



UNLOCKER

Unleash the power of your Shimano STEPS motor



This instruction manual explains all of the features and operation of the **STEPS UNLOCKER v1.5.x** mobile app (applicable for both iOS and Android versions). Please read through this manual completely in order to fully understand the apps functions and capabilities.

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I. READ THIS FIRST! (WARNING BEFORE USAGE)



**ANY ELECTRIC BIKE MODIFICATION AND/OR TUNING
IS DONE AT YOUR OWN RISK!**

THE USAGE OF **STEPS UNLOCKER** MAY VOID THE MANUFACTURER'S WARRANTY OF YOUR ELECTRIC BIKE AND/OR CAUSE IREVERSIBLE DAMAGE TO YOUR E-BIKE, DRIVE UNIT (MOTOR), BATTERY, AND RELATED COMPONENTS.

NO LIABILITY IS ASSUMED FOR ANY PAST, PRESENT, OR FUTURE DAMAGES TO EQUIPMENT, OBJECTS AND/OR PERSONS CAUSED BY THE USAGE AND/OR MODIFICATIONS MADE USING THE **STEPS UNLOCKER** APP.

ANY ELECTRIC BIKES MODIFIED USING THE **STEPS UNLOCKER** APP MAY ONLY BE LEGALLY USED ON PRIVATE, ENCLOSED AREAS OR DESIGNATED ROUTES. BE AWARE OF YOUR LOCAL LAWS. MODIFIED ELECTRIC BICYCLES ARE NOT ALLOWED ON PUBLIC ROADS AND ANY OTHER AREAS WHERE TRAFFIC LAWS APPLY.

ALWAYS FOLLOW THE LEGAL REGULATIONS IN YOUR AREA. YOU ARE RESPONSIBLE FOR HOW, WHEN, AND WHERE YOU USE YOUR E-BIKE.

RIDE SAFELY, AND ALWAYS USE A CERTIFIED BICYCLE HELMET.

II. DRIVE UNIT / MOBILE DEVICE COMPATIBILITY

A. DRIVE UNIT AND FIRMWARE VERSIONS

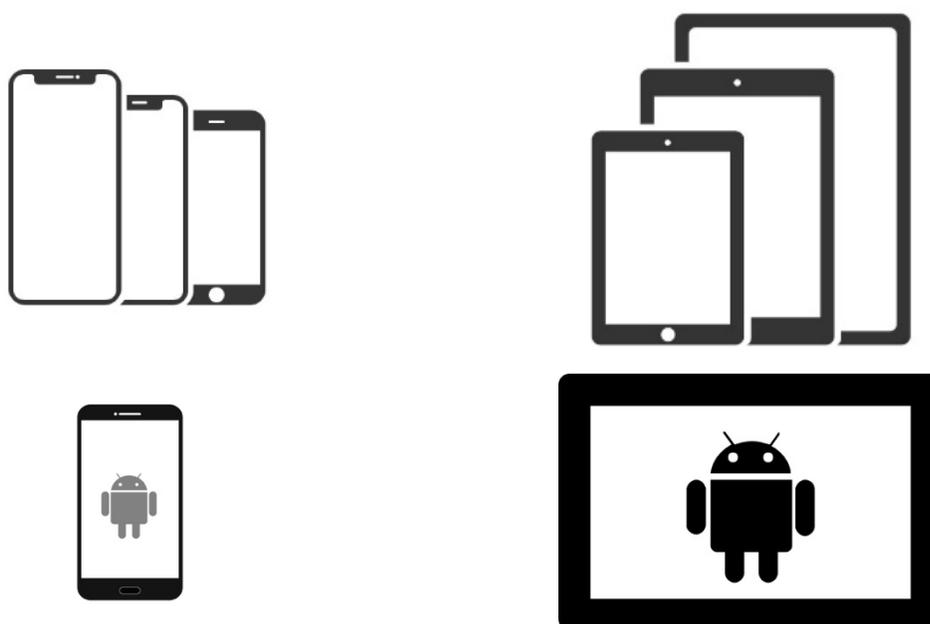
The following shows the adjustments available through the **STEPS UNLOCKER** app based on your drive unit (motor) and maximum firmware version:

	SHIMANO DRIVE UNIT TYPE		
	DU-E6100	DU-E7000	DU-E8000
Standard App Features			
Assist Level	4.4.0	4.4.0	4.7.1
Torque Level	4.4.0	4.4.0	4.7.1
Power Output	4.4.0	4.4.0	4.7.1
Licensed App Added Features			
Market Setting	4.4.0	4.4.0	4.7.1
Wheel Size	4.4.0	4.4.0	4.7.1
Speed Derestriction*	N/A	N/A	4.3.2 w/SC-E8000

*For Speed Derestriction, the **STEPS UNLOCKER** can be used to downgrade E-8000 firmware using a certain method – please see the **XVIII. HOW-TO DOWNGRADE E-8000 FIRMWARE** section for more info.

B. MOBILE DEVICE COMPATIBILITY (TUNING INTERFACE)

The **STEPS UNLOCKER** app is compatible with **Apple iOS/iPadOS** devices with Bluetooth and **iOS version 12.1 or newer** installed, as well as most **Android** devices that have Bluetooth and **Android version 5.0 or newer** installed.

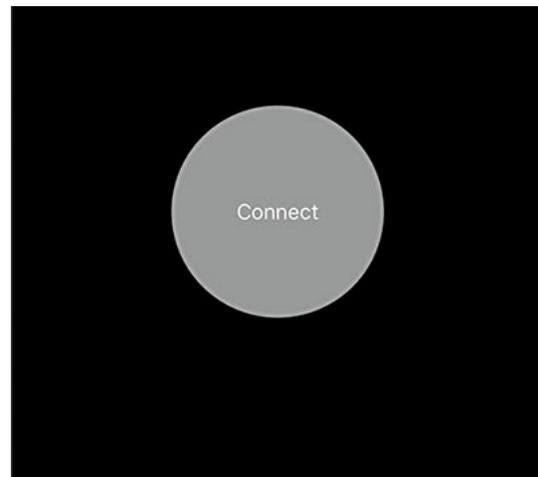


III. CONNECTING TO YOUR E-BIKE

STEP 1

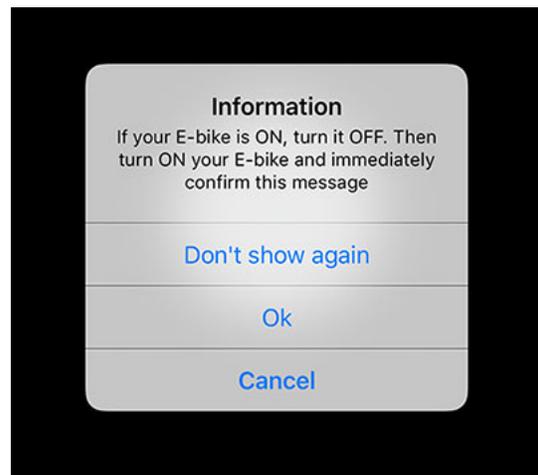
Make sure you have Bluetooth turned ON in your mobile device, then open the **STEPS UNLOCKER** app. Tap the [**CONNECT**] button to connect to your E-Bike.

(If you're having trouble connecting to your E-Bike, see the **XVII. FAQ / TROUBLE-SHOOTING** page for suggestions.)



STEP 2

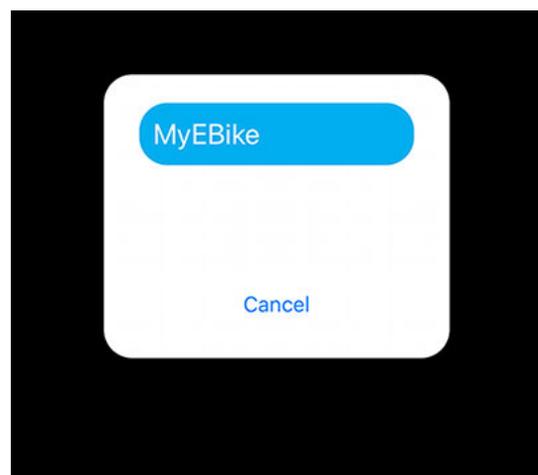
If this is the first time using the app, you will see the Information pop-up. Follow the instructions to initiate the connection. Tap [**OK**] or [**DON'T SHOW AGAIN**] to go back to the connect screen.



STEP 3

Tap [**CONNECT**] again and after a moment, the Bluetooth name of your E-Bike should show up in the **STEPS UNLOCKER** app. Tap on your E-Bike's name to connect.

At this point the **STEPS UNLOCKER** app will gather and collect your E-Bike's settings and information. Keep your mobile device awake and within range of your E-Bike and allow the app to finish collecting information.



IV. E-BIKE'S INFO

After the **STEPS UNLOCKER** app has successfully gathered your E-Bike's settings and information, you will be taken to the **E-BIKE'S INFO** screen. The top half of the screen will show your E-Bike specifications and the following information at a glance:

- **Motor Model**
Shows the type of motor and display unit equipped on your E-Bike
- **Firmware Version**
Shows the current firmware of your motor and display unit
- **Serial Number**
This is your E-Bike system serial number
- **Total Distance**
This is the total distance travelled by your E-Bike's motor (odometer)
- **Battery State**
This is the current charge level of your E-Bike's battery
- **Battery Health**
This shows your relative battery health and the total number of battery charge cycles
- **Gears (Type, Front/Rear)**
This shows specified rear mech type and highest mechanical gear ratio



E-Bike's Info	
Motor model	DU-E8000 / SC-E8000
Firmware ver	4.3.2 / 4.0.6
Serial	XXXXXXXXXXXX
Total distance	252.5 km
Battery state	100 %
Battery health	100 % (7 cycles)
Market	US (original US)
Circumference	2300 mm
Gears	
Type	Mechanical
Front / Rear (11th)	34T / 11T
Assist Settings	
Eco	100% 50Nm 500W
Trail	200% 60Nm 500W
Boost	300% 70Nm 500W
Walk	2W
Speed Settings	
Eco	32 km/h
Trail	40 km/h
Boost	48 km/h

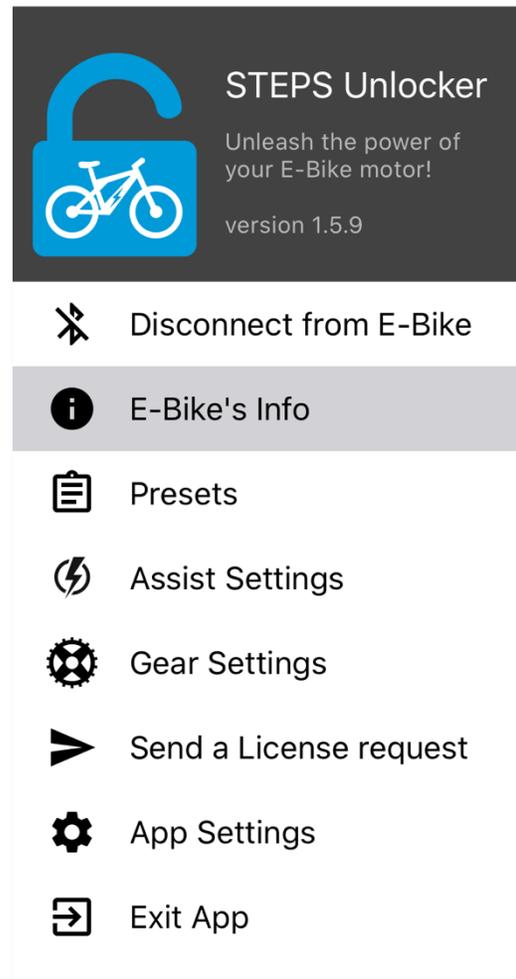
*Other settings shown (Market, Circumference, Assist, and Speed) will be covered in more detail later in this manual.

The bottom half of the info screen shows tuning settings. To start tuning your E-Bike, tap on the  menu icon at the top-left of the info screen to get to the **MAIN MENU**.

V. STANDARD FEATURES - MAIN MENU (Unlicensed Version)

If you have an unlicensed version, the **MAIN MENU** of the **STEPS UNLOCKER** app will have the standard options described below.

- **Disconnect from E-Bike**
Tap and confirm to close the Bluetooth connection between your Android device and E-Bike.
- **E-Bike's Info**
Takes you back to the E-Bike's Info screen so you can see your E-Bike's current configuration.
- **Presets (see section VI)**
Allows you to save the current settings or recall your custom setting presets.
- **Assist Settings (see section VIII)**
This is where you can adjust your motor's assist, torque, and maximum power settings.
- **Gears Settings (see section IX)**
This is where you can specify your rear mech type and highest gear ratio equipped on your E-Bike.
- **App Settings (see section X)**
Application-specific settings.
- **Send License Request (see section XI)**
Upgrading to the licensed version will unlock more tuning options for your E-Bike.
- **Exit App**
Tap and confirm to exit the **STEPS UNLOCKER** app.



VI. PRESETS – OVERVIEW

In this section you can create, save, and recall system presets for your E-Bike. To get started, the easiest way is to begin with the default (built-in) preset examples.

- **How-To Load Default Presets**

To load the built-in preset examples:

iOS: Tap on **Default** at the top right corner of the screen

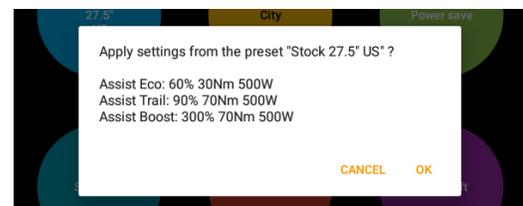
Android: Tap on the Presets sub-menu (the three dots on the upper-right corner of the screen)

- **Delete a Preset**

To delete a preset, tap and hold the preset, then tap **[DELETE]** in the window that pops up.

- **Apply a Preset**

To apply a preset (load the preset into your E-Bike), tap the desired preset. The app will show you the preset's assist settings and ask you to confirm – tap on **[OK]** to load the presets to your E-Bike.



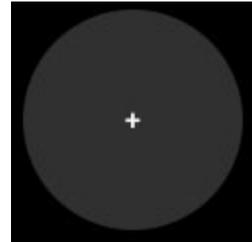
*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

VII. SAVE A CUSTOM PRESET

You can save your own customized presets into the app for later use. To save your custom presets, you must do the following steps:

STEP 1

Before saving a custom preset, first use the **STEPS UNLOCKER** app and adjust your **Assist Settings**, **Market Settings***, **Circumference Settings***, and **Speed Settings*** to your liking.

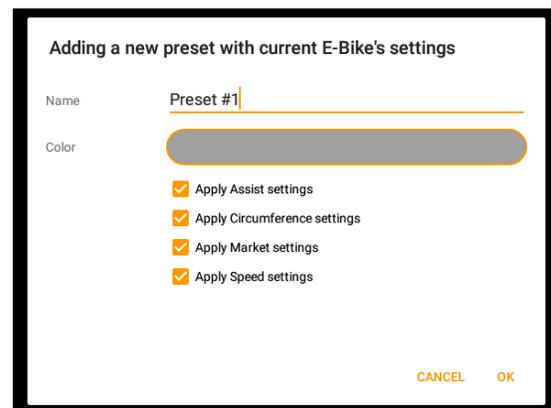


STEP 2

Go to the **PRESETS** screen and tap the empty circle with the **+** symbol.

STEP 3

A window will pop up allowing you to specify a name for your preset, and you can specify which settings to save in the preset. When you are happy with the preset, tap on **[OK]** to save your custom preset.



Adding a new preset with current E-Bike's settings

Name

Color

- Apply Assist settings
- Apply Circumference settings
- Apply Market settings
- Apply Speed settings

CANCEL OK

You should now be able to see your custom preset on the **PRESETS** screen.

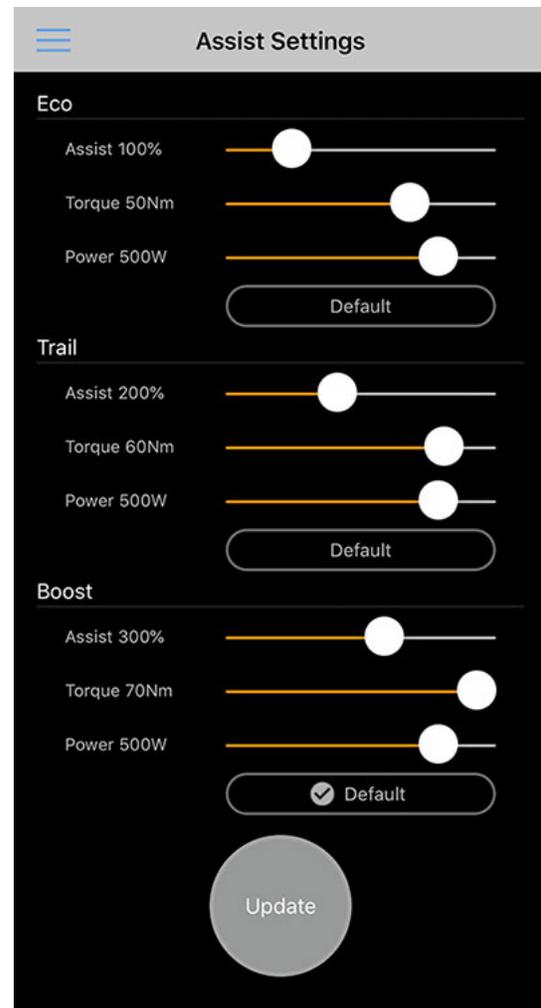
*Premium tuning options above are only available with the licensed version; to upgrade your license please go to the **SEND A LICENSE REQUEST** section for more information.

*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

VIII. ASSIST SETTINGS

This is where you can adjust your motor's assist, torque, and maximum power settings for each of the three drive modes (**ECO**, **TRAIL**, and **BOOST**).

- **Assist (by Percentage)**
This parameter adjusts how much additional assist your E-Bike motor will provide, relative to your pedaling input. For example, setting this to 60% means your E-Bike's motor will add an additional 60% of your input as electric assist (up to maximum torque setting, below).
- **Max Torque (in Nm)**
This parameter adjusts the maximum amount of torque your E-Bike will produce during electric assist, regardless of your pedaling input.
- **Power (Maximum, in Watts)***
This parameter limits the maximum amount of total power your E-Bike will produce during electric assist. A higher setting means more total power.



**The "Power" adjustment can be disabled in the "App Settings" page to prevent the user from forcing the E-Bike to exceed the system's safe rated output.*

Use the controls to modify each parameter for each drive mode, then when you're finished tap **[UPDATE]** to transfer the settings to your E-Bike.

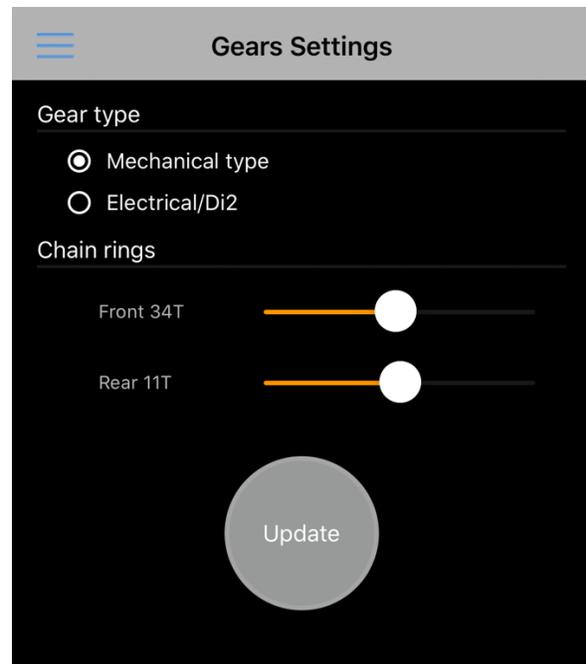
If you want to go back to factory settings, simply tap the **[DEFAULT]** button for each mode, then tap **[UPDATE]** to adjust your drive modes back to the OEM default parameters.

*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

IX. GEARS SETTINGS

This is where you can specify or adjust the gearing on your E-Bike to modify system calibration and accurate system readings.

- **Type**
Select **MECHANICAL** if you have regular mechanical rear derailleurs, or **ELECTRICAL/DI2** if you have the Shimano Di2 system on your E-Bike.
- **Chainrings - Front**
Set this parameter to the tooth size of your LARGEST front chainring.
- **Chainrings - Rear**
Set this parameter to the tooth size of your SMALLEST rear cassette cog.



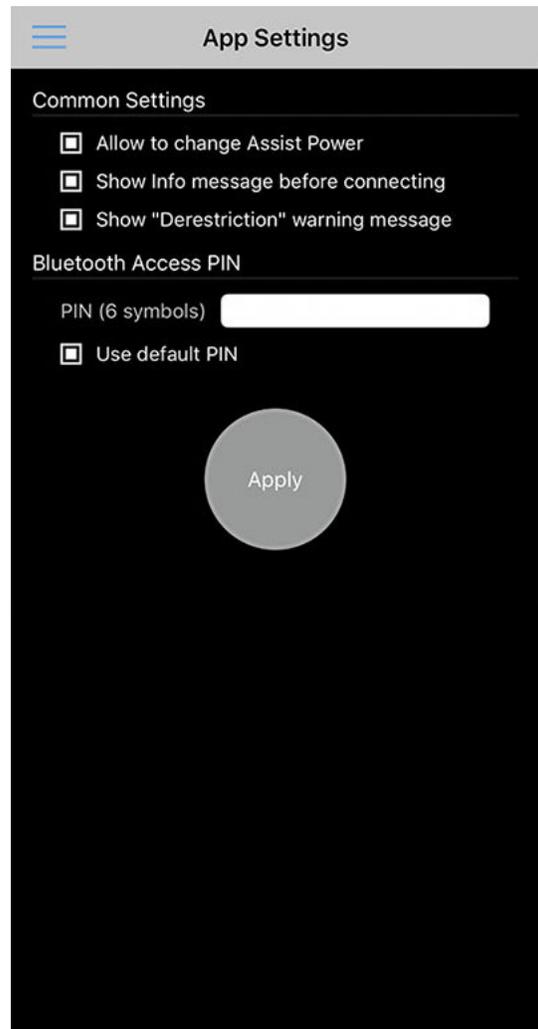
Use the arrows to modify each gear parameter, then when you're finished tap **[UPDATE]** to save the settings to your E-Bike.

*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

X. APP SETTINGS

Here you can adjust other miscellaneous application settings, as described below.

- **Allow to change Assist Power**
Enables or disables the “Power” adjustment slider on the **ASSIST SETTINGS** page.
- **Show Info message before connecting**
Enables or disables the “How to Connect” pop-up information message when you try to connect to your E-Bike
- **Show “Derestriction” warning message**
Enables or disables the derestriction warning window
- **Bluetooth Access PIN**
In the event that you are not using the Shimano STEPS default Bluetooth access PIN code (000000) to connect to your E-Bike, enter the PIN here.



If you make any changes above, don't forget to tap [**APPLY**] to save the changes.

*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

XI. SEND A LICENSE REQUEST

To unlock more tuning options for your E-Bike you can request a license. A licensed app will unlock premium tuning options listed below:

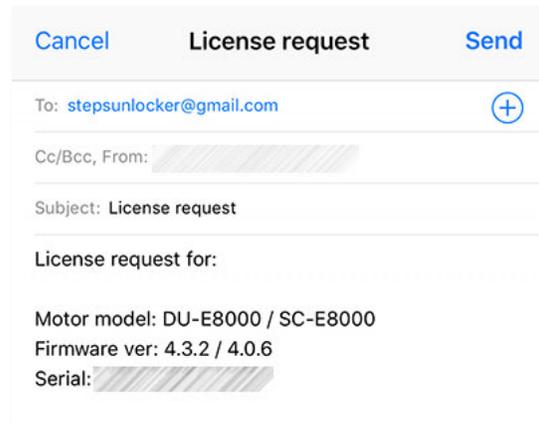
- **Market Settings**
Set the assist maximum speed limit cut-off based on the drive unit's market destination
- **Circumference**
Specify wheel circumference for speedometer calibration
- **Speed Derestriction**
Raise the assist speed limit cut-off point (a.k.a. "derestricting")
- **Black Box (Android only)**
Allows you to view internal recorded data



The availability and functionality of the premium tuning options above are dependent on the firmware installed in your motor; to see what firmware versions are compatible, please see the [DRIVE UNIT / MOBILE DEVICE COMPATIBILITY](#) section for more information.

HOW-TO: REQUEST A LICENSE

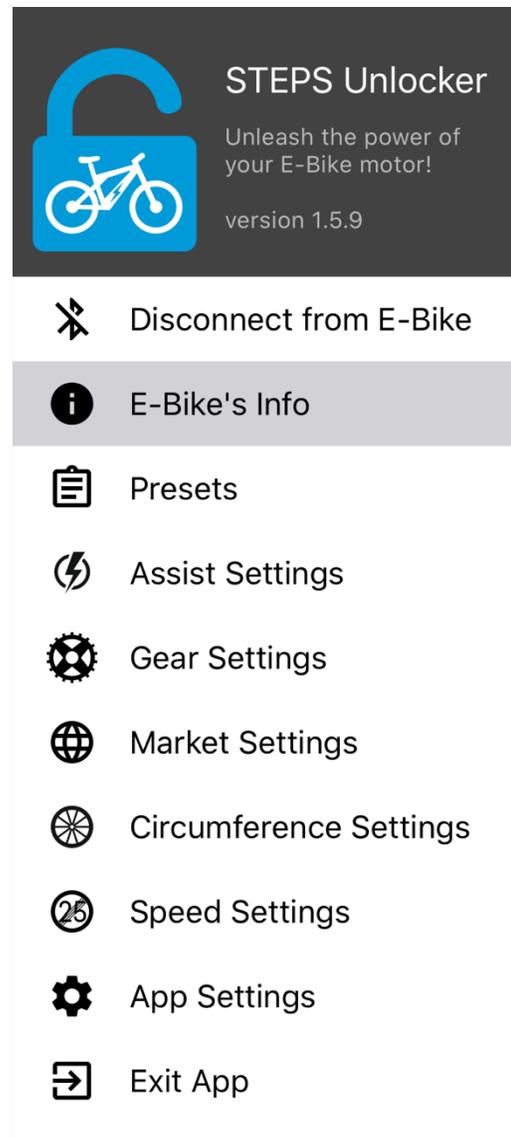
1. Go to the **Main Menu** and tap "Send A License Request."
2. Your mobile device will open the built-in Mail app and pre-fill your E-Bike information in the Message field.
3. Simply tap **Send** to send the email request. Shortly you should receive a reply with license cost and payment options.



XII. PREMIUM FEATURES: MAIN MENU (Licensed Version)

If you have upgraded to the licensed version, the **MAIN MENU** of the **STEPS UNLOCKER** app will have additional tuning options.

- **Market Settings*** (See section XIII)
Allows you to set the assist maximum speed limit cut-off based on the drive unit's market destination
- **Circumference*** (See section XIV)
Allows you to specify wheel circumference for accurate speedometer calibration
- **Speed Derestriction*** (See section XV)
Allows you to raise the motor assist speed limit cut-off point (also known as "derestricting")
- **Black Box** (See section XVI)
Allows you to view internal data recorded by the STEPS drive unit

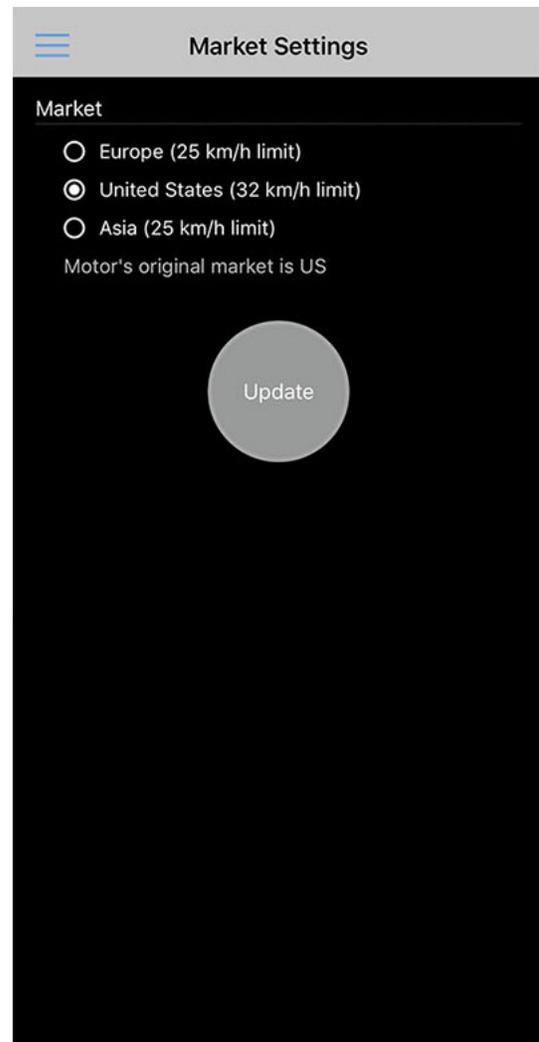


The availability and functionality of the premium tuning options above are dependent on the firmware installed in your motor; to see what firmware versions are compatible, please see the **DRIVE UNIT / MOBILE DEVICE COMPATIBILITY section for more information.*

XIII. PREMIUM FEATURE: MARKET SETTINGS

This is where you can select your motor's "market setting" to specify the maximum speed limit cut-off for your E-Bike's assist.

- **Europe (25 km/h limit)**
Select this to restrict your E-Bike assist to maximum 25 km/h (15.5 mph)
- **United States (32 km/h limit)**
Select this to restrict your E-Bike assist to maximum 32 km/h (19.9 mph)
- **Asia (25 km/h limit)**
Select this to restrict your E-Bike assist to maximum 25 km/h (15.5 mph)



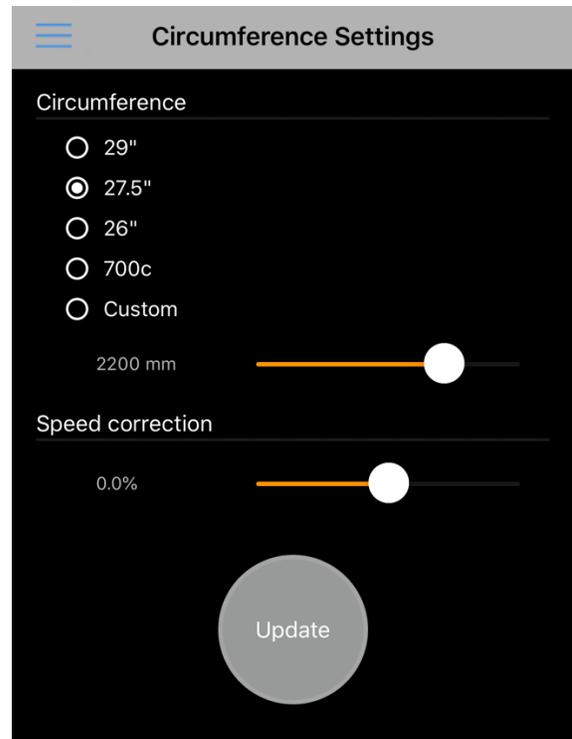
If you make any changes above, don't forget to tap [UPDATE] to save the changes.

*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

XIV. PREMIUM FEATURE: CIRCUMFERENCE SETTINGS

This is where you can select and/or calibrate your E-Bike's wheel size specification for accurate speedometer readings.

- **Circumference Presets**
Select 29", 27.5", or 26" to match the actual wheel size of your E-Bike
- **Circumference (Custom)**
If you select "Custom", use the slider to set your actual tire circumference as measured in millimeters
- **Speed Correction (Percentage)***
You can adjust this to calibrate the speed shown on your STEPS display unit; the percentage represents the system's speed/odometer internal multiplier from -5% to +5%.



***NOTE:** The Speed Correction setting is only available with **firmware 4.7.x (E-8000)** or **4.4.x (E-7000)** and up.

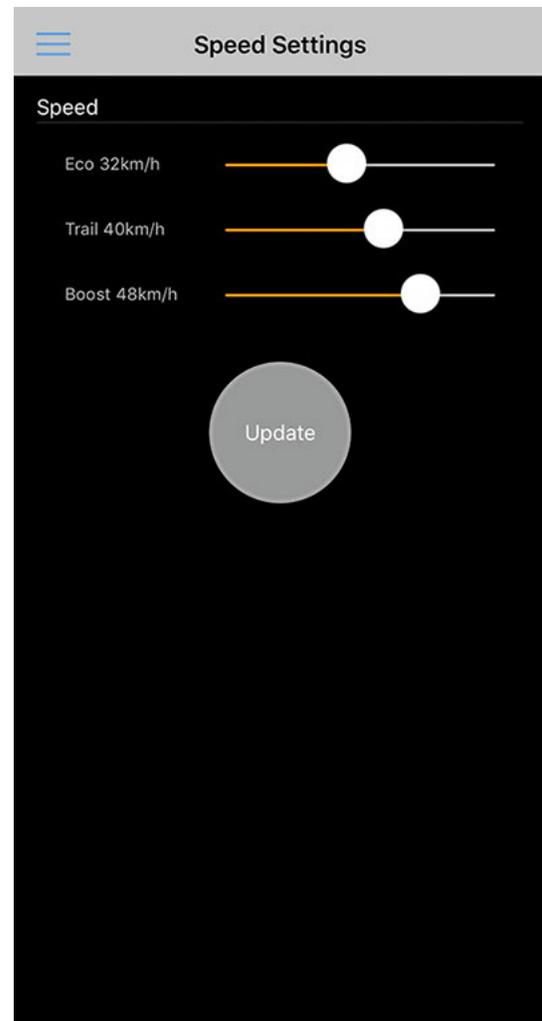
If you make any changes above, don't forget to tap **[UPDATE]** to save the changes.

*TIP: After you are done tuning and you've exited the **STEPS UNLOCKER** app, don't forget to power cycle (turn off, then on) your E-Bike before use.*

XV. PREMIUM FEATURE: SPEED SETTINGS

This is where you can raise or lower the motor assist speed limit cut-off point (also known as “derestricting”) for each of the three drive modes (ECO, TRAIL, and BOOST).

- **Speed Settings***
When you set a speed, your E-Bike’s motor will continue to provide assist until you reach this speed. Raising the speed means you’ll have more assist beyond the OEM speed limit.



***NOTE: This setting is only available for DU-E8000 with firmware 4.3.2 only.**

Use the sliders to modify each parameter for each drive mode, then when you’re finished tap [UPDATE] to transfer the settings to your E-Bike.

*TIP: After you are done tuning and you’ve exited the **STEPS UNLOCKER** app, don’t forget to power cycle (turn off, then on) your E-Bike before use.*

XVI. PREMIUM FEATURE: BLACK BOX DATA (Android Only)

This is where you can view internal data recorded by the STEPS drive unit, plus various other information. To load the data, you must first tap on **[READ]** to export the data from the STEPS system and into the **STEPS UNLOCKER** app.

- **Time of Use**
Time of usage since last reset
- **Distance**
Distanced travelled since last reset
- **Total Distance**
Total distance travelled by the system (odometer); **NOT RESETTABLE**
- **Avg. Speed**
Average speed since last reset
- **Max Speed**
Maximum speed reached by the system; **NOT RESETTABLE**.



XVII. FAQ / TROUBLESHOOTING

First time connecting to your E-Bike?

Before you attempt to use the **STEPS UNLOCKER** app, you must first establish a Bluetooth Low-Energy (BLE) paired connection between your mobile device and your E-Bike. To do this:

1. Go to the App Store on your iOS/iPadOS device and download the **Shimano E-TUBE** app (for Android, you can find the **Shimano E-TUBE** app from the Google Play Store).
2. Launch the **Shimano E-TUBE** app and follow the directions to pair the to your E-Bike.
3. Check that you can make adjustments to your E-Bike within the **Shimano E-TUBE** app.

Once you have successfully done the above steps, you do not have to do it again. You can close the **Shimano E-TUBE** app and begin using the **STEPS UNLOCKER** app.

I did the above, but I'm having trouble connecting STEPS UNLOCKER to my E-Bike?

If you can connect with the **Shimano E-TUBE** app (see above) but you're having trouble connecting with **STEPS UNLOCKER**, try the following, in order:

1. Turn your E-Bike off.
2. Completely close the **Shimano E-TUBE** app.
3. Completely close the **STEPS UNLOCKER** app.
4. Restart **STEPS UNLOCKER** app.
5. Turn your E-Bike on.
6. Tap "Connect" in the **STEPS UNLOCKER** app.

What is the default Bluetooth passkey for my E-Bike?

The default Bluetooth passkey for Shimano STEPS is "000000".

Can I downgrade the E-8000 firmware (for Speed Settings) using my Android device?

Yes, you can if you have the SC-E8000 display unit; see the **XVIII: APPENDIX: HOW-TO DOWNGRADE FIRMWARE** section of this instruction manual below for more information.

What happens to my STEPSUnlocker settings if I use the Shimano E-TUBE app?

If you connect to your E-Bike using the **Shimano E-TUBE** app and make any changes in the E-TUBE app, this will override any changes you made using **STEPS UNLOCKER** back to Shimano default ranges, including maximum assist, torque, and any speed limit modifications. Thus, to take advantage of all the capabilities of **STEPS UNLOCKER**, we suggest that you ***do not use the Shimano E-TUBE app*** concurrently and just use the **STEPS UNLOCKER** app for all tuning.

XVIII. APPENDIX: HOW-TO DOWNGRADE E-8000 FIRMWARE



FIRMWARE DOWNGRADE IS DONE AT YOUR OWN RISK!

DOWNGRADING FIRMWARE MAY VOID THE MANUFACTURER'S WARRANTY OF YOUR ELECTRIC BIKE AND/OR CAUSE IRREVERSIBLE DAMAGE TO YOUR E-BIKE, DRIVE UNIT (MOTOR), BATTERY, AND RELATED COMPONENTS.

THIS IS AN ADVANCED PROCEDURE – YOU HAVE BEEN WARNED!

To downgrade your E-8000 system firmware down to 4.3.2, you'll need the following items:

- Your Mobile device with the **Shimano E-TUBE** app.
- Your E-Bike must be equipped with the **Shimano SC-E8000** Display unit.
- A current Mac (for iOS devices) or Windows PC (for Android devices)
- The correct USB cable to connect to your mobile device.
- E-8000 firmware version 4.3.2, download from here:
http://www.stepsunlocker.com/patch/fwd8000_432.zip

A. HOW-TO DOWNGRADE USING AN IOS DEVICE + MAC:

1. You will need to download and install the free iOS file utility **iFunbox**, from here:

<http://www.i-funbox.com/>

2. Download and extract the firmware archive to your Mac.
3. Connect your iOS device to the Mac.
4. Using iFunbox, browse to this directory on your iOS device:

App File Sharing/E-TUBE/FW/

5. Copy extracted .dat firmware files from the Mac to this folder on your iOS device.
6. Start the Shimano E-TUBE app and connect to your E-Bike.
7. Once connected, the E-TUBE app will tell you that there are “new” firmware updates available, version “5.x.x” (these are fake numbers, just for downgrade).
8. Hit **[ACCEPT]** to allow E-Tube app to install the downgraded 4.3.2 firmware.
9. When the E-Tube app is finished loading the downgraded firmware, turn off your E-Bike.
10. Restart your E-Bike and you’re done with the downgrade.



B. HOW-TO DOWNGRADE USING AN ANDROID DEVICE + WINDOWS PC:

1. Download and extract the firmware archive to your PC.
2. Connect your Android device to the PC.
3. Open Windows Explorer on the PC.
4. browse to this directory on your Android phone:

Android/data/com.shimano.E-TUBEprojectmobile.droid.phone/files/FW/

5. Copy extracted .dat firmware files from the PC to this folder on your Android device.
6. Start the Shimano E-TUBE app and connect to your E-Bike.
7. Once connected, the E-TUBE app will tell you that there are “new” firmware updates available, version “5.x.x” (these are fake numbers, just for downgrade).
8. Hit **[ACCEPT]** to allow E-Tube app to install the downgraded 4.3.2 firmware.
9. When the E-Tube app is finished loading the downgraded firmware, turn off your E-Bike.
10. Restart your E-Bike and you’re done with the downgrade.



OPTIONAL: After downgrading, you will have to delete the files that you copied in step 4-5 from your mobile device if you ever wish to update your firmware in the future.

XIX. LICENSE AGREEMENT / RELEASE OF LIABILITY

This is a legal agreement between you, the "END USER", Vadim Bukin the software author, and Raine the instruction manual author ("AUTHORS"). Use of this software and manual (the "PRODUCT") written by the AUTHORS indicates your acceptance of these terms.

The **STEPS UNLOCKER** app is provided "as is", without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and non-infringement. In no event shall the authors or copyright holders be liable for any claim, damages, personal injury or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the **STEPS UNLOCKER** app, manual or the use or other dealings in the product.

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