

MIDI CC Number	MIDI CC Usual Purpose	MIDI CC Usual Purpose Description	Laplace	Mersenne
0	Bank Select (MSB)	Changes to a new bank of instruments if possible.		
1	Modulation Wheel (MSB)	Sends a command to add modulation (vibrato) to the current sound.	Vibrato	
2	Breath Controller (MSB)	Sends a control from a breath device.		
3	Undefined (MSB)	-		A-Pitch (52-76)
4	Foot Controller (MSB)	Sends a control from a foot pedal device.		A-Octave -1 Off/On
5	Portamento Time (MSB)	Controls portamento rate to slide between 2 notes played subsequently.	Glide (Instrument)	Glide (Instrument)
6	Data Entry (MSB)	Controls Value for NRPN or RPN parameters.		
7	Channel Volume (MSB)	Controls the main volume of a channel.	Volume (Instrument)	Volume (Instrument)
8	Balance (MSB)	Controls the stereo balance. 0 = hard left, 64 = center, 127 = hard right		A-Detune
9	Undefined (MSB)	-	Velocity	A-P ENV
10	Pan (MSB)	0 = hard left, 64 = center, 127 = hard right		A-P ENV Decay
11	Expression (MSB)	Expression is a percentage of volume (CC7).	Level (Patch)	Level (Patch)
12	Effect Control 1 (MSB)	Controls some aspect of the MIDI unit's effects.		A-P LFO
13	Effect Control 2 (MSB)	Controls an alternate aspect of the unit's effects.		A-LFO Rate
14	Undefined (MSB)	-	Click Pitch	A-SUS Hardness
15	Undefined (MSB)	-	Click Stiffness	A-SUS Velocity
16	General Purpose 1 (MSB)	Programmable on most units.	Click Velocity	A-SUS LFO
17	General Purpose 2 (MSB)	Programmable on most units.	Click KEY	A-SUS Color
18	General Purpose 3 (MSB)	Programmable on most units.	Click Color	A-ATT Hardness
19	General Purpose 4 (MSB)	Programmable on most units.	Click Decay	A-ATT Velocity
20	Undefined (MSB)	-	Click Damper Noise	A-ATT Attack
21	Undefined (MSB)	-	Exciter Mix	A-ATT Decay
22	Undefined (MSB)	-	Noise LPF Freq	A-ATT Color
23	Undefined (MSB)	-	Noise ENV	A-Attack
24	Undefined (MSB)	-	Noise Velocity	A-Decay
25	Undefined (MSB)	-	Noise KEY	A-Damper
26	Undefined (MSB)	-	Noise Resonance	A-Level
27	Undefined (MSB)	-	Noise HPF Freq	A-Velocity
28	Undefined (MSB)	-	Noise Attack	A-Drive
29	Undefined (MSB)	-	Noise Decay	A-Off/On
30	Undefined (MSB)	-	Noise Sustain	Noise Filter Type (0-2)
31	Undefined (MSB)	-	Noise Release	Noise F Key Tracking
32	LSB for CC 0 (Bank Select)	Changes to a new bank of instruments if possible.	Noise ENV/Gate	Noise F Cutoff
33	LSB for CC 1 (Mod Wheel)	Sends a command to add modulation (vibrato) to the current sound.		
34	LSB for CC 2 (Breath Controller)	Sends a control from a breath device.	Res Strength	Noise F Velocity
35	LSB for CC 3 (Undefined)	-	Res Color	Noise F ENV
36	LSB for CC 4 (Foot Controller)	Sends a control from a foot pedal device.	Res LPF Freq	Noise F Decay
37	LSB for CC 5 (Portamento Time)	Controls portamento rate to slide between 2 notes played subsequently.	Res LPF Velocity	Noise F Resonance
38	LSB for CC 6 (Data Entry)	Controls Value for NRPN or RPN parameters.	Res ENV Decay	Noise Decay
39	LSB for CC 7 (Channel Volume)	Controls the main volume of a channel.	Res ENV Damper	Noise Damper
40	LSB for CC 8 (Balance)	Controls the stereo balance. 0 = hard left, 64 = center, 127 = hard right	P ENV Depth	Noise Level
41	LSB for CC 9 (Undefined)	-	P ENV Velocity	Noise Velocity
42	LSB for CC 10 (Pan)	0 = hard left, 64 = center, 127 = hard right	P ENV Attack	Noise Off/On
43	LSB for CC 11 (Expression)	Expression is a percentage of volume (CC7).	P ENV Decay	B-Pitch (52-76)
44	LSB for CC 12 (Effect CC 1)	Controls some aspect of the MIDI unit's effects.	Sine Coarse Pitch	B-Octave -1 Off/On
45	LSB for CC 13 (Effect CC 2)	Controls an alternate aspect of the unit's effects.	Sine Fine Pitch	B-Detune
46	LSB for CC 14 (Undefined)	-	Sine FM Depth	B-P ENV
47	LSB for CC 15 (Undefined)	-	Sine FM Ratio	B-P ENV Decay

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48	LSB for CC 16 (GP 1)	Programmable on most units.	Sine Release	B-P LFO
49	LSB for CC 17 (GP 2)	Programmable on most units.	Resonator/Sine Mix	B-LFO Rate
50	LSB for CC 18 (GP 3)	Programmable on most units.	HPF Frequency	B-SUS Hardness
51	LSB for CC 19 (GP 4)	Programmable on most units.	Res Dry/Wet Mix	B-SUS Velocity
52	LSB for CC 20 (Undefined)	-	LFO Rate	B-SUS LFO
53	LSB for CC 21 (Undefined)	-	LFO Noise LPF	B-SUS Color
54	LSB for CC 22 (Undefined)	-	LFO Exciter Mix	B-ATT Hardness
55	LSB for CC 23 (Undefined)	-	LFO Res Flavor	B-ATT Velocity
56	LSB for CC 24 (Undefined)	-	LFO Res LPF	B-ATT Attack
57	LSB for CC 25 (Undefined)	-	LFO Res/Sine Mix	B-ATT Decay
58	LSB for CC 26 (Undefined)	-	Res Type A/B-(0-1)	B-ATT Color
59	LSB for CC 27 (Undefined)	-		B-Attack
60	LSB for CC 28 (Undefined)	-		B-Decay
61	LSB for CC 29 (Undefined)	-		B-Damper
62	LSB for CC 30 (Undefined)	-		B-Level
63	LSB for CC 31 (Undefined)	-		B-Velocity
64	Sustain Pedal	Sustains any notes that are playing. ≤ 63 off, ≥ 64 on	<i>sustain</i>	
65	Portamento On/Off	Changes the state of the portamento to on or off. ≤ 63 off, ≥ 64 on		B-Delay
66	Sostenuto	Sostenuto: sustains notes that are already ON. ≤ 63 off, ≥ 64 on		B-Off/On
67	Soft Pedal	Lowers the volume the current instrument ≤ 63 off, ≥ 64 on		RES-A Send
68	Legato Pedal	Applies or removes legato ≤ 63 off, ≥ 64 on		RES-N Send
69	Sustain Pedal 2	Lengthens the time that it takes for a note to fade-out. ≤ 63 off, ≥ 64 on	Hold (Instrument)	Hold (Instrument)
70	Sound Control 1 'Sound Var'	Programmable, the default is 'Sound Variation'.		RES-B Send
71	Sound Control 2 'Resonance'	Programmable, the default is 'Timbre / VCF Resonance'.		RES-Pitch
72	Sound Control 3 'Release'	Programmable, the default is 'Release Time'.		RES-Feedback
73	Sound Control 4 'Attack'	Programmable, the default is 'Attack Time'.		RES-Drive
74	Sound Control 5 'Cutoff'	Programmable, the default is 'Brightness / VCF cutoff frequency'.		RES-Level
75	Sound Control 6	Programmable, no default.		RES-Decay
76	Sound Control 7	Programmable, no default.	Octave (62-66)	Octave (62-66)
77	Sound Control 8	Programmable, no default.	ARP Off/On	ARP Off/On
78	Sound Control 9	Programmable, no default.	ARP Key Sync	ARP Key Sync
79	Sound Control 10	Programmable, no default.	ARP Step Length (0-14)	ARP Step Length (0-14)
80	General Purpose Controller 5	Programmable on most units. ≤ 63 off, ≥ 64 on	ARP Style (0-5)	ARP Style (0-5)
81	General Purpose Controller 6	Programmable on most units. ≤ 63 off, ≥ 64 on	ARP Loop Length (0-14)	ARP Loop Length (0-14)
82	General Purpose Controller 7	Programmable on most units. ≤ 63 off, ≥ 64 on	ARP Octave (0-2)	ARP Octave (0-2)
83	General Purpose Controller 8	Programmable on most units. ≤ 63 off, ≥ 64 on	ARP Rate (0-2)	ARP Rate (0-2)
84	Portamento Control	Controls the amount of Portamento.	ARP Accent	ARP Accent
85	Undefined	-	ARP Gate	ARP Gate
86	Undefined	-	ARP Staccato	ARP Staccato
87	Undefined	-	Chorus Off/On	Chorus Off/On
88	Undefined	-	Chorus Dry/Wet	Chorus Dry/Wet
89	Undefined	-	Chorus Time	
90	Undefined	-	Chorus Feedback	
91	Effect 1 Depth 'Reverb Send'	Usually controls reverb send amount	Chorus Depth	Chorus Depth
92	Effect 2 Depth 'Tremelo'	Usually controls tremolo amount	Chorus Speed	Chorus Rate
93	Effect 3 Depth 'Chorus'	Usually controls chorus amount	Chorus Spread	Chorus Spread
94	Effect 4 Depth 'Detune'	Usually controls detune amount	Delay Off/On	Delay Off/On
95	Effect 5 Depth 'Phaser'	Usually controls phaser amount	Delay Dry/Wet	Delay Dry/Wet
96	(+1) Data Increment	Usually used to increment data for RPN and NRPN messages.		
97	(-1) Data Decrement	Usually used to decrement data for RPN and NRPN messages.		
98	NRPN LSB	For controllers 6, 38, 96, and 97, it selects the NRPN parameter.		

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99	NRPN MSB	For controllers 6, 38, 96, and 97, it selects the NRPN parameter.		
100	RPN LSB	For controllers 6, 38, 96, and 97, it selects the RPN parameter.		
101	RPN MSB	For controllers 6, 38, 96, and 97, it selects the RPN parameter.		
102	Undefined	-	Delay Range (0-3)	Reverb Pre-Delay
103	Undefined	-	Delay L Ratio (0-5)	Delay L Time (0-7)
104	Undefined	-	Delay Time	
105	Undefined	-	Delay R (0-5)	Delay R Time (0-7)
106	Undefined	-	Delay Mod Depth	Delay Filter Off/On
107	Undefined	-	Delay Mod Speed	Delay Filter Dry/Wet
108	Undefined	-	Delay Feedback	Delay Feedback
109	Undefined	-	Delay Cross	Delay Cross
110	Undefined	-	Delay Hi-Damp	Delay Hi-Damp
111	Undefined	-	Delay Frequency	Delay Frequency
112	Undefined	-	Delay Resonance	Delay Resonance
113	Undefined	-	Delay Filter MOD	Delay Filter MOD
114	Undefined	-	Delay Filter Speed	Delay Filter Rate
115	Undefined	-	Delay Filter Drive	Delay Filter Drive
116	Undefined	-	Reverb Off/On	Reverb Off/On
117	Undefined	-	Reverb Dry/Wet	Reverb Dry/Wet
118	Undefined	-	Reverb Time	Reverb Time
119	Undefined	-	Reverb Hi-Damp	Reverb Hi-Damp
120	All Sound Off	Mutes all sound. Regardless of release time or sustain. (See CC123)		
121	All Controllers Off	Turns off controllers or sets them to default, usually 0.		
122	Local keyboard on/off	If set to off, a keyboard won't generate sound internally.		
123	All Notes Off	Turns all notes off. Release time maintained, notes held by sustain remain.		
124	Omni Mode Off	Turns Omni Mode off.		
125	Omni Mode On	Turns Omni Mode on.		
126	Mono Mode	Turns Monophonic operation on.		
127	Poly Mode	Turns Polyphonic operation on.		

Key	
Undefined	Free to use
Defined	Defined but uncommon; use freely
Defined	Defined with common controller; attempt to map to common usage
Defined, system	Defined with system control message; use with caution
Reserved	Reserved - do not use (NOTE: ModStep sends ModWheel with MSB & LSB; use CC1 not "Mod Wheel")
Issue	Issue to be noted (e.g. Laplace parameters that map to discrete values)