Firmware downgrade instructions for Shimano Steps

All the firmwares included in the document allow modifying the maximum speed of the bike by modifying the circumference of the wheel or the region using the **eTunning app**.

Files

EP8 & EP8-RS

4.0.2 use it for downgrade from 4.1 or higher
Do not use this firmware with cargo version of Ep8

E8000 & E8080

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.

4.8.0 use it for downgrade from 4.9 or higher

E7000 & E6100 & E6180

4.5.0 use it for downgrade from 4.6 or higher.
Do not use this firmware with cargo version of E6100

E5000 & E5080

4.3.0 use it for downgrade from 4.4 or higher

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

Instructions

1) Put the airplane mode on your Android device. This step is necessary so that the app is not updated during the process in addition to avoiding calls during the firmware downgrade.

2) Connect your Android device to your computer and put it in file transfer mode.

3) Uninstall E-tube app if you have installed. download E-tube 5.0.2 app from this link, send to your device and install. Open the E-tube app and check that it connects with the bike.

4) Using your computer, enter the following folder on your Android device and delete all the files that are **inside** that directory.
   Android/data/com.shimano.etubeprojectmobile.droid.phone/files/FW

5) Download the appropriate firmware for your motor from the links above and copy the **unzipped** files to the directory indicated in the previous section. Disconnect your Android from the computer.

6) 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 Android device.

7) Open the E-tube app. 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, but you are updating to the firmware file that you have downloaded.

8) Once the process is complete, delete the files you copied to your mobile device (optional) and turn off airplane mode. *Now* you can use eTuning app to adjust the parameters.

9) 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.

Firmware limitations guide

EP800 & EP800-RS

4.0.2 : **B & C**

4.1.0 or higher : -

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**

E7000 & E6100

4.3.1 : **B & C**

4.4.0 : **B & C**

4.5.0 : **B & C**

4.6 or higher : **C**

E5000

4.1.0 : -

4.3.0 : **B & C**

4.4 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.

FaQ

If I update the firmware, are the modified settings reset with the new firmware?

No. Region and wheel diameter values are not reset when updating firmware.

Why in step 7 the E-Tube app does not indicate that there is an update available?

It may be due to one of these reasons:

1) You have not unzipped the files. You have to put in the "FW" folder the .dat files. Not the compressed file.

2) You have downloaded the files for other motor.

3) You are using wrong version of E-tube, you must use E-tube 5.0.2

After doing the downgrade, E035 or another error has appeared on the bike.

This is because components of your bike or some configuration of your bike is not compatible with that firmware.

While you have the error, change the settings you want to change with eTuning, such as the wheel circumference or the region. Update the motor firmware with E-tube to the latest firmware (for this you have to delete all the files in the FW folder and update normally with E-tube). That way you will get the error to disappear, you will have the bike unrestricted and with the latest firmware.

When I connect to the bike with E-tube in step 7, I get the message "Remove the unit" and can not connect to E-tube.

In step 3, complete the instructions marked in red.

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.