Yamaha GENOS

Using a Nectar Pacer MIDI Foot Controller

Contents

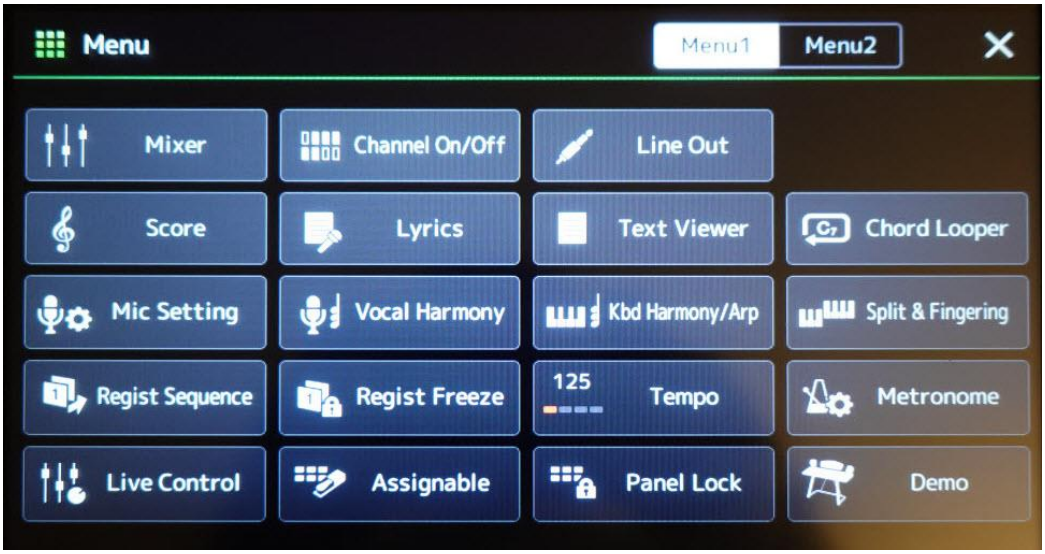
Overview

This document will explain how to set up a Nectar Pacer MIDI Foot Controller with your Yamaha GENOS Arranger Keyboard.

Make sure you are using OS 2.02

Check your OS version:

MENU | Menu 1



Menu 2 | Utility

System

Version = 2.02

If you do not have the latest OS, download the OS update from:

https://usa.yamaha.com/products/musical_instruments/keyboards/arranger_workstations/genos/downloads.html#product-tabs

MIDI SETTINGS

Press the MENU button and open the MIDI page:

MENU | Menu 2 | MIDI

External Controller

MENU | MENU 2 | MIDI | External Controller

Set MIDI Port = MIDI B

You will be connecting the Nectar Pacer to MIDI IN Port B on the Yamaha GENOS with a MIDI Cable.

Default Mappings of the 30 CC#/Notes

Set MIDI Channel = 16

The Nectar Pacer will be transmitting the Control Change messages on MIDI Channel 16.

Page 1

Continuous Controller & MIDI Note Pairings

CC#	Note	MIDI Note	Default Mapping
CC 0	C# -1	13	Style Start/Stop
CC 5	D -1	14	Fill Down
CC 6	Eb -1	15	Fill Self

Page 2

CC#	Note	MIDI Note	Default Mapping
CC 8	E -1	16	Fill Break
CC 9	F -1	17	Fill Up
CC 10	F# -1	18	Synchro Stop
CC 11	G -1	19	Main A
CC 12	Ab -1	20	Main B
CC 13	A -1	21	Main C
CC 14	Bb -1	22	Main D
CC 15	B -1	23	Style Start/Stop

Page 3

CC#	Note	MIDI Note	Default Mapping
CC 16	C 0	24	Fill Down
CC 17	C# 0	25	Fill Self
CC 18	D 0	26	Fill Break
CC 19	Eb 0	27	Fill Up
CC 20	E 0	28	Synchro Stop
CC 21	F 0	29	Intro 1
CC 22	F# 0	30	Intro 2
CC 23	G 0	31	Intro 3

Page 4

CC#	Note	MIDI Note	Default Mapping
CC 24	Ab 0	32	Tap Temp
CC 25	A0	33	Style Start/Stop
CC 26	Bb 0	34	Fill Down
CC 27	B 0	35	Fill Self
CC 28	C 1	36	Fill Break
CC 29	C# 1	37	Fill Up
CC 30	D 1	38	Synchro Stop
CC 31	Eb 1	39	Ending 1

Page 5

CC#	Note	MIDI Note	Default Mapping
CC 32	E 1	40	Ending 2
CC 33	F 1	41	Ending 3
CC 34	F# 1	42	Fade In/Out

CC#	Note	MIDI Note	Default Mapping
CC 0	C# -1	13	Style Start/Stop
CC 5	D -1	14	Fill Down
CC 6	Eb -1	15	Fill Self
CC 8	E -1	16	Fill Break
CC 9	F -1	17	Fill Up
CC 10	F# -1	18	Synchro Stop
CC 11	G -1	19	Main A
CC 12	Ab -1	20	Main B
CC 13	A -1	21	Main C
CC 14	Bb -1	22	Main D
CC 15	B -1	23	Style Start/Stop
CC 16	C 0	24	Fill Down
CC 17	C# 0	25	Fill Self
CC 18	D 0	26	Fill Break
CC 19	Eb 0	27	Fill Up
CC 20	E 0	28	Synchro Stop
CC 21	F 0	29	Intro 1
CC 22	F# 0	30	Intro 2
CC 23	G 0	31	Intro 3
CC 24	Ab 0	32	Tap Temp
CC 25	A0	33	Style Start/Stop
CC 26	Bb 0	34	Fill Down
CC 27	B 0	35	Fill Self
CC 28	C 1	36	Fill Break
CC 29	C# 1	37	Fill Up
CC 30	D 1	38	Synchro Stop
CC 31	Eb 1	39	Ending 1
CC 32	E 1	40	Ending 2
CC 33	F 1	41	Ending 3
CC 34	F# 1	42	Fade In/Out

Note: These are the default mappings for Preset = **All Parts**.

You are free to create your own mapping scheme and save them as a User Preset.

You can assign various functions to these 30 CC#/Note pairs:

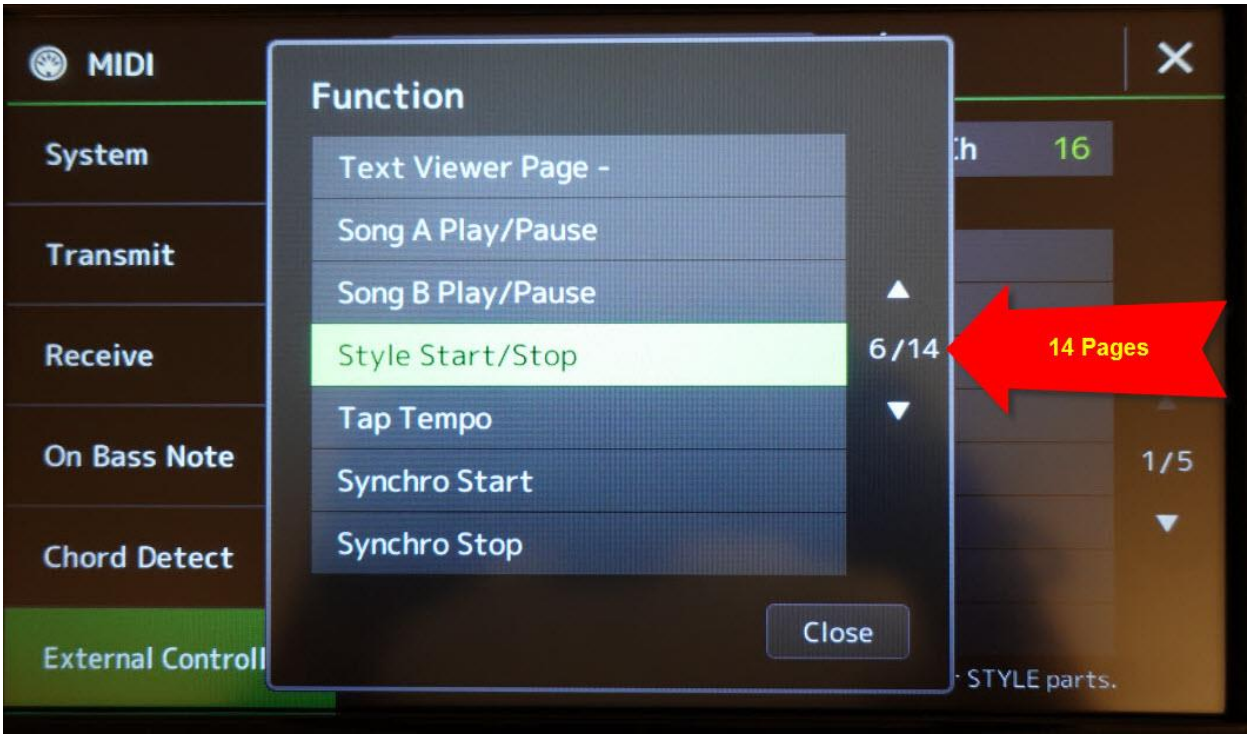
CC_Number	Note_Name	MIDI_Note
CC 0	C# -1	13
CC 5	D -1	14
CC 6	Eb -1	15
CC 8	E -1	16
CC 9	F -1	17
CC 10	F# -1	18
CC 11	G -1	19
CC 12	Ab -1	20
CC 13	A -1	21
CC 14	Bb -1	22
CC 15	B -1	23
CC 16	C 0	24
CC 17	C# 0	25
CC 18	D 0	26
CC 19	Eb 0	27
CC 20	E 0	28
CC 21	F 0	29
CC 22	F# 0	30
CC 23	G 0	31
CC 24	Ab 0	32
CC 25	A 0	33
CC 26	Bb 0	34
CC 27	B 0	35
CC 28	C 1	36
CC 29	C# 1	37
CC 30	D 1	38
CC 31	Eb 1	39
CC 32	E 1	40
CC 33	F 1	41
CC 34	F# 1	42

List of 95 Functions that can be assigned to a CC#/Note

The default function assigned to CC#0 = Style Start/Stop

Click on this to see a list of all possible functions that you can map.

There are 95 Functions spanning 14 pages that you can assign to this CC#/Note



Here is the complete list of assignable Functions:

Page 1

- No Assign
- Sustain
- Sostenuto
- Soft
- Portamento
- Modulation (Alt) Right 1
- Modulation (Alt) Right 2

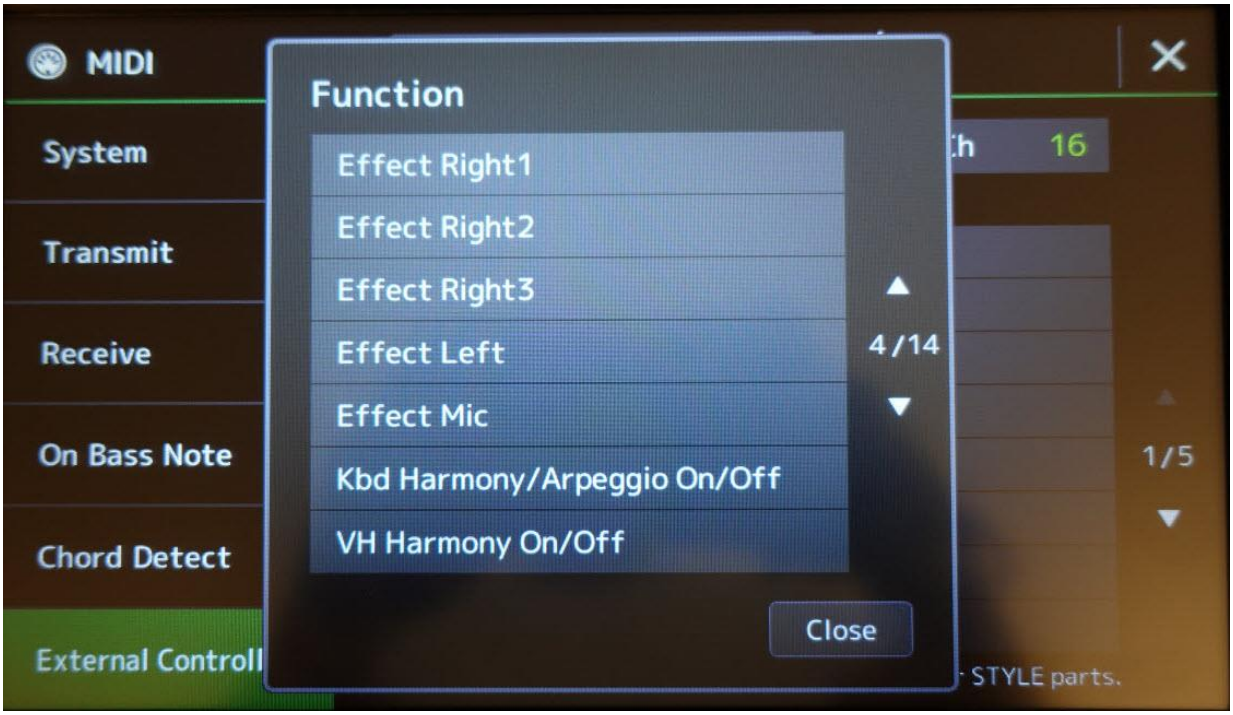
Page 2

- Modulation (Alt) Right 3
- Modulation (Alt) Left
- Articulation 1 Right 1
- Articulation 1 Right 2
- Articulation 1 Right 3
- Articulation 1 Left
- Articulation 2 Right 1

Page 3

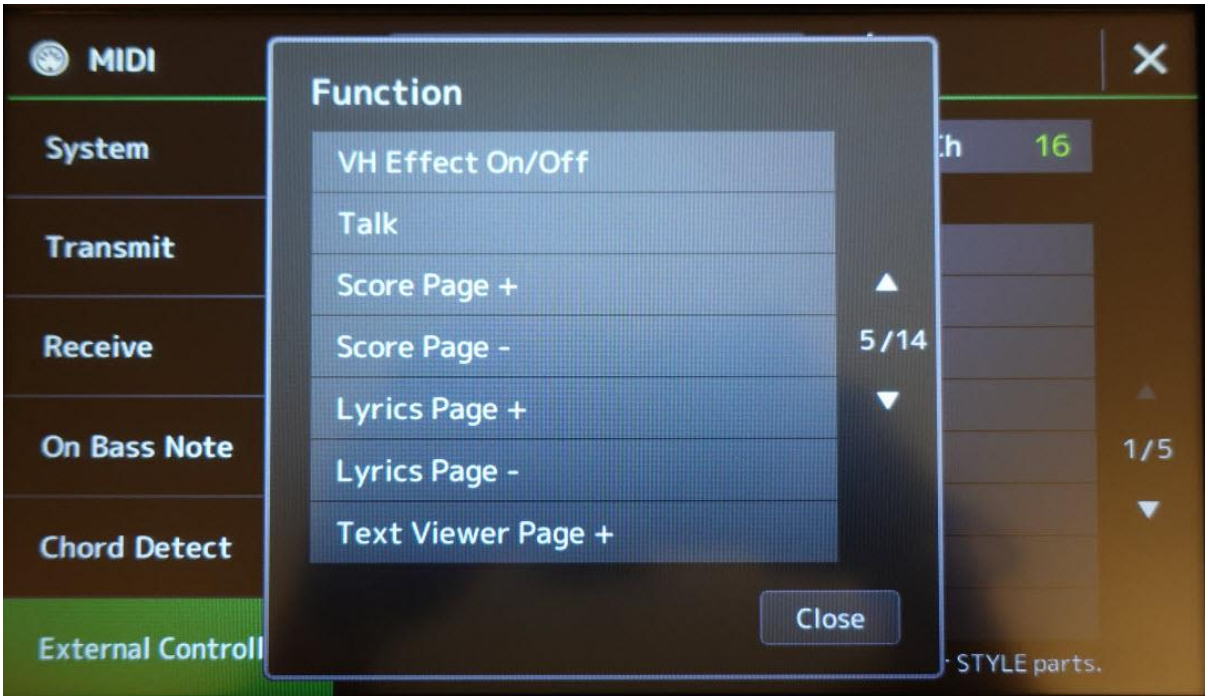
- Articulation 2 Right 2
- Articulation 2 Right 3
- Articulation 2 Left
- Articulation 3 Right 1
- Articulation 3 Right 2
- Articulation 3 Right 3
- Articulation 3 Left

Page 4



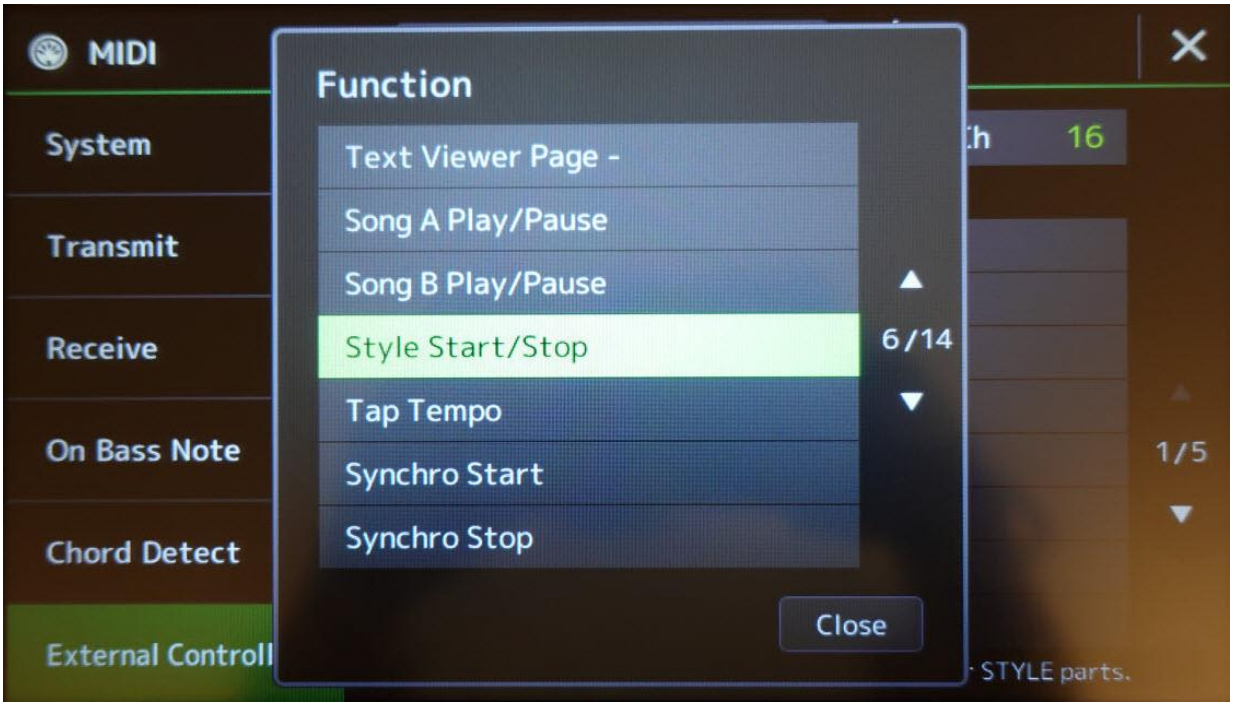
- Effect Right 1
- Effect Right 2
- Effect Right 3
- Effect Left
- Effect Mic
- Keyboard Harmony/Arpeggio On/Off
- Vocal Harmony On/Off

Page 5



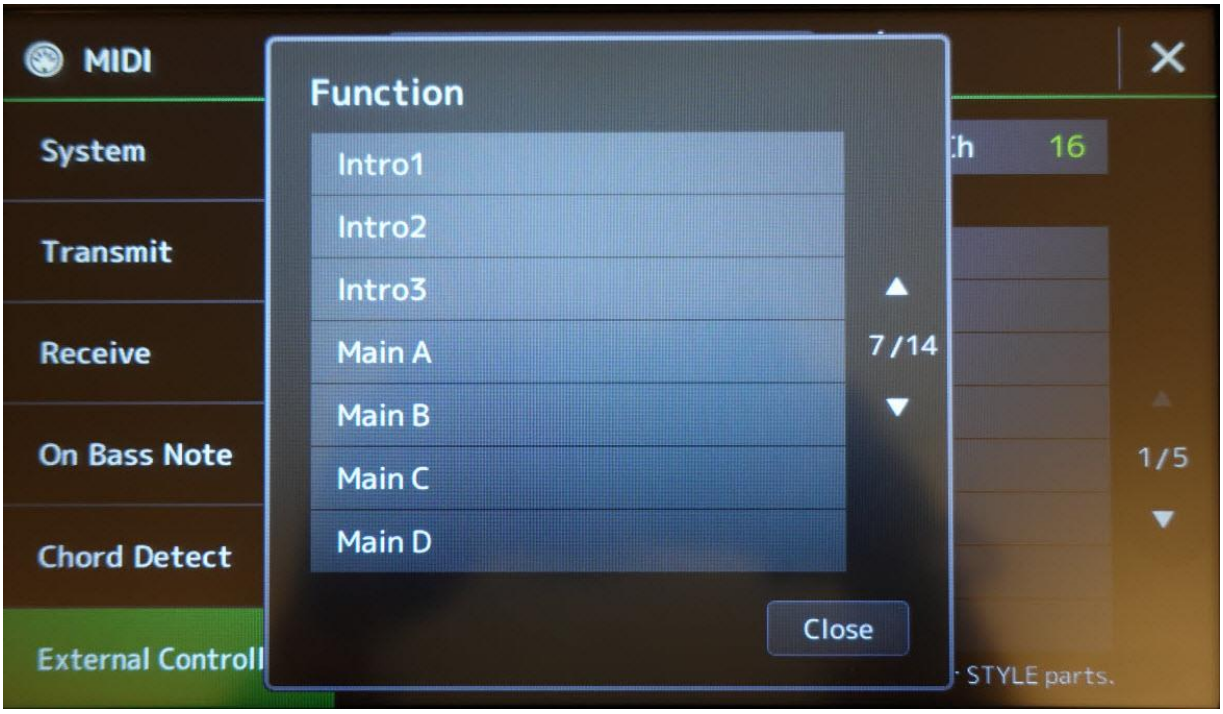
- Vocal Harmony Effect On/Off
- Talk
- Score Page +
- Score Page –
- Lyrics Page +
- Lyrics Page –
- Text Viewer Page +

Page 6



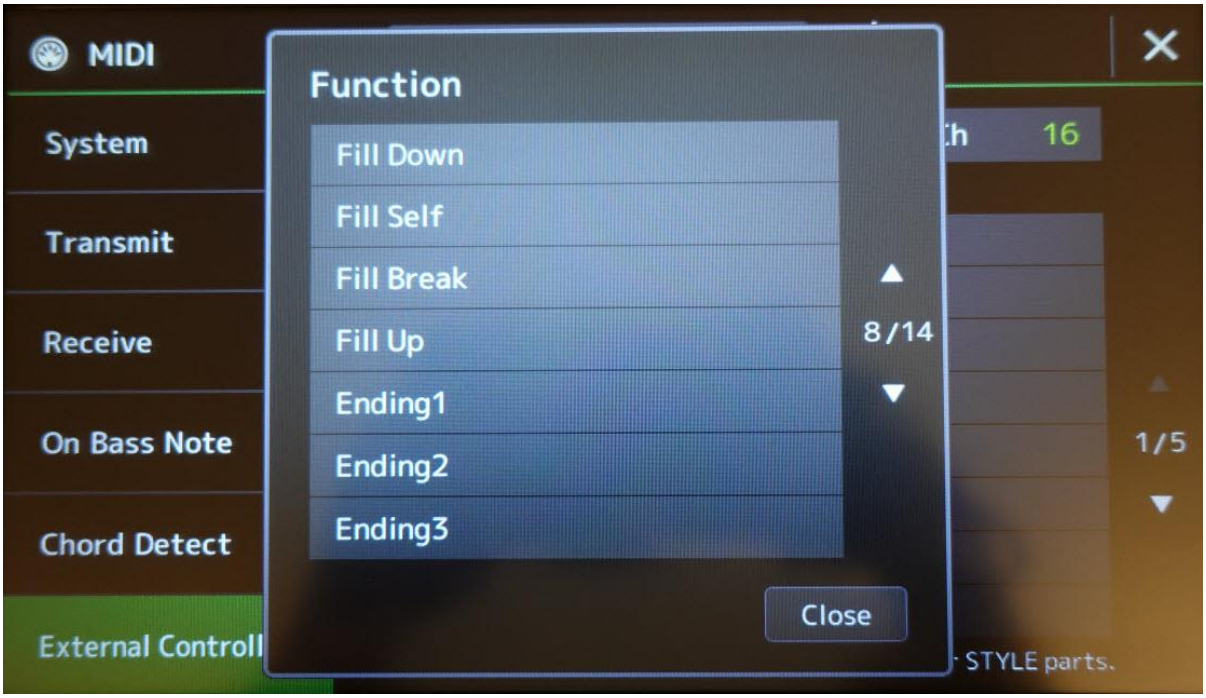
- Text Viewer Page –
- Song A Play/Pause
- Song B Play/Pause
- Style Start/Stop
- Tap Tempo
- Synchro Start
- Synchro Stop

Page 7



- Intro 1
- Intro 2
- Intro 3
- Main A
- Main B
- Main C
- Main D

Page 8



- Fill Down
- Fill Self
- Fill Break
- Fill Up
- Ending 1
- Ending 2
- Ending 3

Page 9

- Fade In/Out
- Fingered/Fingered On Bass
- Bass Hold
- Percussion 1
- Percussion 2
- Percussion 3
- Right 1 Part On/Off

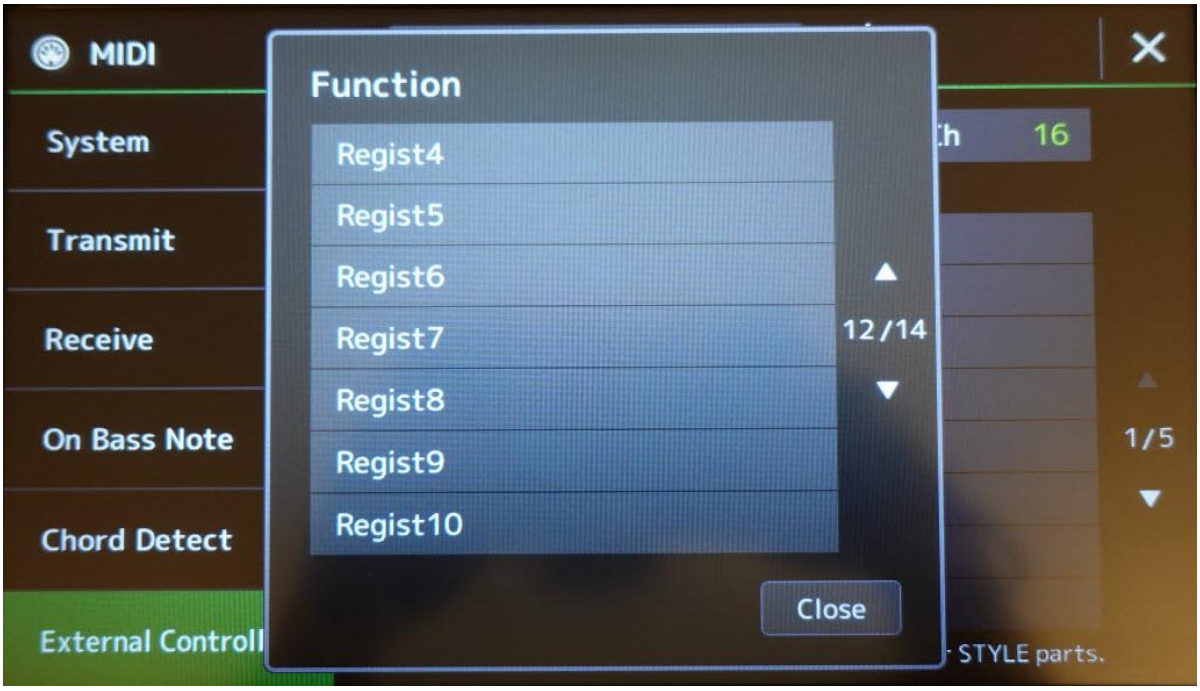
Page 10

- Right 2 Part On/Off
- Right 3 Part On/Off
- Left Part On/Off
- One Touch Setting +
- One Touch Setting –
- One Touch Setting 1
- One Touch Setting 2

Page 11

- One Touch Setting 3
- One Touch Setting 4
- Registration Sequence +
- Registration Sequence –
- Registration 1
- Registration 2
- Registration 3

Page 12

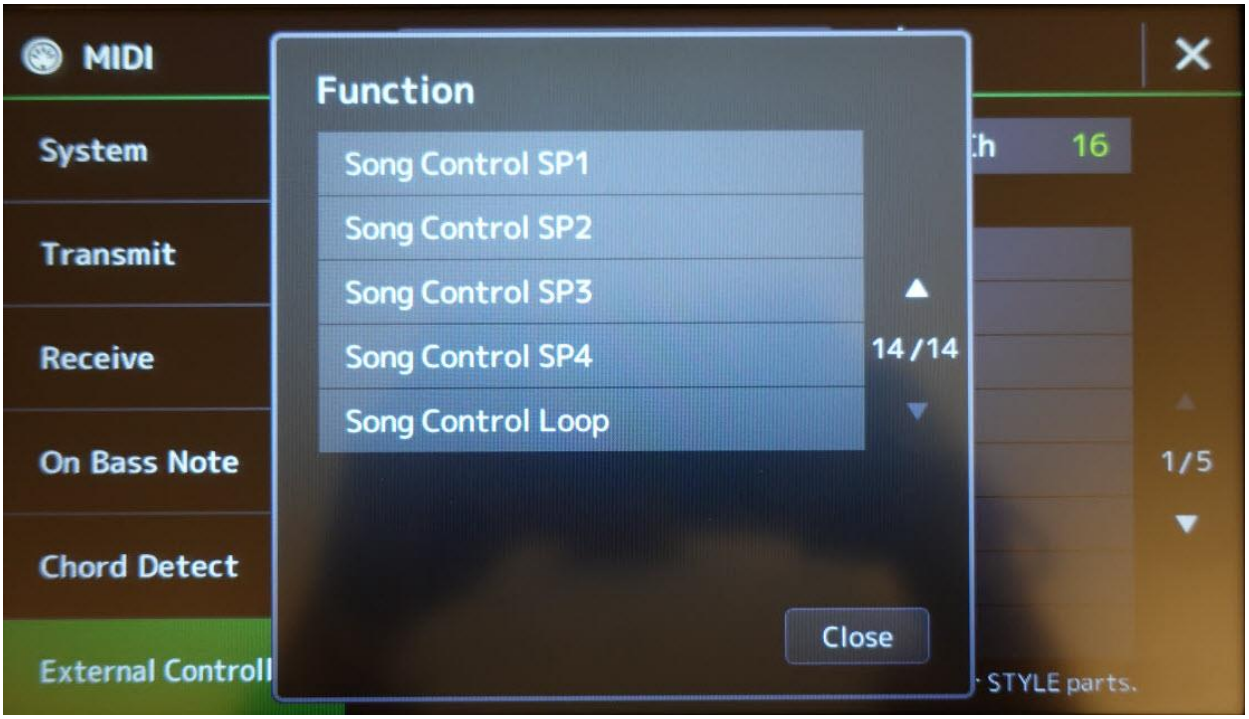


- Registration 4
- Registration 5
- Registration 6
- Registration 7
- Registration 8
- Registration 9
- Registration 10

Page 13

- Transpose +
- Transpose –
- Multi Pad 1
- Multi Pad 2
- Multi Pad 3
- Multi Pad 4
- Multi Pad Stop

Page 14



- Song Control SP1
- Song Control SP2
- Song Control SP3
- Song Control SP4
- Song Control Loop

There are a total of 95 different functions you can assign to any of the 30 CC# and MIDI Notes.

List of all 95 Functions:

- No Assign
- Sustain
- Sostenuto
- Soft
- Portamento
- Modulation (Alt) Right 1
- Modulation (Alt) Right 2
- Modulation (Alt) Right 3
- Modulation (Alt) Left
- Articulation 1 Right 1
- Articulation 1 Right 2
- Articulation 1 Right 3
- Articulation 1 Left
- Articulation 2 Right 1
- Articulation 2 Right 2
- Articulation 2 Right 3
- Articulation 2 Left
- Articulation 3 Right 1
- Articulation 3 Right 2
- Articulation 3 Right 3
- Articulation 3 Left
- Effect Right 1
- Effect Right 2
- Effect Right 3
- Effect Left
- Effect Mic
- Keyboard Harmony/Arpeggio On/Off
- Vocal Harmony On/Off
- Vocal Harmony Effect On/Off
- Talk
- Score Page +
- Score Page –
- Lyrics Page +
- Lyrics Page –
- Text Viewer Page +
- Text Viewer Page –
- Song A Play/Pause
- Song B Play/Pause
- Style Start/Stop

- Tap Tempo
- Synchro Start
- Synchro Stop
- Intro 1
- Intro 2
- Intro 3
- Main A
- Main B
- Main C
- Main D
- Fill Down
- Fill Self
- Fill Break
- Fill Up
- Ending 1
- Ending 2
- Ending 3
- Fade In/Out
- Fingered/Fingered On Bass
- Bass Hold
- Percussion 1
- Percussion 2
- Percussion 3
- Right 1 Part On/Off
- Right 2 Part On/Off
- Right 3 Part On/Off
- Left Part On/Off
- One Touch Setting +
- One Touch Setting –
- One Touch Setting 1
- One Touch Setting 2
- One Touch Setting 3
- One Touch Setting 4
- Registration Sequence +
- Registration Sequence –
- Registration 1
- Registration 2
- Registration 3
- Registration 4
- Registration 5
- Registration 6
- Registration 7

- Registration 8
- Registration 9
- Registration 10
- Transpose +
- Transpose –
- Multi Pad 1
- Multi Pad 2
- Multi Pad 3
- Multi Pad 4
- Multi Pad Stop
- Song Control SP1
- Song Control SP2
- Song Control SP3
- Song Control SP4
- Song Control Loop

Note:

The GENOS offers extreme flexibility for configuring any External MIDI Controller.

You can select from a list of 95 different functions to map to 30 different CC#/Notes.

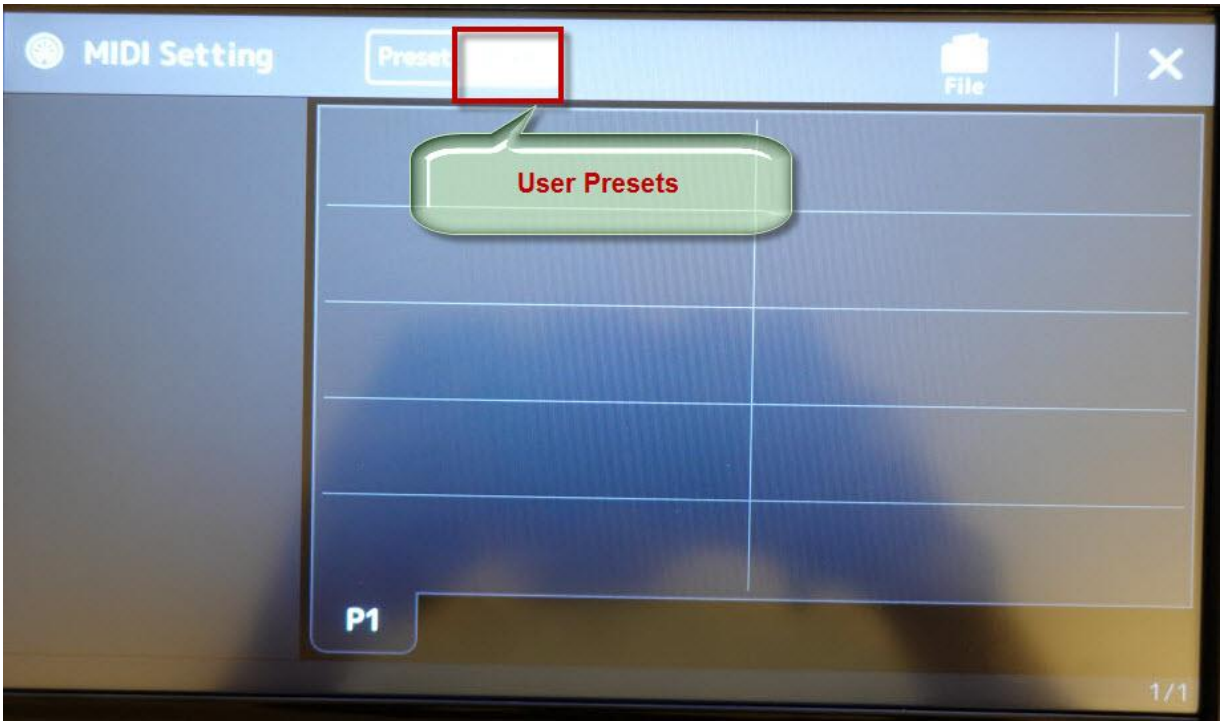
The default MIDI Template

The default MIDI Template is All Parts

There are 10 MIDI Presets:

- All Parts
- Keyboard & Style
- Master Keyboard 1
- Master Keyboard 2
- Clock External.A
- MIDI Accordion 1
- MIDI Accordion 2
- MIDI Pedal 1
- MIDI Pedal 2
- MIDI OFF

You can modify the factory presets and save them as User Presets



You can save up to 10 User Presets.

Nectar Pacer MIDI Foot Controller

Use the default mapping of the Factory Preset = All Parts

CC#	Note	MIDI Note	Default Mapping
CC 0	C# -1	13	Style Start/Stop
CC 5	D -1	14	Fill Down
CC 6	Eb -1	15	Fill Self
CC 8	E -1	16	Fill Break
CC 9	F -1	17	Fill Up
CC 10	F# -1	18	Synchro Stop
CC 11	G -1	19	Main A
CC 12	Ab -1	20	Main B
CC 13	A -1	21	Main C
CC 14	Bb -1	22	Main D
CC 15	B -1	23	Style Start/Stop
CC 16	C 0	24	Fill Down
CC 17	C# 0	25	Fill Self
CC 18	D 0	26	Fill Break
CC 19	Eb 0	27	Fill Up
CC 20	E 0	28	Synchro Stop
CC 21	F 0	29	Intro 1
CC 22	F# 0	30	Intro 2
CC 23	G 0	31	Intro 3
CC 24	Ab 0	32	Tap Temp
CC 25	A0	33	Style Start/Stop
CC 26	Bb 0	34	Fill Down
CC 27	B 0	35	Fill Self
CC 28	C 1	36	Fill Break
CC 29	C# 1	37	Fill Up
CC 30	D 1	38	Synchro Stop
CC 31	Eb 1	39	Ending 1
CC 32	E 1	40	Ending 2
CC 33	F 1	41	Ending 3
CC 34	F# 1	42	Fade In/Out

You can use either the CC# or the MIDI Note Numbers to trigger various functions.
In this tutorial you will be using the CC Numbers.

Program Preset A1

You are going to program the 10 Switches in Preset A1 with these attributes:

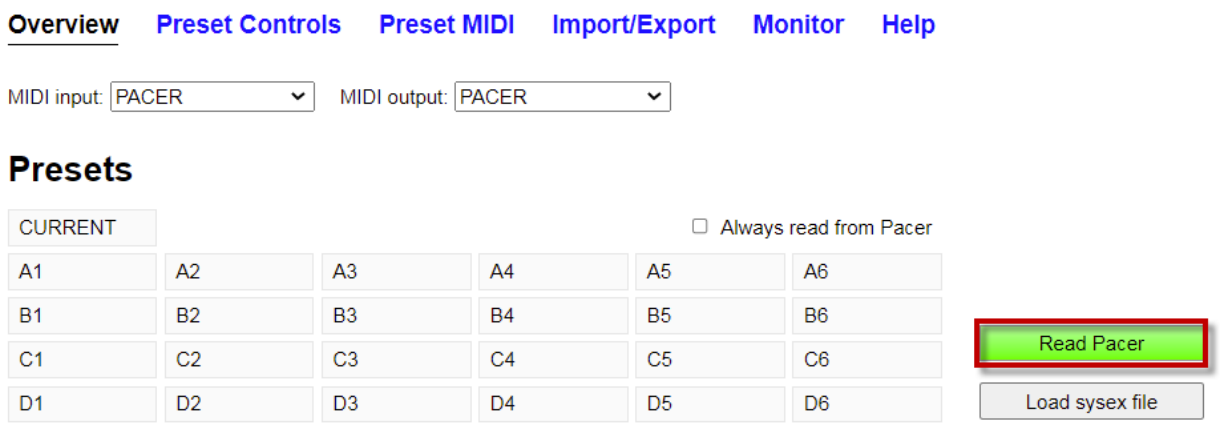
Switch	Function	CC#	LED Color
1	INTRO 2	22	Green
2	INTRO 3	23	Green
3	FILL DOWN	26	Pink
4	FILL SELF	27	Teal
5	FILL UP	29	Pink
6	FILL BREAK	28	Yellow
A	INTRO 1	21	Green
B	ENDING 1	31	Red
C	ENDING 2	32	Red
D	ENDING 3	33	Red

Launch the PACER EDITOR

Connect the Nectar Pacer to your PC using a USB cable.

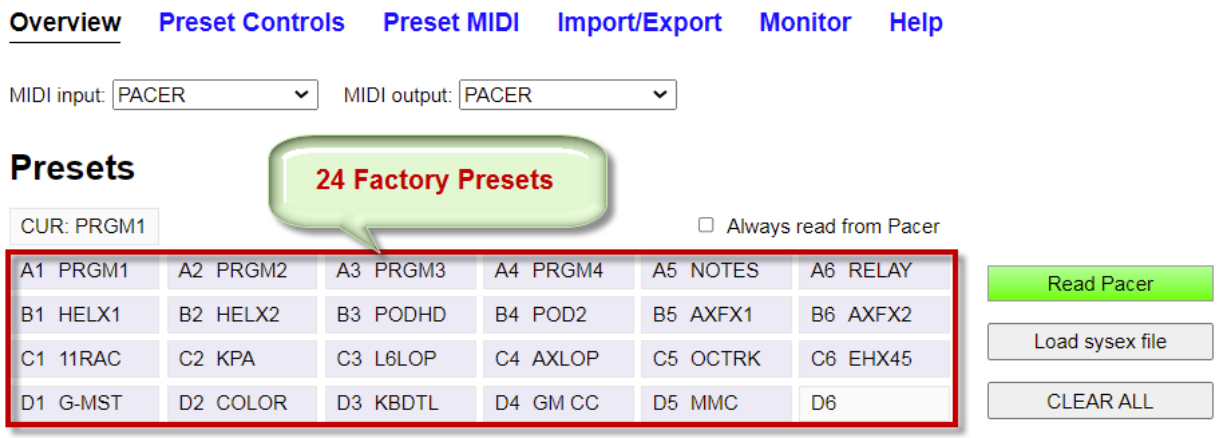
Open Chrome

https://studiocode.dev/pacer-editor/#/

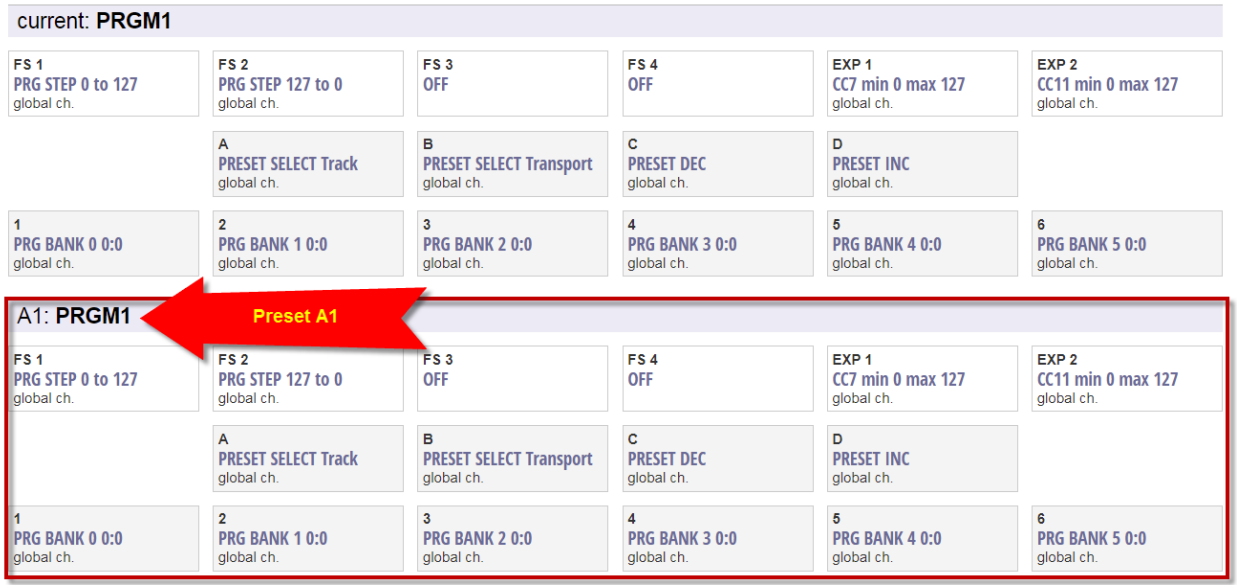


Click **Read Pacer**

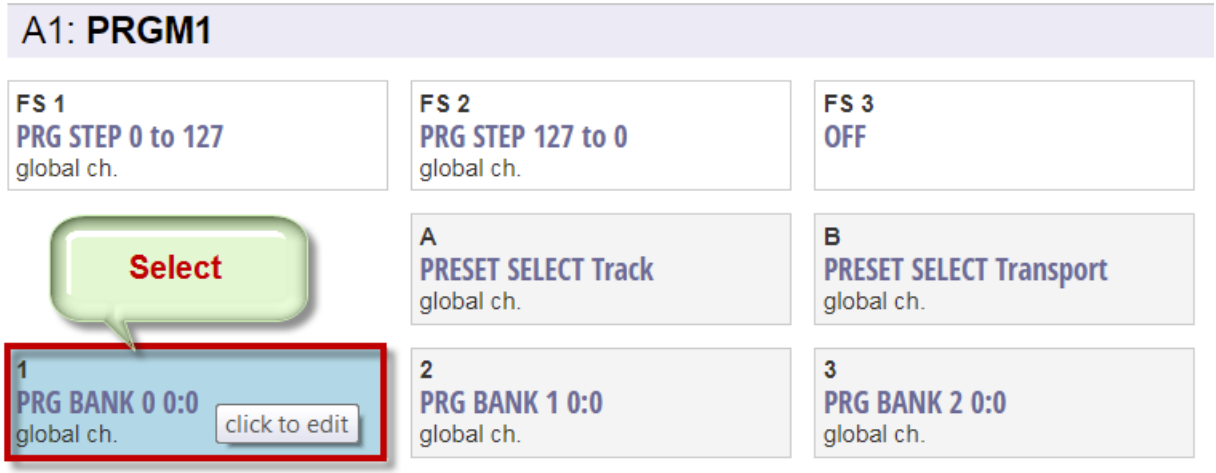
These are the 24 Factory Presets on the Pacer

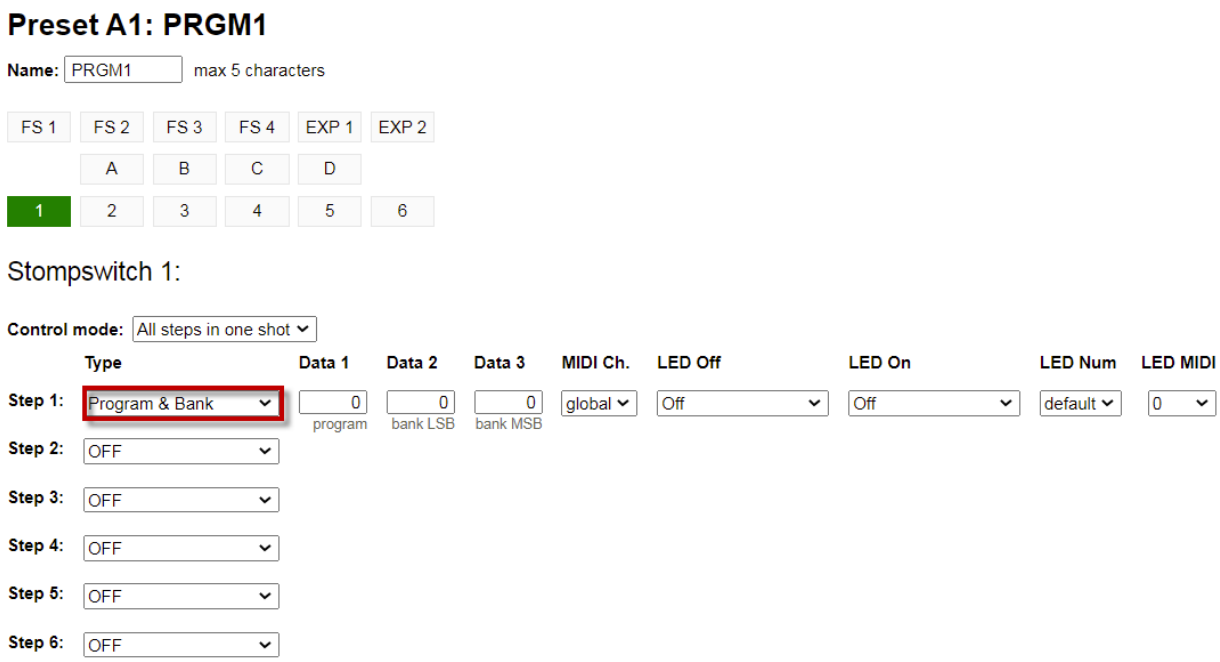


You are going to program the 10 Switches on Preset A1

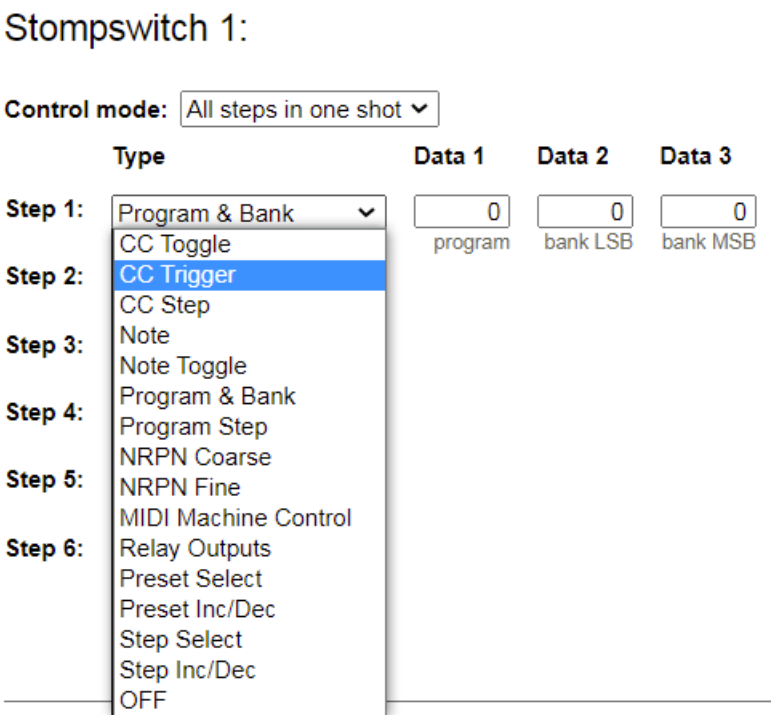


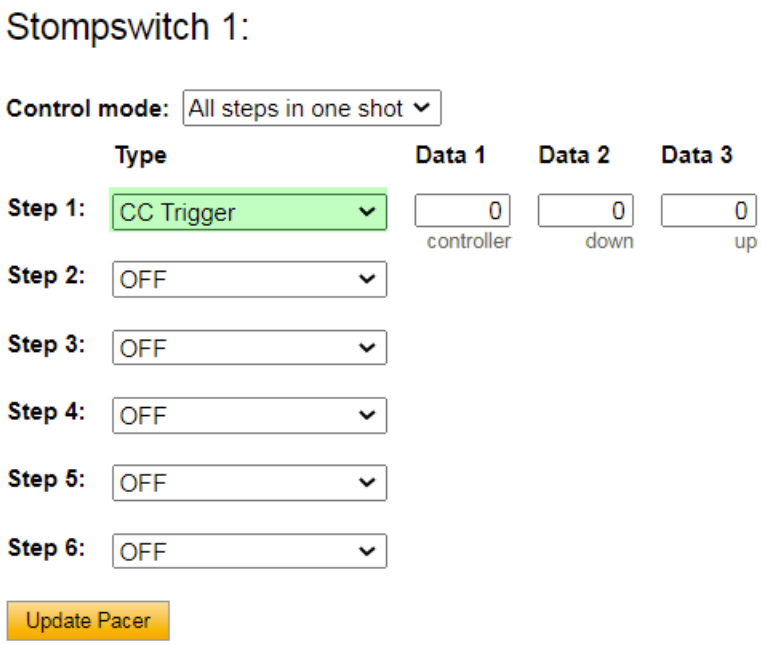
Select **Switch 1** within Preset A1





Select Step 1 = CC Trigger





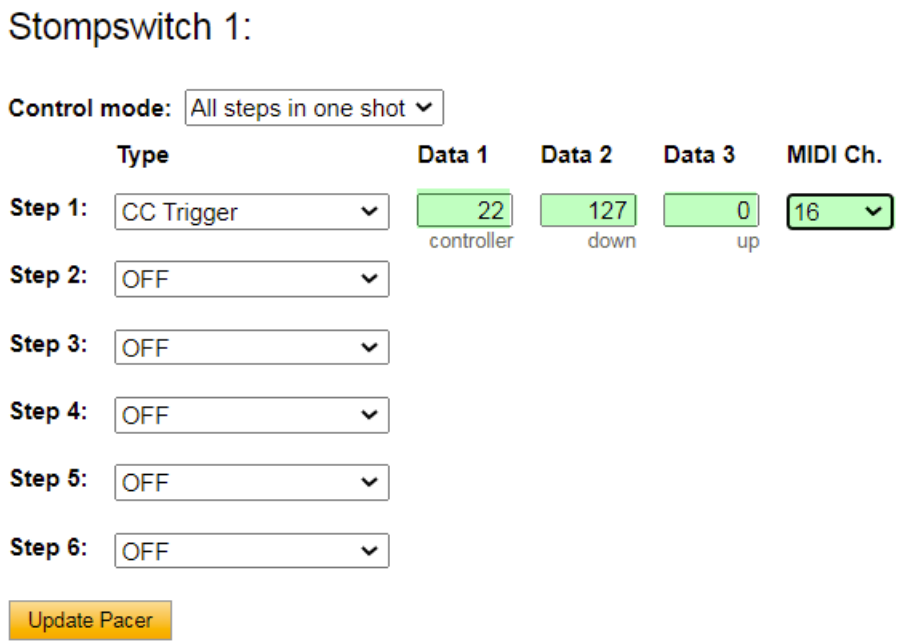
Enter:

Data 1 = 22 *(This is the Controller Number)*

Data 2 = 127 *(This is the value when the switch is down)*

Data 3 = 0 *(This is the value when the switch is up)*

MIDI Channel = 16

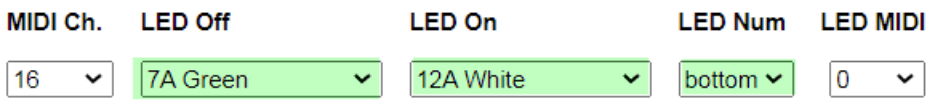


Enter:
LED Off = Green

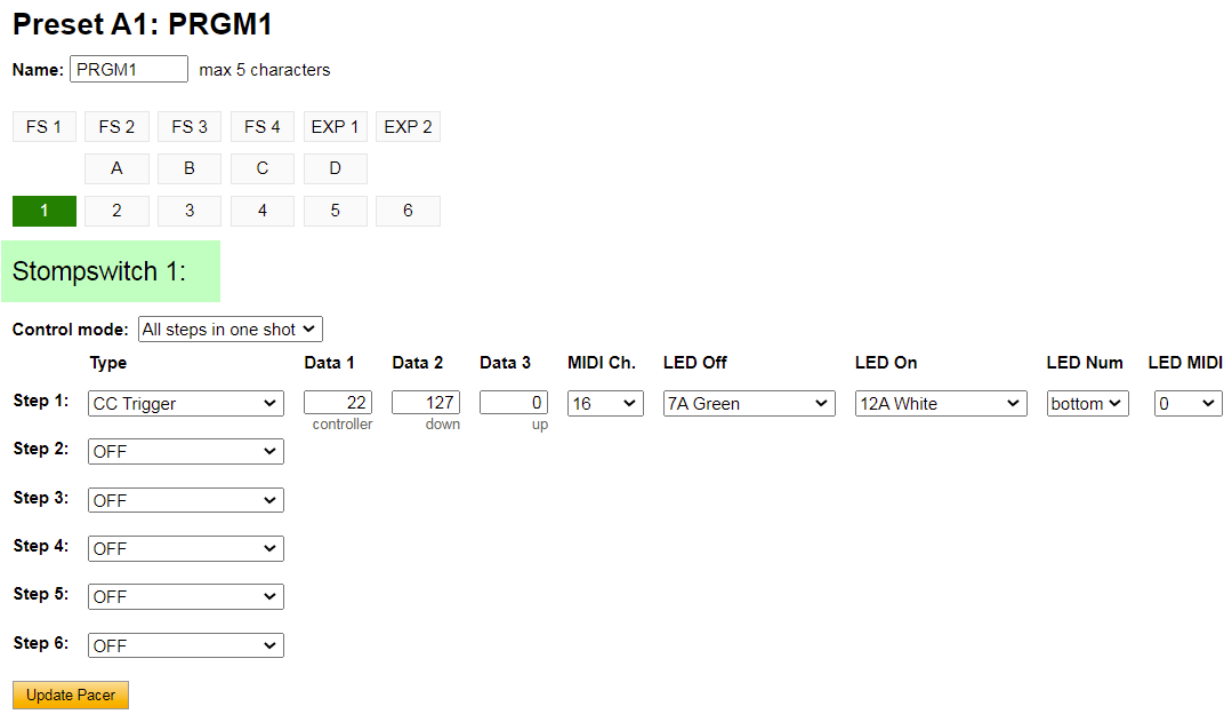
LED On = White

LED Number = Bottom

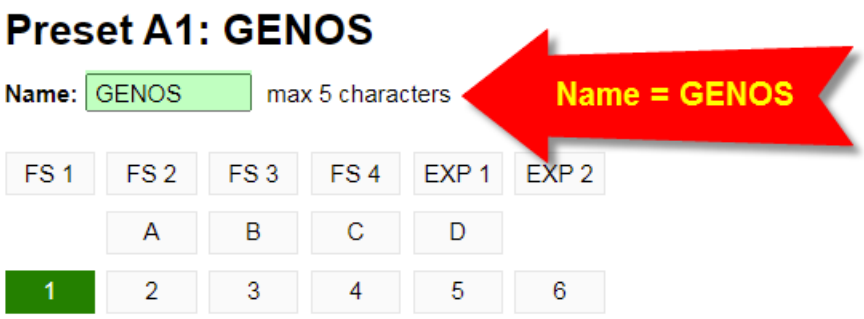
LED MIDI = 0

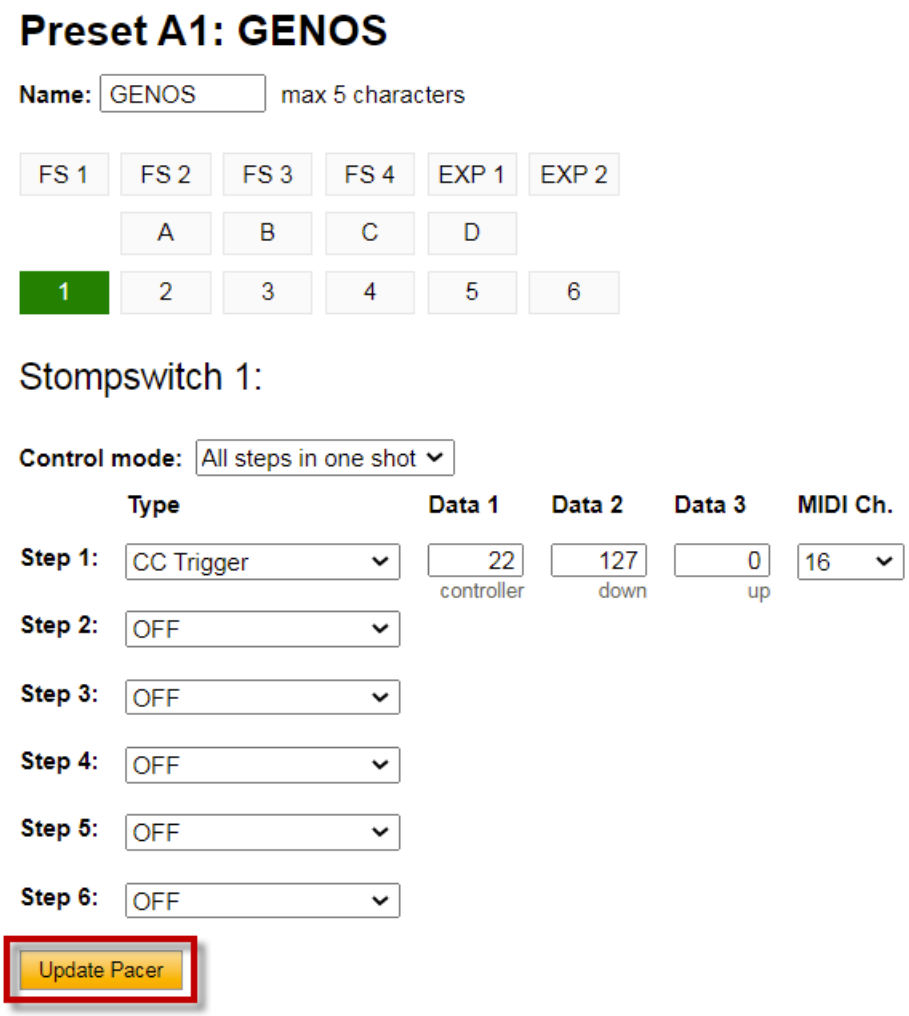


This is how the attributes for Switch 1 should appear.



Name the Preset A1 = GENOS





Press **Update Pacer**

Press the Data Knob on the Pacer twice.

The display will now read:

GENOS
A1

Press down and hold Switch 1

The display will read:

CC 022
127

This indicates the Pacer is sending Control Change 22 when switch 1 is depressed.

Release Switch 1

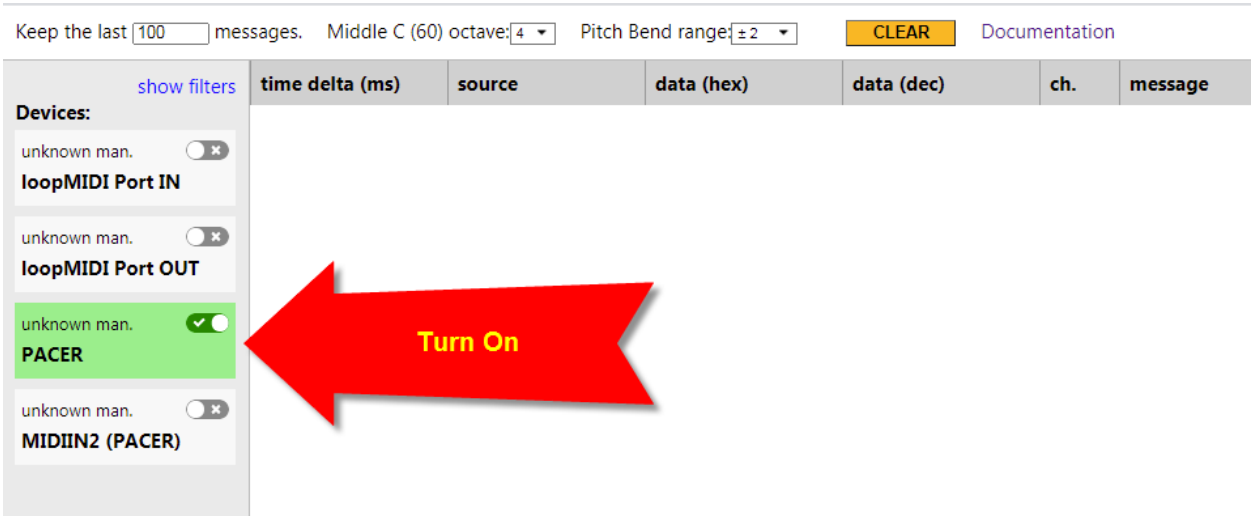
The display will read:

CC 022
000

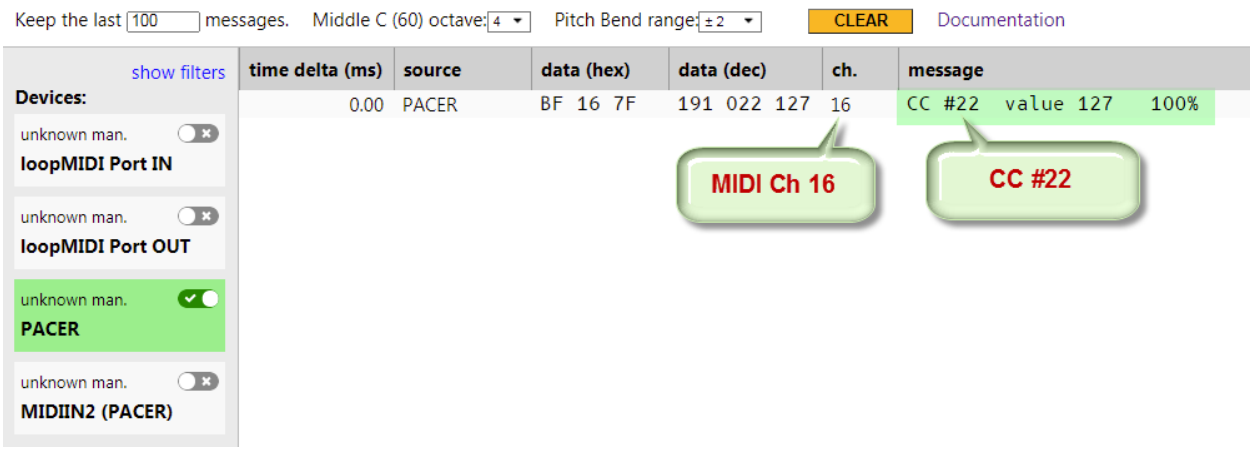
Launch the MIDI Monitor

Open Chrome:

https://studiocode.dev/midi-monitor/



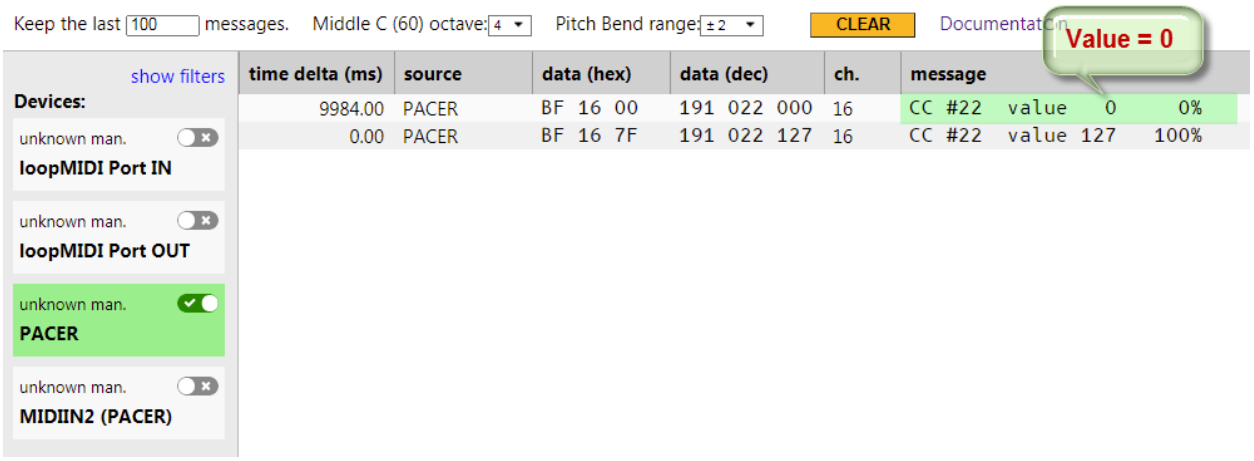
Press and hold down Switch 1



The MIDI Monitor will confirm the Pacer is sending CC #22 with a value of 127 on Channel 16.

Release Switch 1

You will see a new entry confirming that a value of 0 has been sent for CC #22 on Channel 16.



This verifies the Switch 1 is acting like a CC trigger.

Notice the color of the LED on Switch 1.

It is green.

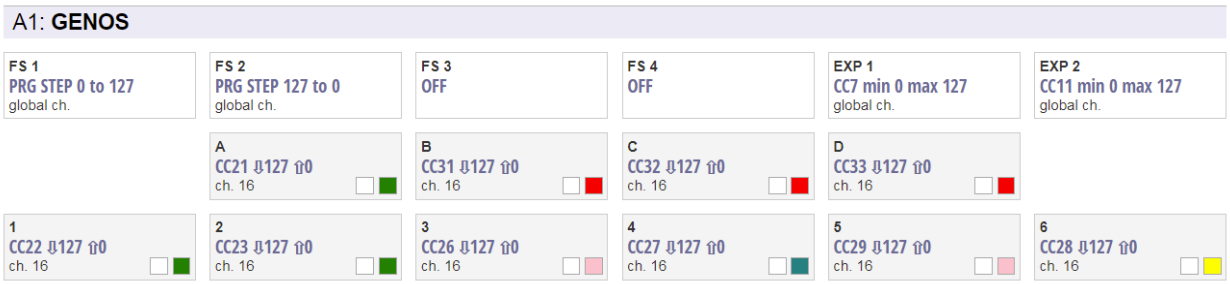
The color changes to white when you press down.

This gives you a visual cue when the switch is activated.

Program the other switches according to this table:

Switch	Function	CC#	LED Color
1	INTRO 2	22	Green
2	INTRO 3	23	Green
3	FILL DOWN	26	Pink
4	FILL SELF	27	Teal
5	FILL UP	29	Pink
6	FILL BREAK	28	Yellow
A	INTRO 1	21	Green
B	ENDING 1	31	Red
C	ENDING 2	32	Red
D	ENDING 3	33	Red

This is how Preset A1 will appear when all 10 Switches have been programmed.



Download the SysEx File

To save time, you can download the SysEx File for Preset A1.

http://davidapps.net/pacer/pacer_genos.zip

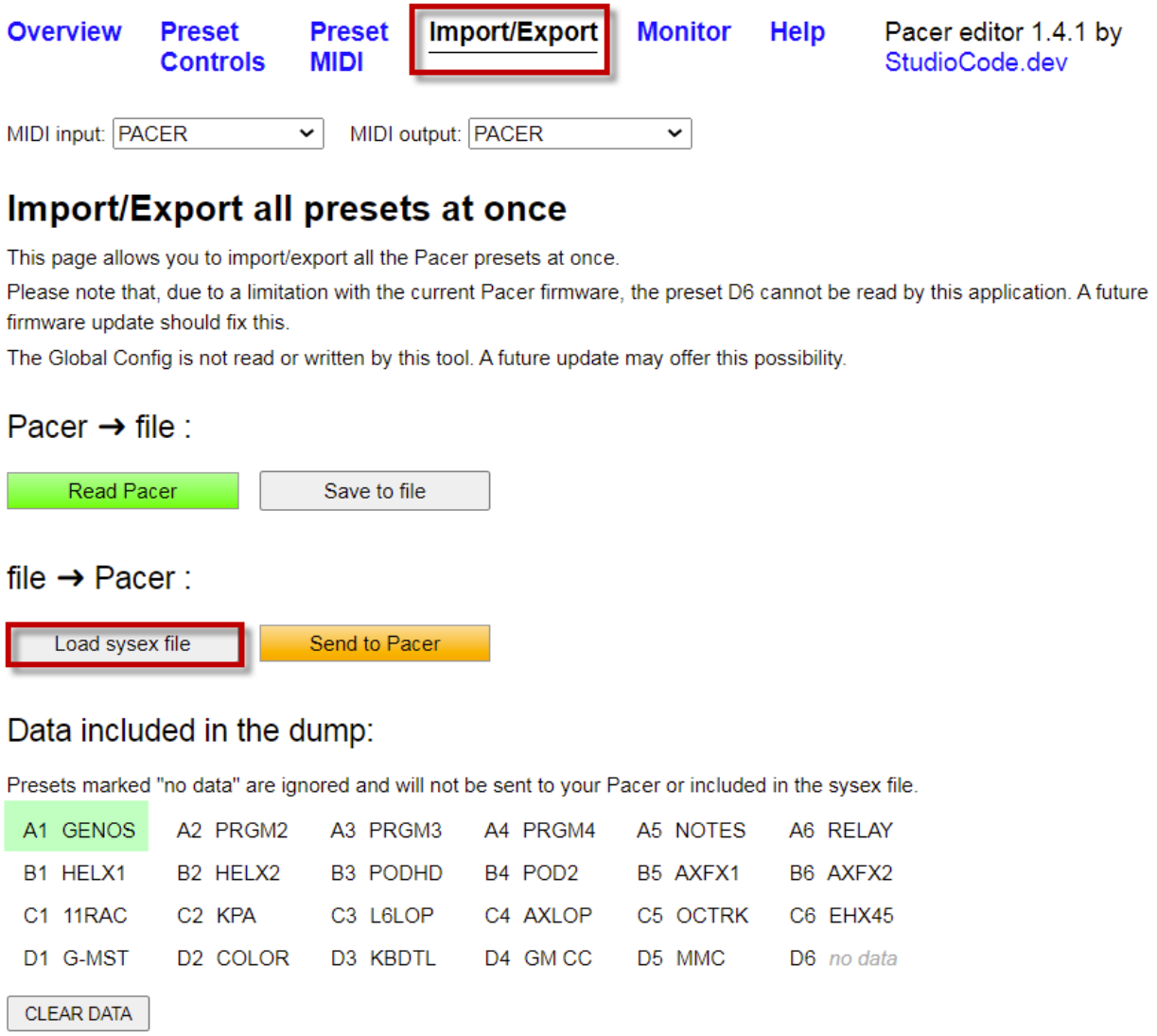
When you unzip, you will get:

Name	Date modified	Type	Size
Preset A1 Pacer + Genos.syx	5/30/2021 4:06 PM	MIDI-OX SysEx	6 KB
Preset A2 Pacer + Genos.syx	5/30/2021 4:05 PM	MIDI-OX SysEx	6 KB
Preset A3 Pacer + Genos.syx	5/30/2021 4:08 PM	MIDI-OX SysEx	6 KB
Preset A4 Pacer + Genos.syx	5/30/2021 4:09 PM	MIDI-OX SysEx	6 KB

In addition to the SysEx file for Preset A1, you will also get 3 additional SysEx files for Presets A2, A3 and A4.

Open the **Import/Export** Tab

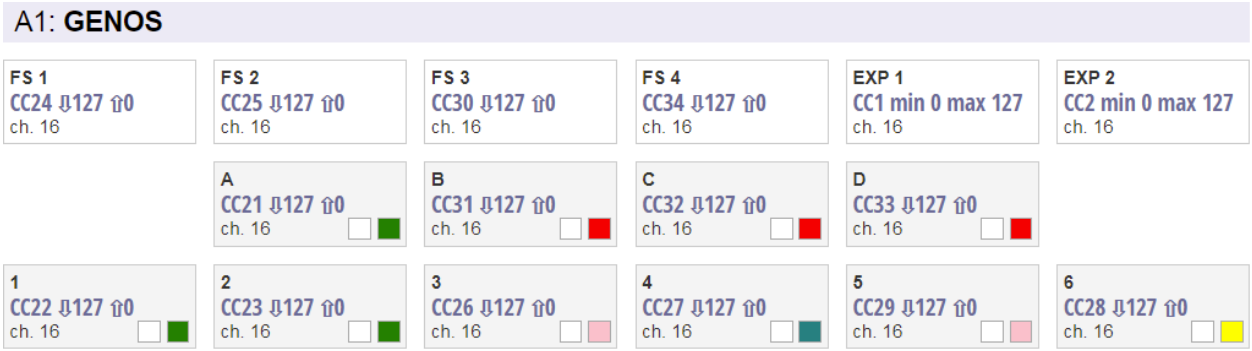
https://studiocode.dev/pacer-editor/#/patch



Load Preset A1 Pacer + Genos.syx

Then, Send to Pacer.

These are the contents of Preset A1



Here is how the 10 Switches have been mapped

Switch	Function	CC#	LED Color
1	INTRO 2	22	Green
2	INTRO 3	23	Green
3	FILL DOWN	26	Pink
4	FILL SELF	27	Teal
5	FILL UP	29	Pink
6	FILL BREAK	28	Yellow
A	INTRO 1	21	Green
B	ENDING 1	31	Red
C	ENDING 2	32	Red
D	ENDING 3	33	Red

Here is how the 4 Foot Switches have been mapped

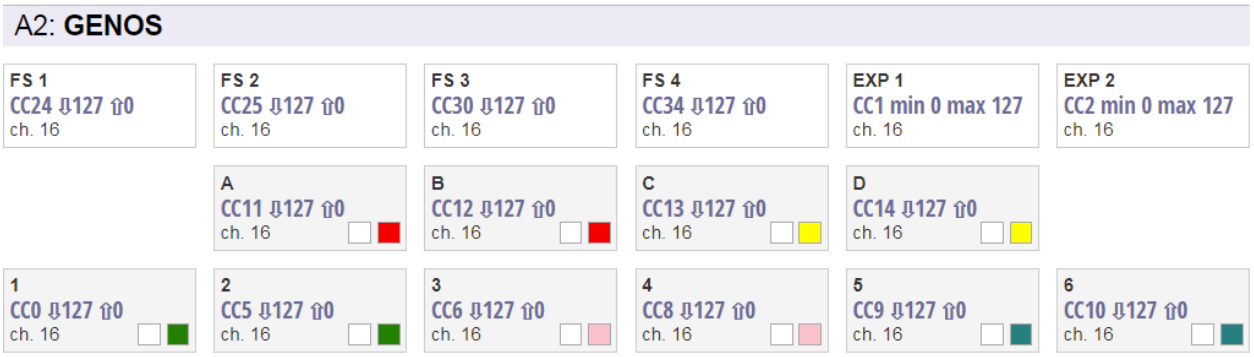
FootSwitch	Function	CC#
1	TAP TEMPO	24
2	START/STOP	25
3	SYNCHRO/STOP	30
4	FADE IN/OUT	34

Here is how the 2 Expression Pedals have been mapped

EXP	Function	CC#
1	User assigned	1
2	User assigned	2

The other 3 Presets contain the complete list of 30 Control Changes that can be used to trigger the 95 different functions.

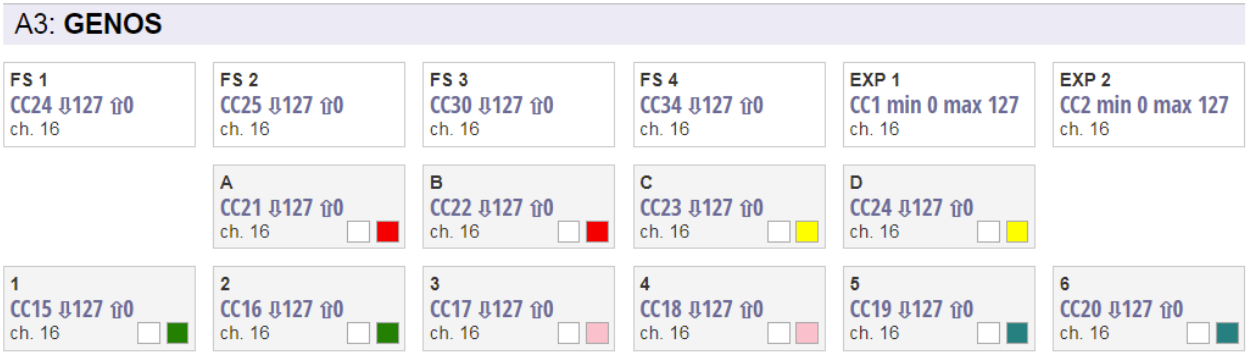
Load Preset A2 Pacer + Genos.syx



These are the factory default mappings:

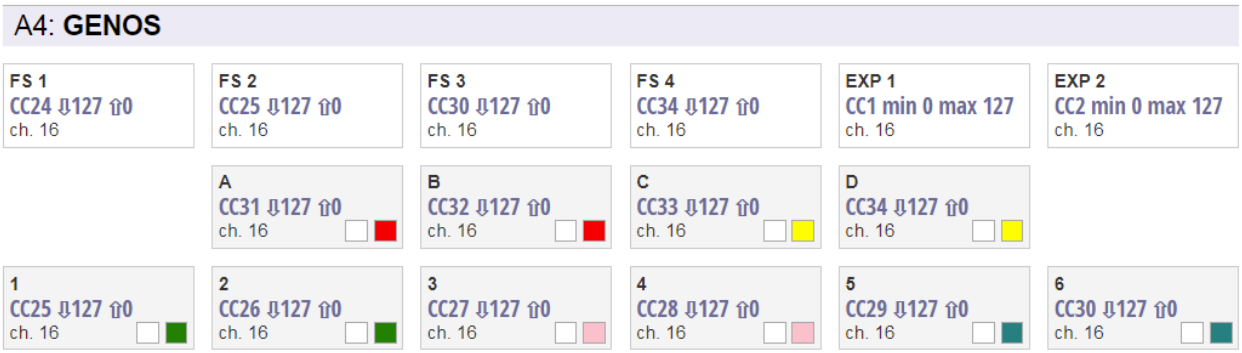
CC#	Note	MIDI Note	Default Mapping
CC 0	C# -1	13	Style Start/Stop
CC 5	D -1	14	Fill Down
CC 6	Eb -1	15	Fill Self
CC 8	E -1	16	Fill Break
CC 9	F -1	17	Fill Up
CC 10	F# -1	18	Synchro Stop
CC 11	G -1	19	Main A
CC 12	Ab -1	20	Main B
CC 13	A -1	21	Main C
CC 14	Bb -1	22	Main D

Load Preset A3 Pacer + Genos.syx



CC#	Note	MIDI Note	Default Mapping
CC 15	B -1	23	Style Start/Stop
CC 16	C 0	24	Fill Down
CC 17	C# 0	25	Fill Self
CC 18	D 0	26	Fill Break
CC 19	Eb 0	27	Fill Up
CC 20	E 0	28	Synchro Stop
CC 21	F 0	29	Intro 1
CC 22	F# 0	30	Intro 2
CC 23	G 0	31	Intro 3
CC 24	Ab 0	32	Tap Temp

Load Preset A4 Pacer + Genos.syx



CC#	Note	MIDI Note	Default Mapping
CC 25	A0	33	Style Start/Stop
CC 26	Bb 0	34	Fill Down
CC 27	B 0	35	Fill Self
CC 28	C 1	36	Fill Break
CC 29	C# 1	37	Fill Up
CC 30	D 1	38	Synchro Stop
CC 31	Eb 1	39	Ending 1
CC 32	E 1	40	Ending 2
CC 33	F 1	41	Ending 3
CC 34	F# 1	42	Fade In/Out

Note:

For all the Presets the Expression Pedal 1 is sending CC#1 values ranging from 0 to 127.

For all the Presets the Expression Pedal 2 is sending CC#2 values ranging from 0 to 127.

Preset A1 = GENOS

This is how the colored LEDs will appear once you have programmed Preset A1

The 3 INTRO switches light up in Green.

The 3 ENDING switches light up in Red.

The BREAK switch lights up in Yellow.

The FILL UP/DOWN switches light up in Pink

The FILL SELF switch lights up in Teal.

The colored LEDs help to easily identify the switches.

Using an AC Adapter

The Nectar Pacer does not come with an AC Adapter. The reason being, it draws its power from the USB 2.0 cable.

You can run the Pacer without a Computer by using an AC Adapter having the following specs:

- DC 9V
- 600mA
- Center Negative
- 2.1mm barrel connector

The Boss PSA-120S Power Adapter is an excellent choice. However, it is expensive.

https://www.amazon.com/R-O-L-PSA-120S-Adapter/dp/B0012BPMHW/

$39.99

A far more economical option is to buy the **SoulBay 12W Universal AC/DC Adapter**

https://www.amazon.com/SoulBay-Universal-Reversible-Compatible-Electronics/dp/B087FYRG9K

$14.90

SoulBay 12W Universal AC Adapter Reversible Polarity Multi Voltage DC Power Supply, with 9pcs Adaptor Tips, Compatible with 3V to 12V Household Electronics, 1.2Amp Output

Visit the SoulBay Store

136 ratings

It comes with 8 different reversible TIPS.

Use the one that is 2.1mm in diameter and 5mm in length

Make sure you set the voltage dial to 9V and adjust the TIP so that the CENTER is NEGATIVE

This works flawlessly with the Nectar Pacer MIDI Foot Controller.

Connecting the Pacer to the GENOS

You have programmed Preset A1 to transmit the Control Change Messages on MIDI Channel 16.

Connect the Pacer to the MIDI IN B Port of the GENOS with a MIDI cable.

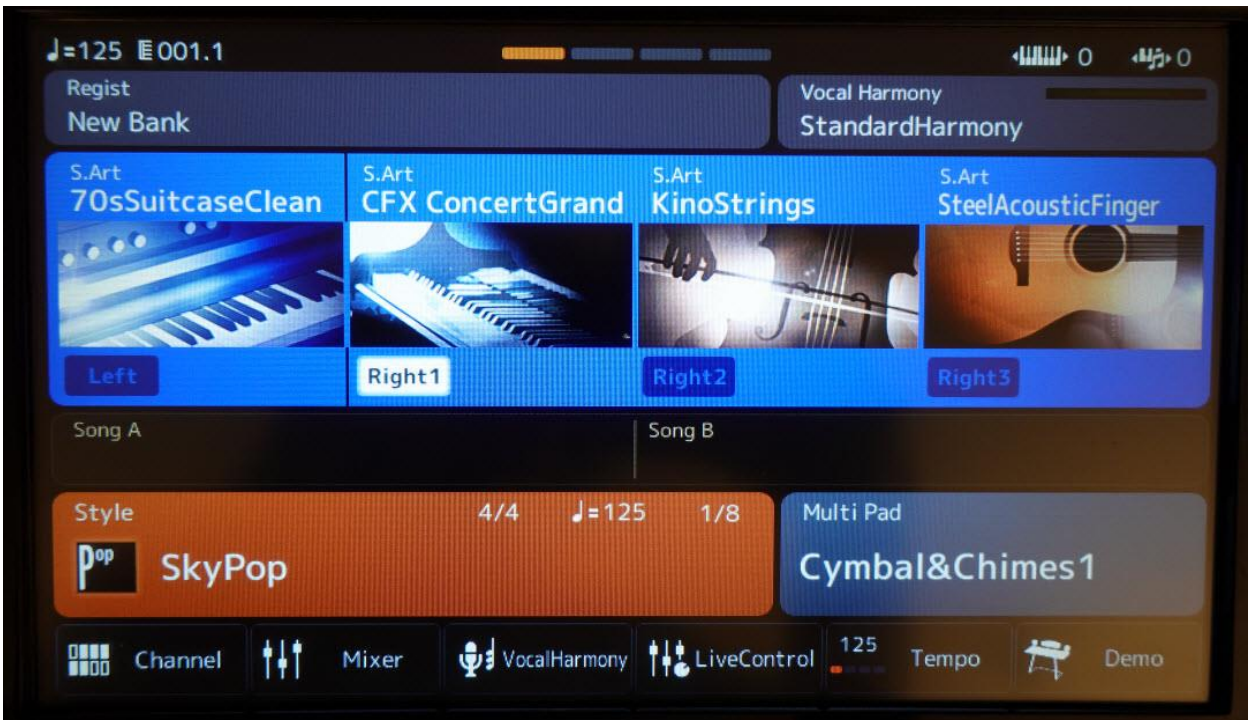
Connect the AC adapter to the Pacer. Turn on the power.

Make sure the display reads:

GENOS
A1

Next, turn on the GENOS.

This is what the display will show:



Make sure the GENOS is set to receive MIDI commands from an External MIDI Controller on MIDI IN Port B on MIDI Channel 16.

MENU | Menu 2 | MIDI | External Controller

This is how the buttons will light up when you first turn on the GENOS.

Activate the following 3 buttons:

- ACMP
- OTS LINK
- AUTO FILL IN

Make sure the **SYNC START** button is engaged.

Press **Switch 1** on the Pacer.

This will activate **INTRO 2**

Play a chord to start INTRO 2.

Try out the other switches to engage the following functions:

Switch	Function
1	INTRO 2
2	INTRO 3
3	FILL DOWN
4	FILL SELF
5	FILL DOWN
6	BREAK
A	INTRO 1
B	ENDING 1
C	ENDING 2
D	ENDING 3

Connecting Expression Pedals to the Pacer

You can connect 2 Expression Pedals to the Nectar Pacer.

The Yamaha FC7 Expression Pedals are ideal for this purpose.

https://www.bhphotovideo.com/c/product/162244-REG/Yamaha_FC7_FC7_Volume_Control.html

Load Preset A1 Pacer + Genos.syx

Connect two Yamaha FC7 Expression Pedals to the Pacer.

Expression Pedal 1 is programmed to send CC#1 values ranging from 0 to 127

Expression Pedal 2 is programmed to send CC#2 values ranging from 0 to 127

When you operate the pedals nothing will happen!

This is because you have not yet assigned any functions to CC#1 and CC#2 on the GENOS yet.

Click on CC#1

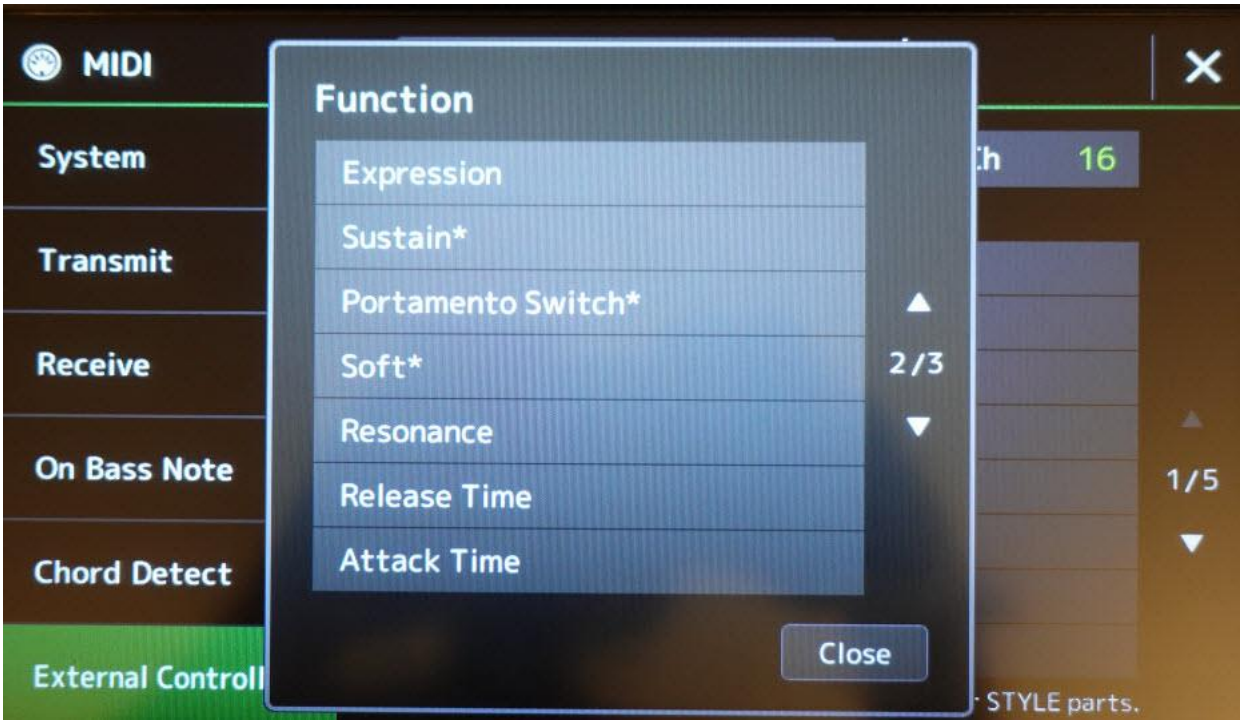
You will see a list of all the Functions you can assign to CC#1

They span over 3 pages.

Page 1

- No Assign
- Modulation
- Breath Controller
- Foot Controller
- Portamento Time
- Volume
- Pan

Page 2



- Expression
- Sustain
- Portamento Switch
- Soft
- Resonance
- Release Time
- Attack Time

Page 3

- Cutoff
- Reverb Send
- Chorus Send

Here is a list of 16 Functions that you can assign to CC#7, CC#1, CC#2, CC#3, CC#4

- No Assign
- Modulation
- Breath Controller
- Foot Controller
- Portamento Time
- Volume
- Pan
- Expression
- Sustain
- Portamento Switch
- Soft
- Resonance
- Release Time
- Attack Time
- Cutoff
- Reverb Send
- Chorus Send

The GENOS offers wide flexibility in the ways you can configure your external MIDI Controller.

You can simultaneously use up to 5 Expression Pedals to control any of the 16 Functions listed above if your external MIDI controller supports them.

Assign PAN to CC#1

Assign Volume to CC#2

Notice how the Right 1 Voice Pans as you operate Expression Pedal 1.

Notice how the Volume of the Right 1 Voice changes as you operate Expression Pedal 2.

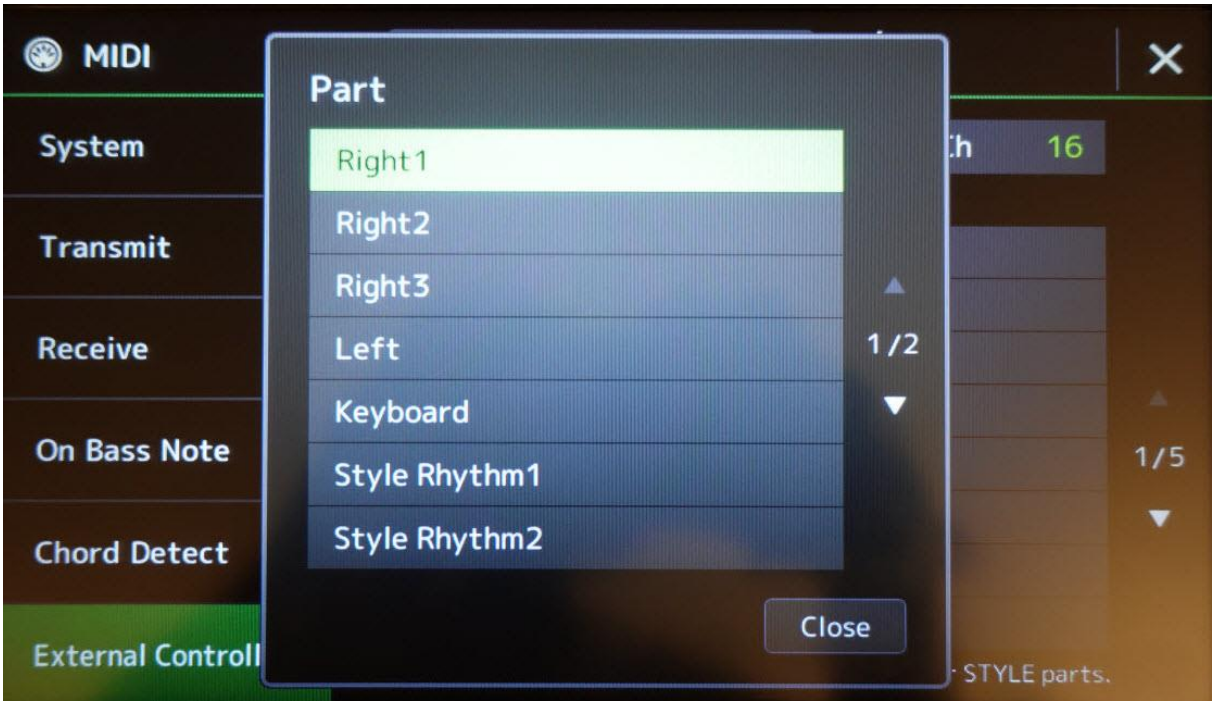
You are free to assign any of the 16 Functions and experiment what works best for you.

You can also change the scope of what gets affected by Expression Pedals 1 and 2.

At the moment, Expression Pedals 1 and 2 are affecting the **Right 1 Voice**

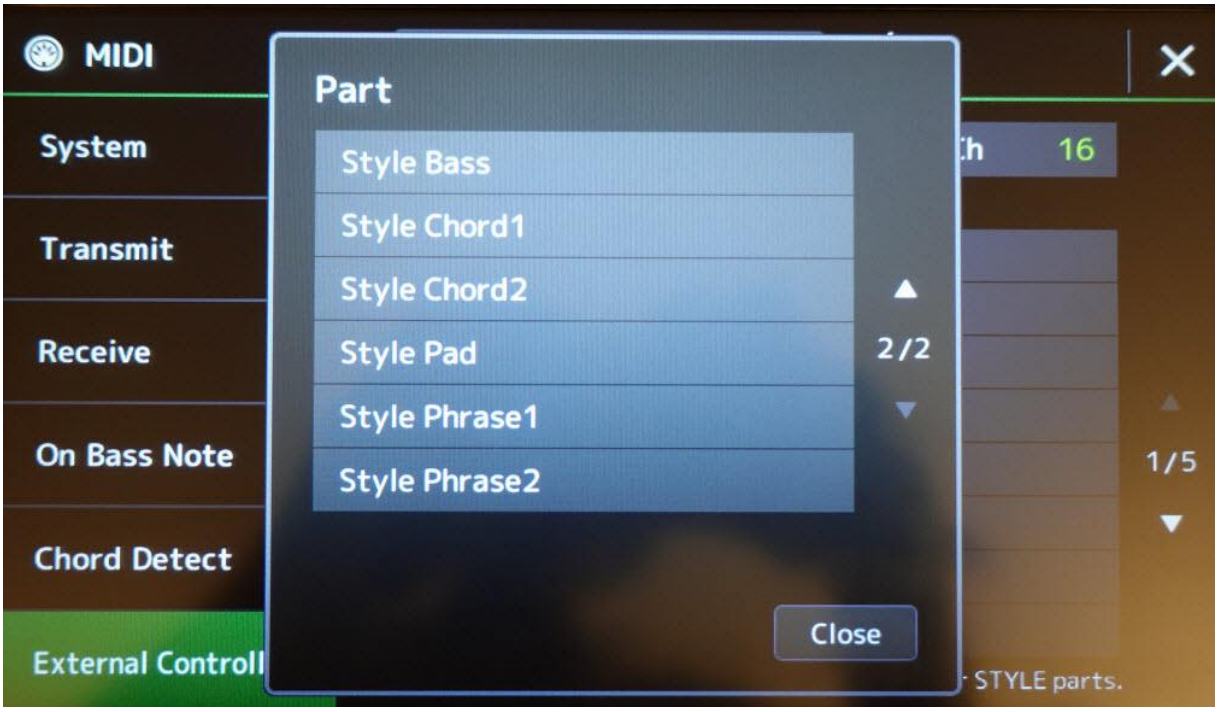
You can specify what gets affected.

Page 1



- Right 1
- Right 2
- Right 3
- Left
- Keyboard
- Style Rhythm 1
- Style Rhythm 2

Page 2



- Style Bass
- Style Chord 1
- Style Chord 2
- Style Pad
- Style Phrase 1
- Style Phrase 2

These are all the Parts you can control with your Expression Pedals.

- Right 1
- Right 2
- Right 3
- Left
- Keyboard
- Style Rhythm 1
- Style Rhythm 2
- Style Bass
- Style Chord 1
- Style Chord 2
- Style Pad
- Style Phrase 1
- Style Phrase 2

You can hook up 5 Expression Pedals transmitting Control Change Numbers 1, 2, 3, 4 and 7.

This is in addition to the 30 Pedals you can connect to control 95 different functions.

If you want to disengage the Expression Pedals, simply set the Functions of CC#1 and CC#2 to **No Assign** as shown here:

Connecting Foot Switches to the Pacer

You can connect 4 Foot Switches to the Pacer.

The M-Audio SP-2 Universal Sustain Pedals works best for this purpose.

https://www.bhphotovideo.com/c/product/351642-REG/M_Audio_9900_50805_00_SP_2_Universal_Keyboard.html

The Preset is programmed to trigger the following functions on the 4 Foot Switches:

Foot Switch	Function	CC#
1	Tap Tempo	24
2	Start/Stop	25
3	Synchro Stop	30
4	Fade In/Out	34

Note:

You are free to remap the functions any way you see fit and save your custom map to a User Preset.

Summary

You can access the External Controller Settings by navigating to:

MENU | Menu 2 | MIDI |External Controller

You can use up to 5 Expression Pedals simultaneously to control these 16 Functions:

- No Assign
- Modulation
- Breath Controller
- Foot Controller
- Portamento Time
- Volume
- Pan
- Expression
- Sustain
- Portamento Switch
- Soft
- Resonance
- Release Time
- Attack Time
- Cutoff
- Reverb Send
- Chorus Send

You can specify the scope by selecting the Part you wish to control:

- Right 1
- Right 2
- Right 3
- Left
- Keyboard
- Style Rhythm 1
- Style Rhythm 2
- Style Bass
- Style Chord 1
- Style Chord 2
- Style Pad
- Style Phrase 1
- Style Phrase 2

You can use up to 30 Pedals simultaneously to control these 95 different functions.

- No Assign
- Sustain
- Sostenuto
- Soft
- Portamento
- Modulation (Alt) Right 1
- Modulation (Alt) Right 2
- Modulation (Alt) Right 3
- Modulation (Alt) Left
- Articulation 1 Right 1
- Articulation 1 Right 2
- Articulation 1 Right 3
- Articulation 1 Left
- Articulation 2 Right 1
- Articulation 2 Right 2
- Articulation 2 Right 3
- Articulation 2 Left
- Articulation 3 Right 1
- Articulation 3 Right 2
- Articulation 3 Right 3
- Articulation 3 Left
- Effect Right 1
- Effect Right 2
- Effect Right 3
- Effect Left
- Effect Mic
- Keyboard Harmony/Arpeggio On/Off
- Vocal Harmony On/Off
- Vocal Harmony Effect On/Off
- Talk
- Score Page +
- Score Page –
- Lyrics Page +
- Lyrics Page –
- Text Viewer Page +
- Text Viewer Page –
- Song A Play/Pause
- Song B Play/Pause

- Style Start/Stop
- Tap Tempo
- Synchro Start
- Synchro Stop
- Intro 1
- Intro 2
- Intro 3
- Main A
- Main B
- Main C
- Main D
- Fill Down
- Fill Self
- Fill Break
- Fill Up
- Ending 1
- Ending 2
- Ending 3
- Fade In/Out
- Fingered/Fingered On Bass
- Bass Hold
- Percussion 1
- Percussion 2
- Percussion 3
- Right 1 Part On/Off
- Right 2 Part On/Off
- Right 3 Part On/Off
- Left Part On/Off
- One Touch Setting +
- One Touch Setting –
- One Touch Setting 1
- One Touch Setting 2
- One Touch Setting 3
- One Touch Setting 4
- Registration Sequence +
- Registration Sequence –
- Registration 1
- Registration 2
- Registration 3
- Registration 4
- Registration 5
- Registration 6

- Registration 7
- Registration 8
- Registration 9
- Registration 10
- Transpose +
- Transpose –
- Multi Pad 1
- Multi Pad 2
- Multi Pad 3
- Multi Pad 4
- Multi Pad Stop
- Song Control SP1
- Song Control SP2
- Song Control SP3
- Song Control SP4
- Song Control Loop

You can trigger these functions either by sending a Control Change Number or a MIDI Note Number.

You need to specify the MIDI Port and MIDI Channel.

Here is the default CC# and MIDI Note pairings for the Factory Preset = All Parts.

CC#	Note	MIDI Note	Default Mapping
CC 0	C# -1	13	Style Start/Stop
CC 5	D -1	14	Fill Down
CC 6	Eb -1	15	Fill Self
CC 8	E -1	16	Fill Break
CC 9	F -1	17	Fill Up
CC 10	F# -1	18	Synchro Stop
CC 11	G -1	19	Main A
CC 12	Ab -1	20	Main B
CC 13	A -1	21	Main C
CC 14	Bb -1	22	Main D
CC 15	B -1	23	Style Start/Stop
CC 16	C 0	24	Fill Down
CC 17	C# 0	25	Fill Self
CC 18	D 0	26	Fill Break
CC 19	Eb 0	27	Fill Up
CC 20	E 0	28	Synchro Stop
CC 21	F 0	29	Intro 1
CC 22	F# 0	30	Intro 2
CC 23	G 0	31	Intro 3
CC 24	Ab 0	32	Tap Tempo
CC 25	A0	33	Style Start/Stop
CC 26	Bb 0	34	Fill Down
CC 27	B 0	35	Fill Self
CC 28	C 1	36	Fill Break
CC 29	C# 1	37	Fill Up
CC 30	D 1	38	Synchro Stop
CC 31	Eb 1	39	Ending 1
CC 32	E 1	40	Ending 2
CC 33	F 1	41	Ending 3
CC 34	F# 1	42	Fade In/Out

You are free to create your own map and save your custom MIDI template as a User Preset.

You can create up to 10 User Presets.

Last Revised: 5/30/2021