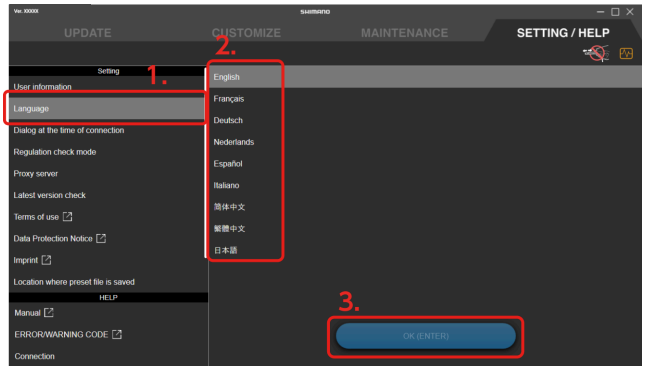
- [User login] is not used.
- The registered user information and logo are applied in the service report.
- A logo file that meets the following conditions cannot be set:
  - The file size is 1 MB or more
  - The horizontal size or vertical size of the file exceeds 2048 pixels
  - The file is corrupt
  - The file format is something other than JPG or PNG
- Click the logo display area to change or delete the logo that is set.



Language setting

Sets the screen display language.

1. **Click [Language] on the settings/help screen.**
   The language setting screen is displayed.



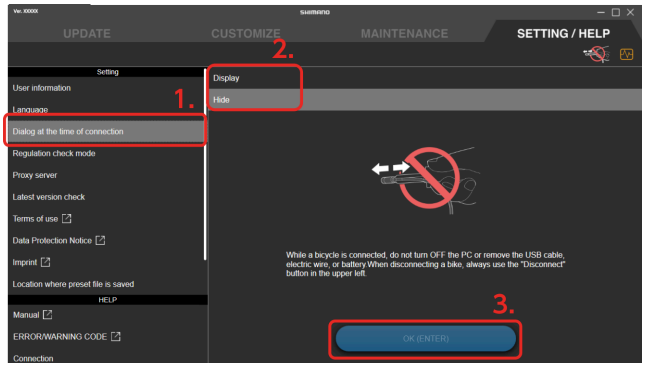
2. **Select the language.**

3. **Click [OK (ENTER)].**
   The display language is displayed.

Connection dialog display setting

You can set whether to display the connection warning screen when connecting to the bicycle.

1. **Click [Dialog at the time of connection] on the settings/help screen.**
   The connection dialog display setting screen is displayed.



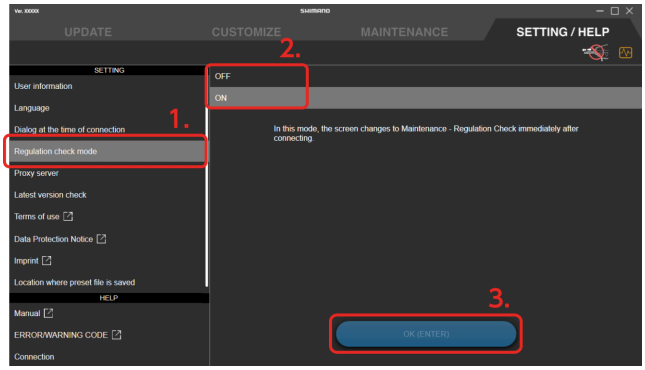
2. **Select whether to display the dialog.**

3. **Click [OK (ENTER)].**
   The setting is changed.

Regulation check setting

You can set whether to display the regulation check screen immediately after connecting to the bicycle.

1. **Click [Regulation check mode] on the settings/help screen.**
   The regulation check mode information screen is displayed.



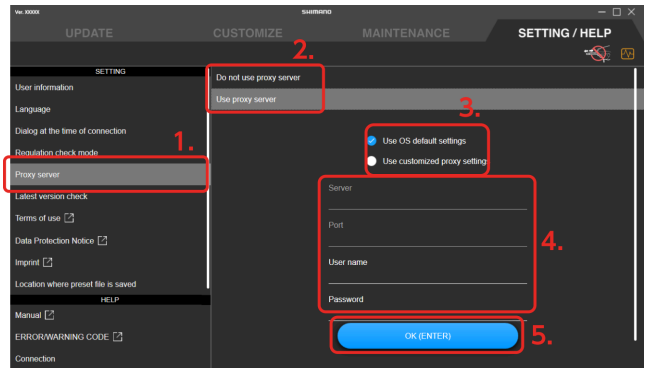
2. **Select [ON] or [OFF].**
   If you set [ON], the regulation check screen is displayed immediately after connecting to the bicycle.

3. **Click [OK (ENTER)].**
   The setting is changed.

Proxy server setting

You can configure a proxy server.

1. **Click [Proxy server] on the settings/help screen.**
   The proxy server setting screen is displayed.



2. **Select whether to use a proxy server.**
   Proceed to step 3 if you select to use it, or step 5 if you do not.

3. **Select whether to use the default operating system settings or custom proxy settings.**
   Proceed to step 4 to use custom proxy settings, or step 5 to use the default operating system settings.

4. **Enter the details for the custom proxy.**
   Enter the server name, port name, user name, and password.

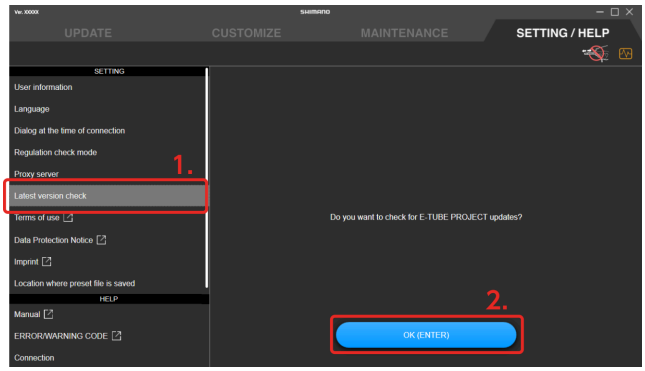
5. **Click [OK (ENTER)].**
   The setting is changed.

Checking for the latest version of E-TUBE PROJECT Professional

You can check for the latest version of E-TUBE PROJECT Professional.

1. **Click [Latest version check] on the settings/help screen.**
   The latest version confirmation screen is displayed.

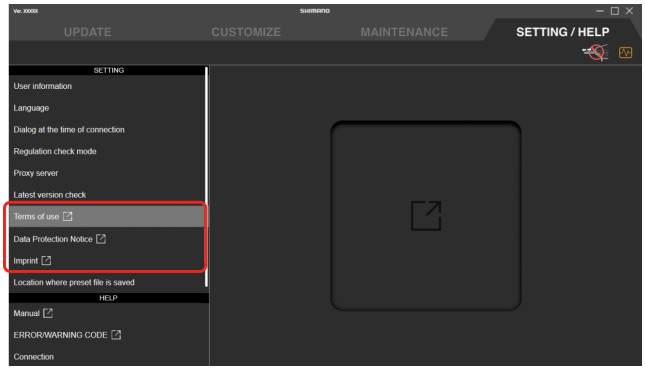
2. **Click [OK (ENTER)].**
   The application connects to the server and you can download and upgrade to the latest version if one exists.



Checking the terms of use, etc.

Check [Terms of use], [Data Protection Notice], and [Imprint] for E-TUBE PROJECT Professional.

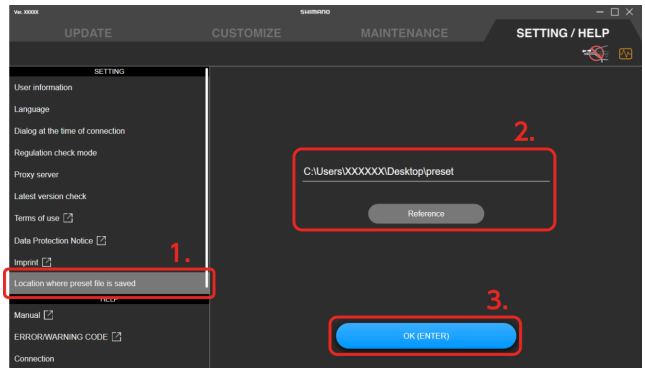
1. **Click [Terms of use], [Data Protection Notice], and [Imprint] on the settings/help screen.**
   A website for confirming the details is displayed for each.



Location where preset file is saved

You can set the location where preset file is saved.

1. **Click [Location where preset file is saved] on the settings/help screen.**
   The preset file destination screen is displayed.



2. **Enter the destination to save.**
   You can also click [Reference] and select the destination to save.

3. **Click [OK (ENTER)].**
   The destination to save is set.

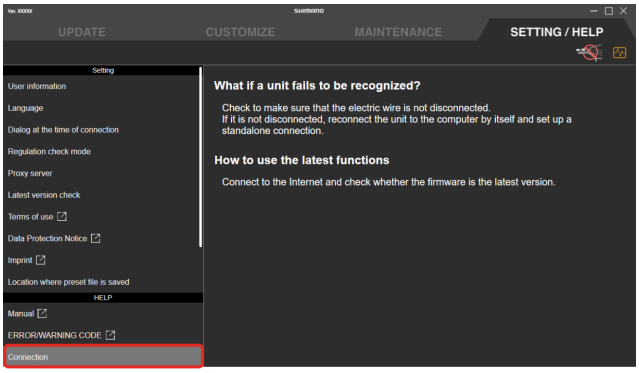
Displaying the help

You can view help related to the various functions. You can also check a link to the manual and error/warning codes, and the version information for E-TUBE PROJECT Professional.

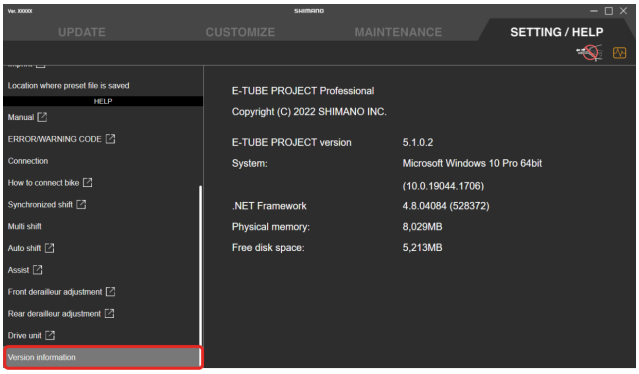
Displaying the help

1. **Click the help content on the settings/help screen.**

   The selected help screen is displayed.



(Example) Help screen regarging connection



(Example) Version information screen

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Error/warning code

For details on error/warning codes, refer to the latest versions below:



https://si.shimano.com/error

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