



19. Single CV Input Reassignment



Mob of Emus provides six assignable CV inputs. The inputs accept CVs in the range of +/- 5V.

 **NOTE:** *Inputting CVs above or below that range won't hurt the module, but they'll be clipped to the +/-5V values for purposes of modulation.*

 **NOTE:** *When a Global CV Input Mode assignment is selected, any previously programmed single CV Input Reassignments for the currently selected preset will be cleared. Please see page 25 of the Mob of Emus manual for details on Global CV Input Mode Assignments.*





Each of the six CV inputs can be reassigned to one of 14 total modulation destinations. Available are six individual-channel and eight **Hex** modulation destinations. The six individual-channel destinations effect one user-assigned channel, while the eight **Hex** modulation destinations effect all six channels by modulating the parameters of the Hex macro control layer.


To reassign a single CV input, long-press and hold the channel selector button labeled with its number for 3 seconds. (For example, to reassign CV Input #2, long-press and hold channel selector button #2.)

The associated Channel Selector LED will flash rapidly to indicate the number of the CV input selected for single CV Input Reassignment. The selected CV input's current modulation destination will be displayed on the preset LEDs.

While continuing the hold the button, the selected CV input's current target channel will be displayed on the channel LED. The modulation may be reassigned to one new target channel by clicking a channel selector button. Selecting a new target channel will deselect the previously assigned channel. To reselect the channel matching the CV input's number (associated with the button that is being held), deselect the currently selected target channel by pressing its button.

 **IMPORTANT NOTE:** *All single CV Input Reassignment is accomplished while the numbered selector button is held. One single CV Input Reassignment may be edited at a time.*

 **ANOTHER NOTE:** *The target channel selection is not used when assigning Hex modulation destinations.*

 **YET ANOTHER NOTE:** *Each modulation destination can receive exactly one CV input. In cases of collisions of multiple CV inputs reassigned to the same individual-channel modulation destination and target channel, the higher numbered CV input will win and the lower numbered CV input's destination will be unused.*

The six individual-channel modulation destinations are selected by single-clicking the preset buttons:

Preset 1: Channel VARIATION Offsets the probability that the channel will ratchet or drop a step. The Preset 1 LED is lit solid.

Preset 2: Channel FREQUENCY Offsets a channel's frequency. The Preset 2 LED is lit solid.

Preset 3: Channel TRIG Triggers a channel. The Preset 3 LED is lit solid.

Preset 4: Channel GAIN Controls a channel's gain. The Preset 4 LED is lit solid.

Preset 5: Channel WAVE Offsets a channel's wave shape selection. The Preset 5 LED is lit solid.

Preset 6: Channel External Quantizer Input Point Substitutes the signal at the selected CV input for the channel's internal oscillator signal. The Preset 6 LED is lit solid.

Six **Hex** modulation destinations are selected by double-clicking the preset buttons:

Preset 1: Hex VARIATION Offsets the probability that all channels will ratchet or drop a step. The Preset 1 LED continually double-flashes.

Preset 2: Hex FREQUENCY Offsets all channel's frequency. The Preset 2 LED continually double-flashes.

Preset 3: Hex PHASE Offsets the phase of all channels. The Preset 3 LED continually double-flashes.

Preset 4: Hex HARMONIC GAIN Offsets the balance of all channels. The Preset 4 LED continually double-flashes.

Preset 5: Hex WAVE Offsets all channels' wave shape selection. The Preset 5 LED continually double-flashes.

Preset 6: Hex QUANTIZER SCALE Offsets the scale selection of all six channels' quantizer and the mix output quantizer. The Preset 6 LED continually double-flashes.

Two further **Hex** modulation destinations are selected by triple-clicking the preset buttons:

Preset 1: Hex WARP Offsets the Hex mode WARP parameter, effecting the frequency of all channels. The Preset 1 LED continually triple-flashes.


Preset 6: Hex DC Offsets all channel's DC parameter with the signal at the CV input. The Preset 6 LED continually triple-flashes.


> 1.2 Software New Features

20. Pause

Hold **Hex** and press **Tap** to **Pause**. The **Hex** LED will blink in 1Hz “blips” when paused.

Hold **Hex** and press **Tap** to Unpause.

 **NOTE:** *Pause works by temporarily bringing the frequencies of all oscillators to 0. This effectively freezes them all in place.*

 **NOTE:** *While Paused, the synthesizer is still operating. Many controls will produce audible changes to the output(s) even when Paused, but not frequency controls, as you may surmise.*