

Control Change

Number	2nd Byte Value Binary Hex Dec	Function		3rd Byte Value	
0	00 = 0	Bank select	#0	0-127	MSB
1	01 = 1	Modulation wheel		0-127	MSB
2	02 = 2	Breath control		0-127	MSB
3	03 = 3	Continuous controller	#3	0-127	MSB
4	04 = 4	Foot controller		0-127	MSB
5	05 = 5	Portamento time		0-127	MSB
6	06 = 6	Data Entry		0-127	MSB
7	07 = 7	Main Volume		0-127	MSB
8	08 = 8	Balance	#8	0-127	MSB
9	09 = 9	Undefined	#9	0-127	MSB
10	0A = 10	Pan	#10	0-127	MSB
11	0B = 11	Expression	#11	0-127	MSB
12	0C = 12	Effect Control 1	#12	0-127	MSB
13	0D = 13	Effect Control 2	#13	0-127	MSB
14	0E = 14	Undefined	#14	0-127	MSB
15	0F = 15	Undefined	#15	0-127	MSB
16	10 = 16	General purpose controllers (1-4)	#16	0-127	MSB
17	11 = 17	General purpose controllers (1-4)	#17	0-127	MSB
18	12 = 18	General purpose controllers (1-4)	#18	0-127	MSB
19	13 = 19	General purpose controllers (1-4)	#19	0-127	MSB
20	14 = 20	Undefined	#20	0-127	MSB
21	15 = 21	Undefined	#21	0-127	MSB
22	16 = 22	Undefined	#22	0-127	MSB
23	17 = 23	Undefined	#23	0-127	MSB
24	18 = 24	Undefined	#24	0-127	MSB
25	19 = 25	Undefined	#25	0-127	MSB
26	1A = 26	Undefined	#26	0-127	MSB
27	1B = 27	Undefined	#27	0-127	MSB
28	1C = 28	Undefined	#28	0-127	MSB
29	1D = 29	Undefined	#29	0-127	MSB
30	1E = 30	Undefined	#30	0-127	MSB

31	00011111= 1F= 31		Undefined	#31		0-127		MSB
32	00100000= 20= 32		Bank select	#0		0-127		LSB
33	00100001= 21= 33		Modulation wheel			0-127		LSB
34	00100010= 22= 34		Breath control			0-127		LSB
35	00100011= 23= 35		Continuous controller	#3		0-127		LSB
36	00100100= 24= 36		Foot controller			0-127		LSB
37	00100101= 25= 37		Portamento time			0-127		LSB
38	00100110= 26= 38		Data Entry			0-127		LSB
39	00100111= 27= 39		Main Volume			0-127		LSB
40	00101000= 28= 40		Balance	#8		0-127		LSB
41	00101001= 29= 41		Undefined	#9		0-127		LSB
42	00101010= 2A= 42		Pan	#10		0-127		LSB
43	00101011= 2B= 43		Expression	#11		0-127		LSB
44	00101100= 2C= 44		Effect Control 1	#12		0-127		LSB
45	00101101= 2D= 45		Effect Control 2	#13		0-127		LSB
46	00101110= 2E= 46		Undefined	#14		0-127		LSB
47	00101111= 2F= 47		Undefined	#15		0-127		LSB
48	00110000= 30= 48		General purpose controllers (1-4)	#16		0-127		LSB
49	00110001= 31= 49		General purpose controllers (1-4)	#17		0-127		LSB
50	00110010= 32= 50		General purpose controllers (1-4)	#18		0-127		LSB
51	00110011= 33= 51		General purpose controllers (1-4)	#19		0-127		LSB
52	00110100= 34= 52		Undefined	#20		0-127		LSB
53	00110101= 35= 53		Undefined	#21		0-127		LSB
54	00110110= 36= 54		Undefined	#22		0-127		LSB
55	00110111= 37= 55		Undefined	#23		0-127		LSB
56	00111000= 38= 56		Undefined	#24		0-127		LSB
57	00111001= 39= 57		Undefined	#25		0-127		LSB
58	00111010= 3A= 58		Undefined	#26		0-127		LSB
59	00111011= 3B= 59		Undefined	#27		0-127		LSB
60	00111100= 3C= 60		Undefined	#28		0-127		LSB
61	00111101= 3D= 61		Undefined	#29		0-127		LSB
62	00111110= 3E= 62		Undefined	#30		0-127		LSB
63	00111111= 3F= 63		Undefined	#31		0-127		LSB
64	01000000= 40= 64		Damper pedal on/off (Susta		0=off		1 27=on
65	01000001= 41= 65		Portamento on/off			0=off		1 27=on
66	01000010= 42= 66		Sostenuto on/off			0=off		1 27=on

67	01000011= 43= 67	Soft pedal on/off	0=off 1	27=on
68	01000100= 44= 68	Undefined on/off	0=off 1	27=on
69	01000101= 45= 69	Undefined on/off	0=off 1	27=on
70	01000110= 46= 70	Undefined on/off	0=off 1	27=on
71	01000111= 47= 71	<i>Filter Resonance (Timbre/Harmonic Intensity)</i>	0=off 1	27=on
72	01001000= 48= 72	<i>Release Time</i>	0=off 1	27=on
73	01001001= 49= 73	<i>Attack time</i>	0=off 1	27=on
74	01001010= 4A= 74	<i>Brightness</i>	0=off 1	27=on
75	01001011= 4B= 75	<i>Decay Time</i>	0=off 1	27=on
76	01001100= 4C= 76	<i>Vibrato Rate</i>	0=off 1	27=on
77	01001101= 4D= 77	<i>Vibrato Depth</i>	0=off 1	27=on
78	01001110= 4E= 78	<i>Vibrato Delay</i>	0=off 1	27=on
79	01001111= 4F= 79	Undefined on/off	0=off 1	27=on
80	01010000= 50= 80	Undefined on/off	0=off 1	27=on
81	01010001= 51= 81	Undefined on/off	0=off 1	27=on
82	01010010= 52= 82	Undefined on/off	0=off 1	27=on
83	01010011= 53= 83	Undefined on/off	0=off 1	27=on
84	01010100= 54= 84	Undefined on/off	0=off 1	27=on
85	01010101= 55= 85	Undefined on/off	0=off 1	27=on
86	01010110= 56= 86	Undefined on/off	0=off 1	27=on
87	01010111= 57= 87	Undefined on/off	0=off 1	27=on
88	01011000= 58= 88	Undefined on/off	0=off 1	27=on
89	01011001= 59= 89	Undefined on/off	0=off 1	27=on
90	01011010= 5A= 90	Undefined on/off	0=off 1	27=on
91	01011011= 5B= 91	<i>Reverb Send Level</i>	0=off 1	27=on
92	01011100= 5C= 92	Undefined on/off	0=off 1	27=on
93	01011101= 5D= 93	<i>Chorus Send Level</i>	0=off 1	27=on
94	01011110= 5E= 94	Undefined on/off	0=off 1	27=on
95	01011111= 5F= 95	Undefined on/off	0=off 1	27=on
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96	01100000= 60= 96	Data entry +1	127	
97	01100001= 61= 97	Data entry -1	127	
98	01100010= 62= 98	Undefined	?	
99	01100011= 63= 99	Undefined	?	
100	01100100= 64= 100	RPN LSB/MSB	?	
101	01100101= 65= 101	RPN LSB/MSB	?	

102	01100110= 66= 102	Undefined		?	
103	01100111= 67= 103	Undefined		?	
104	01100111= 67= 103	Undefined		?	
105	01100111= 67= 103	Undefined		?	
106	01100111= 67= 103	Undefined		?	
107	01100111= 67= 103	Undefined		?	
108	01101000= 68= 104	Undefined		?	
109	01101001= 69= 105	Undefined		?	
110	01101010= 6A= 106	Undefined		?	
111	01101011= 6B= 107	Undefined		?	
112	01101100= 6C= 108	Undefined		?	
113	01101101= 6D= 109	Undefined		?	
114	01101110= 6E= 110	Undefined		?	
115	01101111= 6F= 111	Undefined		?	
116	01110000= 70= 112	Undefined		?	
117	01110001= 71= 113	Undefined		?	
118	01110010= 72= 114	Undefined		?	
119	01110011= 73= 115	Undefined		?	
120	01110100= 74= 116	All sound off		?	[Channel Mode Message]
121	01110101= 75= 117	Rest all controllers		?	[Channel Mode Message]
122	01110110= 76= 118	Local control	0 off, 127 on	?	[Channel Mode Message]
123	01110111= 77= 119	All notes off		?	[Channel Mode Message]
124	01111000= 78= 120	Omni mode off		?	[Channel Mode Message]
125	01111001= 79= 121	Omni mode on		?	[Channel Mode Message]
126	01111010= 7A= 122	Mono mode on		?	[Channel Mode Message]
127	01111011= 7B= 123	Poly mode on		?	[Channel Mode Message]
128	01111100= 7C= 124	Unassigned			

Mode 1 = OMNI ON, PLOY
Mode 2 = OMNI ON, MONO
Mode 3 = OMNI OFF, POLY
Mode 4 = OMNI, OFF