MATRIARCH FIRMWARE UPDATE V1.1.0

November 2019

Firmware version 1.1.0 for the Matriarch contains a number of new features as well as some bug fixes.

HOW TO UPDATE YOUR FIRMWARE

1. Connect a USB cable from Matriarch to your computer.

2. Open your SysEx sending software.
NOTE: *We recommend downloading Bome SendSX for Windows or SysEx Librarian for Mac.*

3. In the SysEx software, select Matriarch as your MIDI output device.
NOTE: *In SysEx Librarian, this is located in the drop-down menu at the top of the application window. In Bome SendSX, this is located in the MIDI OUT menu on the menu bar.*

4. Select the SysEx file "Matriarch_FIRMWARE_INVALIDATE.syx" included with this download and click Send. On the Matriarch, the Arp Rate LED will start blinking red/green.

5. In the SysEx sending software, re-select Matriarch as your MIDI output device (Matriarch reboots and needs to be re-selected after INVALIDATE).

6. Select the SysEx file "Matriarch_FIRMWARE_ERASE.syx" included with this download and click Send. On the Matriarch, the Arp Rate LED will blink green. Matriarch is now ready for new firmware.

7. Select the new firmware file "Matriarch_Firmware_v1_1_0.syx" included with this download and click Send. The Matriarch Arp Rate LED will blink yellow-orange while receiving.

8. You're done! Matriarch will reboot to the new firmware when done.

TROUBLESHOOTING

If the Matriarch Arp Rate LED is still blinking yellow-orange after the firmware has finished sending, or if the Arp Rate LED stops blinking and the unit does not reboot automatically once firmware has finished sending, you should try again.

Turn the Matriarch power off and on again, disconnect and reconnect the USB cable, and then start over at step 1.

You can retry as many times as necessary and it will not hurt the hardware. If it doesn't work after two or three tries, you should contact Moog Technical Support for further assistance.

If you have any questions or trouble with your update please contact techsupport@moogmusic.com.

V1.1.0 RELEASE NOTES

NEW FEATURES

- Latched Arp now allows duplicate notes (like an on-the-fly sequencer).

- Added new global parameter (4.7) that enables/disables the sequencer RANDOM mode from repeating steps: C0 = allows repeats (default), D0 = do not allow repeats.

- Implemented MIDI CC 84 Portamento Control response (allows tied notes to be specified via MIDI).

CHANGED BEHAVIORS

- Arpeggiator swing setting is maintained between power-cycles.

- Ratchet LED will now always light up to register key press, even while in step edit mode.

- ARP/SEQ clock output mode (Global Parameter 2.2) now defaults to “only when playing”.

- Modulation Oscillator square wave polarity defaults to bipolar (now consistent with manual).

- Arp MIDI Output Mode default setting is now consistent with documentation in the manual.

NEW GLOBAL PARAMETER

Global Parameters Group 4	Group Select Key	Parameter Select Key	Sync Enable Button Blinks
4.7 Sequence Random Repeat	**G#2**	**D#1**	**4 x / 7 x**
This parameter controls whether the Sequencer playback in Random direction will allow the same note/pitch to repeat on adjacent steps, or not. Use the lowest two white keys to select ALLOW REPEATS (**C0**), or DO NOT ALLOW REPEATS (**D0**). The default is ALLOW REPEATS (**C0**).			

V1.1.0 RELEASE NOTES

BUG FIXES INCLUDED IN V1.1.0

1. Sequencer TIE now works correctly with Legato Glide in Mono (1) Voice Mode.

2. Sequencer MIDI output is now correct (tied notes generate one longer MIDI note).

3. Arpeggiator does not skip the first note while in random order.

4. Sequencer random mode now has equal probability of playing all steps.

5. Delay Time CV inputs no longer cause MIDI NRPN messages to be output.

6. Fixed swing setting based on key press to match manual (including “no swing” set by C3).

7. Arp/Seq CLOCK IN detection is improved.

8. Fixed contention between local and MIDI pressure values when MIDI pressure is received.

9. Sequences are now saved to the correct locations (in order) in memory; sequence selection via MIDI program change is now correct.

10. Fixed issue where Arp Rate Knob didn’t reset back to normal range after patching in an external Arp Clock input or syncing to MIDI clock.

11. RATE/DIV IN CV input now functions correctly.

12. Fixed ARP/SEQ freezing when patching an external CLOCK IN while a clock signal is active and while ARP is playing.

13. Prevent oscillators 2-4 from going to very low frequencies while changing keyboard octave on LHC.

14. Fixed Mod Oscillator stepped-random waveform stopping when Arp/Seq clock output stops.

15. Fixed Delay Time range becoming smaller after modulation via TIME CV IN.