

Firmware downgrade instructions for Shimano Steps (iPhone)

E-tube is the official Shimano app for modifying motors, updating or downgrading the firmware. **Since E-tube version 5.0.3 it is not possible to downgrade the motor firmware. The instructions in this document only work with a version of E-Tube 5.0.2 or earlier.**

Option 1

It is recommended to get an Android and perform the downgrade process with Android, since on Android it is very easy to install a previous version of E-tube. That is, the Android would only be necessary once to downgrade the firmware of the motor, then you can use the iPhone to modify the parameters of the bike at any time using eTuning. If you can get an Android, [these are the instructions to downgrade with Android](#)

Note: if you buy the license from iPhone / Android it will work instantly and automatically on your other mobile on iPhone / Android, although it is not necessary to buy the license to downgrade.

Option 2

If you want to downgrade the motor firmware using your iPhone, it is not recommended because it requires many more steps than on Android. First you have to have your iPhone jailbroken (search for instructions on the Internet to do it) and second you have to follow instructions to downgrade apps on iPhone to install an older version of E-Tube. [This is an example of instructions to downgrade any app on iPhone](#), but you can follow any other guide.

Once you have E-Tube version 5.0.2 or earlier installed, you can follow the instructions on the next page for perform motor firmware downgrade on iPhone

All the firmwares included in the document allow modifying the maximum speed of the bike by modifying the circumference of the wheel (60km/h) or the region (32 km/h) using the [eTunning app](#).

Files

DU-EP800

[4.0.2](#) use it for downgrade from 4.1 or higher

DU-E8000

[4.3.2](#) **for SCE8000 display only** allows to change speed limit up to 60km/h without losing the speedometer. **Do not use in bikes with internal batteries.**

[4.6.1](#)

[4.7.1](#)

[4.8.0](#) use it for downgrade from 4.9 or higher

DU-E7000 & DU-E6100

[4.4.0](#)

[4.5.0](#) use it for downgrade from 4.6 or higher.

DU-E5000

[4.3.0](#) use it for downgrade from 4.4 or higher

Note: Above Firmwares are 100% original without any modifications.

Instructions

- 1) Install E-Tube 5.0.2 or lower on your iPhone
- 2) Connect your iPhone to your computer (Windows or Mac)
- 3) Using your computer, you need to find the E-Tube app "FW" folder that is inside your iPhone. Usually there is the document folder. If you have a Mac, use the free version of [this file explorer](#) (click Documents->FW). If you have a Windows use a free version of [this file explorer](#) (click on ETube-> View-> Documents->FW)
- 4) Delete all the contents of the FW folder. Download the appropriate firmware for your motor from the links of above page and copy the unzipped files to the directory indicated in the previous section (FW folder). **Important:** The files must be unzipped and inside the FW folder.
- 5) The bluetooth receiver is on the screen of your bike. Keep the phone still as close to the screen as possible during the update. Do not move your mobile device, do not close the app while it is updating and do not do anything else with your iPhone. **WARNING:** Activate the airplane mode on your iPhone so that no calls are happen during the downgrade.
- 6) Open the E-tube app in your iPhone. Connect to the bike with E-tube. It will ask you to update the firmware, update it. It will indicate that you are updating to a higher version (5.x.x), but you are updating to the firmware file that you have downloaded.
- 7) Once the process is complete, delete the files you copied to your iPhone (optional) and turn off airplane mode. Now you can use [eTuning](#) app to adjust the parameters.
- 8) Optional and not recommended: Once you have modified the desired parameters you can install the new firmware. The parameters are preserved, but you cannot modify them if you don't downgrade again.

Note: If in step 6 the E-Tube app does not indicate that there is an update available, it means that you have not unzipped the files, you have not inserted it in the indicated folder or you have not downloaded the files for your motor.

Firmware limitations guide

DU-EP800

4.0.2 : B & C

4.1.0 or higher : -

DU-E8000

4.3.2 : A & B & C

4.6.1 : B & C

4.7.1 : B & C

4.8.0 : B & C

4.9.0 or higher : C

DU-E7000 & DU-E6100

4.4.0 : B & C

4.5.0 : B & C

4.6 or higher : C

DU-E5000

4.3.0 : B & C

4.4.0 or higher : C

A) You can modify the maximum speed of each mode, eco trail and boost. The correct speed is displayed on the speedometer.

B) You can modify the wheel diameter to exceed the maximum speed but the speedometer indicates the wrong speed. You can also modify the region of the bike to the USA to have 32 km/h with the speedometer working correctly.

C) You can modify the assistance, torque and power settings of all modes among other settings.

Disclaimer: If the objective of downgrading is to be able to walk more than 25 km/h, check the laws of your country first. You may only be able to ride your bike in private areas.