

Function	CC #	Global	Parm Range	Value	Addr Offset (L/U)	
Glide/Porta Speed	05		0-127	0-254	45/81	
Osc1 Waveform	14		0-127	0-4	55/91	(1 of 4
wavefrms or Osc2PWM)						ring mod is sep
Osc1 PW	15		0-127	0-254	43/7F	
Osc1 Footage	16		0-127	1'-16'	53/8F	
Osc1 Transpose	17		0-127	0-254	47/83	
Osc1 Ring Mod Enab	18		0-127	0,1	5D.7/99.7	
Osc1 Mix Vol	19		0-127	0-15	49/85	
Osc2 Waveform	20		0-127	0-4	56/92	(1 of 4
wavefrms or Osc1PWM)						ring mod is sep
Osc2 PW	21		0-127	0-254	44/80	
Osc2 Detune Amt	22		0-127	0-254	38/74	
Osc2 Footage	23		0-127	1'-16'	54/90	
Osc2 Transpose	24		0-127	0-254	48/84	
Osc2 Ring Mod Enab	25		0-127	0,1	5D.6/99.6	
Osc2 Mix Vol	26		0-127	0-15	4A/86	
Noise Vol	27		0-127	0-254	4B/87	
Noise Enables	28		0-127	0-2	5F.6,7/9B.6,7	
(off,white,pink)						
VCF Mode	29		0-127	0-3	58/94	
VCF Env Amt	30		0-127	0-254	3F/7B	
VCF Keytrk Amt	31		0-127	0-254	3E/7A	
VCF Env Attack	32		0-127	0-254	4C/88	
VCF Env Decay	33		0-127	0-254	4E/8A	
VCF Env Sustain	34		0-127	0-254	40/7C	
VCF Env Release	35		0-127	0-254	50/8C	
VCF Env Invert	36		0-127	0-254	5B.6/97.6	
VCA Env Decay	37		0-127	0-254	4F/8B	
VCA Env Sustain	38		0-127	0-254	41/7D	
LFO Freq	39		0-127	0-254	3B/77	
LFO Delay	40		0-127	0-254	3C/78	
LFO Waveform	41		0-127	0,1,2	57/93	
LFO Depth A	42		0-127	0-254	39/75	
LFO Depth B	43		0-127	0-254	3A/76	
LFO to Osc1 Frq	44		0-127	0,1	52.0/8E.0	
LFO to Osc2 Frq	45		0-127	0,1	52.1/8E.1	
LFO to Osc1 PW	46		0-127	0,1	52.2/8E.2	
LFO to Ampl	47		0-127	0,1	52.3/8E.3	
LFO to Filt	48		0-127	0,1	52.4/8E.4	
LFO to Osc2 PW	49		0-127	0,1	52.5/8E.5	
Chorus Mode	50		0-127	0,1,2,3	59/95	
Glide On/Off	51		0-127	0,1	5A.6/96.6	
Osc1 Glide/Port	52		0-127	0,1	5C.6/98.6	
Osc2 Glide/Port	53		0-127	0,1	5C.7/98.7	
Glide Amt	54		0-127	0-254	46/82	
Osc2 Sync Enab	55		0-127	0,1	5B.7/97.7	
Damper Pedal	--	64	0-127			
Porta On/Off	65		0-127	0,1	5A.7/96.7	
VCF Resonance	71		0-127	0-254	42/7E	
VCA Env Release	72		0-127	0-254	51/8D	
VCA Env Attack	73		0-127	0-254	4D/89	

VCF Cutoff	74	0-127	0-254	3D/79
Osc LFO amt	77	0-127	0-254	39/75 (Depth A)

Use selected MIDI channel for Upper notes (all notes in Dual mode) and parms
 Channel + 1 for lower notes and parms
 All parameters need range of 0-127 for MIDI control. Even on/off ones.
 On/Off Parms: 0-63 off, 64-127 on
 Three-valued parms: 0-41 first value, 42-73 second, 74-127 third
 Addr Offset shows locations in Synthex RAM where this value is stored for upper
 and lower programs. It is not used for CC control, just shown for completeness.

Some examples for specific CC's: (values in hex, n is middle channel code)

```
Osc1 Tri      Bn 0E 00
Osc1 Saw      Bn 0E 10
Osc1 Squ      Bn 0E 20
Osc1 Pls      Bn 0E 30
Osc1 PWM      Bn 0E 40
Osc1 Ring On  Bn 12 48
Osc1 Ring Off Bn 12 00
Osc2 Tri      Bn 14 00 (use same values as osc 1)
Osc2 Ring On  Bn 19 48
White noise On Bn 1C 21
White noise Off Bn 1C 00
Pink noise On  Bn 1C 41
Pink noise Off Bn 1C 00
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```
LFO Osc1 Freq On  Bn 2C 50
LFO Osc1 Freq Off Bn 2C 05
LFO Osc2 Freq On  Bn 2D 50
LFO Osc2 Freq Off Bn 2D 05
LFO Osc1 PW On   Bn 2E 50
LFO Osc1 PW Off  Bn 2E 05
LFO Osc2 PW On   Bn 31 50
LFO Osc2 PW Off  Bn 31 05
LFO Filt On      Bn 30 50
LFO Filt Off     Bn 30 05
LFO Ampl On      Bn 2F 50
LFO Ampl Off     Bn 2F 05
```

```
VCF LP  Bn 1D 05
VCF BP1 Bn 1D 21
VCF BP2 Bn 1D 41
VCF HP  Bn 1D 61
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```
VCF Env Pol Bn 24 05 / Bn 24 50
Glide Bn 33 50 / Bn 33 05
Port Bn 41 50 / Bn 41 05
Osc1 G/P Bn 34 50 / Bn 34 05
Osc2 G/P Bn 35 50 / Bn 35 05
```

More Synthex MIDI-related information:

Sending Note On multiple times for the same note

assigns it to multiple voices. Each Note Off for that note turns off one of the voices.

Sending any of these:

Bn 7B xx

Bn 7C xx

Bn 7D xx

Bn 7E xx

Bn 7F xx

will turn off the most recent MIDI note. I believe these should actually perform "All notes off" but they don't seem to.