Device Firmware Update

Should a new version of firmware (software) for the SmartLoad device become available, the following instructions are a guide for performing a device firmware upload (DFU). You will need to have **both** the **nRF Device Firmware Update (pictured below)** application as well as the **TruTrainer SmartLoad (pictured below)** application installed on your phone to accomplish this. You can find both on your phone's application store. The upload occurs over a Bluetooth Low Energy (BLE) wireless connection once the SmartLoad device is put into bootloader mode.

nRF Firmware Update App   TruTrainer SmartLoad App

When in bootloader mode, prior to starting the software upload, the red and amber LEDs will be on continuously. ***If you put the system into bootloader mode, you will not be able to ride in normal mode until the system resets.*** *The reset will happen automatically after the software is uploaded.* ***If you accidently put the system into bootloader mode, the power supply must completely discharge; and the system will reset into normal mode when you start riding again.***

Here are the steps to perform a DFU:

1. If you haven't already downloaded the latest firmware ZIP file to your phone, do so now. Latest firmware can be found on our website: www.trutrainer.com under the "Support" tab. Do ***not*** unzip the file.

2. Ride for a few minutes to put a full charge on the device.

3. Dismount the bike if you are not using a fork stand. ***This is the safest way to upload software.*** Alternatively, have a friend perform the following steps while you ride the rollers.
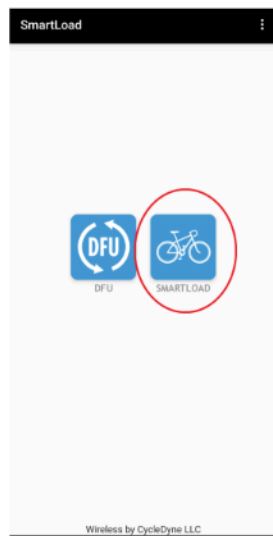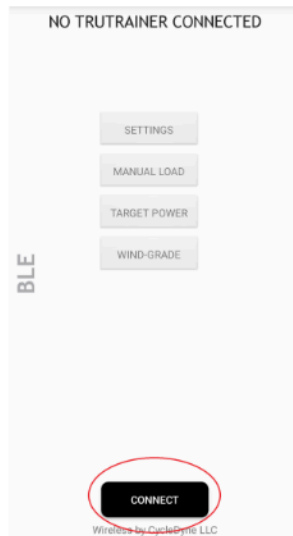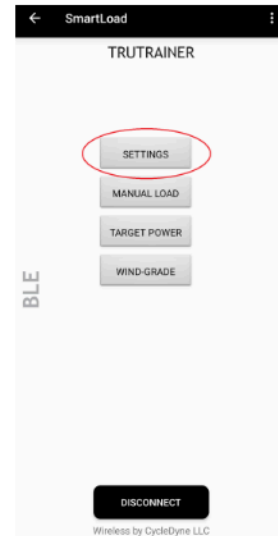
Fig. A   Fig. B   Fig. C

4. Open our smartphone app, select the SmartLoad functionality button show in Fig. A and connect to the TruTrainer device (Fig. B)

5. Once connected, press the Settings button (Fig. C) to bring up the Rider Settings screen.
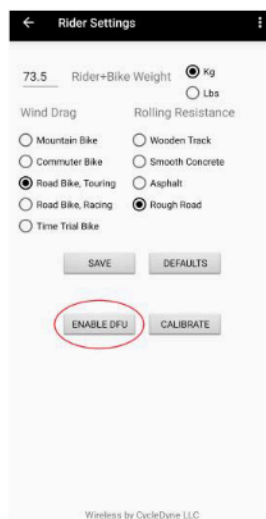

Fig. D

6. Put the SmartLoad device into bootloader mode by pressing the "Enable DFU" (Fig D) button on the Rider Settings screen. A separate screen will appear asking whether you want to proceed with this.   Press the OK button at the bottom of this screen.

7. **Exit the SmartLoad smartphone app.**

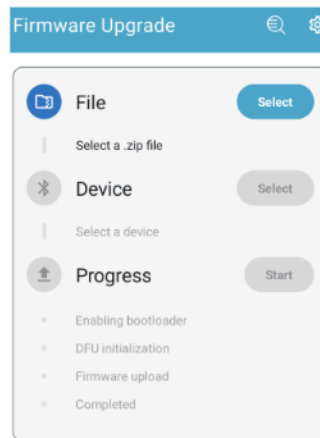8. Open the nRF Firmware Update application on your smartphone.

Fig. E

9. Follow the steps presented in Fig. E

   a. File Select – Browse for the ZIP file on your phone

   b. Device Select – "TT_DFU" should be visible as a connectable device. **_If it is not visible, you have not properly set the SmartLoad to DFU mode, return to step 1._**

   c. Select Start – You will be able to watch a progress bar from 0% to 100%

10. When the firmware upload is complete, the system will reset and start up in normal mode.