Firmware downgrade instructions for Shimano Steps

All the firmwares included in the document allow modifying the **maximum speed** of the bike by modifying the **wheel size** or the **region** using **eTuning**.

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.

Downgrade Instructions

1) Disable the internet on your phone by turning off Wi-Fi and mobile data.

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

3) Uninstall E-tube app if you have installed. <u>Download this version of E-tube</u>, send to your device and install. Open the E-tube app and check that it connects with the bike.

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

5) Download the appropriate firmware for your motor from the links above and copy the <u>unzipped files (.DAT)</u> to the <u>FW</u> directory. 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 Android 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) *Now* you can <u>use eTuning app</u> to adjust the parameters.

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

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 version linked in step three of this documento.

After completing 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.

You are using wrong version of E-tube, you must use E-tube version linked in step three of this document.

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

No, the region and wheel size values are not reset when updating firmware to the latest version.

I do not see FW folder

This is because you ave not opened E-tube in step 3.

I can not acess or copy files to *Android/data/* folder

Only some devices of Android 14 and above have restricted the access to data directory. To downgrade use a phone or tablet with Android 6 to13. If you only have one phone and it is Android 14 or higher and also has a restricted DATA folder. You can access it using [FV File Manager](#) and [Shizuku](#). For more details [check this video](#).

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.