

MOOG SUBSEQUENT 37 CV - FIRMWARE UPDATE 1.3.2

WHAT YOU WILL NEED

- A computer
- A program for sending MIDI SysEx data to your Subsequent 37 CV. We recommend Bome SendSX for Windows, or SysEx Librarian for Macintosh.

DOWNLOAD & INSTALL THE SYSEX SOFTWARE

WINDOWS: <https://www.bome.com/products/sendsx/downloads>

MAC OSX: <http://www.snoize.com/SysExLibrarian/>

BEFORE YOU UPDATE YOUR FIRMWARE

Make sure the power and USB connection to your Subsequent 37 CV is secure and cannot be unplugged by accident, for instance by a roommate or the family dog, before you start the update process. Both of these examples have actually happened, so please be careful.

COMMON PROBLEMS

THE FIRMWARE UPDATE CANNOT BE INSTALLED VIA DIN MIDI.

Subsequent 37 CV firmware updates can only be performed through the USB port.

THE DISPLAY IS BLANK AND/OR ALL OF THE LEDS ARE LIT.

The firmware on your Subsequent 37 CV has not been updated correctly. Repeat the update procedure. Note that nothing will appear on the display until the panel firmware update is complete.

UPDATE INSTRUCTIONS FOR WINDOWS

(Skip to the next section for Mac OSX instructions)

1. Connect a USB cable from the Subsequent 37 CV directly to your computer.

NOTE: (Avoid using a USB hub if possible, as many USB hubs do not work reliably and can cause the update to fail.)

2. Turn on your Subsequent 37 CV.

3. Launch the Bome SendSX application. Click on the MIDI Out menu, and select Subsequent 37 CV.

4. Click the File menu and choose Open. This will open a file chooser window. Select the file Subsequent_37_CV_v1_3_2_step1.syx and click Open.

5. In the Bome SendSX main window, click the Send button [or press F4]. This will send the Step 1 file to the Subsequent 37 CV. After a pause, the red **MIDI LED** on the Subsequent 37 CV will blink slowly three times. Then it will stop blinking, and the **ARP RATE LED** will begin blinking about once per second. The display may also read "FIRMWARE UPDATE: Flash Erased - Ready for Code."

NOTE: If the display is blank due to a previous failed update, but the **ARP RATE LED** is blinking, you may still proceed. The display will remain blank, but the firmware update will still work.

6. Refresh the Subsequent 37 CV USB connection to SendSX: click the MIDI Out menu and select Subsequent 37 CV as the MIDI Out device again.

7. Click the File menu and choose Open. Open the file named Subsequent_37_CV_v1_3_2_step2.syx, and then click the Send button or press F4. This will send the Step 2 file to the Subsequent 37 CV. The **MIDI LED** will blink red as the Subsequent 37 CV receives data. The display may also read Flash Erased - Getting buffers, with the Page number increasing in the display. The file sending process may take 5 to 10 minutes to complete.

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UPDATE INSTRUCTIONS FOR WINDOWS (continued)

8. When the transmission is complete, the Subsequent 37 CV will restart itself with the new firmware.

NOTE: *If the display was blank in the preceding steps, it will remain blank until the update process is completed. Keep going...*

9. Refresh the Subsequent 37 CV USB connection to SendSX again: click the MIDI Out menu and make sure the Subsequent 37 CV is still selected as the MIDI Out device.

10. Click File, Open and open the file named Subsequent_37_CV_v1_3_2_step3.syx. Click the Send button or press F4. The Subsequent 37 CV will briefly show a message, and then go blank. Then the **ARP RATE LED** will blink rapidly.

NOTE: *If the firmware update process failed on a previous attempt, the **ARP RATE LED** will still blink, but the display may remain blank, and all the lights may be lit.*

11. Click File, Open and open the file named Subsequent_37_CV_v1_3_2_step4.syx. Click the Send button or press F4. You should see the **MIDI LED** flashing red on the Subsequent 37 CV. The file sending process may take more than 15 minutes to complete.

When the transmission is complete, your Subsequent 37 CV will restart itself using the new firmware. The firmware update is now complete, but it's a good idea to turn the Subsequent 37 CV power off and on again after a firmware update and before using the Subsequent 37 CV for performance or music production work.

You can check the firmware version number by powering on your Subsequent 37 CV while holding **CURSOR**, or by going to the last page of the **GLOBALS** menu.

FINISH UPDATE INSTRUCTIONS FOR WINDOWS

UPDATE INSTRUCTIONS FOR MAC OSX

1. Connect a USB cable from the Subsequent 37 CV directly to your computer.

NOTE: *(Avoid using a USB hub if possible, as many USB hubs do not work reliably and can cause the update to fail.)*

2. Turn on your Subsequent 37 CV.

3. Launch the SysEx Librarian application. Click the "Destination" pull-down menu at the top of the SysEx Librarian window, and select Subsequent 37 CV.

4. Click the SysEx Librarian menu and choose Preferences. On the Preferences page, click the Transmit Speed tab. Set the Speed for Subsequent 37 CV to 50%. Close out of the Preferences window.

NOTE: *If you have any problems sending the update files, try setting the Speed to 25% and repeating the update process from the beginning. Turn the power to the Subsequent 37 CV off and back on again before repeating the update process.*

5. At the bottom of the SysEx Librarian window, click the Add button. This will open a file chooser window. Select all four sysex files (Subsequent_37_CV_v1_3_2_step1, step2, step3, step4. syx) by holding Shift + clicking each file name, then click Open. This will add all four files to the SysEx Librarian Playlist.

6. In the Playlist (main area of the SysEx Librarian window), click on the file named Subsequent_37_CV_v1_3_2_step1.syx, and then click the Play button in the upper left. This will send the Step 1 file to the Subsequent 37 CV. After a pause, the red **MIDI LED** on the Subsequent 37 CV will blink slowly three times. Then it will stop blinking, and the **ARP RATE LED** will begin blinking about once per second. The display may also read: "FIRMWARE UPDATE: Flash Erased - Ready for Code."

NOTE: *If the display is blank due to a previous failed update, but the ARP RATE LED is blinking, you may still proceed. The display will remain blank, but the firmware update will still work.*

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UPDATE INSTRUCTIONS FOR MAC OSX (continued)

7. Make sure that Subsequent 37 CV is still selected as the Destination, at the top of the SysEx Librarian window; re-select it if necessary. Check this before sending each file.

8. In the Playlist, click on the file named Subsequent_37_CV_v1_3_2_step2.syx and then click the Play button. This will send the Step 2 file to the Subsequent 37 CV. The **MIDI LED** will blink red as the Subsequent 37 CV receives data. The display may also read Flash Erased - Getting buffers, with the Page number increasing in the display. The file sending process may take 10 to 15 minutes to complete.

9. Make sure that Subsequent 37 CV is still selected as the Destination, at the top of the SysEx Librarian window; re-select it if necessary. Check this before sending each file.

10. In the Playlist, click on the file named Subsequent_37_CV_v1_3_2_step3.syx and then click the Play button. The Subsequent 37 CV will briefly show a message, and then go blank. Then the **ARP RATE LED** will blink rapidly.

NOTE: *If the firmware update process failed on a previous attempt, the **ARP RATE LED** will still blink, but the display may remain blank, and all the lights may be lit.*

11. In the Playlist, click on the file named Subsequent_37_CV_v1_3_2_step4.syx and then click the Play button. You should see the **MIDI LED** flashing red on the Subsequent 37 CV. The file sending process may take more than 15 minutes to complete.

When the transmission is complete, your Subsequent 37 CV will restart itself using the new firmware. The firmware update is now complete, but it's a good idea to turn the Subsequent 37 CV power off and on again after a firmware update and before using the Subsequent 37 CV for performance or music production work.

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FINISH UPDATE INSTRUCTIONS FOR MAC OSX