(English)

UM-7J4MA-012

User's Manual

E-TUBE PROJECT Cyclist

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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

⚠ WARNING

- After connecting, 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 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

- Using this application increases smartphone battery consumption. Take note of the battery level during use.

About this manual

Introduction

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

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

Supported operating systems

- Android: Ver.7.0 or later
- iOS: iOS 15 or later

Supported Bluetooth ® version

- Ver. 4.1 or later

E-TUBE PROJECT Cyclist

E-TUBE PROJECT Cyclist 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 error log and adjusting the shifting unit.
Setting	The function for configuring the various settings related to the application.
HELP	The function for viewing help related to the various functions.

Starting E-TUBE PROJECT Cyclist for the first time

1. **After installing E-TUBE PROJECT Cyclist, tap the E-TUBE PROJECT Cyclist icon ( ).**
   The Countries/Regions selection screen is displayed.
   Default provinces and Countries/Regions are displayed based on your smartphone's ID information.

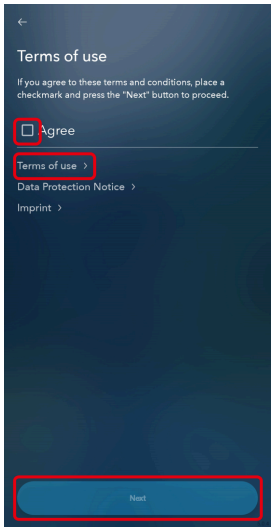
2. **Select the provinces and Countries/Regions you will use, and tap [OK].**

   The SHIMANO ID PORTAL login screen is displayed.



NOTICE

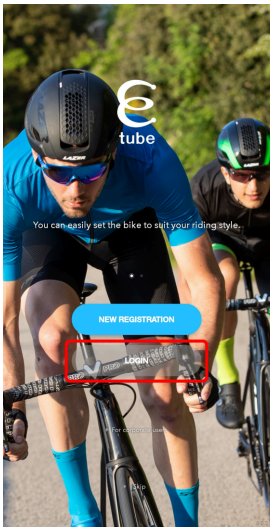
- If the region does not support SHIMANO IDs, the terms of use screen is displayed. Confirm the terms of use, select [Agree], and tap [Next]. Proceed to step 5 .



3. **Tap [LOGIN].**

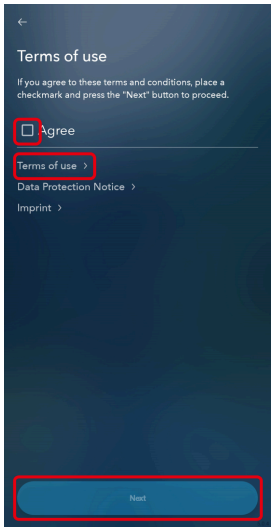
   If you have not registered a SHIMANO ID, tap [NEW REGISTRATION].

   The SHIMANO ID PORTAL screen is displayed.



NOTICE

- If you tapped [Skip] and did not log in, the terms of use screen is displayed. Confirm the terms of use, select [Agree], and tap [Next]. Proceed to step 5 .



- Additional functions, etc. are not available even after tapping [For corporate users] and logging in.

4. **Log in or register as a new user.**

   Follow the instructions on the SHIMANO ID PORTAL screen.

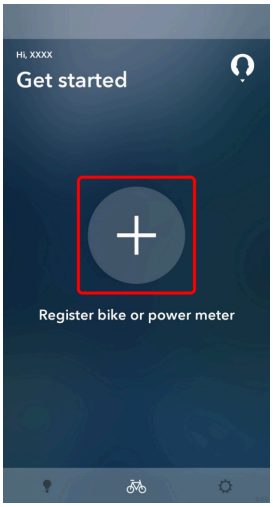
   The bicycle registration screen is displayed when the login operation is complete.

   The function for logging in via Twitter account is no longer available as of the end of July, 2023. See here for details.

5. **Tap ⊕.**

   The wireless unit detection screen is displayed.

   Refer to “ Connecting to the bicycle ” to prepare the wireless unit for connection.

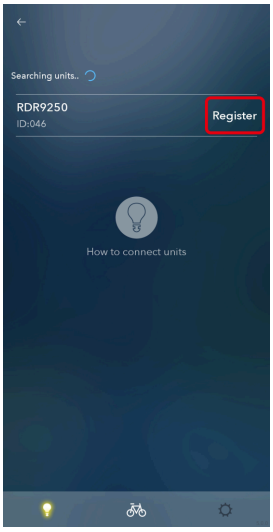


6. **Tap [Register] for the bicycle and wireless unit to connect to.**

   The passkey entry screen is displayed.

   If you have not logged in to SHIMANO ID, tap [OK].

   The last three digits of the product serial number may be displayed under the wireless unit name.



7. **Enter your passkey.**

   If the passkey is correct, the detected unit list screen is displayed.

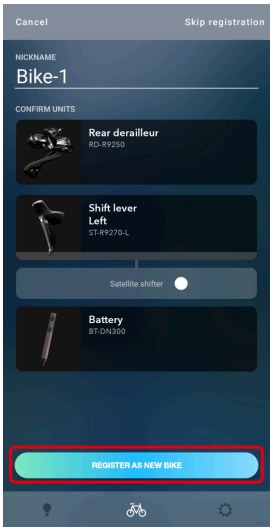
NOTICE

- If you do not know the passkey, you can reset it from the dealer software (E-TUBE PROJECT Professional). Contact the place of purchase.
- If you are not logged in with a SHIMANO ID, the passkey is stored in the smartphone and automatically entered the second and subsequent times that you connect. However, note that the stored passkey will be deleted if the application is reinstalled because you have bought a new smartphone or for other reasons.
  If you are using the application logged in with a SHIMANO ID, the passkey is saved assigned to the SHIMANO ID and retained even if the application is reinstalled.

8. Tap [REGISTER AS NEW BIKE].

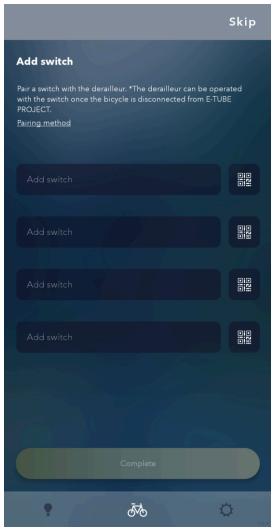
The bicycle is registered and the Customize Top screen is displayed.

If you tap [Skip registration], the Customize Top screen is displayed without registering the bicycle.



NOTICE

- A maximum of 50 my bikes can be registered.
- If the detected unit is a power meter, an unregistered bicycle is created and the unit is assigned to that list when you tap [New bike]. You can tap [Registered bike] if at least one bicycle is registered. Select the bicycle to assign. If you tap [Skip registration], the power meter monitor screen is displayed without registering the power meter.
- If a rear derailleur not paired with a switch/shifter is included in the detected units, tap [REGISTER AS NEW BIKE] to display the pairing screen. Refer to " Pairing " to perform pairing with the switch/shifter.



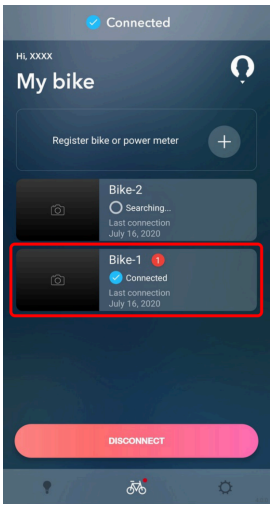
Starting E-TUBE PROJECT Cyclist

Starting E-TUBE PROJECT Cyclist

Starting E-TUBE PROJECT Cyclist

1. **Tap the E-TUBE PROJECT Cyclist icon ( ).**
   The bicycle registration screen is displayed. The registered bicycle is connected.

2. **Tap the connected bicycle.**
   The Customize Top screen is displayed.



NOTICE

- If there is an unregistered bicycle or power meter on the bicycle registration screen, tap the + icon to proceed to the registration process. Follow the procedures in " Starting E-TUBE PROJECT Cyclist for the first time " from step 7.
- If you tap on the bicycle registration screen, the profile registered in SHIMANO ID PORTAL is displayed.
- If you tap a bicycle that is not connected on the bicycle registration screen, the bike settings screen is displayed. You can change the nickname, change the wireless unit, and delete registered units or bicycles.

Tabs and icons displayed on the screen

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

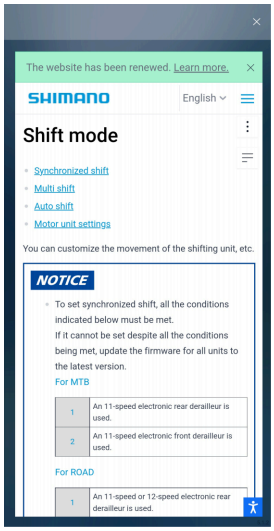


(1) Tap to return to the previous screen.

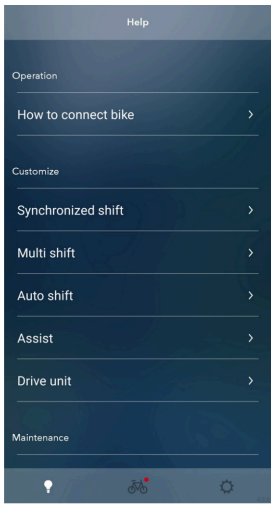
(2) Displays the connection state with the bicycle.

(3) Tap the tabs to switch the function category.
You can also swipe left or right to switch.

(4) Tap to display the help screen related to the information on the screen.
If there is no corresponding help screen, the help top screen is displayed.



(Example) Help screen



Help top screen

(5) Tap to display the bicycle registration screen. If there is a red circle on the icon, the bicycle includes a unit that requires a firmware update. If you tapped on a help or settings screen displayed from the Update/Customize/Maintenance screen, the previous screen is displayed.

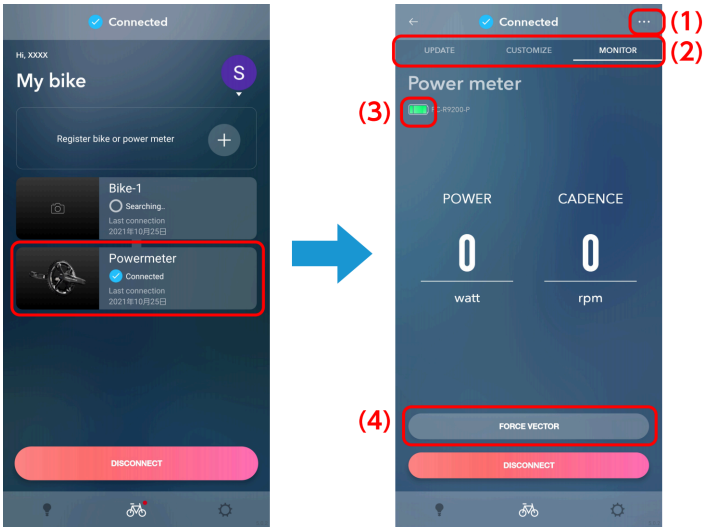
(6) Tap to display the settings screen related to the application.

Power meters

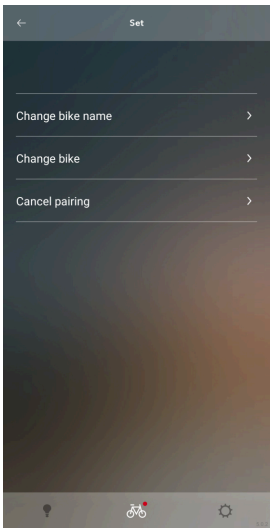
You can monitor the state of a connected power meter, update its firmware in the same way as a bicycle, or customize its functions. You can also perform zero offset calibration and magnet calibration.

1. **On the bicycle registration screen, tap a registered power meter.**

   The power meter monitor screen is displayed. Tap the [MONITOR] tab to display it from another category. Refer to “ Connecting to the bicycle ” to prepare the power meter for connection.



(1) Tap to display the setting screen related to the power meter. You can change or disconnect the assigned bicycle.



(2) Tap the tabs to switch the function category. You can also swipe left or right to switch.

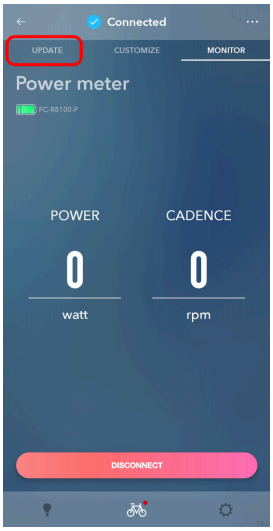
(3) Displays the battery level.

(4) Tap to display a confirmation dialog which asks if you would like to start E-TUBE RIDE in order to check the vector display.
If you tap before magnet calibration is complete, a dialog will display indicating that magnet calibration is required for vector display. Tap [Set] to perform magnet calibration.
With power meters that do not support vector display, [FORCE VECTOR] is not displayed on the monitor screen.

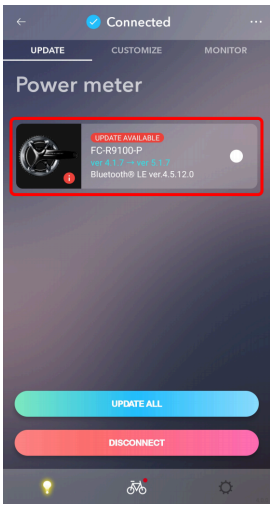
Updating the firmware

A red icon is displayed on the image for a power meter that requires an update.

1. **Tap the [UPDATE] tab on the monitor screen of the power meter.**
   The power meter update screen is displayed.



2. **Tap the panel for the power meter to update.**
   The check box for the panel of the selected power meter is selected.



3. **Tap [UPDATE].**
   The confirmation screen will be displayed. Tap [Update] again to begin updating.

NOTICE

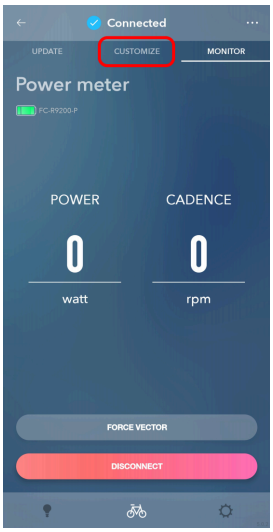
- Do not operate your smartphone during a firmware update. If you use other applications and force E-TUBE PROJECT Cyclist into the background, the update may fail.
- Leave your smartphone near the power meter and do not move it away while the firmware is updating.

Configuring the communication method

You can configure the wireless communication method.

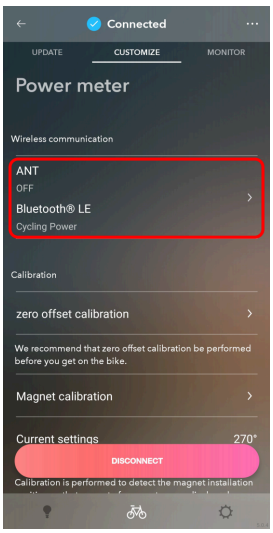
1. **Tap the [CUSTOMIZE] tab on the monitor screen of the power meter.**

   The power meter Customize screen is displayed.



2. **Tap the communication method settings display field.**

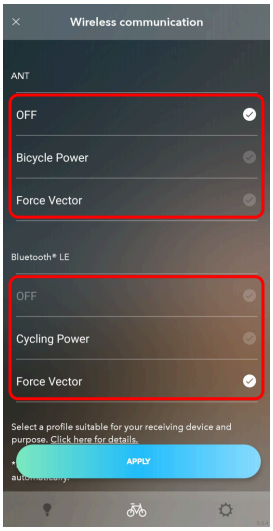
   The Communication Method Setting screen is displayed.



3. **Select the transmission options for each of [ANT] and [Bluetooth ® LE].**

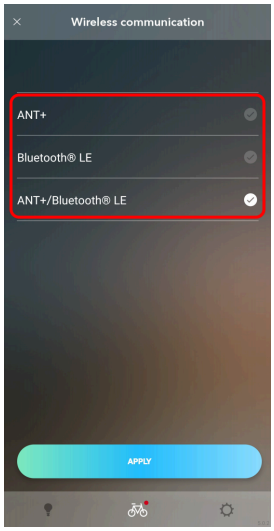
   Select [OFF], [Bicycle Power], [Cycling Power], or [Force Vector].

   Confirm the manual for the device to connect with the power meter and configure the appropriate settings.



NOTICE

- Select [Bicycle Power] to transmit power, cadence, left-right balance, pedal smoothness, and torque effectiveness information. Select [Cycling Power] to transmit power, cadence, and left-right balance information. Select [Force Vector] to transmit vector, power, cadence, left-right balance, and pedaling efficiency information.
- To reduce transmission volume and power consumption, select [OFF]. It is not possible to have both [ANT+] and [Bluetooth ® LE] turned [OFF] at the same time.
- For power meters not supporting vector display, select from [ANT+/Bluetooth ® LE], [ANT+], or [Bluetooth ® LE].



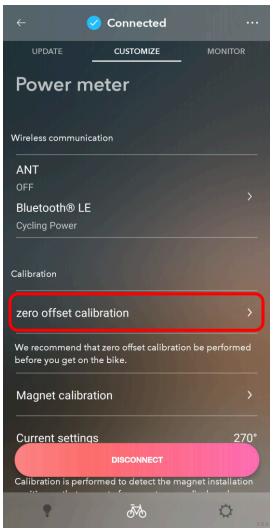
4. **Tap [APPLY].**
   The settings are applied to the power meter.

Calibrating zero offset

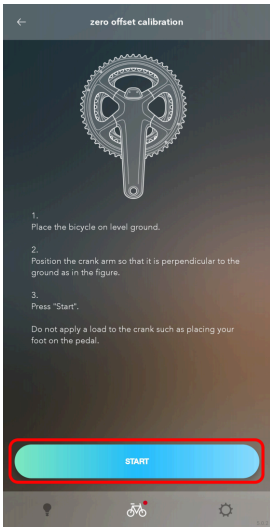
Configure the point at which force applied to the crank arm is zero.

1. **Tap the [CUSTOMIZE] tab on the monitor screen of the power meter.**
   The power meter Customize screen is displayed.

2. **Tap [zero offset calibration].**
   The zero offset calibration screen is displayed.



3. **Position the crank arm according to the on-screen display, and tap [START].**



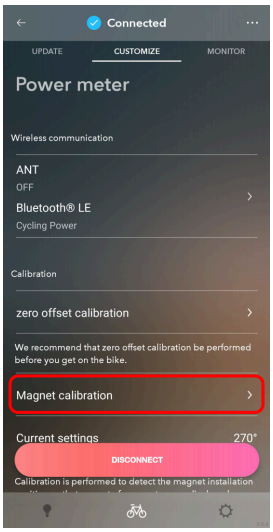
Calibrating the magnet

Configure the magnet position, which is required for the vector display.
With power meters that do not support vector display, [Magnet calibration] is not displayed on the Customize screen.

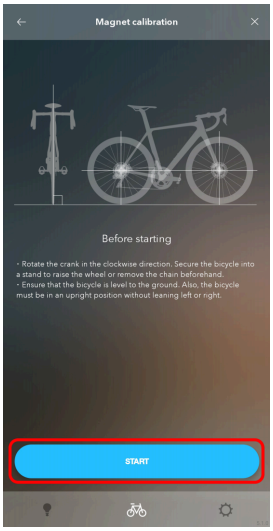
1. **Tap the [CUSTOMIZE] tab on the monitor screen of the power meter.**
   The power meter Customize screen is displayed.

2. **Tap [Magnet calibration].**

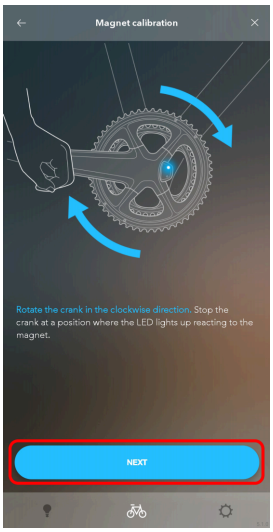
   The Magnet Calibration screen is displayed.



3. **Position the bicycle according to the on-screen display, and tap [START].**



4. **Follow the on-screen instructions, then press [NEXT].**



NOTICE

- Stop the crank at the position at which the LED turns on. The magnet cannot be calibrated correctly if you stop the crank at any other position.

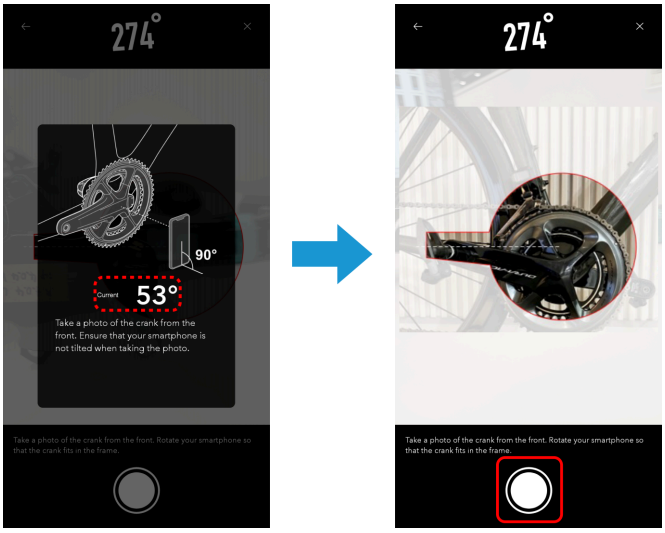
5. **Tap [TAKE PHOTO].**



6. **Adjust the angle of your smartphone so it is perpendicular to the ground, and take a photo of the front of the crank.**

   Referring to the angle displayed on the screen, adjust the angle of the smartphone.

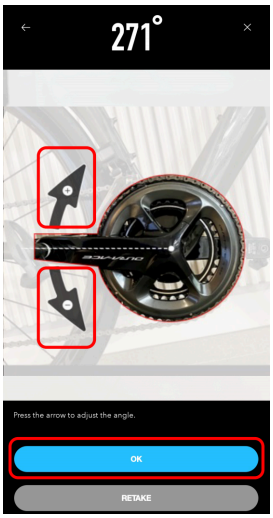
   Adjust the position of the smartphone so that the crank is within the frame on the screen, then tap ◯ .



7. **Perform fine adjustment of the crank arm angle in the photo that was taken, then tap [OK].**

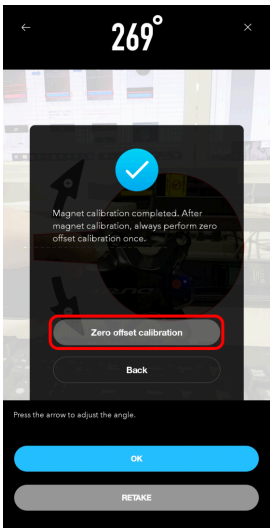
   Tap the arrows to adjust the crank arm angle.

   Tap [RETAKE] to retake the photo.

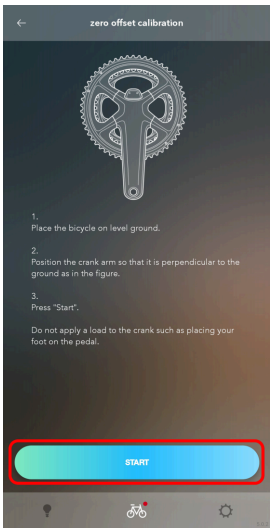


8. Tap [Zero offset calibration].

The zero offset calibration screen is displayed. Always calibrate the zero offset after calibrating the magnet.

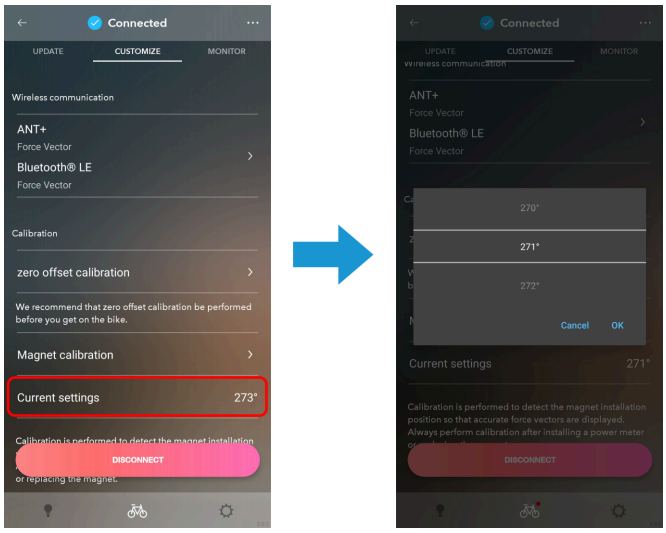


9. **Position the crank arm according to the on-screen display, and tap [START].**



NOTICE

- Tap [Current settings] to adjust the settings.



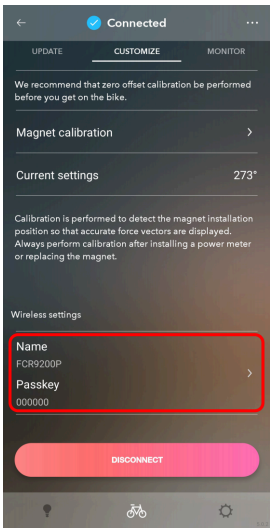
Configuring power meter wireless settings

You can configure the registered name and passkey for the power meter.

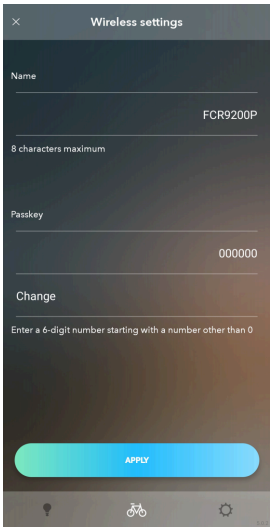
1. **Tap the [CUSTOMIZE] tab on the monitor screen of the power meter.**
   The power meter Customize screen is displayed.

2. **Tap the wireless settings display field.**

   The Wireless Setting screen is displayed.



3. **Configure the various settings.**



Change name

You can change the registered name of the power meter.

Change passkey

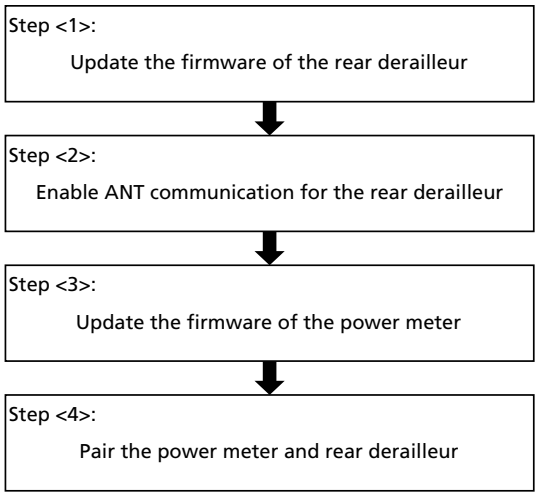
You can change the passkey. Tap [Change] and enter a 6-digit number that starts with a number other than 0.

4. **Tap [APPLY].**
   The settings are applied to the power meter.

Improving the power accuracy of a power meter

You can pair a SHIMANO power meter* with a compatible Di2 rear derailleur* to improve the accuracy of power measurement.

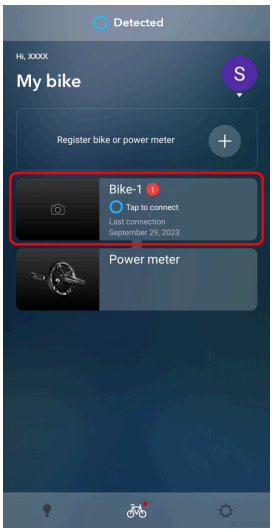
* FC-R9200-P/FC-R8100-P/RD-R9250/RD-R8150/RD-R7150



When connecting with a bicycle or power meter, refer to " Connecting to the bicycle " to prepare the wireless unit and power meter for connection.

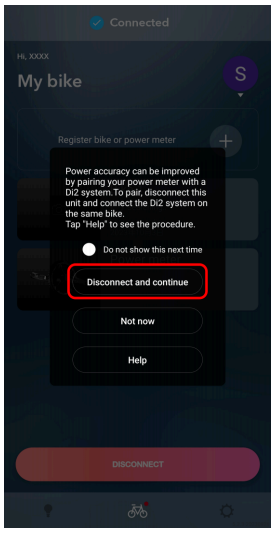
If a power meter is not associated with a bicycle, such as when my bike is not registered, refer to " If the power meter is not associated with a bicycle ".

1. **Tap the bicycle associated with a power meter on the bicycle registration screen.**
   The bicycle is connected, and a dialog box recommending power accuracy improvement is displayed.



NOTICE

- If you tap the power meter, the application and power meter are connected and a dialog is displayed.
  To proceed with power accuracy improvement, tap [Disconnect and continue], disconnect from the power meter, and perform step 1 .

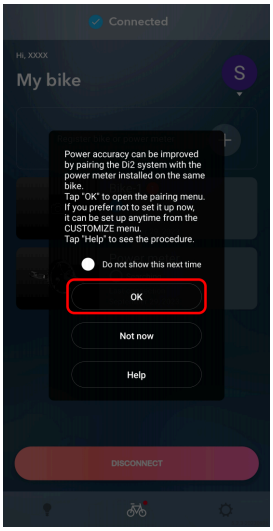


2. Tap [OK].

The power accuracy improvement screen (step <1>) is displayed.

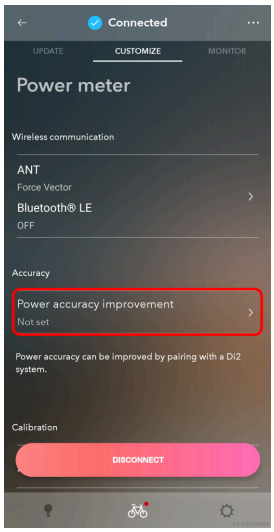
If the rear derailleur has the latest firmware version, the power accuracy improvement screen (step <1>) is skipped. Proceed to step 6 .

If the rear derailleur has the latest firmware version and ANT communication is already enabled in the wireless communication method settings of the rear derailleur, the power accuracy improvement screen (step <2>) is also skipped. Proceed to step 7 .

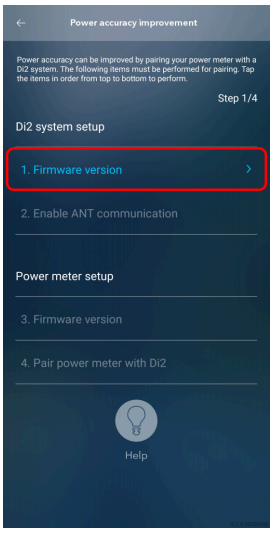


NOTICE

- Select [Do not show this next time] to hide the dialog box from the next time.
- If you tap [Not now], the Customize Top screen is displayed without performing power accuracy improvement. The settings of the power accuracy improvement can be configured from the [Power accuracy improvement] menu on the Customize Top screen at any time.

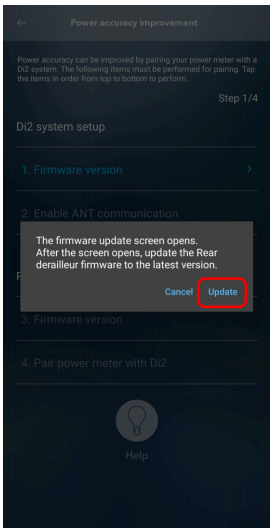


3. **Tap [1. Firmware version].**
   A dialog box for confirming the update is displayed.



4. Tap [UPDATE].

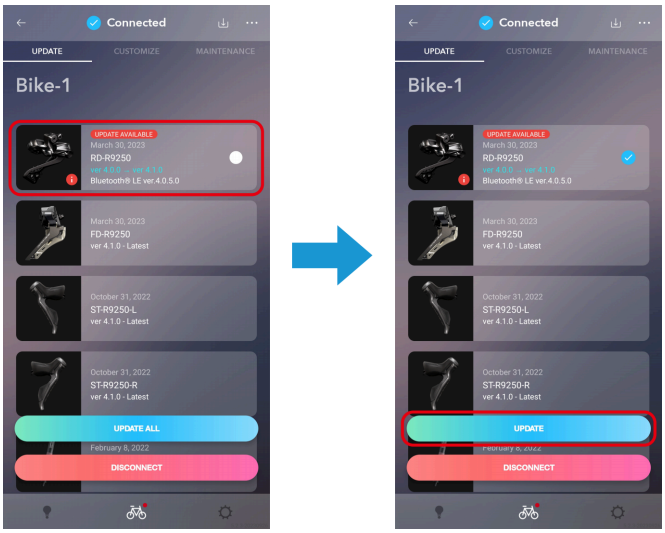
The update screen is displayed.



5. Tap the rear derailleur to select it, then tap [Update].

When the confirmation dialog box is displayed, tap [Update] to display a confirmation screen. If you tap [Update] again, the firmware of the rear derailleur starts updating, and the power accuracy improvement screen (step <2>) is displayed when the update is complete.

If ANT communication is already enabled in the wireless communication method settings of the rear derailleur, the power accuracy improvement screen (step <2>) is skipped. Proceed to step 7 .

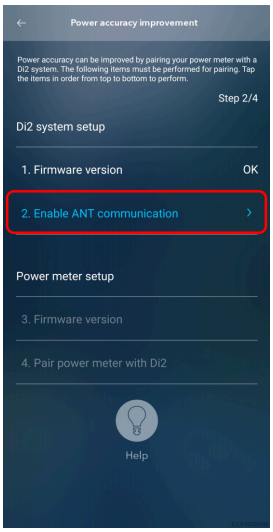


NOTICE

- Do not operate your smartphone during a firmware update. If you use other applications and force E-TUBE PROJECT Cyclist into the background, the update may fail.
- Leave your smartphone near the rear derailleur and do not move it away while the firmware is updating.

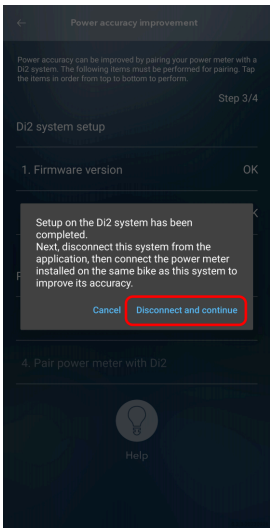
6. Tap [2. Enable ANT communication].

Wireless communication with ANT communication is enabled, and a confirmation dialog box is displayed.



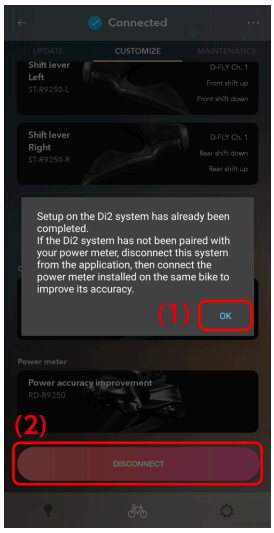
7. Tap [Disconnect and continue].

The bicycle is disconnected, and the bicycle registration screen is displayed.



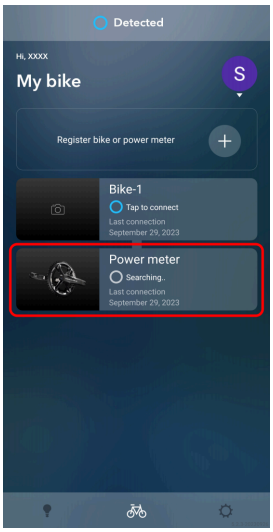
NOTICE

- If the conditions for both steps <1> and <2> are met, a dialog box indicating that the rear derailleur settings are complete is displayed.
  Tap [OK] to close the dialog, then tap [Disconnect]. The bicycle is disconnected, and the bicycle registration screen is displayed.



8. Tap the power meter on the bicycle registration screen.

The power meter is connected, and a dialog box recommending pairing is displayed.



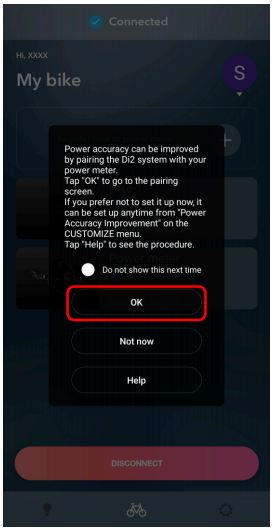
NOTICE

- If the power meter is registered to a bicycle other than the bicycle that the Di2 system is assigned to, a dialog box recommending configuration on the Di2 system side is displayed.
  Cancel the my bike registration of the power meter, register the power meter to the bicycle* that the Di2 system for which accuracy improvement configuration is complete is assigned to, then proceed to step 8.
  *Check the NOTICE in step 8 here , then proceed with the configuration.

9. Tap [OK].

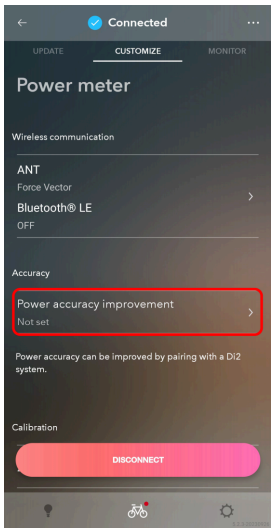
The power accuracy improvement screen (step <3>) is displayed.

If the power meter has the latest firmware version, the power accuracy improvement screen (step <3>) is skipped. Proceed to step 13 .



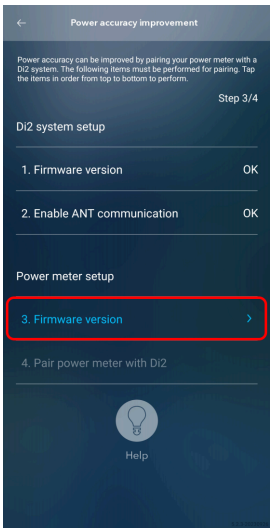
NOTICE

- Select [Do not show this next time] to hide the dialog box from the next time.
- If you tap [Not now], the customization screen of the power meter is displayed without pairing. The settings of the power accuracy improvement can be configured from the [Power accuracy improvement] menu on the customization screen at any time.



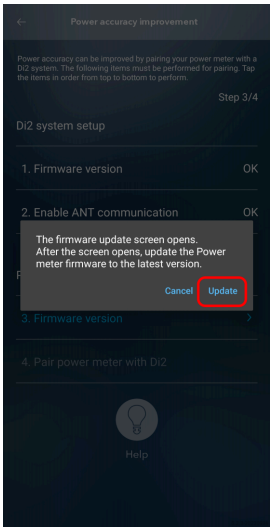
10. Tap [3. Firmware version].

A dialog box for confirming the update is displayed.



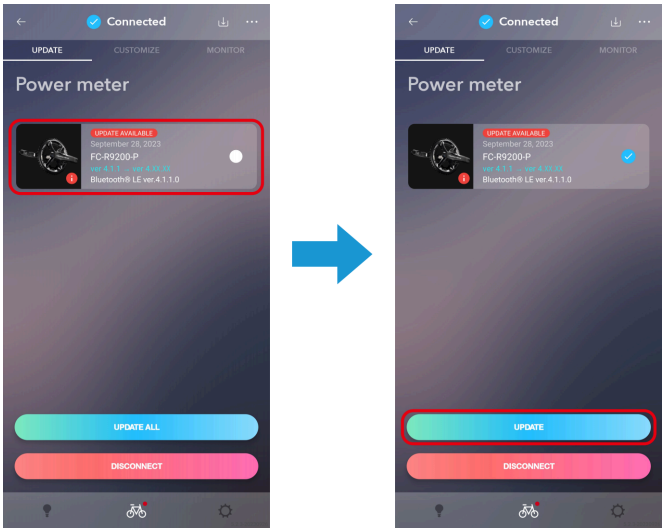
11. Tap [UPDATE].

The update screen is displayed.



12. Tap the power meter to select it, then tap [UPDATE].

When the confirmation dialog box is displayed, tap [Update] to display a confirmation screen. If you tap [Update] again, the firmware of the power meter starts updating, and the power accuracy improvement screen (step <4>) is displayed when the update is complete.

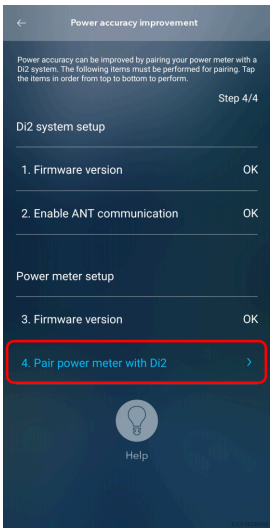


NOTICE

- Do not operate your smartphone during a firmware update. If you use other applications and force E-TUBE PROJECT Cyclist into the background, the update may fail.
- Leave your smartphone near the power meter and do not move it away while the firmware is updating.

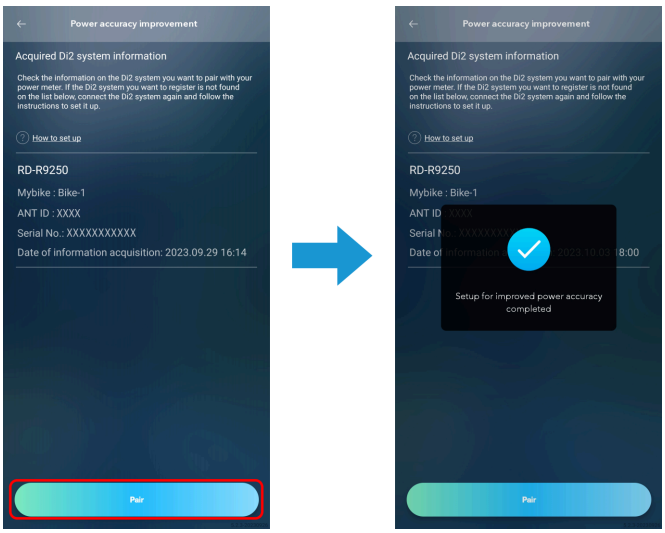
13. Tap [4. Pair power meter with Di2].

The pairing screen is displayed.



14. Confirm the displayed rear derailleur, and tap [Pair].

Pairing is performed, and a screen indicating that power accuracy improvement is complete is displayed.



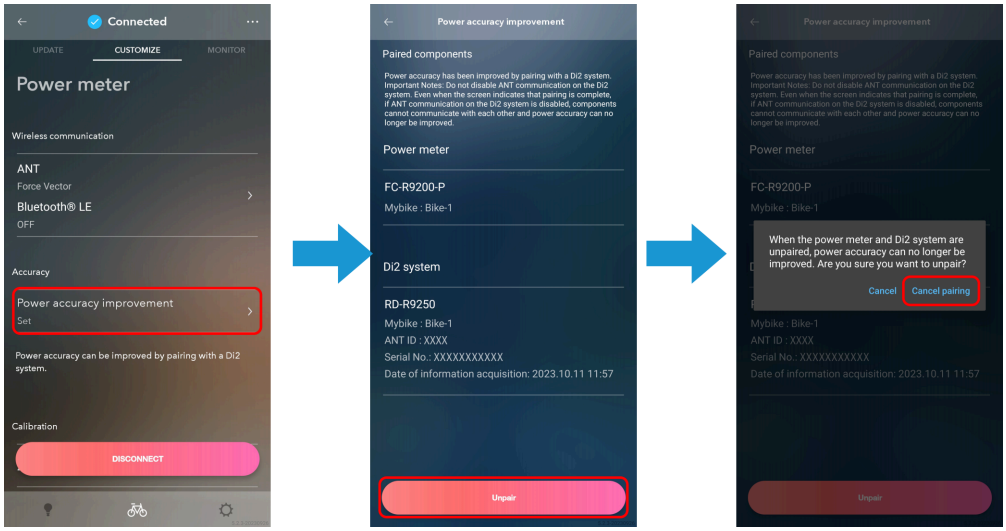
15. Tap [Done].

Power accuracy improvement is complete, and the power meter customization screen is displayed.



NOTICE

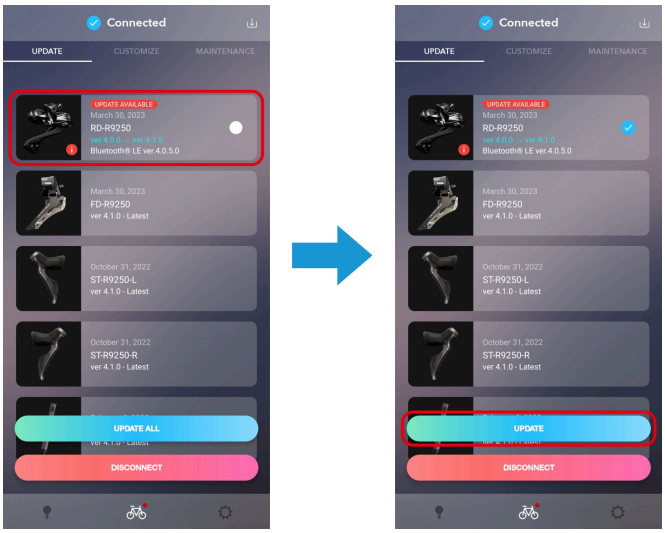
- To cancel pairing between the power meter and the rear derailleur, tap [Power accuracy improvement] on the power meter customization screen.
  When the power accuracy improvement screen is displayed, tap [Unpair]. When the confirmation dialog box is displayed, tap [Cancel pairing] to cancel pairing.
  If pairing is canceled, the power accuracy of the power meter will not be improved.



If the power meter is not associated with a bicycle

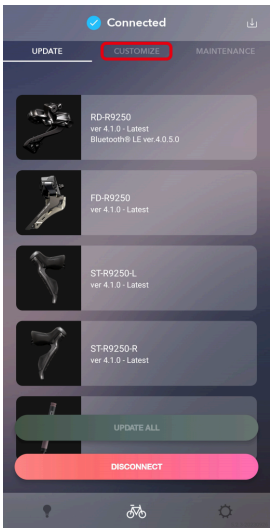
When a power meter and bicycle with Di2 system are not associated, such as when my bike is not registered, the power accuracy improvement screen on the Di2 system side is not displayed.
In order to improve the power accuracy, you may need to connect to the power meter after upgrading the firmware of the rear derailleur and setting the wireless communication method.
When connecting with a bicycle or power meter, refer to " Connecting to the bicycle " to prepare the wireless unit and power meter for connection.

1. **Connect with the bicycle, tap the rear derailleur on the update screen to select it, then tap [Update].**
   When the confirmation dialog box is displayed, tap [Update] to display a confirmation screen. Tap [Update] again to start updating.
   If [UPDATE AVAILABLE] is not displayed on the panel of the rear derailleur, an update is not required, so proceed to step 2 .



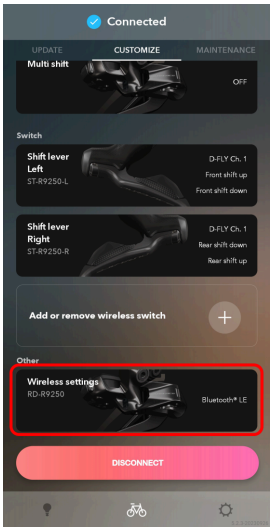
2. **Tap the [Customize] tab.**

   The Customize Top screen is displayed.



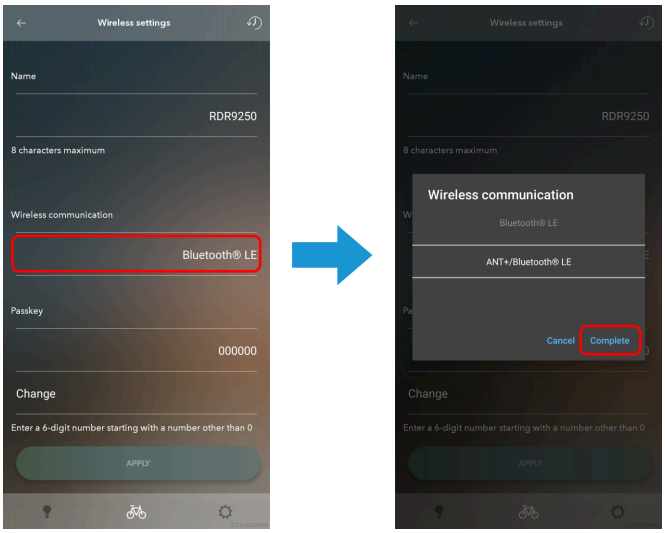
3. **Tap the [Wireless settings] panel.**

   The Wireless Setting screen is displayed.



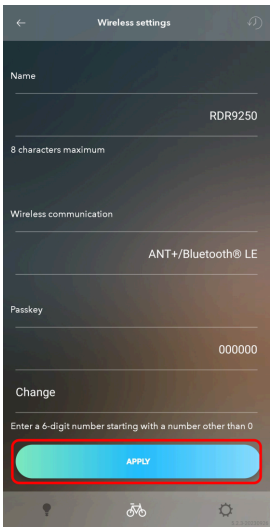
4. Set [Wireless communication] to [ANT+/Bluetooth ® LE].

Tap the [Wireless communication] area and select the option from the pull-down menu.



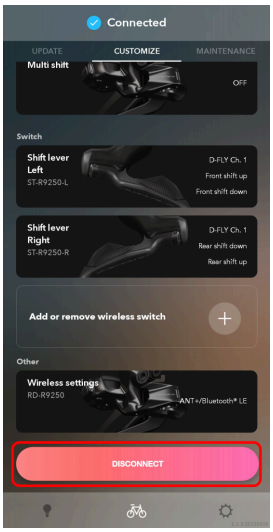
5. Tap [APPLY].

The settings are complete, and the display returns to the Customize Top screen.



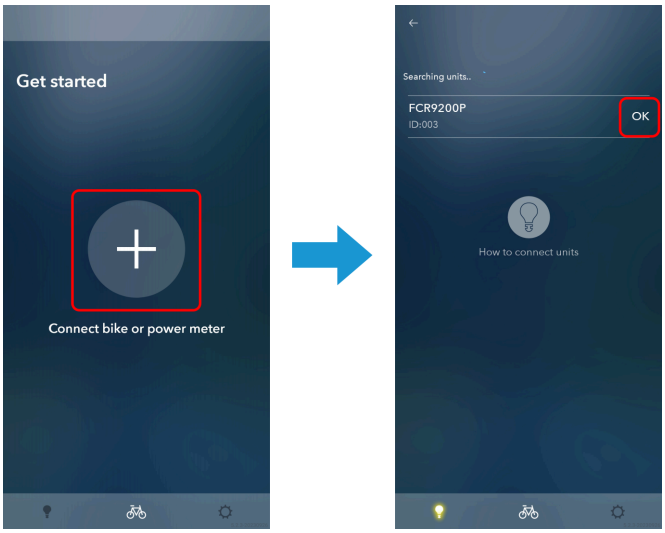
6. **Tap [Disconnect].**

   The bicycle is disconnected, and the bicycle registration screen is displayed.



7. Connect the power meter.

The power meter is connected, and a dialog box recommending pairing is displayed.



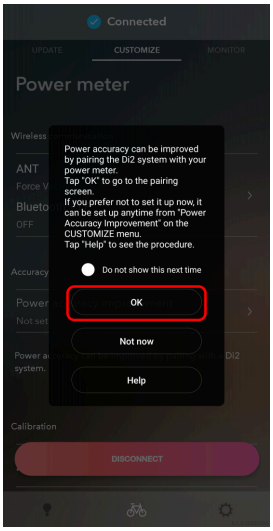
NOTICE

- If the rear derailleur settings are not complete, a dialog box recommending configuration is displayed. To proceed with configuring the settings, tap [Disconnect and continue] to disconnect from the power meter, and perform the procedures from step 1 .
- If the power meter is registered to a bicycle other than the bicycle that the Di2 system is assigned to, a dialog box recommending configuration is displayed. Check the NOTICE in step 8 here , then proceed with the configuration.

8. Tap [OK].

The power accuracy improvement screen (step <3>) is displayed.

If the power meter has the latest firmware version, the power accuracy improvement screen (step <3>) is skipped and the power accuracy improvement screen (step <4>) is displayed.

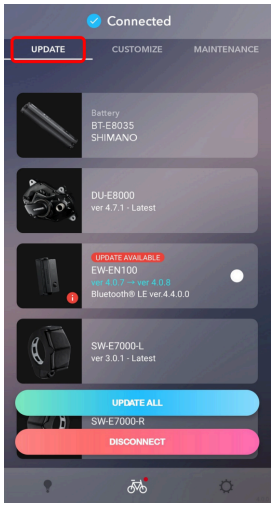


9. Follow the procedures in steps 10 **to** 15 **of "** Improving the power accuracy of a power meter **".**

Update

Update

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



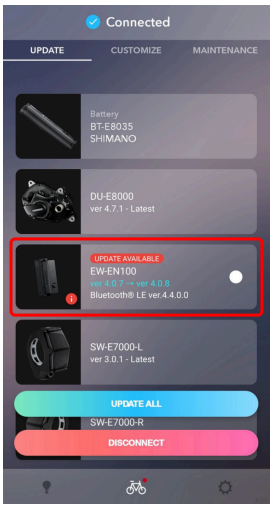
Updating the firmware

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

NOTICE

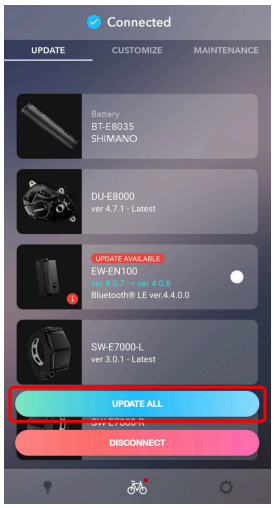
- During a firmware update, you cannot perform operations other than canceling the update.
- Wireless updates use 2.4 GHz frequency digital communication technology. Interference in the following types of locations or environments could cause the update to not finish properly. Avoid updating in the following types of environments:
  - Near a device such as a television, computer, radio, or motor, or inside an automobile or railway car
  - Near a railway crossing or railway track, television transmitting station, or radar base, etc.
  - When using the device in combination with another cordless device or some lights
- Do not operate your smartphone during a firmware update. If you use other applications and force E-TUBE PROJECT Cyclist into the background, the update may fail.
- Leave your smartphone near the wireless unit and do not move it away while the firmware is updating.
- If recovery is not possible with this application because wireless updating fails due to a problem with the connection, it is necessary to use the dealer software (E-TUBE PROJECT Professional) to restore the firmware. Contact the place of purchase.

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



NOTICE

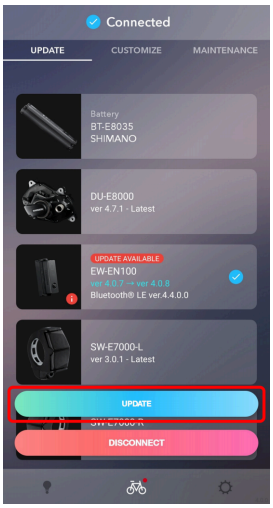
- Tap [UPDATE ALL] to display the confirmation screen. Tap [UPDATE] to start all required unit updates.



- Tap [DISCONNECT] to disconnect the bicycle.
- Tap to check the latest version of the firmware file and download the required file.
- Some units can only be updated using the dealer software (E-TUBE PROJECT Professional). Contact the place of purchase.

2. **Tap [UPDATE].**

   The confirmation screen will be displayed. Tap [Update] again to begin updating.

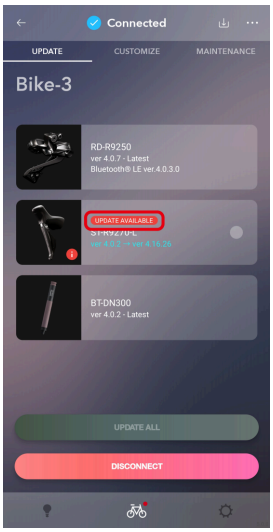


Updating the firmware of a shifter/switch compatible with wireless connections

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 units of the bicycle such as the rear derailleur using an electric wire.

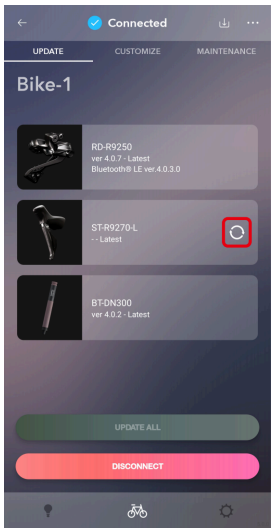
1. **Check whether an update is possible on the update screen.**

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



NOTICE

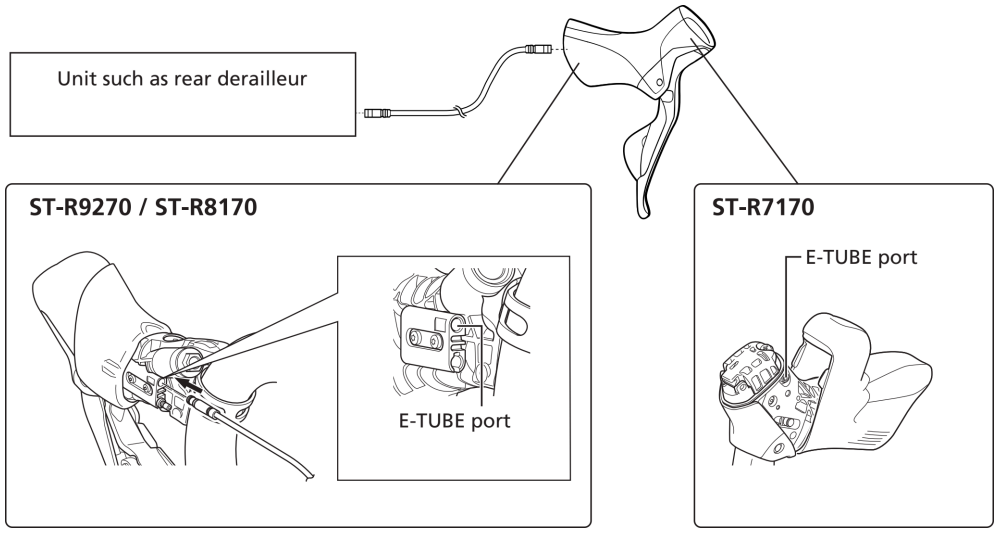
- Units that are not paired are not displayed.
- If ST-R7170 is not connected by wires, [UPDATE AVAILABLE] is not displayed even when an update is possible.
  Check whether it is possible to perform an update via a wired connection to a unit of the bicycle such as the rear derailleur using an electric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





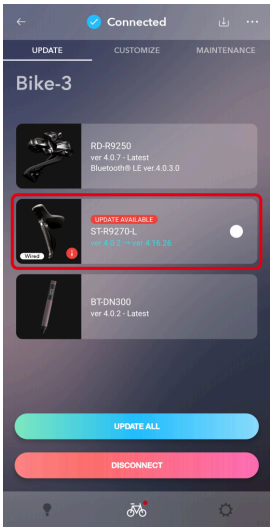
2. **If an update is required, connect the unit with an electric wire.**

   Connect the unit of the bicycle such as the rear derailleur using an electric wire.



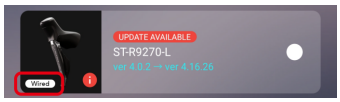
3. **Tap the panel for the unit to update on the update screen.**

   The check box for the panel of the selected unit is selected.

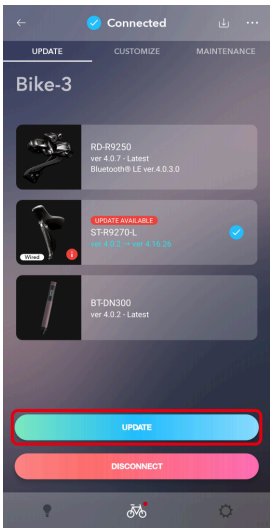


NOTICE

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



4. **Tap [UPDATE].**
   The confirmation screen will be displayed. Tap [Update] again to begin updating.



Restoring the firmware

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

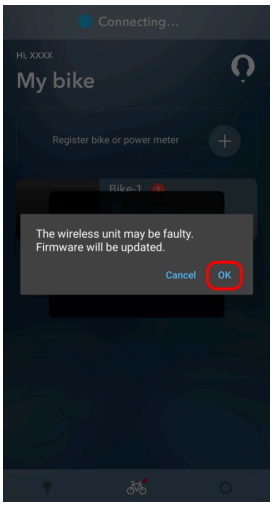
For the system information display or wireless unit

The screen in step 1 is displayed if the update fails.

1. **Tap** .



2. **Tap [OK] on the following screen displayed when you connect to the bicycle.**
   If recovery is successful, the regular screen after connection is complete is displayed.



NOTICE

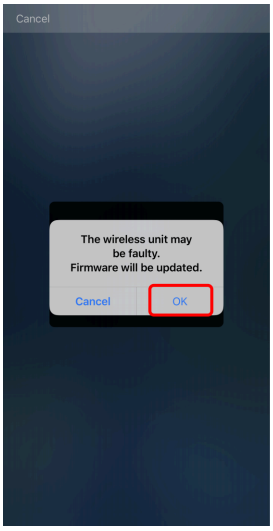
- If recovery fails, the firmware update failure screen is displayed.
  Try the firmware recovery procedure again.
- If the recovery procedure fails repeatedly, try the firmware update recovery procedure again at a different time and location.
- If the recovery is not successful, it is necessary to use the dealer software (E-TUBE PROJECT Professional) to restore the firmware. Contact the place of purchase. If recovery is successful, connect the wireless unit to the bicycle, and try updating E-TUBE PROJECT Cyclist to the latest version again.
- Some units can only be restored using the dealer software (E-TUBE PROJECT Professional). Contact the place of purchase.

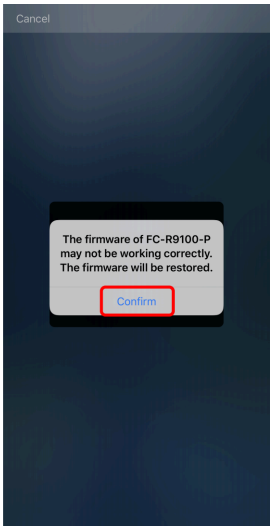
For power meter

If the restoration process fails

If either of the screens in step 1 is displayed, perform the restoration process.

1. **Tap [OK] or [Confirm].**
   Follow the guidance to perform the recovery procedure.



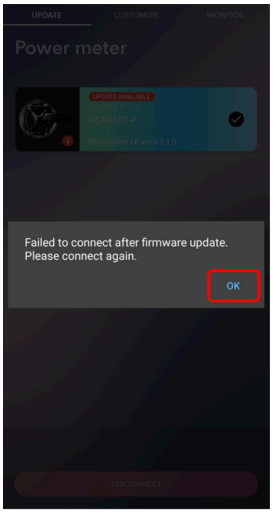


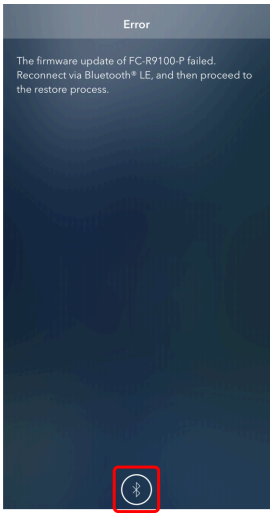
2. **If the same screen as above is displayed again even after performing the recovery procedure, disconnect Bluetooth ®, reconnect, and follow the guidance to perform the recovery procedure.**
   If the restoration process fails several times, contact your place of purchase or distributor.

If an error is displayed

If either of the screens in step 1 is displayed, perform the restoration process.

1. **Tap [OK] or .**





2. **Reconnect Bluetooth ® and follow the guidance to perform the recovery procedure.**
   If the restoration process fails several times, contact your place of purchase or distributor.

If you cannot reconnect Bluetooth ®

If Bluetooth ® reconnection cannot be performed after updating the firmware of a power meter, press and hold the button of the control unit for 15 seconds to perform a hardware reset.
The power meter will be automatically connected via Bluetooth ® after the hardware reset, but if the model name is not displayed in the Bluetooth ® destination list screen of E-TUBE PROJECT Cyclist for five seconds or more, the power meter may not have been connected automatically. In this case, press the button on the control unit to set the power meter to the Bluetooth ® connection state. If you cannot connect after a hardware reset, contact a nearby place of purchase.

NOTICE

- The firmware update may not be performed correctly if another Bluetooth ® device is connected. Disconnect the Bluetooth ® device, and perform the update again with only the power meter connected.
- If you execute a firmware update with E-TUBE PROJECT connected via Bluetooth ® after changing the passkey, the connection may fail after the update is performed. Connect to E-TUBE PROJECT Cyclist again and confirm that the firmware update has been performed correctly.

Pairing

Pairing

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

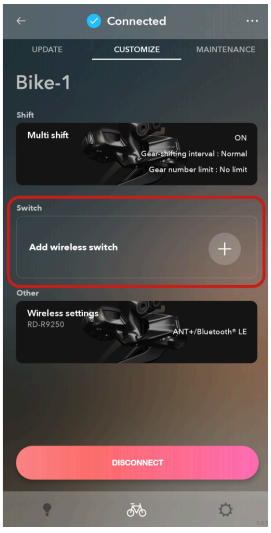
- Scanning QR code to perform pairing
- Location of QR code / product serial ID
- Manually entering the product serial ID to perform pairing
- If pairing fails

NOTICE

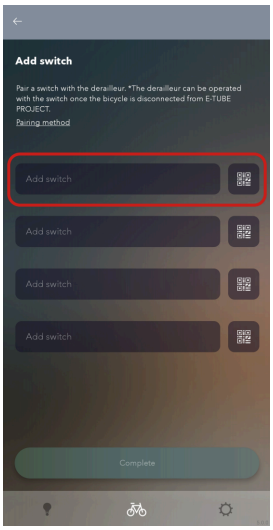
- If you are using an electric bicycle, turn the power on before configuring the settings.

Scanning QR code to perform pairing

1. **Tap [Add wireless switch] on the Customize Top screen.**
   The pairing screen is displayed. If the connected units include a rear derailleur compatible with wireless gear shifting, [Add wireless switch] is displayed.



2. Tap the product serial ID display column or the QR code symbol.



3. **Using your smartphone camera, scan the QR code marked on the product by positioning the code within the frame on the screen.**
   If the scan is successful, the smartphone will vibrate. The product serial ID is entered and pairing begins. Once the process is completed, the QR code symbol will turn into a check mark.

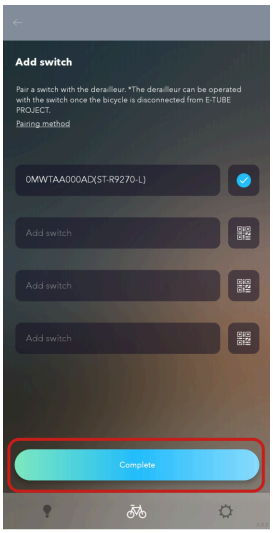


NOTICE

- Adjust the distance of the camera so that the QR code is in focus, rather than filling the entire frame. Ensure that there are no reflections or shadows on the QR code.
- Tap [Manual ID entry] to switch to manual entry.
- Tap [QR code/ID position] to check where the product QR code/product serial ID is marked.
- 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. If this happens, update the application.

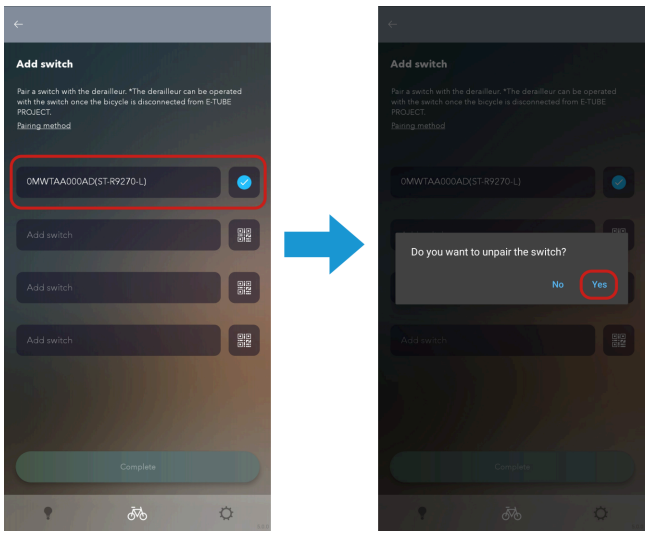
4. Tap [Complete].

When all the required shifters/switches are paired, tap [Complete].



NOTICE

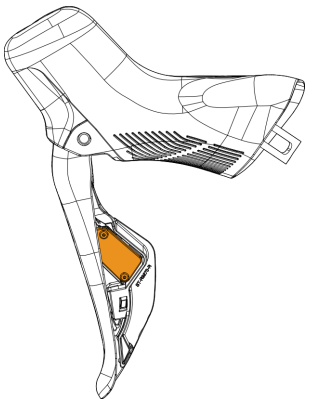
- After disconnecting E-TUBE PROJECT Cyclist, gear shifting can be performed wirelessly.
- To cancel a pairing, tap the product serial ID display of the shifter/switch to cancel, then tap [Yes] on the confirmation dialog that is subsequently displayed. The pairing will be canceled and the check mark will turn into a QR code symbol.



Location of QR code / product serial ID

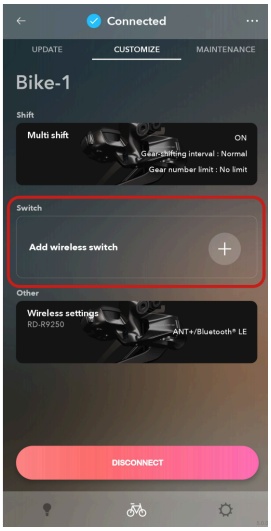
ST-R9270 / ST-R8170 / ST-R7170

The QR code and the product serial ID are marked on the switch unit inside the lever.

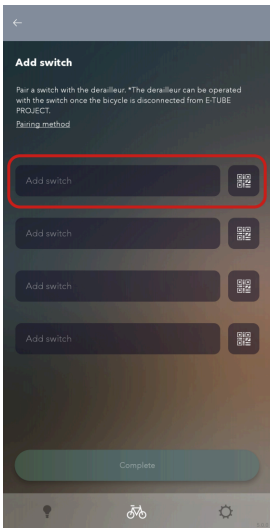


Manually entering the product serial ID to perform pairing

1. **Tap [Add wireless switch] on the Customize Top screen.**
   The pairing screen is displayed. If the connected units include a rear derailleur compatible with wireless gear shifting, [Add wireless switch] is displayed.



2. **Tap the product serial ID display column or the QR code symbol.**



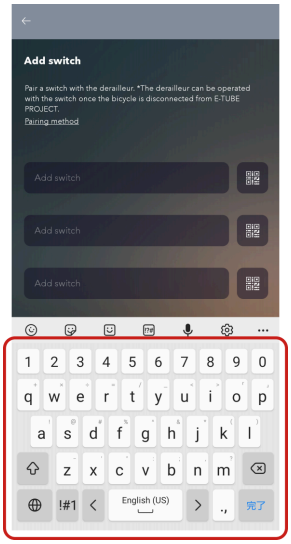
3. **Tap [Manual ID entry].**

   A keypad is displayed.



4. Enter the product serial ID.

Use alphanumeric characters and uppercase characters. If the product serial ID is valid, an operation confirmation dialog is displayed.

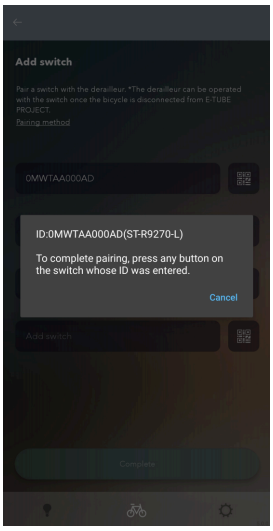


NOTICE

- The product serial ID is marked near the QR code on the switch unit inside the lever.
- 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.

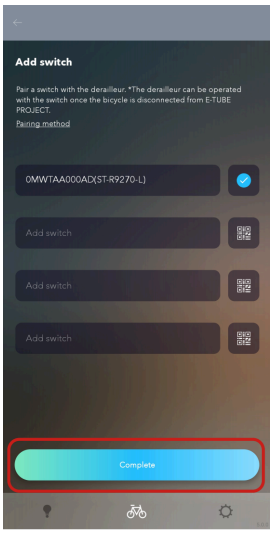
5. **Operate any switch on the shifter/switch to be paired.**

   Pairing begins. Once the process is completed, the QR code symbol will turn into a check mark.



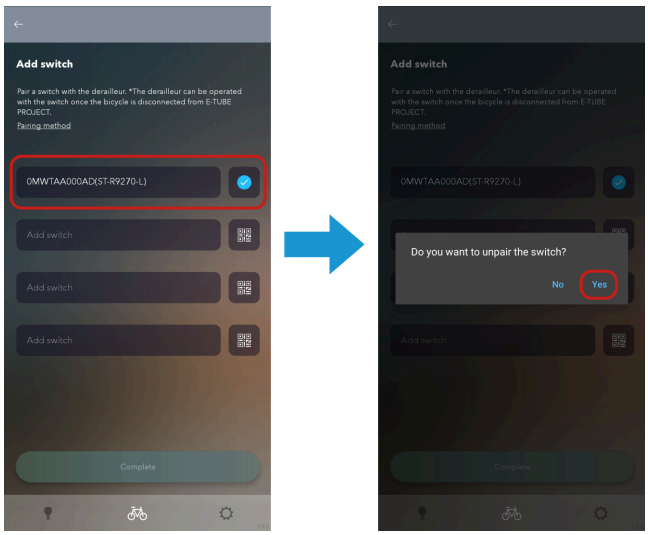
6. **Tap [Complete].**

   When all the required shifters/switches are paired, tap [Complete].



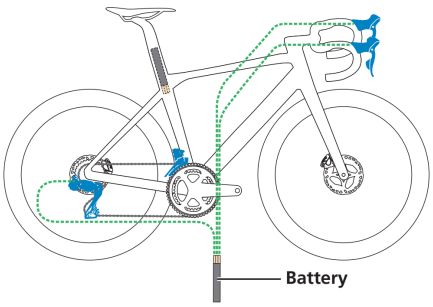
NOTICE

- After disconnecting E-TUBE PROJECT Cyclist, gear shifting can be performed wirelessly.
- To cancel a pairing, tap the product serial ID display of the shifter/switch to cancel, then tap [Yes] on the confirmation dialog that is subsequently displayed. The pairing will be canceled and the check mark will turn into a QR code symbol.



If pairing fails

Check the following information if pairing fails.

Symptoms	Causes/possibilities	Remedies
Pairing fails.	Has the correct product serial ID been entered manually?	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.
	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.
	If you are using an electric bicycle, is the power of the bicycle on?	Turn the power on before configuring the settings.
	Pairing using E-TUBE PROJECT always fails.	Pairing can also be performed with a wired connection. Switches/shifters cannot be paired one at a time. 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.

	It may be difficult to read the QR code, depending on the smartphone you are using.	If it is difficult to read the QR code, try manually entering the product serial ID.
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.
	Is the product connected to E-TUBE PROJECT?	Disconnect E-TUBE PROJECT. Gear shifting cannot be performed while E-TUBE PROJECT is connected.
	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

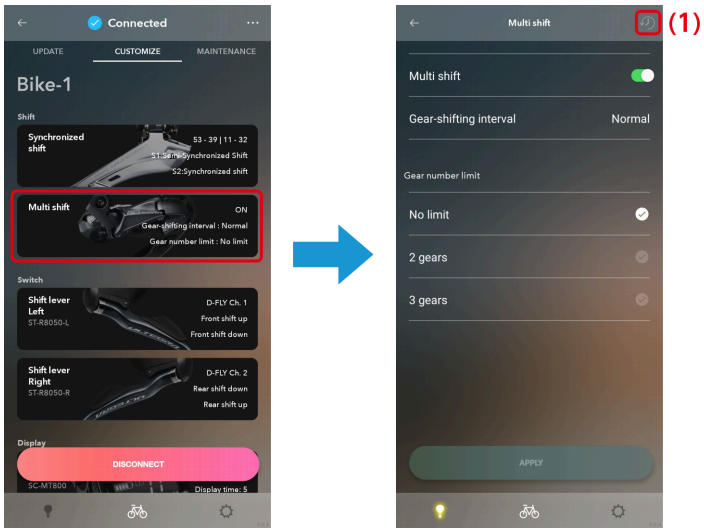
Customize

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



Customize screen

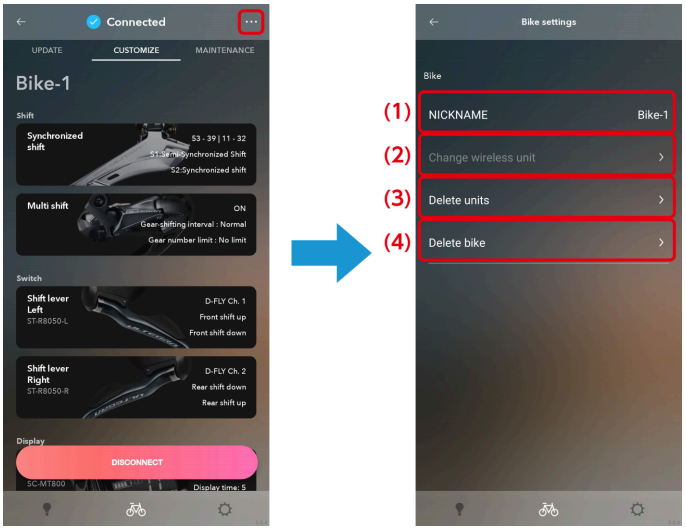
A list of the settings for the currently connected unit is displayed on the Customize Top screen. Select a displayed function to display its settings screen. The displayed content and the settings that can be customized differ according to the connected units and combination of units.



(1) Tap to restore the settings of the unit being configured to the default values. The changes are not written to the bicycle until the settings are complete.

NOTICE

- Tap ··· on the Customize Top screen to display the settings screen of the registered bicycle. The settings are only displayed if you log in with a SHIMANO ID.



(1) Tap to edit the registered name for the bicycle.

(2) Tap to display the wireless unit change screen. Tap [Register] for the wireless unit to connect to.

(3) Tap to display the unit delete screen. Tap to select the unit to delete and tap [Delete].

(4) Tap to delete the registered bicycle that is connected.

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.

  When the bicycle has a Di2 CAN adapter (EW-EX310)

1	An 11-speed or 12-speed electronic rear derailleur is used.
2	An 11-speed or 12-speed electronic front derailleur is used.

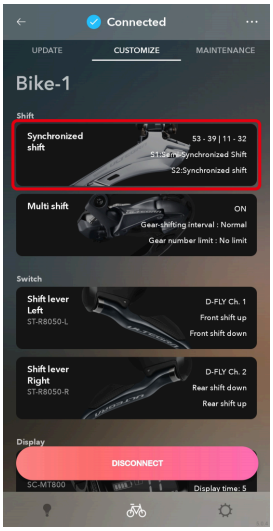
- To set multi-shifting, both the conditions indicated below in 1 and 2 must be met.
  If it cannot be set despite both the conditions being met, update the firmware for all units to the latest version.

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.	

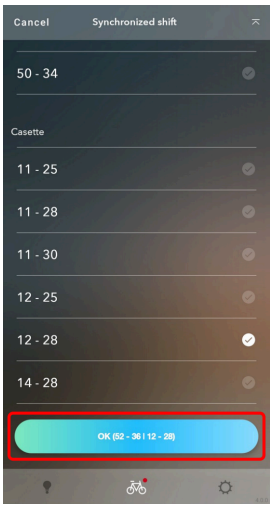
Synchronized shift

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

1. **Tap the function to configure on the Customize Top screen.**
   The number of teeth selection screen is displayed.
   If the same settings file exists for the connected bicycle, the shift mode selection screen is displayed.



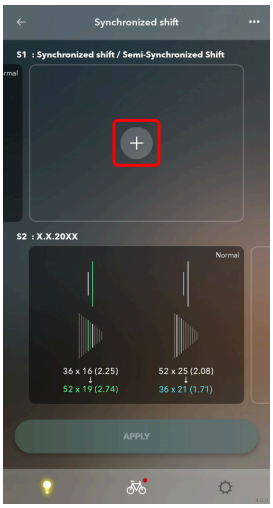
2. **Select the number of teeth for the chainring and number of teeth for the cassette sprocket, and tap [OK (<FC number of teeth> | <CS number of teeth>)].**



The shift mode selection screen is displayed. Both the S1 and S2 settings files for the connected bicycle are currently displayed in the center of the screen.

3. **Tap the ⊕ area to create a new file.**

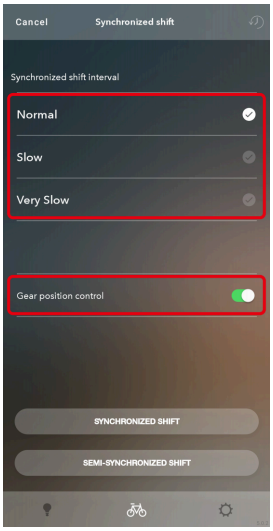
   Swipe the screen to display a screen with ⊕. To edit an existing file, tap the file and proceed to step 6.



NOTICE

- On the shift mode selection screen, you can save up to 6 settings files for each combination of teeth numbers. You can swipe left or right to display other files.
- If 6 files already exist, delete a file before saving a new file.
- Tap ⋯ on the shift mode selection screen to display the number of teeth change screen. Change the number of teeth for the chainring and number of teeth for the cassette sprocket, and tap ← to proceed with the settings.

4. Configure the various settings.



Synchronized shift interval setting

Select Standard/Slow/Very Slow.

Gear position control setting

Select whether to control the gear position.

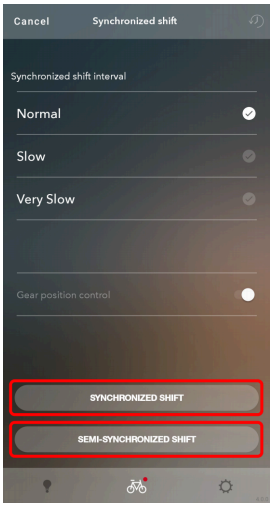
For details on gear position control, refer to the dealer's manual for the rear derailleur being used.

NOTICE

- The gear position control setting may not be able to be set, depending on the combination of unit configuration and number of teeth.

5. **Tap [SYNCHRONIZED SHIFT] or [SEMI-SYNCHRONIZED SHIFT].**

   The synchronized shift setting screen is displayed. [SEMI-SYNCHRONIZED SHIFT] may not be available, depending on the unit configuration.



6. Configure the detailed synchronized shift settings.

Detailed synchronized shift settings

(1) Tap [Up] / [Down] to switch the shift up/shift down settings.

(2) You can tap and move the top and bottom part of the colored box to change the synchronized shift map.
If the chainring is 3-speed, tap the arrow part of the number of teeth (*) and move the colored box while switching the setting range.



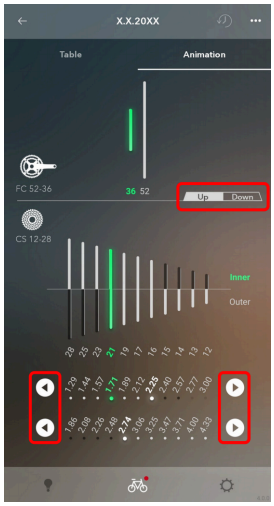
NOTICE

- The gear ratio at each gear position is written in the synchronized shift map, and the gear position where the synchronized shift is performed is enclosed in a colored box. Green means shift up, and blue means shift down.
- The movable range is determined based on the following rules, to enable comfortable synchronized shifting. The shifting point (area enclosed in color) for the front derailleur on the synchronized shift map is called the synchronization point.

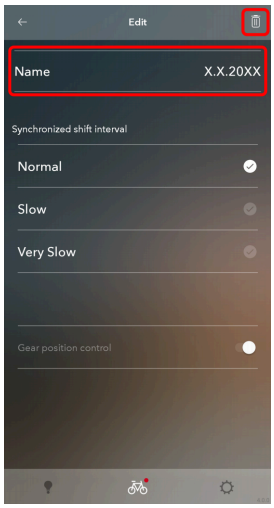
  (1) Shift up synchronization
  Synchronization point RD gear position ≥ synchronization destination RD gear position
  Up to the first gear ratio smaller than the synchronization source can be selected for the synchronization destination gear ratio

  (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

- If the chainring is 2-speed, tap the [Animation] tab to switch the setting screen. Use [Up] / [Down] to switch the shift up/shift down settings, and change the gear position where synchronized shift is performed with ◀ / ▶.



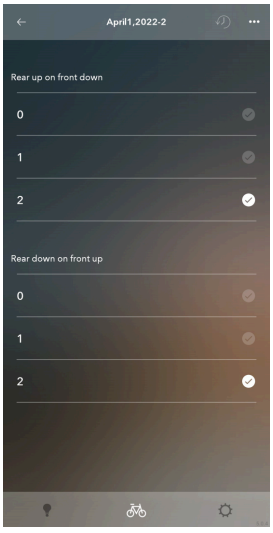
- Tap ··· to display the edit screen. You can tap [Name] to change the file name. You can tap the recycle bin icon to delete files.



Detailed semi-synchronized shift settings

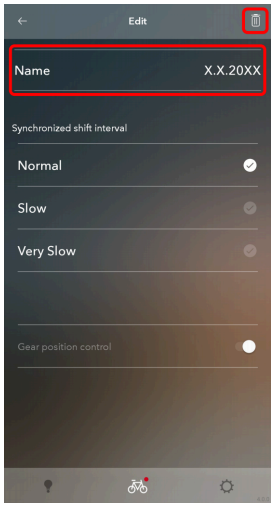
Semi-synchronized shift is a function that automatically shifts the rear derailleur when the front derailleur is shifted in order to obtain optimal gear transition. At this time, it is possible to select among rear derailleur gear positions 0 - 4. (Some gear positions cannot be selected depending on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

(1) Select the gear position for rear up with front down and rear down with front up.



NOTICE

- Tap ··· to display the edit screen.
  You can tap [Name] to change the file name. The file name must be 70 alphanumeric characters or less.
  You can tap the recycle bin icon to delete files.



7. **Tap ← .**
   The shift mode selection screen is displayed.

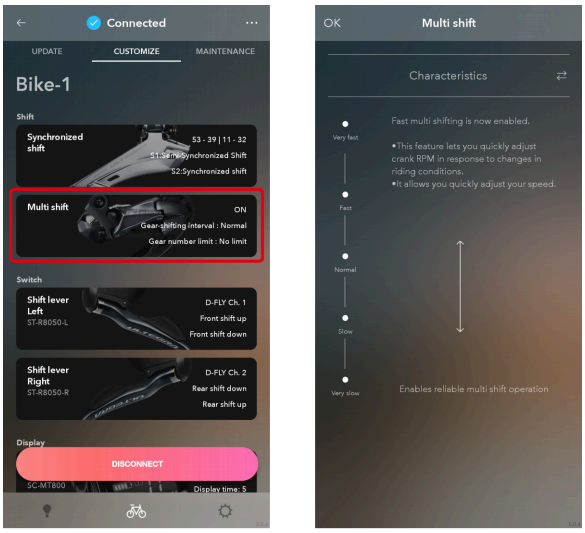
8. **Tap [APPLY].**
   The settings are applied to the unit.

Multi shift

You can configure settings related to multi shift.
Multi shift is a function for continuously shifting multiple gears of the rear derailleur 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. **Tap the function to configure on the Customize Top screen.**

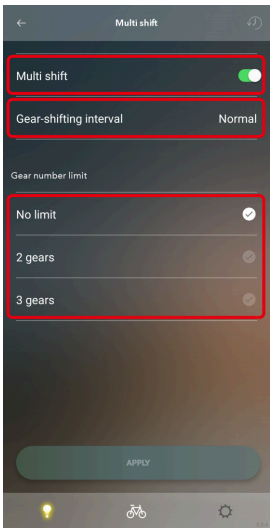
   The multi shift tutorial screen is displayed when you display the multi shift mode setting screen the first time after installing the application and when one week or more has elapsed after the last time the multi shift mode setting screen was displayed.



Tutorial 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.

Gear number limit

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

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. **Tap [APPLY].**
   The settings are applied to the unit.

Automatic gear shifting

You can configure settings related to automatic gear shifting.

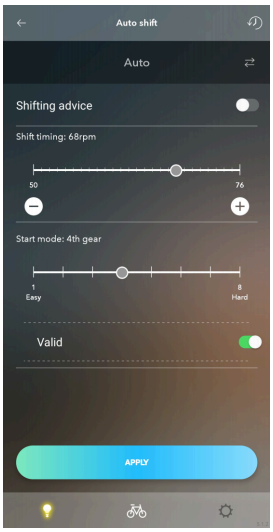
NOTICE

- Automatic FREE SHIFT:
  Automatic 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. **Tap the function to configure on the Customize Top screen.**



2. Configure the various settings.



Gear shifting mode after the app is disconnected

Tap ⇄ and select whether to set automatic gear shifting ON or OFF (manual gear shifting).

Shifting advice

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

Shift timing

Select the shift timing.

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.

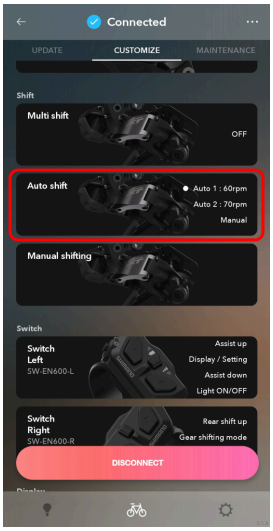
Start mode

With Start mode enabled, auto shift will shift into a desired gear when you come to a stop. Enables you to start from a light gear.

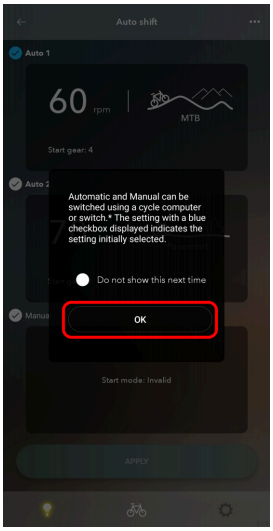
3. **Tap [APPLY].**
   The settings are applied to the unit.

Automatic gear shifting of the DU-EP801/DU-EP600

1. **Tap the function to configure on the Customize Top screen.**
   The dialog box is displayed.



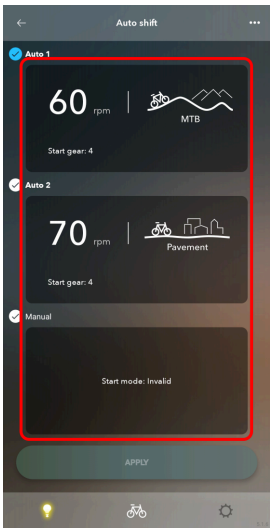
2. **Confirm the displayed information, and tap [OK].**



NOTICE

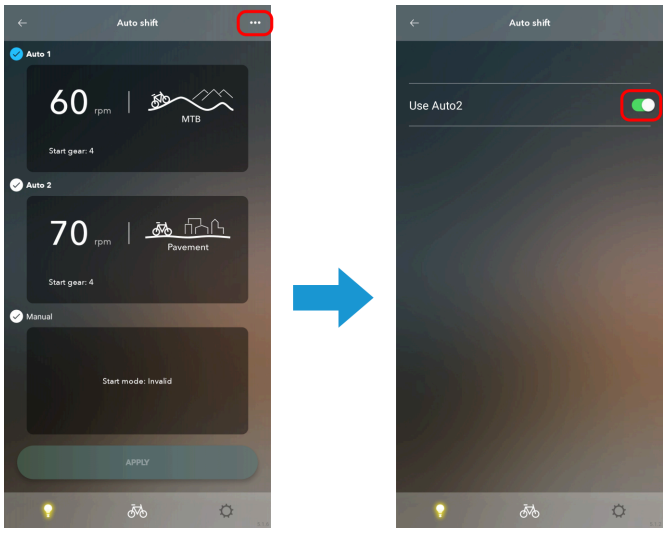
- Select [Do not show this next time] to hide the dialog box from the next time.

3. **Tap a valid panel.**



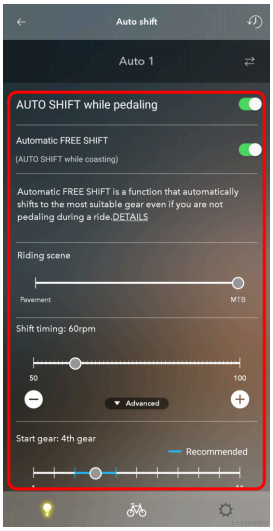
NOTICE

- Tap ··· to set whether to enable [Auto 2].



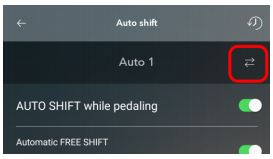
4. Configure the various settings.

Items may not be displayed or settings may not be able to be selected or changed, depending on the unit configuration and firmware of each product.



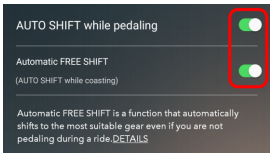
Mode selection for automatic gear shifting

Tap ⇄ and select [Auto 1], [Auto 2], or [Manual] as the mode to set.



AUTO SHIFT while pedaling/Automatic FREE SHIFT (AUTO SHIFT while coasting)

Set whether to enable AUTO SHIFT while pedaling and AUTO SHIFT while not pedaling when riding.



Riding scene

Select the riding scene using the slider.

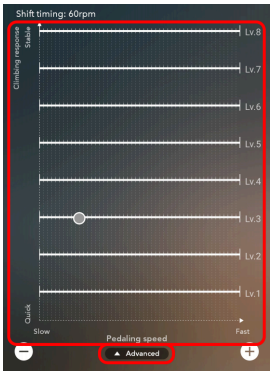


Shift timing

Select the reference value of the crank arm speed at which automatic gear shifting is performed using the slider.



Tap [Advanced] to configure more detailed settings.



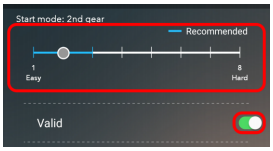
Start gear

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 light blue.



Start mode

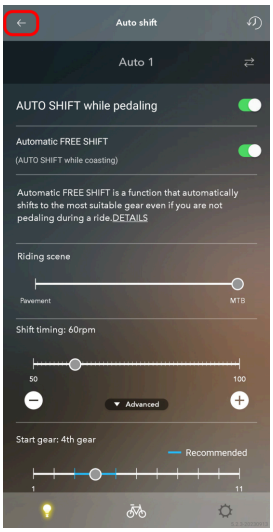
Use the slider to select the gear to shift to when the bicycle has stopped. Enables you to start from a light gear.
The recommended range is displayed in light blue. You can also set whether to enable Start mode.



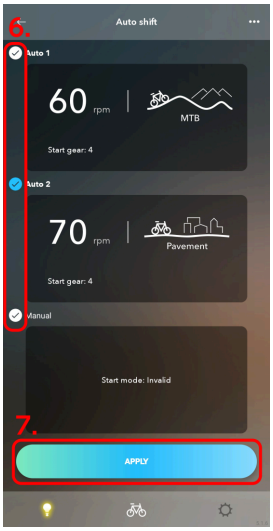
NOTICE

- The white circle on the slider indicates the initial value.
- The setting values of automatic gear shifting that are not selected are displayed faintly on the slider.
- When [Auto 1] or [Auto 2] is selected for the automatic gear shifting mode, you cannot set both [AUTO SHIFT while pedaling] and [Automatic FREE SHIFT] to off.
  When the automatic gear shifting function is not used, select [Manual] for the automatic gear shifting mode.

5. Tap ← .



6. **Select the check box to set the automatic gear shifting mode after the application is disconnected.**
   The mode with the blue check box selected will be the automatic gear shifting mode after the application is disconnected.



7. **Tap [APPLY].**
   The settings are applied to the unit.

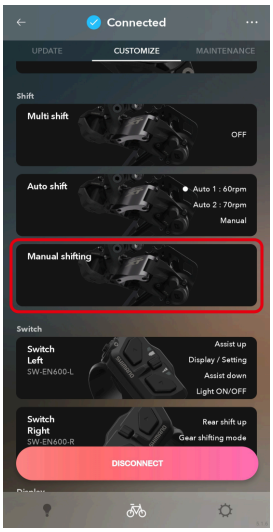
Manual gear shifting

Set whether to enable Manual FREE SHIFT.

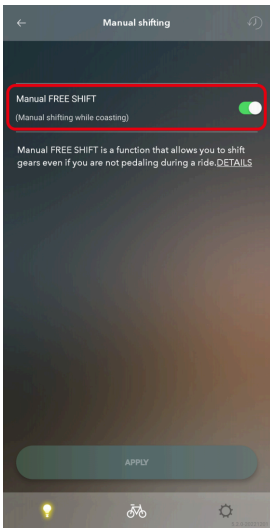
NOTICE

- 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. **Tap the function to configure on the Customize Top screen.**



2. **Select whether to enable it.**



3. **Tap [APPLY].**
   The settings are applied to the unit.

Motor unit settings

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

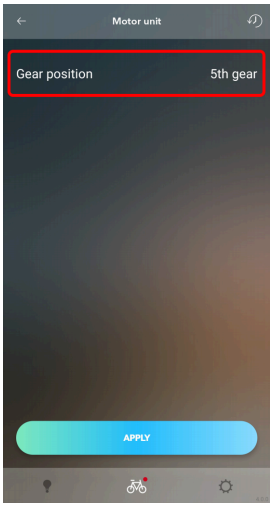
* Please refer to the dealer's manual for the model numbers of compatible internal geared hubs.

Motor unit gear setting

1. **Tap the function to configure on the Customize Top screen.**



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



3. **Tap [APPLY].**
   The settings are applied to the unit.

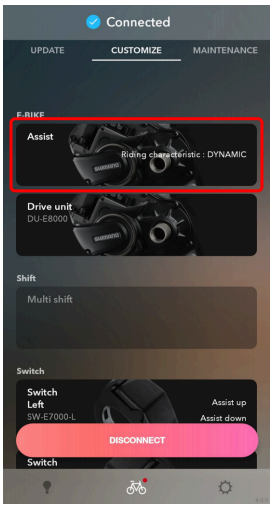
E-BIKE

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.
For details on the assist settings, see the help.

1. **Tap the function to configure on the Customize Top screen.**



2. Configure the various settings.

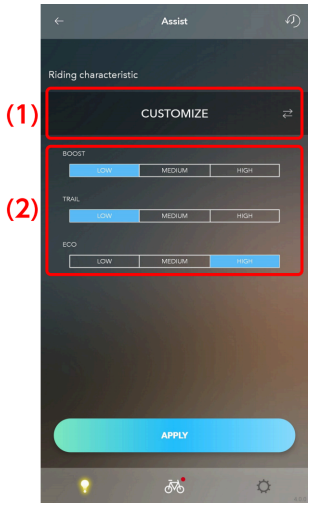
Riding characteristic

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).

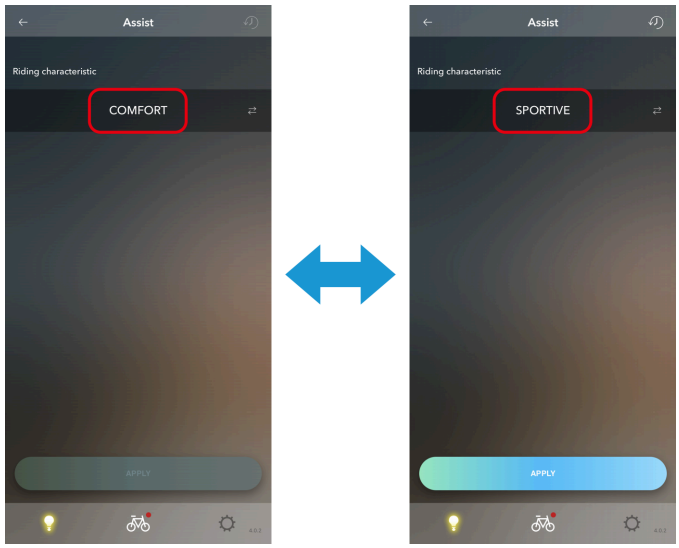


Assist pattern

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.



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.

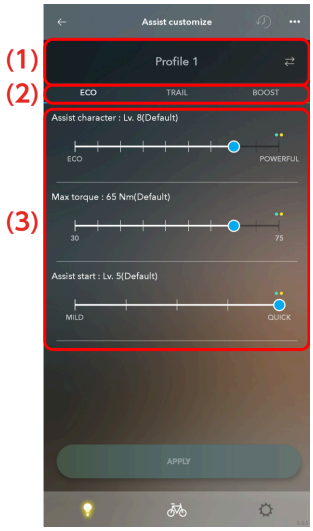
Type	Details
Assist characteristics	With E-BIKE, the assist torque is applied according to the pedal pressure. When the setting is moved toward POWERFUL (the right side), assistance is provided even with low pedal pressure. When the setting is moved toward ECO (the left side), the balance between the 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) Select [Profile 1] or [Profile 2]. The set assist profile name is also displayed.
After exiting the application, assist is performed with the profile selected here.

(2) Select the mode.

(3) Select the various setting values.

The range that can be selected differs for each setting value.

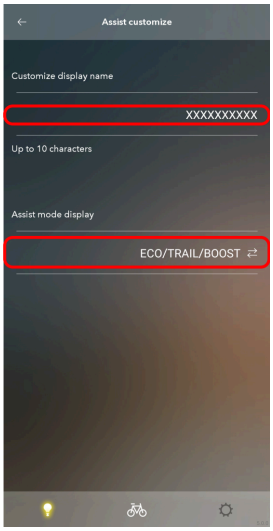


NOTICE

- The white circle on the slider indicates the initial value.
- The setting values of other modes are displayed on the top of the scale ([ECO] in light blue, [TRAIL] / [NORMAL] in green, and [BOOST] / [HIGH] in yellow).
- Tap ··· to display the profile settings screen.

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

(2) Assist mode
Switches between ECO/TRAIL/BOOST and ECO/NORMAL/HIGH.



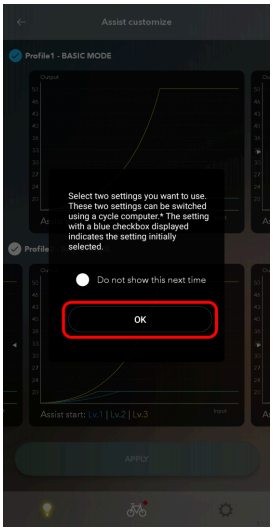
3. **Tap [APPLY].**
   The settings are applied to the unit.

Selecting/creating an assist profile for the DU-EP801/DU-EP600

1. **Tap the function to configure on the Customize Top screen.**
   The dialog box is displayed.



2. **Confirm the displayed information, and tap [OK].**



NOTICE

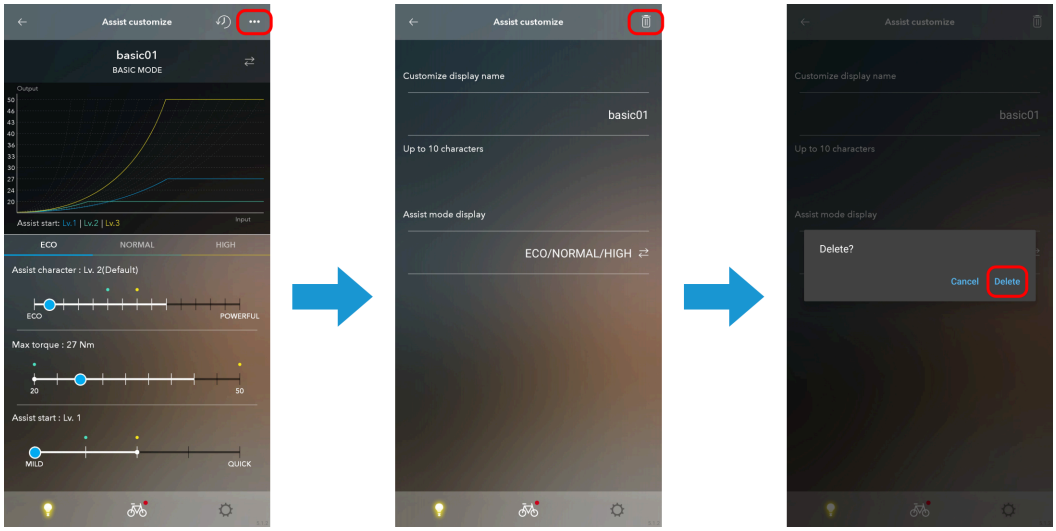
- Select [Do not show this next time] to hide the dialog box from the next time.

3. **Tap the ⊕ area to create a new assist profile.**
   Swipe the screen to display a screen with ⊕ . To edit an existing assist profile, tap the assist profile and proceed to step 5 .



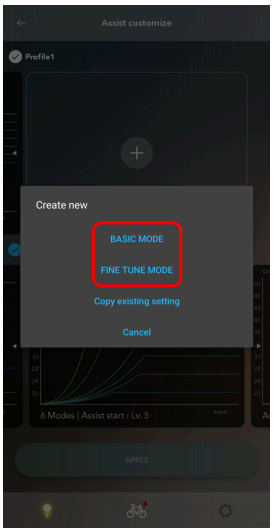
NOTICE

- You can create up to 10 assist profiles. If 10 assist profiles already exist, delete an assist profile before creating a new assist profile.
  You can tap ··· on the assist profile edit screen and tap the recycle bin icon to delete an assist profile.



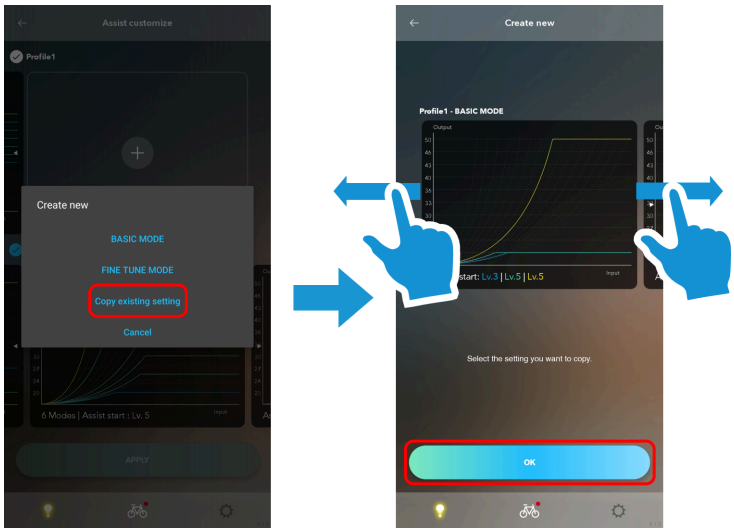
4. Select [BASIC MODE] or [FINE TUNE MODE].

The assist profile edit screen is displayed.



NOTICE

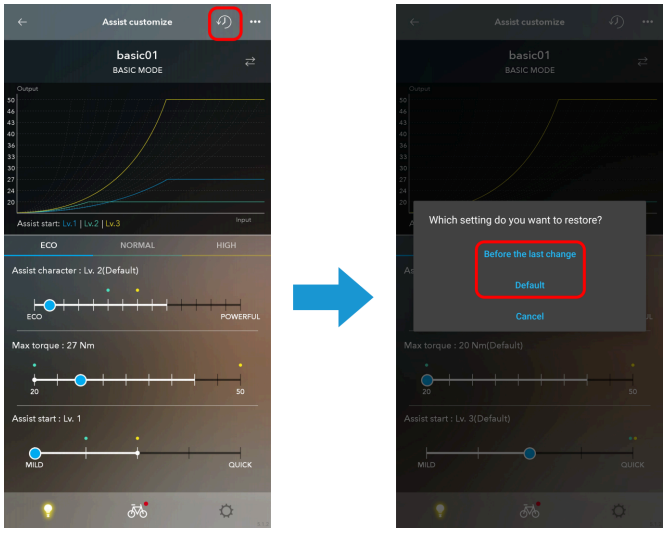
- To create a new assist profile based on an existing assist profile, tap [Copy existing setting].



5. Configure the various settings.

NOTICE

- You can tap on the assist profile edit screen to revert the changes and restore the initial values.

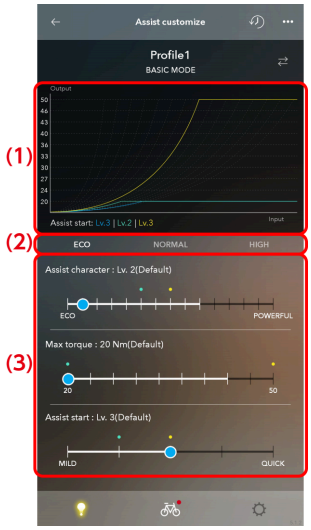


BASIC MODE

(1) Mode graphs are displayed.

(2) Tap a tab to select the mode.

(3) Select the various setting values.
The range that can be selected differs for each setting value.

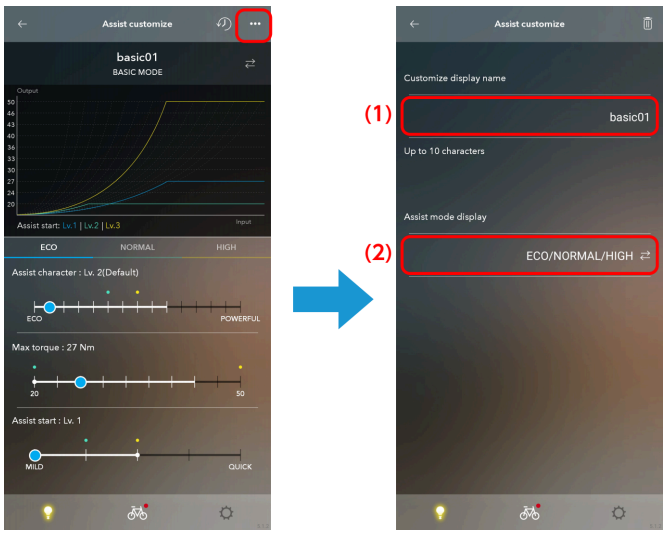


NOTICE

- The white circle on the slider indicates the initial value.
- The setting values of other modes are displayed on the top of the scale ([ECO] in light blue, [TRAIL] / [NORMAL] in green, and [BOOST] / [HIGH] in yellow).
- Tap ··· to display the profile setting screen.

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

  (2) Switch the assist mode (ECO/TRAIL/BOOST ↔ ECO/NORMAL/HIGH).

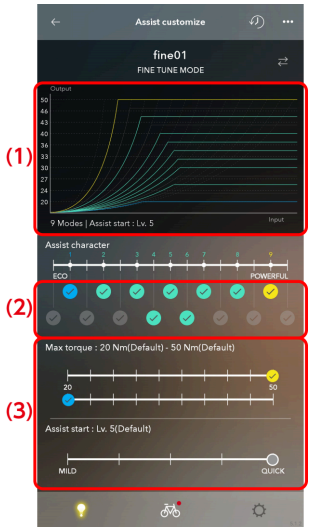


FINE TUNE MODE

(1) Mode graphs are displayed.

(2) Tap [✓] and select the level of assist characteristics to enable.
You can set a maximum of 15 levels of assist characteristics.

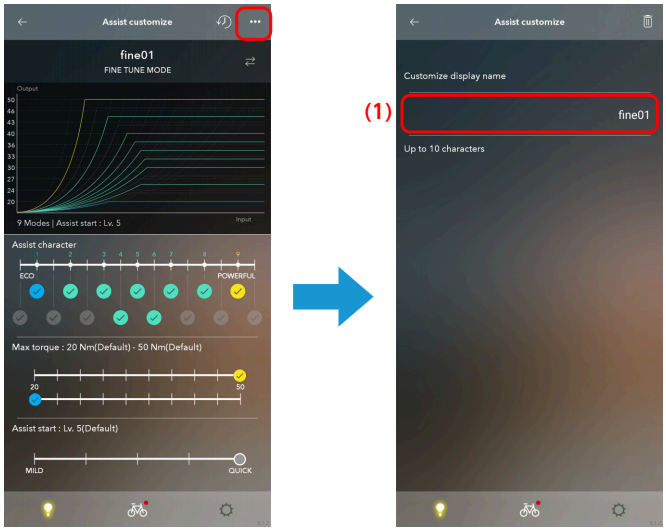
(3) Select the various setting values.



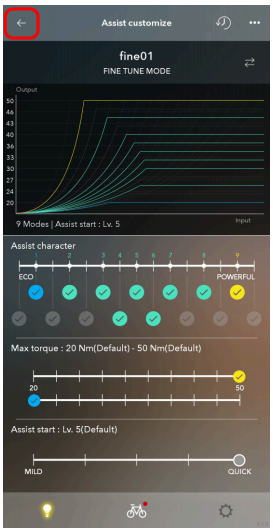
NOTICE

- The white circle on the slider indicates the initial value.
- Tap ••• to display the profile setting screen.

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



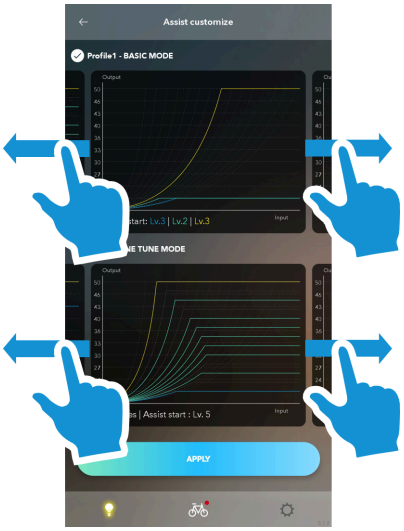
6. **Tap ← .**



7. **Swipe the screen to select two assist profiles.**

   The two assist profiles displayed on the screen are the assist profiles just selected.

   The two selected assist profiles can be switched with a cycle computer.



8. **Select the check box to set the assist profile after the application is disconnected.**
   The mode with the blue check box selected will be the assist profile after the application is disconnected.

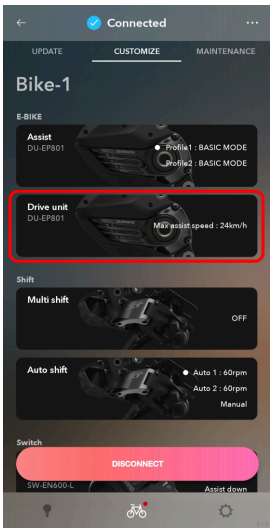


9. **Tap [APPLY].**
   The settings are applied to the unit.

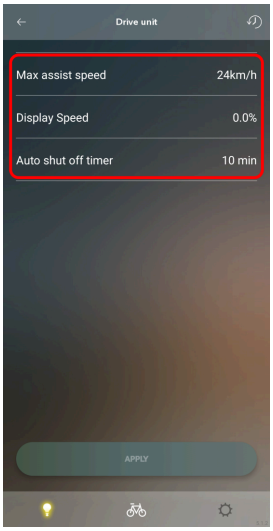
Drive unit settings

You can configure the settings related to the drive unit.

1. **Tap the unit to configure on the Customize Top screen.**



2. Configure the various settings.



Maximum assist speed

Select the maximum assist speed.

NOTICE

- The maximum speed where the assist power is provided is set by the manufacturer.

Display Speed

If the display is off from what is shown on another speed display, the speed display value can be adjusted.

Auto shut off timer

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

NOTICE

- If the bicycle has a Giant battery, the power turns OFF at the time set in the Giant system instead of the time set in [Auto shut off timer].

3. **Tap [APPLY].**
   The settings are applied to the unit.

> **NOTICE**
>
> - The light ON/OFF setting and light/accessory terminal output settings can be configured using the dealer software (E-TUBE PROJECT Professional). Contact the place of purchase.

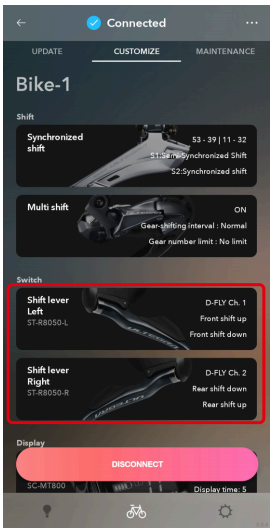
Switch

Configure the settings related to the connected switch.

Function assignment

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

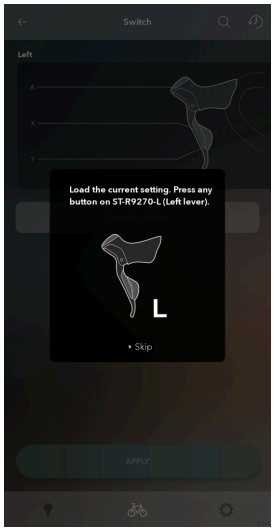
1. **Tap the function to configure on the Customize Top screen.**



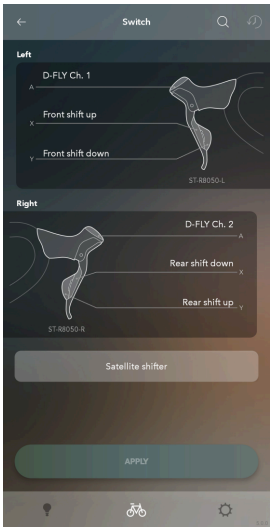
Both the left and right switches are selected.

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 tapped [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.



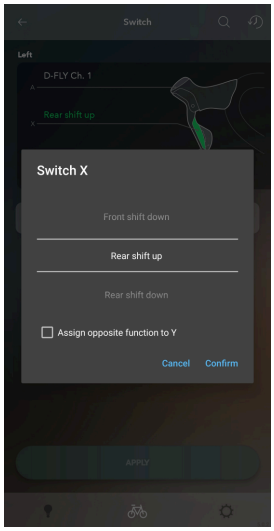
■ Functions displayed in the pull-down menu

Only available functions are displayed on the menu.

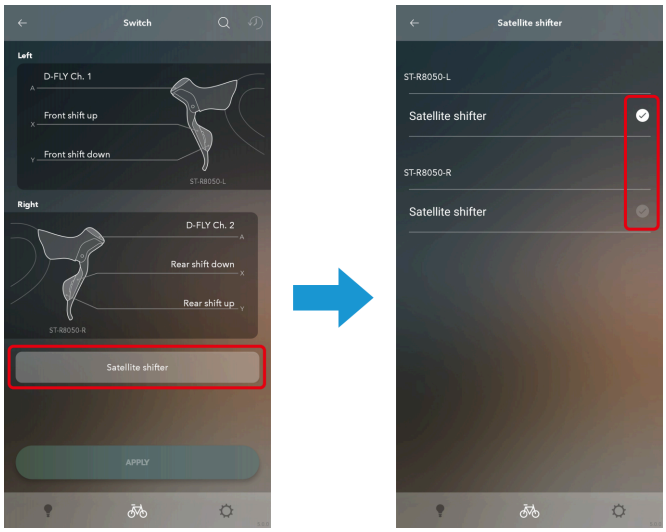
Function	Explanation
[Rear shift up] [Front shift up]	The gears shift from a light gear to a heavy gear.
[Rear shift down] [Front shift down]	The gears shift from a heavy gear to a light gear.
[D-FLY Ch. 1]	Assign Ch. 1.
[D-FLY Ch. 2]	Assign Ch. 2.
[D-FLY Ch. 3]	Assign Ch. 3.
[D-FLY Ch. 4]	Assign Ch. 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.
[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

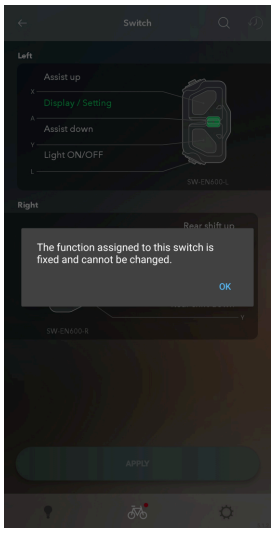
- The item being set and the switch part in the illustration are displayed in green.



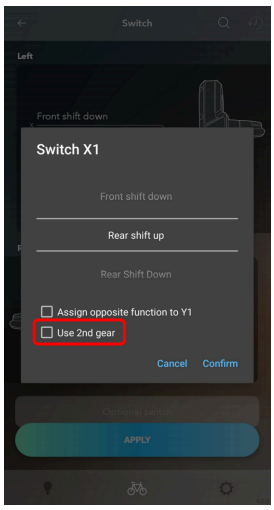
- When using a satellite shifter, you can assign functions by selecting them on the screen displayed by tapping [Satellite shifter].



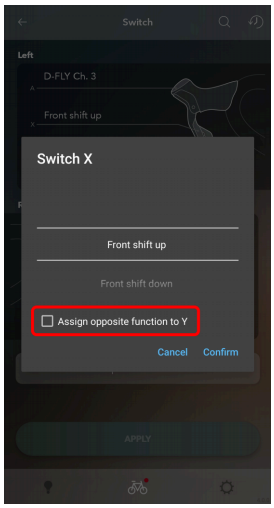
- If you tap a switch that you cannot change the assigned function for, a dialog indicating so is displayed.



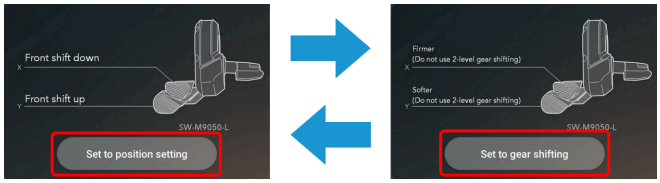
- When using a switch supporting 2-level gear shifting, you can select [Use 2nd gear] in the pull-down menu to select whether to use the second gear.



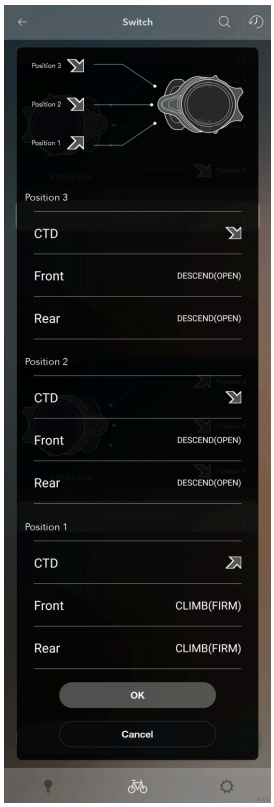
- When the opposite settings are available, you can select [Assign opposite function to XX] in the pull-down menu to assign the opposite functions on the other switch.



- For switches with a suspension setting (SW-M8050-L/SW-M9050-L), you can tap [Set to position setting] and select [Firmer] or [Softer] from the pull-down menu. To restore the gear setting, tap [Set to gear shifting].



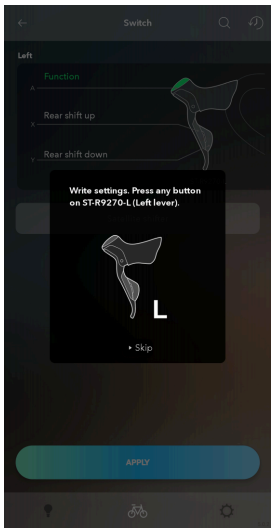
- For a suspension switch, set the arrow mark (CTD) displayed on the display and configure the front/rear setting ([CLIMB (FIRM)], [TRAIL (MEDIUM)], or [DESCEND (OPEN)]) for each switch position, and tap [OK]. The settings are applied to the unit.



3. **Tap [APPLY].**
   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 tapped [Skip], the setting changes are not applied to the unit.



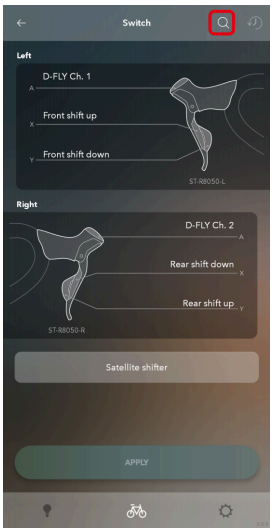
Checking via a search

You can check which switches are set.

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

2. **Tap the search button.**

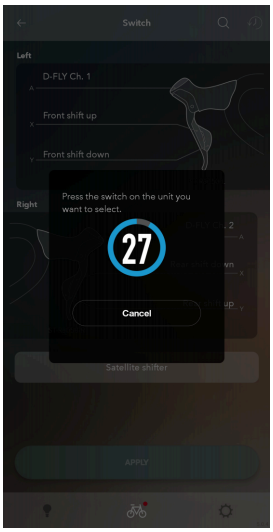
   The search dialog is displayed.



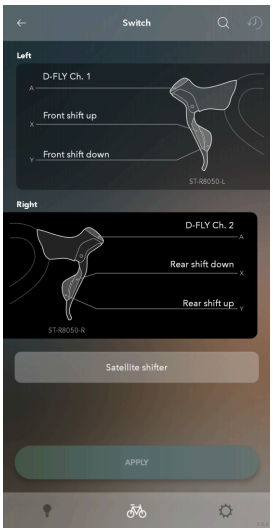
3. **Operate the switch of the unit to select until the countdown of the search dialog is over.**

   Press and hold the switch until the unit is recognized.

   Tap [Cancel] to cancel searching.



4. **The unit that you operated the switch for is highlighted.**



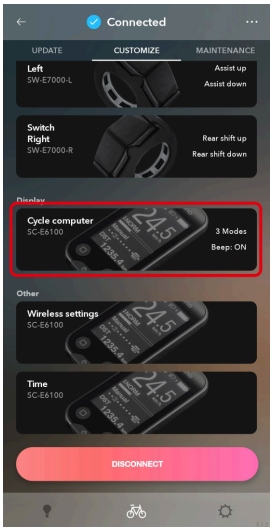
Display

Configure the display settings.

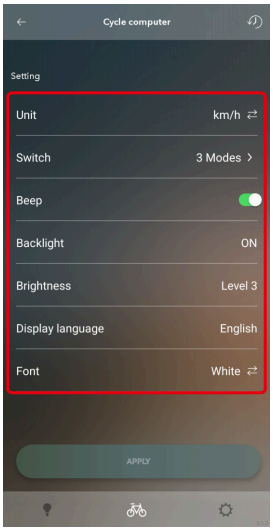
Display-related settings

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

1. **Tap the function to configure on the Customize Top screen.**



2. Configure the various settings.



Display units

You can select either [km/h] (international units) or [mph] (yard & pound method) as the display format.

Display switch

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

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

Beep setting

Select ON/OFF for the beep.

Backlight setting

Select [ON], [OFF], or [Manual] for the backlight.

Backlight brightness setting

Adjust the brightness of the backlight.

Font color

Set white or black as the font color.

Display language

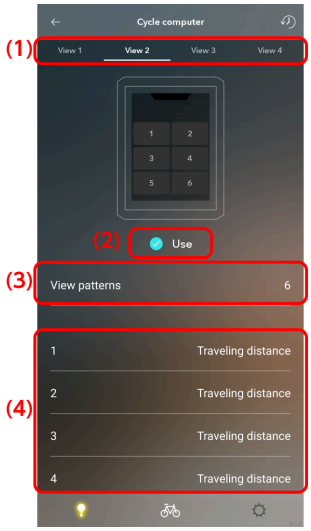
Select the display language.

Display time

Set the time until the display turns OFF when the display monitor is left unattended.

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.



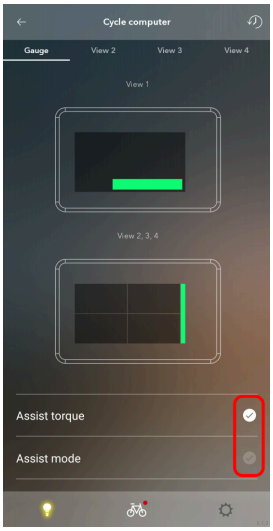
(1) Select the tab of the screen to set.

(2) Sets whether to display that screen on the cycle computer. You cannot hide screen 1.

(3) Select [Main], [4], or [6] as the screen pattern.
When [Main] is selected, two items of data can be displayed.

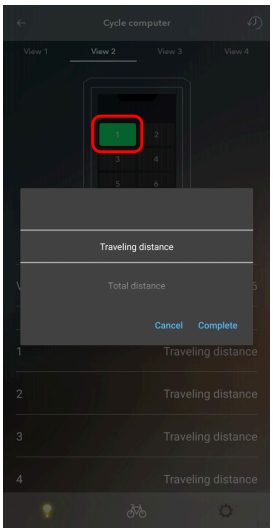
* The screen pattern cannot be changed for the SC-EN600. Screen 1 always displays no data and screens 2, 3, and 4 are always set to [4].

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



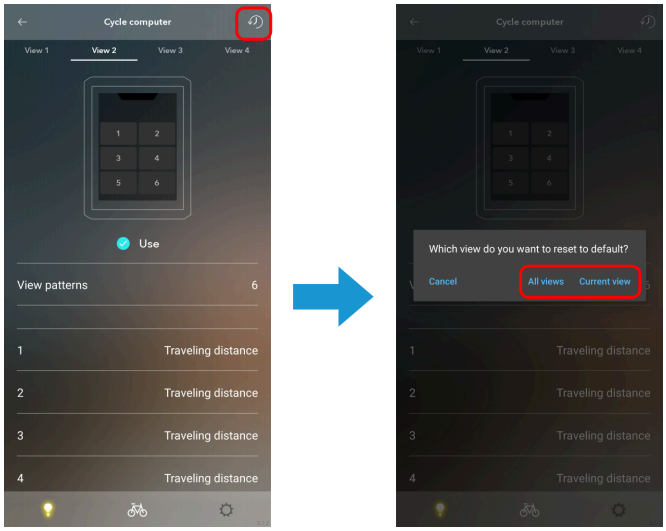
(4) Select which data to display.

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



NOTICE

- Tap on the view Customize screen to revert the changes and restore the screen settings to their initial values. You can also reset all screen settings to their initial values.



3. **Tap [APPLY].**
   The settings are applied to the unit.

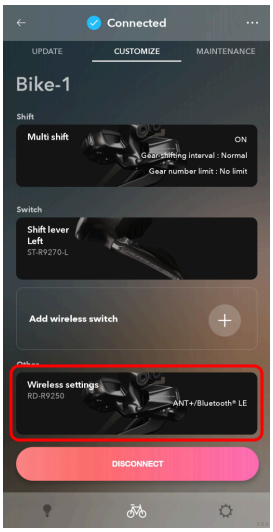
Other settings

Configure the other unit settings.

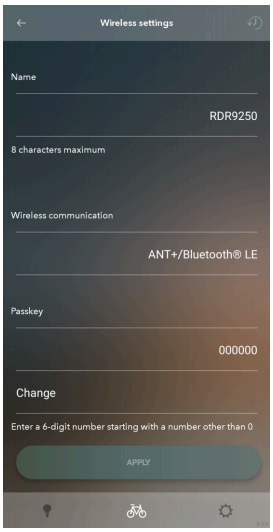
Wireless unit settings

You can configure settings related to the wireless unit.

1. **Tap the function to configure on the Customize Top screen.**



2. **Configure the various settings.**



Change name

You can change the registered name of the wireless unit.

Wireless communication method

Select [ANT+/Bluetooth ® LE], [ANT+], or [Bluetooth ® LE] as the wireless unit communication method. You can connect to E-TUBE PROJECT Cyclist regardless of the communication method that is selected. You can also select [OFF].

Change passkey

Change the passkey. Tap [Change] and enter a 6-digit number that starts with a number other than 0.

3. **Tap [APPLY].**
   The settings are applied to the unit.

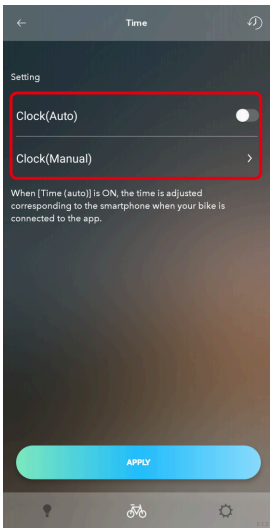
Settings related to the time

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

1. **Tap the function to configure on the Customize Top screen.**



2. Configure the various settings.

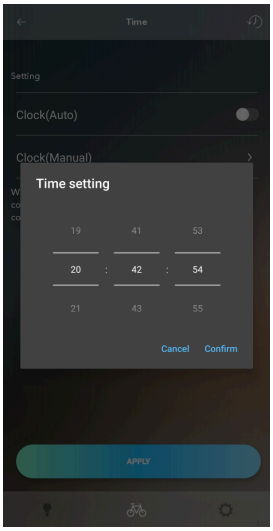


Automatic time setting

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 device when E-TUBE PROJECT Cyclist is connected.

Manual time setting

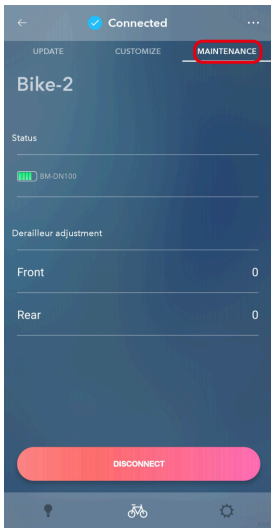
This can only be set when OFF is set for automatic time setting. Enter the hour, minute, and second.



Maintenance

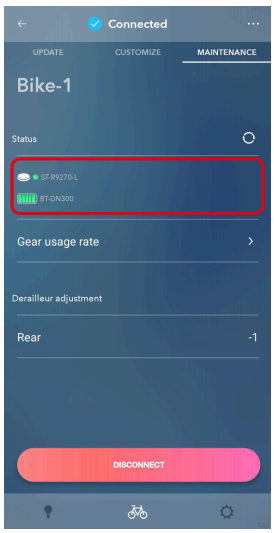
Maintenance

You can check the error log and adjust the shifting unit. Tap the [MAINTENANCE] tab to display the maintenance screen.



Status

Displays the battery level and battery name of the connected system. Displays the battery level and unit name of the shifter/switch connected wirelessly and paired (flashing red: battery level at 10% or less; green: sufficient battery level; -: battery level not retrieved).



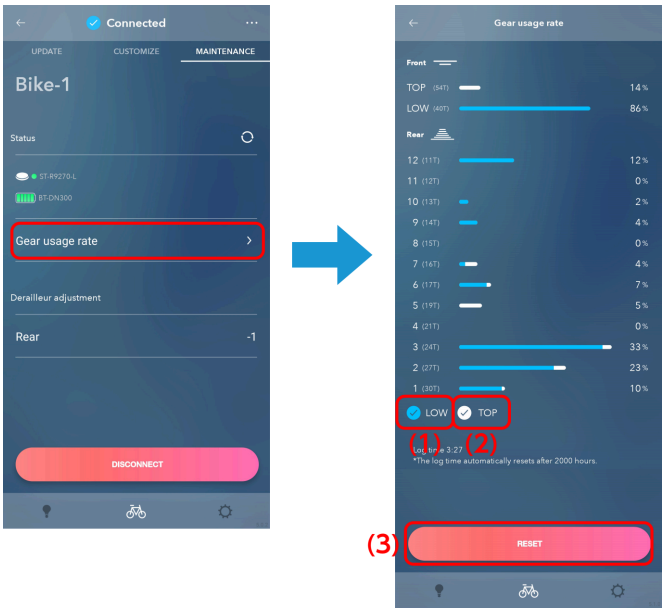
NOTICE

- Tap 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.

Gear usage rate

You can check the usage ratio for each gear position of the front derailleur.

1. Tap [Gear usage rate] on the maintenance screen.



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

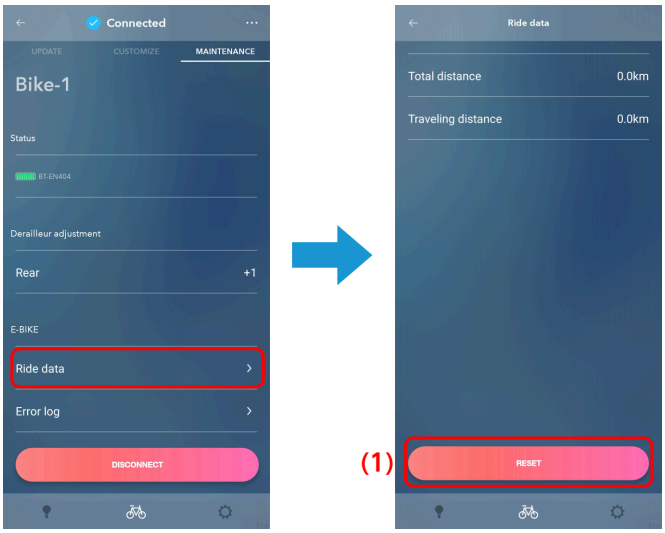
(2) Select this to display the usage ratio with the front derailleur on the top side as a white bar graph.

(3) Tap to reset the usage rate. This may not be displayed, depending on the state of the product firmware.

Ride data

Enables you to check the cumulative distance and traveling distance, and reset the traveling distance.

1. **Tap [Ride data] on the maintenance screen.**

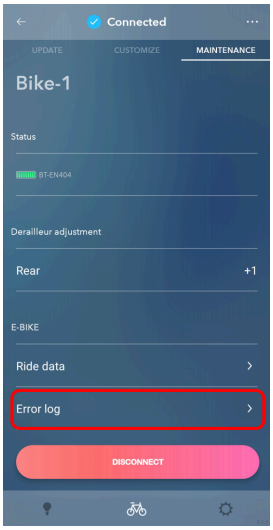


(1) Tap to reset the traveling distance.

Error log

You can check the error log related to E-BIKE. Depending on the drive unit, there may not be an error log option displayed on the maintenance screen, and you may be unable to check the error log.

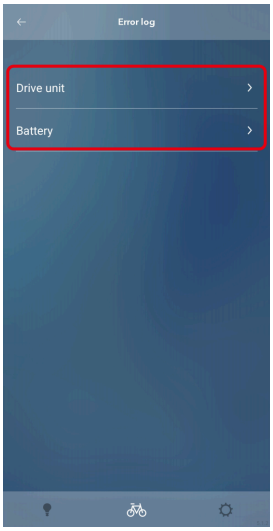
1. **Tap [Error log] on the maintenance screen.**
   The error log selection screen is displayed.



2. **Select the type of error log.**

   The error log screen is displayed.

   For information on the error codes, see https://si.shimano.com/error .



NOTICE

- The error log may not be able to be retrieved, depending on the version of the drive unit firmware.

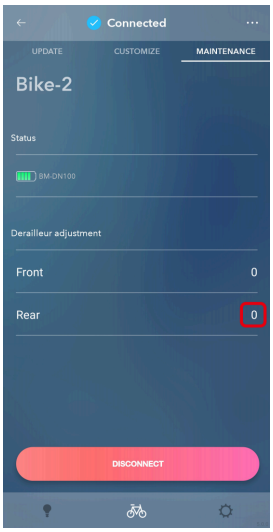
Adjustment of the shifting unit

You can adjust the shifting unit.

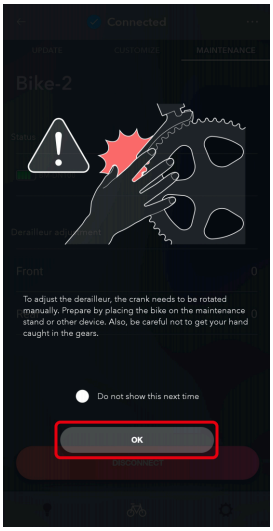
Adjusting the rear derailleur

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

1. **Tap the current rear setting area on the maintenance screen.**
   A cautionary dialog box is displayed.



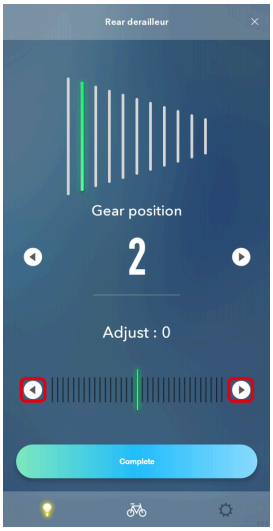
2. **Confirm the displayed information, and tap [OK].**



NOTICE

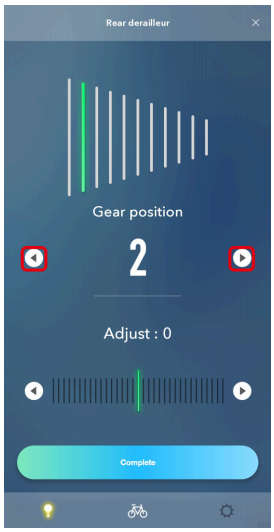
- If the battery charge is low, a confirmation screen is displayed and you cannot perform adjustment.
- Select [Do not show this next time] to hide the cautionary dialog box from the next startup.

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



NOTICE

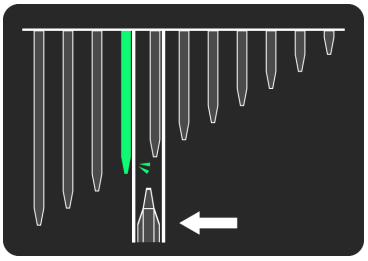
- Tap 💡 to check the details of the adjustment method.
  Refer to " Rear derailleur adjustment method " for details on the adjustment method.
- Tap ◀ / ▶ below to shift the gear. Tap ◀ to shift to a larger sprocket and tap ▶ to shift to a smaller sprocket.



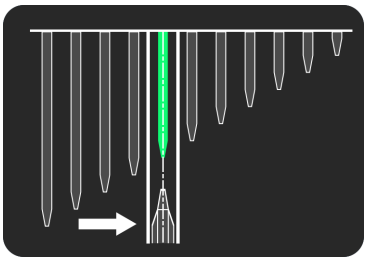
4. **Tap [Complete].**
   Adjustment is complete.

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.**



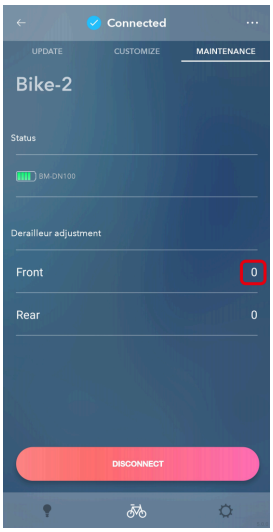
3. **Move the guide pulley toward the outside by 4 steps (5 steps for MTB and RD-R9250/RD-R8150) to the target position.**



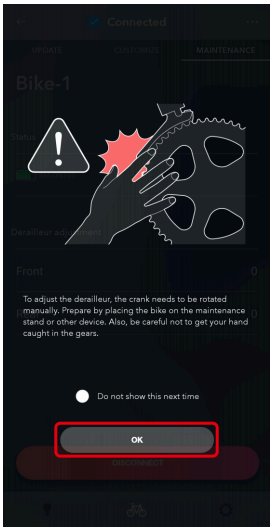
Adjusting the front derailleur

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

1. **Tap the current front setting area on the maintenance screen.**
   A cautionary dialog box is displayed.



2. **Confirm the displayed information, and tap [OK].**



NOTICE

- If the battery charge is low, a confirmation screen is displayed and you cannot perform adjustment.
- Select [Do not show this next time] to hide the cautionary dialog box from the next startup.

3. **You can adjust the high limit of the front derailleur.**

   Tap 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-R7150

   Refer to “ Using the adjustment screw of the front derailleur to perform initial adjustment (for FD-R7150) .”

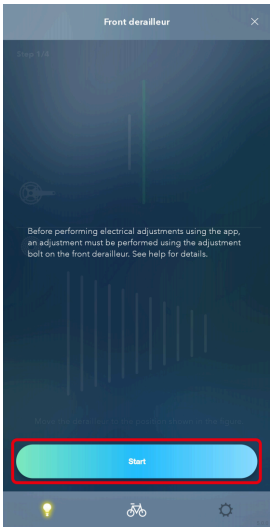
   For ROAD

   Refer to “ Using the limit screw of the front derailleur to perform initial adjustment (for ROAD) .”

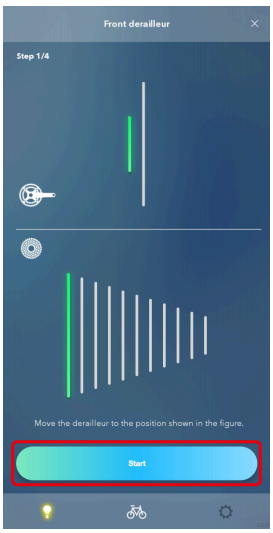
   For MTB

   Refer to “ Using the adjustment screw of the front derailleur to perform initial adjustment (for MTB) .”

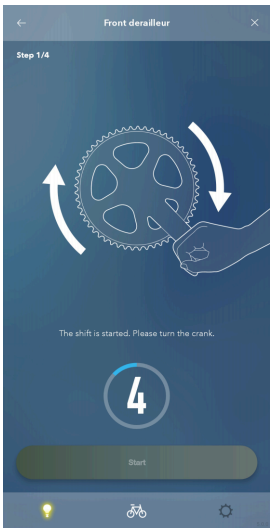
4. **Tap [Start].**



5. **Tap [Start].**

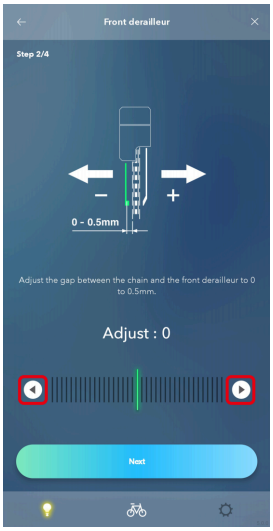


6. **Start rotating the crank arm until the countdown reaches zero.**



7. **Tap [Start].**

8. **Tap / to perform adjustment according to the guidance.**
   Tap to move the chain guide inside (in the minus direction).
   Tap to move the chain guide outside (in the plus direction).



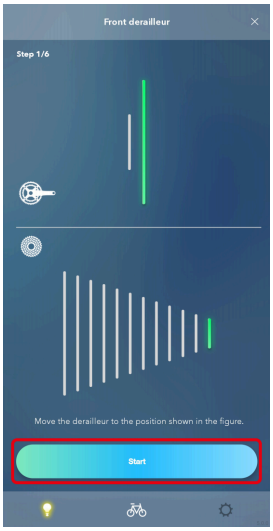
9. **Tap [Next].**

   If any unadjusted gears remain, perform steps 5 to 8 .

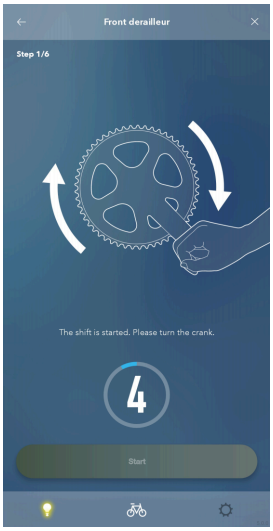
   Tap [Complete] when adjustment is complete for all the gears.

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

1. **Tap [Start].**



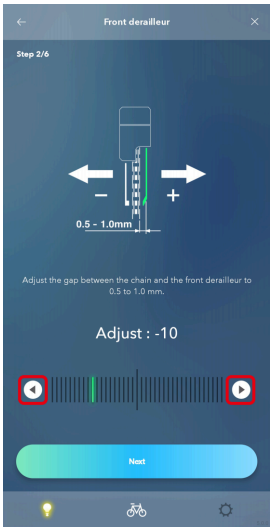
2. **Start rotating the crank arm until the countdown reaches zero.**



3. **Tap [Start].**

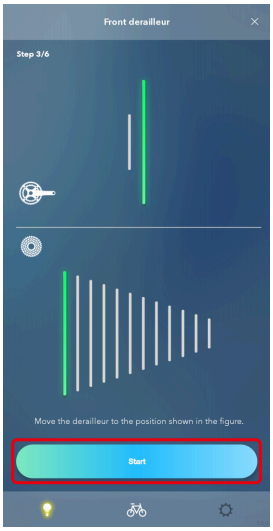
   Adjustment for the rear top position starts.

4. **Tap ◀ / ▶ to perform adjustment according to the guidance.**
   Tap ◀ to move the chain guide inside (in the minus direction).
   Tap ▶ to move the chain guide outside (in the plus direction).

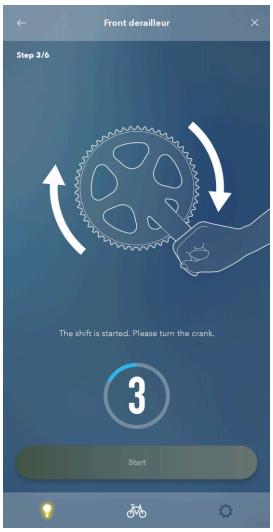


5. **Tap [Next].**

6. **Tap [Start].**



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



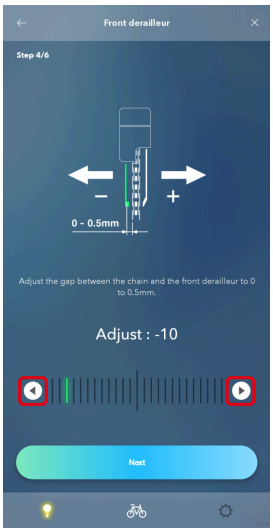
8. **Tap [Start].**

   Adjustment for the rear low position starts.

9. **Tap / to perform adjustment according to the guidance.**

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

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

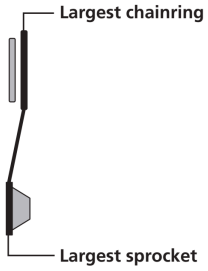


10. Tap [Next].

Adjustment for the low side of the front derailleur starts. Proceed to step 5 of " Adjusting the front derailleur ".

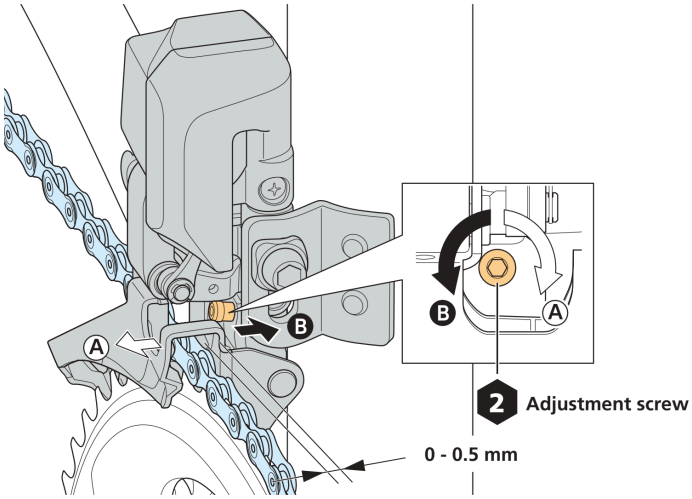
Using the adjustment screw of the front derailleur to perform initial adjustment (for FD-R7150)

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



2. Adjust the gap between the chain and inner plate.

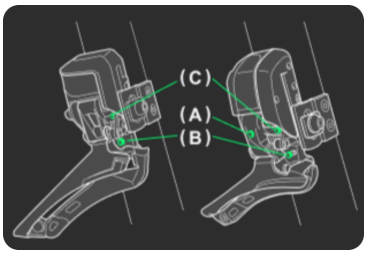
Adjust the clearance to 0 - 0.5 mm.



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

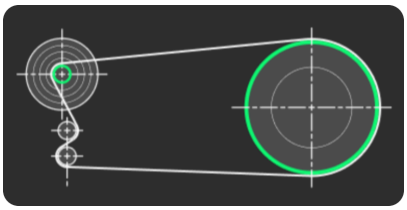
The FD-R9250 / FD-R8150 does not have a limit screw. Initial adjustment using the limit screw is not required.

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

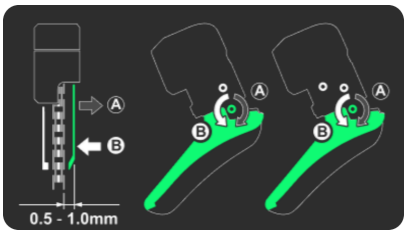


How to perform a high limit

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

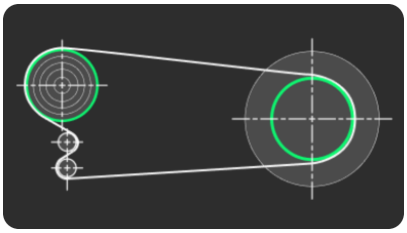


2. **Rotate the high limit screw with a 2 mm hexagon wrench. Adjust the gap between the chain and the chain guide outer plate to 0.5 to 1 mm.**

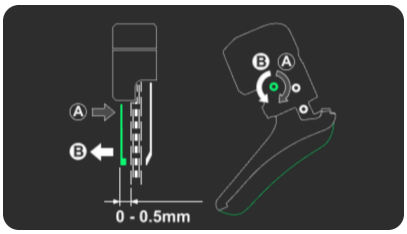


How to perform a low limit (FD-6080 / FD-9070 only)

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

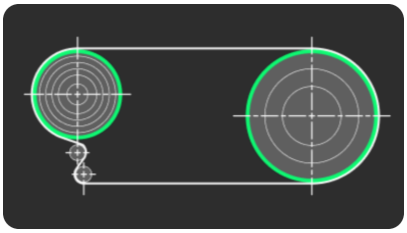


2. **Rotate the low limit screw with a 2 mm hexagon wrench.**
   Adjust the gap between the chain and the chain guide outer plate to 0 to 0.5 mm.

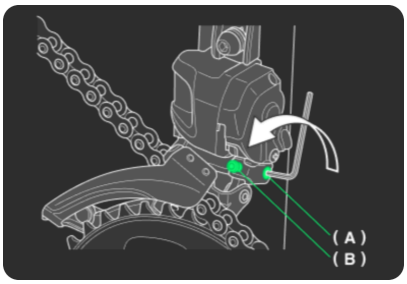


Using the adjustment screw of the front derailleur to perform initial adjustment (for MTB)

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

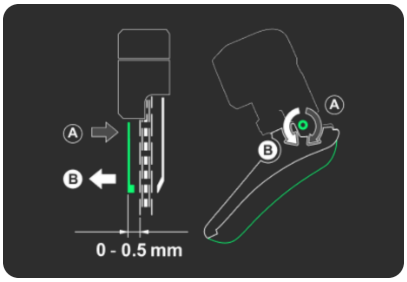


2. **Loosen the stroke fixing screw with a 2 mm hexagon wrench.**

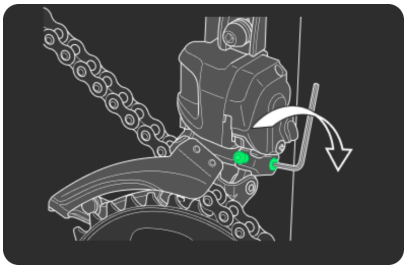


(A) Stroke fixing screw
(B) High limit screw

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.**



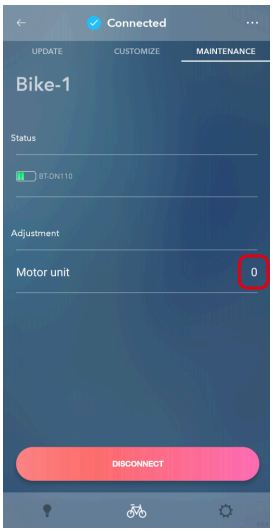
4. **After adjustment, securely tighten the stroke fixing screw.**



Motor unit adjustment

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

1. Tap the current motor unit setting area on the maintenance screen.



NOTICE

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

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.



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.

NOTICE

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



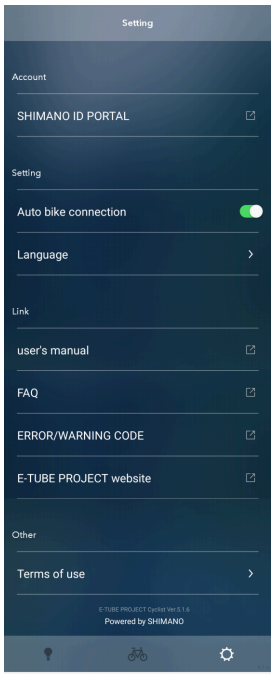
4. **Tap [Complete].**

   Adjustment is complete.

Setting

Setting

The function for configuring the various settings related to E-TUBE PROJECT Cyclist. Tap ☼ to display the setting top screen.



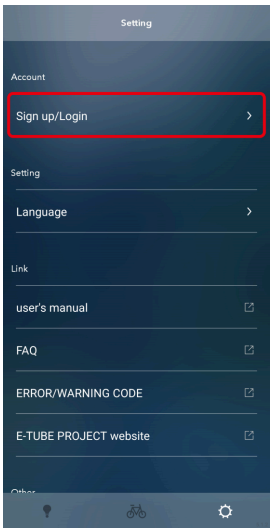
NOTICE

- Tap a link on the bottom to display the corresponding website.
- When using the Android version, you can tap [Powered by SHIMANO] to check the license view screen.

Logging in to SHIMANO ID PORTAL

You can log in to SHIMANO ID PORTAL. This function cannot be used in regions that do not support SHIMANO IDs.

1. **Tap [Sign up/Login] on the setting menu screen.**
   The SHIMANO ID PORTAL screen is displayed.



2. **Log in or register as a new user.**
   Follow the instructions on the SHIMANO ID PORTAL screen.
   When login is complete, the application returns to the setting top screen.
   The function that allows you to log in using your Twitter account will no longer be available after July 31, 2023. Click here for details.

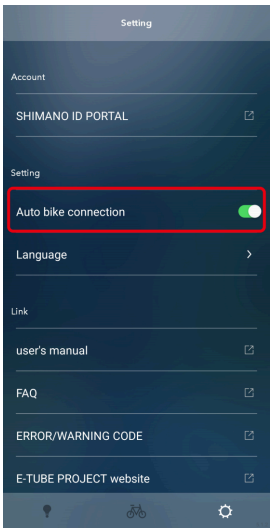
NOTICE

- When logging in to SHIMANO ID PORTAL, you can tap [SHIMANO ID PORTAL] on the setting menu screen to display the SHIMANO ID PORTAL website.

Auto bike connection setting

You can set whether to automatically connect with the bicycle when the application starts.

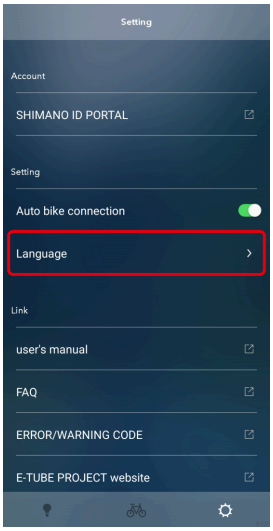
1. **Tap [Auto bike connection] on the setting top screen.**
   It switches between ON and OFF.



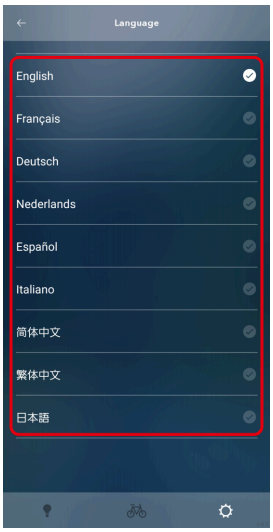
Language setting

Sets the screen display language.

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



2. **Select the language.**

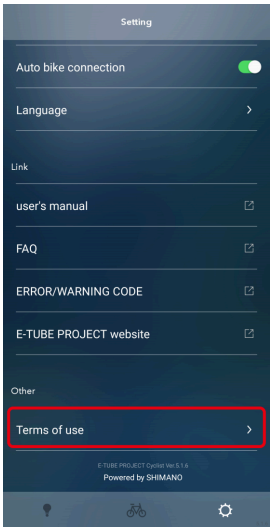


3. **Tap [Change].**
   The display language setting is changed. The language is switched the next time you start the application after exiting the application.

Checking the terms of use

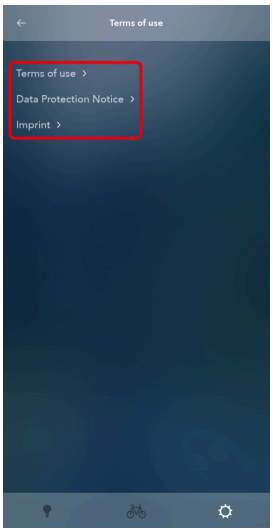
You can check the terms of use for E-TUBE PROJECT Cyclist.

1. **Click [Terms of use] on the settings top screen.**



2. **Tap the content you want to display.**

   A website containing that content will be displayed.



Error/warning code

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



https://si.shimano.com/error

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