

Vero Electronic Pipette

Firmware and Bootloader Update

June 2026

This guide walks you through how to update your Vero™ electronic pipette. The process is simple, but it's important to follow the steps in the correct order.

Before You Begin

Please make sure:

- Your pipette battery is charged more than 50%.
- You have access to a computer (Windows or Linux).
- Your organization allows USB file transfer (some IT settings may block this).

Important

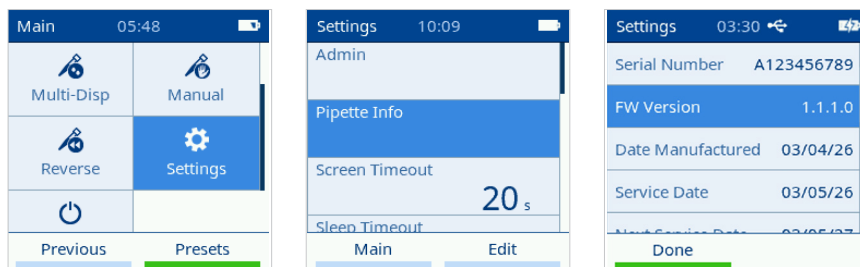
- Do not remove the battery while updating the firmware.
- Do not unplug the USB connection to the pipette while updating the firmware.
- Do not restart the pipette while updating the firmware.

If you have questions or encounter any problems, contact Rainin Technical Support at tech.support@rainin.com or +1 800 472 4646.



Step 1: Check Your Firmware Version Number

Go to **Settings > Pipette Info**. The version is listed in the FW Version line. You'll use this to decide if the bootloader needs to be updated and which firmware files are needed.



Step 2: Download the Update Files

1. Download the .zip file with latest Vero firmware update and note the new version number (you will use this at the end to check that the update was successful). Firmware files can be downloaded from: <https://www.mt.com/us/en/home/library/installation-instructions/rainin-pipettes/vero-firmware-update.html>.

For pipettes on Vero firmware **1.0.3.0**, download Version **A**.

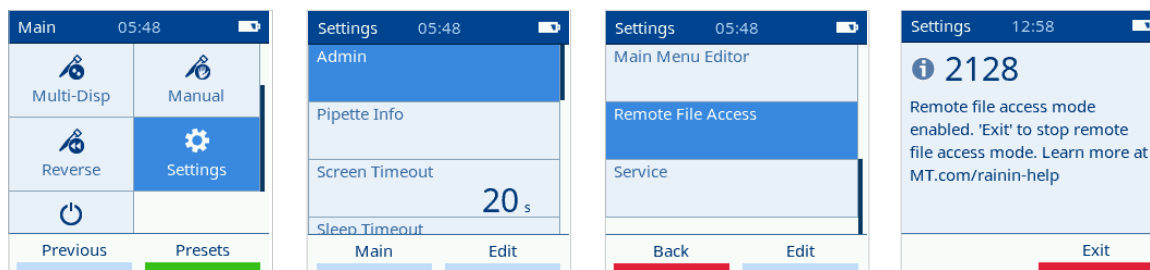
For pipettes on Vero firmware **1.1.0.0 or higher**, download Version **B**.

2. Right click on the .zip file, click Extract All, select a destination folder, and click Extract.
3. Open the folder to find the following files:
 - Vero_Boot.bin (bootloader)
 - Vero_App.bin (firmware)

Note: the .bin file for the firmware app will look different, so it is critical that you download the correct .zip file for your current firmware.

Step 3: Connect the Pipette

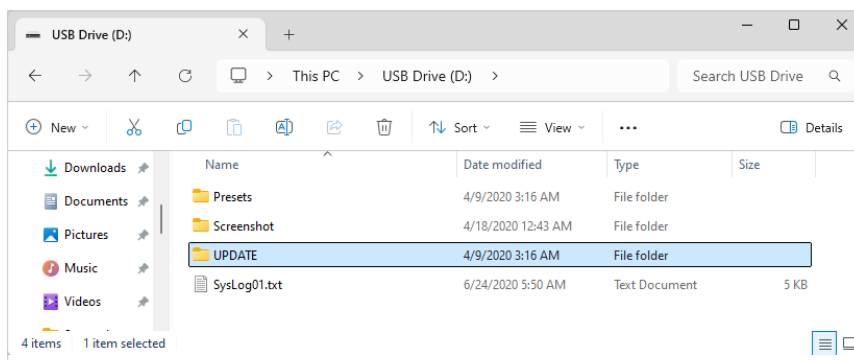
1. Connect your Vero pipette to your computer using a USB-C cable.
2. On the pipette go to **Settings > Admin** and select **Remote File Access**



3. Your pipette will now appear on your computer as a USB drive.

Step 4: Open the Update Folder

1. On your computer, navigate to the new Vero USB drive.
2. Open the folder named **UPDATE**.



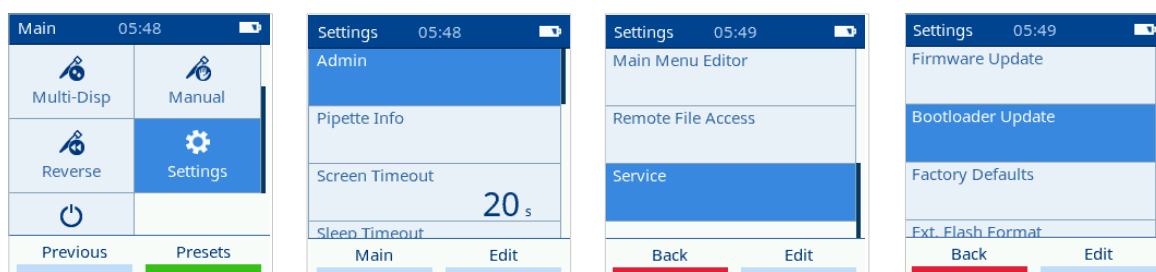
3. Copy the **Vero_Boot.bin** file into the **UPDATE** folder.
4. Copy the **Vero_App.bin** file into the **UPDATE** folder.
5. On your pipette, press Exit to return to the Settings/Admin screen.

PART A: Bootloader Update

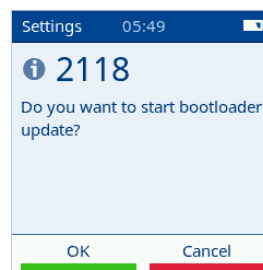
Important

If your current firmware version is 1.0.3.0, you need to first complete Part A to update the bootloader, and then complete Part B to update the firmware. However, if your current firmware version is 1.1.0.0 or higher, the bootloader update is not required, so you can skip Part A and go straight to Part B to update the firmware.

1. On your pipette, go to **Settings > Admin > Service** and select **Bootloader Update**.



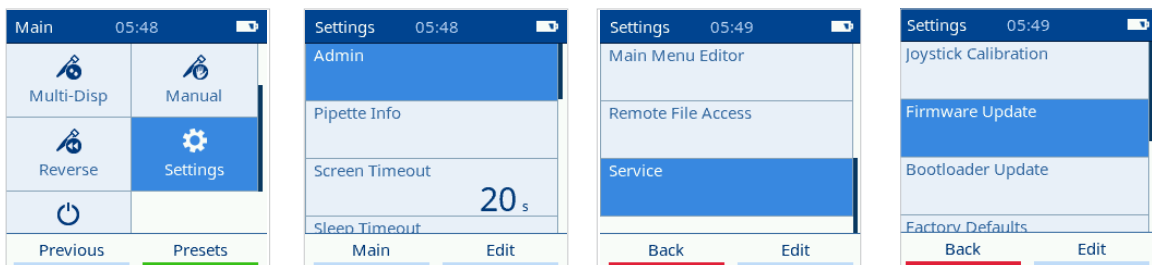
2. Press **OK** to start the update.



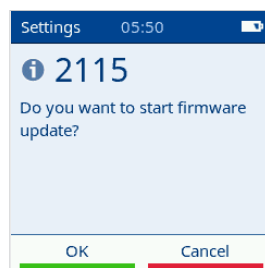
3. The update will take a few seconds. Do not use, disconnect, or remove the battery of your pipette while it is updating.
4. Return to the main menu and restart your pipette.

PART B: Firmware Update

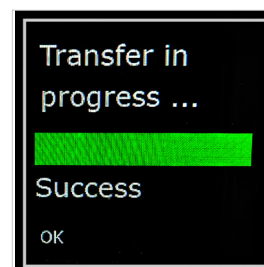
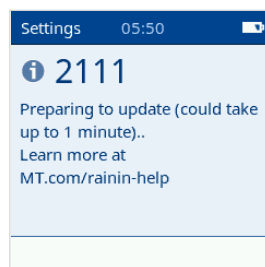
1. On your pipette, to to **Settings > Admin > Service** and select **Firmware Update**.



2. Press **OK** to start the update.

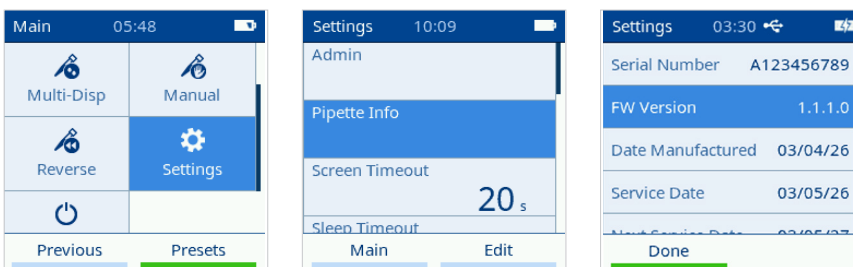


3. The update will take about a minute.
Do not use, disconnect, or remove the battery of your pipette while it is updating.



4. When the update is finished, press **OK** to restart your pipette.
5. Confirm that the update was successful in one of the following ways:

- Check the version on the bottom left corner of the screen during startup.
- Go to **Settings > Pipette Info**. The version is listed in the FW Version line.



Important

Ensure the FW Version line reflects the new version number

If Something Goes Wrong

Do not panic—the pipette is designed to recover safely.

Automatic Recovery

If an update fails, the device will automatically revert to the previous version.

Manual Recovery Mode

To access recovery.

1. Power off the device.
2. Press and hold the **right soft key**.
3. While holding it, press and hold the **left soft key**.
4. Continue holding until the bootloader menu appears.
5. Select **Recover**.
6. Select **YES** to revert to the previous firmware version.