

MIDI CC Number	MIDI Note	MIDI CC Usual Purpose	MIDI CC Usual Purpose Description	Mersenne v2
0	C -2	Bank Select (MSB)	Changes to a new bank of instruments if possible.	
1	C# -2	Modulation Wheel (MSB)	Sends a command to add modulation (vibrato) to the current sound.	
2	D -2	Breath Controller (MSB)	Sends a control from a breath device.	
3	D# -2	Undefined (MSB)	-	A-Pitch (52-76)
4	E -2	Foot Controller (MSB)	Sends a control from a foot pedal device.	A-Octave -1 (0-1)
5	F -2	Portamento Time (MSB)	Controls portamento rate to slide between 2 notes played subsequently.	Glide
6	F# -2	Data Entry (MSB)	Controls Value for NRPN or RPN parameters.	
7	G -2	Channel Volume (MSB)	Controls the main volume of a channel.	Volume
8	G# -2	Balance (MSB)	Controls the stereo balance. 0 = hard left, 64 = center, 127 = hard right	A-Detune
9	A -2	Undefined (MSB)	-	A-P ENV
10	A# -2	Pan (MSB)	0 = hard left, 64 = center, 127 = hard right	A-P ENV Decay
11	B -2	Expression (MSB)	Expression is a percentage of volume (CC7).	
12	C -1	Effect Control 1 (MSB)	Controls some aspect of the MIDI unit's effects.	A-P LFO
13	C# -1	Effect Control 2 (MSB)	Controls an alternate aspect of the unit's effects.	A-LFO Rate
14	D -1	Undefined (MSB)	-	A-SUS Hardness
15	D# -1	Undefined (MSB)	-	A-SUS Velocity
16	E -1	General Purpose 1 (MSB)	Programmable on most units.	A-SUS LFO
17	F -1	General Purpose 2 (MSB)	Programmable on most units.	A-SUS Color
18	F# -1	General Purpose 3 (MSB)	Programmable on most units.	A-ATT Hardness
19	G -1	General Purpose 4 (MSB)	Programmable on most units.	A-ATT Velocity
20	G# -1	Undefined (MSB)	-	A-ATT Attack
21	A -1	Undefined (MSB)	-	A-ATT Decay
22	A# -1	Undefined (MSB)	-	A-ATT Color
23	B -1	Undefined (MSB)	-	A-Attack
24	C 0	Undefined (MSB)	-	A-Decay
25	C# 0	Undefined (MSB)	-	A-Damper
26	D 0	Undefined (MSB)	-	A-Level
27	D# 0	Undefined (MSB)	-	A-Velocity
28	E 0	Undefined (MSB)	-	A-Drive
29	F 0	Undefined (MSB)	-	A-Off/On (0-1)
30	F# 0	Undefined (MSB)	-	Noise Filter Type (0-2)
31	G 0	Undefined (MSB)	-	Noise F Key Tracking
32	G# 0	LSB for CC 0 (Bank Select)	Changes to a new bank of instruments if possible.	Noise F Cutoff
33	A 0	LSB for CC 1 (Mod Wheel)	Sends a command to add modulation (vibrato) to the current sound.	
34	A# 0	LSB for CC 2 (Breath Controller)	Sends a control from a breath device.	Noise F Velocity
35	B 0	LSB for CC 3 (Undefined)	-	Noise F ENV
36	C 1	LSB for CC 4 (Foot Controller)	Sends a control from a foot pedal device.	Noise F Decay
37	C# 1	LSB for CC 5 (Portamento Time)	Controls portamento rate to slide between 2 notes played subsequently.	Noise F Resonance
38	D 1	LSB for CC 6 (Data Entry)	Controls Value for NRPN or RPN parameters.	Noise Decay
39	D# 1	LSB for CC 7 (Channel Volume)	Controls the main volume of a channel.	Noise Damper
40	E 1	LSB for CC 8 (Balance)	Controls the stereo balance. 0 = hard left, 64 = center, 127 = hard right	Noise Level
41	F 1	LSB for CC 9 (Undefined)	-	Noise Velocity
42	F# 1	LSB for CC 10 (Pan)	0 = hard left, 64 = center, 127 = hard right	Noise Off/On (0-1)

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43	G 1	LSB for CC 11 (Expression)	Expression is a percentage of volume (CC7).	B-Pitch (52-76)
44	G# 1	LSB for CC 12 (Effect CC 1)	Controls some aspect of the MIDI unit's effects.	B-Octave -1 (0-1)
45	A 1	LSB for CC 13 (Effect CC 2)	Controls an alternate aspect of the unit's effects.	B-Detune
46	A# 1	LSB for CC 14 (Undefined)	-	B-P ENV
47	B 1	LSB for CC 15 (Undefined)	-	B-P ENV Decay
48	C 2	LSB for CC 16 (GP 1)	Programmable on most units.	B-P LFO
49	C# 2	LSB for CC 17 (GP 2)	Programmable on most units.	B-LFO Rate
50	D 2	LSB for CC 18 (GP 3)	Programmable on most units.	B-SUS Hardness
51	D# 2	LSB for CC 19 (GP 4)	Programmable on most units.	B-SUS Velocity
52	E 2	LSB for CC 20 (Undefined)	-	B-SUS LFO
53	F 2	LSB for CC 21 (Undefined)	-	B-SUS Color
54	F# 2	LSB for CC 22 (Undefined)	-	B-ATT Hardness
55	G 2	LSB for CC 23 (Undefined)	-	B-ATT Velocity
56	G# 2	LSB for CC 24 (Undefined)	-	B-ATT Attack
57	A 2	LSB for CC 25 (Undefined)	-	B-ATT Decay
58	A# 2	LSB for CC 26 (Undefined)	-	B-ATT Color
59	B 2	LSB for CC 27 (Undefined)	-	B-Attack
60	C 3	LSB for CC 28 (Undefined)	-	B-Decay
61	C# 3	LSB for CC 29 (Undefined)	-	B-Damper
62	D 3	LSB for CC 30 (Undefined)	-	B-Level
63	D# 3	LSB for CC 31 (Undefined)	-	B-Velocity
64	E 3	Sustain Pedal	Sustains any notes that are playing. ≤ 63 off, ≥ 64 on	
65	F 3	Portamento On/Off	Changes the state of the portamento to on or off. ≤ 63 off, ≥ 64 on	B-Delay
66	F# 3	Sostenuto	Sostenuto: sustains notes that are already ON. ≤ 63 off, ≥ 64 on	B-Off/On (0-1)
67	G 3	Soft Pedal	Lowers the volume the current instrument ≤ 63 off, ≥ 64 on	RES-A Send
68	G# 3	Legato Pedal	Applies or removes legato ≤ 63 off, ≥ 64 on	RES-N Send
69	A 3	Sustain Pedal 2	Lengthens the time that it takes for a note to fade-out. ≤ 63 off, ≥ 64 on	Hold (0-1)
70	A# 3	Sound Control 1 'Sound Var'	Programmable, the default is 'Sound Variation'.	RES-B Send
71	B 3	Sound Control 2 'Resonance'	Programmable, the default is 'Timbre / VCF Resonance'.	RES-Pitch
72	C 4	Sound Control 3 'Release'	Programmable, the default is 'Release Time'.	RES-Feedback
73	C# 4	Sound Control 4 'Attack'	Programmable, the default is 'Attack Time'.	RES-Drive
74	D 4	Sound Control 5 'Cutoff'	Programmable, the default is 'Brightness / VCF cutoff frequency'.	RES-Level
75	D# 4	Sound Control 6	Programmable, no default.	RES-Decay
76	E 4	Sound Control 7	Programmable, no default.	Octave (62-66)
77	F 4	Sound Control 8	Programmable, no default.	ARP Off/On (0-1)
78	F# 4	Sound Control 9	Programmable, no default.	Mono Mode (0-1)
79	G 4	Sound Control 10	Programmable, no default.	-Pitchbend Range
80	G# 4	General Purpose Controller 5	Programmable on most units. ≤ 63 off, ≥ 64 on	+Pitchbend Range
81	A 4	General Purpose Controller 6	Programmable on most units. ≤ 63 off, ≥ 64 on	Noise Grain
82	A# 4	General Purpose Controller 7	Programmable on most units. ≤ 63 off, ≥ 64 on	Noise Attack
83	B 4	General Purpose Controller 8	Programmable on most units. ≤ 63 off, ≥ 64 on	
84	C 5	Portamento Control	Controls the amount of Portamento.	
85	C# 5	Undefined	-	

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86	D 5	Undefined	-	
87	D# 5	Undefined	-	Chorus Off/On (0-1)
88	E 5	Undefined	-	Chorus Dry/Wet
89	F 5	Undefined	-	
90	F# 5	Undefined	-	
91	G 5	Effect 1 Depth 'Reverb Send'	Usually controls reverb send amount	Chorus Depth
92	G# 5	Effect 2 Depth 'Tremelo'	Usually controls tremolo amount	Chorus Rate
93	A 5	Effect 3 Depth 'Chorus'	Usually controls chorus amount	Chorus Spread
94	A# 5	Effect 4 Depth 'Detune'	Usually controls detune amount	Delay Off/On (0-1)
95	B 5	Effect 5 Depth 'Phaser'	Usually controls phaser amount	Delay Dry/Wet
96	C 6	(+1) Data Increment	Usually used to increment data for RPN and NRPN messages.	
97	C# 6	(-1) Data Decrement	Usually used to decrement data for RPN and NRPN messages.	
98	D 6	NRPN LSB	For controllers 6, 38, 96, and 97, it selects the NRPN parameter.	
99	D# 6	NRPN MSB	For controllers 6, 38, 96, and 97, it selects the NRPN parameter.	
100	E 6	RPN LSB	For controllers 6, 38, 96, and 97, it selects the RPN parameter.	
101	F 6	RPN MSB	For controllers 6, 38, 96, and 97, it selects the RPN parameter.	
102	F# 6	Undefined	-	Reverb Pre-Delay
103	G 6	Undefined	-	Delay L Time (0-7)
104	G# 6	Undefined	-	
105	A 6	Undefined	-	Delay R Time (0-7)
106	A# 6	Undefined	-	Delay Filter (0-1)
107	B 6	Undefined	-	Delay Filter Dry/Wet
108	C 7	Undefined	-	Delay Feedback
109	C# 7	Undefined	-	Delay Cross
110	D 7	Undefined	-	Delay Hi-Damp
111	D# 7	Undefined	-	Delay Frequency
112	E 7	Undefined	-	Delay Resonance
113	F 7	Undefined	-	Delay Filter MOD
114	F# 7	Undefined	-	Delay Filter Rate
115	G 7	Undefined	-	Delay Filter Drive
116	G# 7	Undefined	-	Reverb Off/On (0-1)
117	A 7	Undefined	-	Reverb Dry/Wet
118	A# 7	Undefined	-	Reverb Time
119	B 7	Undefined	-	Reverb Hi-Damp
120	C 8	All Sound Off	Mutes all sound. Regardless of release time or sustain. (See CC123)	
121	C# 8	All Controllers Off	Turns off controllers or sets them to default, usually 0.	
122	D 8	Local keyboard on/off	If set to off, a keyboard won't generate sound internally.	
123	D# 8	All Notes Off	Turns all notes off. Release time maintained, notes held by sustain remain.	
124	E 8	Omni Mode Off	Turns Omni Mode off.	
125	F 8	Omni Mode On	Turns Omni Mode on.	
126	F# 8	Mono Mode	Turns Monophonic operation on.	
127	G 8	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. parameters that map to discrete values)