



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND VM-3100 PRO. You'll find the answers to all your questions on the ROLAND VM-3100 PRO in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

## User manual ROLAND VM-3100 PRO User guide ROLAND VM-3100 PRO Operating instructions ROLAND VM-3100 PRO Instructions for use ROLAND VM-3100 PRO Instruction manual ROLAND VM-3100 PRO

### MIDI Implementation

Model VM-3100 VM-3100P for Windows 1.00 Rev. 02/2009

#### 1. TRANSMITTED DATA AND RECOGNIZED RECEIVE DATA

##### ■ Channel Voice Message

###### ● Note On/Off

When "MIDI Transp. Type" in the SYSTEM parameter is "MIDI" (1), MIDI note number, velocity of MIDI channel number which is designated with "MIDI Channel No." is transmitted.

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Ch. #	Channel Number	Ch. #	Channel Number
1	1	16	16
2	2	17	17
3	3	18	18
4	4	19	19
5	5	20	20
6	6	21	21
7	7	22	22
8	8	23	23
9	9	24	24
10	10	25	25
11	11	26	26
12	12	27	27
13	13	28	28
14	14	29	29
15	15	30	30
16	16	31	31
17	17	32	32
18	18	33	33
19	19	34	34
20	20	35	35
21	21	36	36
22	22	37	37
23	23	38	38
24	24	39	39
25	25	40	40
26	26	41	41
27	27	42	42
28	28	43	43
29	29	44	44
30	30	45	45
31	31	46	46
32	32	47	47
33	33	48	48
34	34	49	49
35	35	50	50
36	36	51	51
37	37	52	52
38	38	53	Master In/Out
39	39	54	54
40	40	55	55
41	41	56	56
42	42	57	57
43	43	58	58
44	44	59	59
45	45	60	60
46	46	61	61
47	47	62	62
48	48	63	63
49	49	64	64
50	50	65	65
51	51	66	66
52	52	67	67
53	53	68	68
54	54	69	69
55	55	70	70
56	56	71	71
57	57	72	72
58	58	73	73
59	59	74	74
60	60	75	75
61	61	76	76
62	62	77	77
63	63	78	78
64	64	79	79
65	65	80	80
66	66	81	81
67	67	82	82
68	68	83	83
69	69	84	84
70	70	85	85
71	71	86	86
72	72	87	87
73	73	88	88
74	74	89	89
75	75	90	90
76	76	91	91
77	77	92	92
78	78	93	93
79	79	94	94
80	80	95	95
81	81	96	96
82	82	97	97
83	83	98	98
84	84	99	99
85	85	100	100
86	86	101	101
87	87	102	102
88	88	103	103
89	89	104	104
90	90	105	105
91	91	106	106
92	92	107	107

When the "MIDI CC Type" in the SYSTEM parameter is set to "MIDI", the MIDI CC data is transmitted and received through the selected MIDI channels.

##### ■ MIDI Parameter and MIDI Channel Control Assignment

Channel No.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

MIDI Channel

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 5

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 6

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 7

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 8

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 9

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 10

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 11

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 12

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 13

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 14

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 15

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 17

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 18

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 19

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 21

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Bank 22

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



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| 00 - 3B | Locate 3 Time Code Minutes 0,,59 Off=127 |
|-----+-----+-----| | 00 70 | 00 - 3B | Locate 3 Time
Code Second 0,,59 Off=127 | |-----+-----+-----| | 00
71 | 00 - 1D | Locate 3 Time Code Frame 0,,29 Off=127 |
|-----+-----+-----| | 00 72 | 00 - 17 | Locate 4 Time
Code Hour 0,,23 Off=127 | |-----+-----+-----| | 00 73 |
00 - 3B | Locate 4 Time Code Minutes 0,,59 Off=127 |
|-----+-----+-----| | 00 74 | 00 - 3B | Locate 4 Time
Code Second 0,,59 Off=127 | |-----+-----+-----| | 00
75 | 00 - 1D | Locate 4 Time Code Frame 0,,29 Off=127 |
|-----+-----+-----| | 00 76 | 0aaaaaaa | Locate 1 Song
Position Pointer | | 00 77# | 0bbbbbbb | 0,,16382 Off=16383 |
|-----+-----+-----| | 00 78 | 0aaaaaaa | Locate 2 Song
Position Pointer | | 00 79# | 0bbbbbbb | 0,,16382 Off=16383 |
|-----+-----+-----| | 00 7A | 0aaaaaaa | Locate 3 Song
Position Pointer | | 00 7B# | 0bbbbbbb | 0,,16382 Off=16383 |
|-----+-----+-----| | 00 7C | 0aaaaaaa | Locate 4 Song
Position Pointer | | 00 7D# | 0bbbbbbb | 0,,16382 Off=16383 |
+-----+-----+-----+ (*I)Read Only Parameters.

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*q Mixer Common Parameter cc= Mixer Channel Number : 10H (Common Channel)*

<i>Contents and Remarks</i>	<i>Start</i>	<i>Address</i>	<i>Data</i>
			<i>cc 00</i>
<i>00 - 01   Comp 1 Switch OFF, ON</i>			
<i>cc 01   00   (Reserved)</i>			<i>cc 02   00</i>
<i>15   Comp 1 Location OFF, CH1,,,CH20,Master</i>			
			<i>cc 03   00   (Reserved)</i>
<i>OFF, ON</i>			<i>cc 04   00 - 01   Comp 2 Switch</i>
			<i>cc 05   00   (Reserved)</i>
<i>OFF, CH1,,,CH20,Master</i>			<i>cc 06   00 - 14   Comp 2 Location</i>
			<i>cc 07  </i>
<i>00   (Reserved)</i>			<i>cc 08   00 - 01  </i>
<i>FX1 Switch OFF, ON</i>			<i>cc 09   00  </i>
<i>(Reserved)</i>			<i>cc 0A   00   (Reserved)</i>
			<i>cc 0B   00 - 15   FX1 Location</i>
<i>Send/Return, CH1,,,CH20,Master</i>			
			<i>cc 0C   00 - 7F   FX1 Input Level 0,,,127</i>
			<i>cc 0D   00   (Reserved)</i>
			<i>cc 0E   00 - 7F   FX1 Output Level</i>
<i>0,,,127</i>			<i>cc 0F   00   (Reserved)</i>
			<i>cc 10   00 - 01   FX1 Return To</i>
<i>MIX Switch OFF, ON</i>			<i>cc 11   00 -</i>
			<i>01   FX1 Return To Bus 1/2(AUX SEND) Switch OFF, ON</i>
			<i>cc 12   00 - 01   FX1 Return To Bus</i>
<i>3/4(BUS OUT) Switch OFF, ON</i>			
			<i>cc 13   00 - 01   FX1 Return To Bus 5/6 Switch OFF, ON</i>
			<i>cc 14   00 - 01   FX1 Return To Bus</i>
<i>7/8 Switch OFF, ON</i>			<i>cc 15   00  </i>
<i>(Reserved)</i>			<i>cc 17   00  </i>
			<i>cc 18   00 - 01   FX2 Switch OFF, ON</i>
			<i>cc 19   00   (Reserved)</i>
			<i>cc 1A   00   (Reserved)</i>
			<i>cc 1B   00 - 15   FX2 Location</i>
<i>Send/Return, CH1,,,CH20,Master</i>			
			<i>cc 1C   00 - 7F   FX2 Input Level 0,,,127</i>
			<i>cc 1D   00   (Reserved)</i>
			<i>cc 1E   00 - 7F   FX2 Output Level</i>
<i>0,,,127</i>			<i>cc 1F   00   (Reserved)</i>
			<i>cc 20   00 - 01   FX2 Return To</i>
<i>MIX Switch OFF, ON</i>			<i>cc 21   00 -</i>
			<i>01   FX2 Return To Bus 1/2(AUX SEND) Switch OFF, ON</i>
			<i>cc 22   00 - 01   FX2 Return To Bus</i>
<i>3/4(BUS OUT) Switch OFF, ON</i>			
			<i>cc 23   00 - 01   FX2 Return To Bus 5/6 Switch OFF, ON</i>
			<i>cc 24   00 - 01   FX2 Return To Bus</i>
<i>7/8 Switch OFF, ON</i>			<i>cc 25   00  </i>
<i>(Reserved)</i>			<i>cc 27   00  </i>
			<i>cc 28   00 - 01   Master Source MIX, MON</i>
			<i>cc 29   00 - 7F   Master Level</i>
<i>0,,,127</i>			<i>cc 2A   01 - 7F   Master</i>
<i>Balance L63,,,R63</i>			<i>cc 2B   00 - 07</i>
			<i>  Monitor Source Master, Bus1, Bus2, Bus3/4       Bus5/6, Bus7/8, FxSend1, FxSend2</i>
			<i>cc 2C   00 - 7F   Monitor Level</i>
<i>0,,,127</i>			<i>cc 2D   01 - 7F   Monitor</i>
<i>Balance L63,,,R63</i>			<i>6 MIDI</i>
			<i>Implementation   cc 2E   00 - 02   Bus 1/2(AUX SEND) Type BUS, SendS, SendM</i>
			<i>cc 2F   00   (Reserved)</i>
			<i>cc 30   00 - 7F   AUX1/2 SEND</i>
<i>Level 0,,,127</i>			<i>cc 31   01 - 7F  </i>
<i>AUX1/2 SEND Balance L63,,,R63</i>			
			<i>cc 32   00 - 7F   AUX1 SEND Level 0,,,127</i>
			<i>cc 33   00 - 7F   AUX2 SEND Level</i>
<i>0,,,127</i>			<i>cc 34   00 - 01   Bus</i>
<i>3/4(BUS OUT) Type BUS, SendS</i>			
<i>cc 35   00   (Reserved)</i>			<i>cc 36   00 -</i>
<i>7F   BUS OUT Level 0,,,127</i>			<i>cc 37</i>
			<i>  01 - 7F   BUS OUT Balance L63,,,R63</i>

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-----| cc 38 | 00 - 02 | Bus 5/6 Type BUS,
Sends |-----| cc 39 | 00 - 05 | DIGITAL
          OUT A Source | | | Bus1/2, Bus3/4, Bus5/6, Bus7/8, MIX, MON |
-----| cc 3A | 00 - 7F | DIGITAL OUT A
Level 0,,127 |-----| cc 3B | 01 - 7F |
          DIGITAL OUT B Balance L63,,R63 |
-----| cc 3C | 00 - 03 | Bus 7/8 Type BUS,
Sends |-----| cc 3D | 00 - 05 | DIGITAL
          OUT B Source | | | Bus1/2, Bus3/4, Bus5/6, Bus7/8, MIX, MON |
-----| cc 3E | 00 - 7F | DIGITAL OUT B
Level 0,,127 |-----| cc 3F | 01 - 7F |
          DIGITAL OUT B Balance L63,,R63 |
-----| cc 40 | 00 - 1D | TRACK OUT 1
          Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 41 | 00 - 7F | TRACK OUT 1
Level 0,,127 |-----| cc 42 | 00 - 1D |
          TRACK OUT 2 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 43 | 00 - 7F | TRACK OUT 2
Level 0,,127 |-----| cc 44 | 00 - 1D |
          TRACK OUT 3 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 45 | 00 - 7F | TRACK OUT 3
Level 0,,127 |-----| cc 46 | 00 - 1D |
          TRACK OUT 4 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 47 | 00 - 7F | TRACK OUT 4
Level 0,,127 |-----| cc 48 | 00 - 1D |
          TRACK OUT 5 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 49 | 00 - 7F | TRACK OUT 5
Level 0,,127 |-----| cc 4A | 00 - 1D |
          TRACK OUT 6 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 4B | 00 - 7F | TRACK OUT 6
Level 0,,127 |-----| cc 4C | 00 - 1D |
          TRACK OUT 7 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 4D | 00 - 7F | TRACK OUT 7
Level 0,,127 |-----| cc 4E | 00 - 1D |
          TRACK OUT 8 Source Bus1,,8,MixL,MixR,Ch1,,20 |
-----| cc 4F | 00 - 7F | TRACK OUT 8
Level 0,,127 |-----| cc 50 | 00 - 01 |
Digital In Monitor Off,On |-----| cc 51 | 00 - 01 |
Mixer Channel Parameters cc= Mixer Channel Number : 11H - 24H (Channel 1 - 20)
-----| Start | | | Address | Data |
Contents and Remarks |=====| cc 00 |
          00 - 13 | Channel Input Source | | | IN01,,IN11(DIN-L),IN12(DIN-R),TR01,,TR08 |
-----| cc 01 | 00 - 04 | Channel Input ATT
-18, -12, -6, -3, 0(dB) |-----| cc 02 | 00 -
          01 | Channel Input Phase NORM, INV |
-----| cc 03 | 00 - 01 | Channel EQ
Switch OFF, ON |-----| cc 04 | 00 |
(Reserved) |-----| cc 05 | 00 - 7F |
          Channel EQ High Freq 400Hz,,20kHz (*2) |
-----| cc 06 | 00 - 7F | Channel EQ High
Gain -12,,+12dB (*2) |-----| cc 07 | 00 -
          7F | Channel EQ Mid Freq 200Hz,,8.

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0kHz (*2)    -----+-----+-----    cc 08   00 - 7F
Channel EQ Mid Gain -12,,,+12dB (*2)
-----+-----+-----    cc 09   00 - 7F   Channel EQ Mid
Q 0.
5,1,2,4,8 (*2)    -----+-----+-----    cc 0A   00 - 7F
Channel EQ Low Freq 20Hz,,,2.0kHz (*2)
-----+-----+-----    cc 0B   00 - 7F   Channel EQ Low
Gain -12,,,+12dB (*2)    -----+-----+-----    cc 0C   00
- 7F   Channel Level 0,,,127    -----+-----+-----    cc
0D   01 - 7F   Channel Pan L63,,,R63
-----+-----+-----    cc 0E   00   (Reserved)
-----+-----+-----    cc 0F   01 - 7F   Channel Link Pan
Offset L63,,,R63    -----+-----+-----    cc 10   00 - 02
Channel FX1 Send Switch Off,Pre,Pst
-----+-----+-----    cc 11   00 - 7F   Channel FX1 Send
Level 0,,,127    -----+-----+-----    cc 12   00
(Reserved)    -----+-----+-----    cc 13   00 - 02
Channel FX2 Send Switch Off,Pre,Pst
-----+-----+-----    cc 14   00 - 7F   Channel FX2 Send
Level 0,,,127    -----+-----+-----    cc 15   00
(Reserved)    -----+-----+-----    cc 16   00 - 02
Channel Bus 1/2(AUX SEND) Send Sw Off,Pre,Pst
-----+-----+-----    cc 17   00 - 7F   Channel Bus
1/2(AUX SEND) Send Level 0,,,127    -----+-----+-----
cc 18   00   (Reserved)    -----+-----+-----    cc 19   00
- 02   Channel Bus 1(AUX SEND 1) Off,Pre,Pst
-----+-----+-----    cc 1A   00 - 7F   Channel Bus
1(AUX SEND 1) Send Level 0,,,127    -----+-----+-----
cc 1B   00 - 02   Channel Bus 2(AUX SEND 2) Send Sw Off,Pre,Pst
-----+-----+-----    cc 1C   00 - 7F   Channel Bus
2(AUX SEND 2) Send Level 0,,,127    -----+-----+-----
cc 1D   00 - 02   Channel Bus 3/4(BUS OUT) Send Sw Off,Pre,Pst
-----+-----+-----    cc 1E   00 - 7F   Channel Bus
3/4(BUS OUT) Send Level 0,,,127    -----+-----+-----
cc 1F   00   (Reserved)    -----+-----+-----    cc 20   00
- 02   Channel Bus 5/6 Send Switch Off,Pre,Pst
-----+-----+-----    cc 21   00 - 7F   Channel Bus 5/6
Send Level 0,,,127    -----+-----+-----    cc 22   00
(Reserved)    -----+-----+-----    7 MIDI Implementation
cc 23   00 - 02   Channel Bus 7/8 Send Switch Off,Pre,Pst
-----+-----+-----    cc 24   00 - 7F   Channel Bus 7/8
Send Level 0,,,127    -----+-----+-----    cc 25   00
(Reserved)    -----+-----+-----    cc 26   00 - 01
Channel Link Switch OFF, ON    -----+-----+-----    cc
27   00 - 01   Channel Mute Switch OFF, ON
-----+-----+-----    cc 28   00   (Reserved)
-----+-----+-----    cc 29   00 - 01   Channel Bus
1/2(AUX SEND) Assign OFF, ON    -----+-----+-----
cc 2A   00 - 01   Channel Bus 3/4(BUS OUT) Assign OFF, ON
-----+-----+-----    cc 2B   00 - 01   Channel Bus 5/6
Assign OFF, ON    -----+-----+-----    cc 2C   00 - 01
Channel Bus 7/8 Assign OFF, ON
+-----+-----+-----+ (*2) See Table as follows for EQ
settings.



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3,,10.0|-----+-----+-----| cc 28|03 - 64|EQ: High
EQ Q 3,,100 = 0.3,,10.0|-----+-----+-----| cc 29|
44 - 0C|EQ: Out Level -60,,+12dB|
|-----+-----+-----| cc 2A|00 - 01|Pitch Shifter: SW
0,1 = Off,On|-----+-----+-----| cc 2B|74 - 0C|
Pitch Shifter: Pitch -12,,12|-----+-----+-----| cc 2C|
|0aaaaaa|Pitch Shifter: Fine| cc 2D#|0bbbbbb| -100,,100cent|
|-----+-----+-----| cc 2E|00 - 64|Pitch Shifter:
Effect Level 0,,100|-----+-----+-----| cc 2F|00 - 64|
|Pitch Shifter: Direct Level 0,,100|-----+-----+-----|
| cc 30|00 - 01|Delay: SW 0,1 = Off,On|
|-----+-----+-----| cc 31|01 - 02|Delay: Mode 1,2 =
Mono,Alt|-----+-----+-----| cc 32|0aaaaaa|
Delay: Delay Time| cc 33#|0bbbbbb| 1,,1200ms|
|-----+-----+-----| cc 34|00 - 64|Delay: Feedback
0,,100|-----+-----+-----| cc 35|00 - 64|Delay:
Effect Level 0,,100|-----+-----+-----| cc 36|00 - 64|
|Delay: Direct Level 0,,100|-----+-----+-----| cc 37|
|00 - 01|Chorus: SW 0,1 = Off,On|-----+-----+-----|
| cc 38|00 - 01|Chorus: Modulation LR Phase 0,1 = Nor,Inv|
|-----+-----+-----| cc 39|00 - 64|Chorus: Depth
0,,100|-----+-----+-----| cc 3A|00 - 64|Chorus:
Rate 0,,100|-----+-----+-----| cc 3B|00 - 64|
Chorus: Effect Level 0,,100|-----+-----+-----| cc 3C|
|00 - 64|Chorus: Direct Level 0,,100|
|-----+-----+-----| cc 3D|00|(Reserved)| : :| cc 3F
|00||+-----+-----+-----| Algorithm 3 Guitar Multi
|-----+-----+-----| cc 0B|00 - 01|Compressor: SW
0,1 = Off,On|-----+-----+-----| cc 0C|00 - 64|
Compressor: Attack 0,,100|-----+-----+-----| cc 0D|
|00 - 64|Compressor: Level 0,,100|
|-----+-----+-----| cc 0E|00 - 64|Compressor:
Sustain 0,,100|-----+-----+-----| cc 0F|00 - 64|
Compressor: Tone 0,,100|-----+-----+-----| cc 10|
00 - 01|Auto/Touch Wah: SW 0,1 = Off,On|
|-----+-----+-----| cc 11|00 - 01|Auto/Touch Wah:
Filter Type 0,1 = LPF,BPF|-----+-----+-----| cc 12|
00 - 64|Auto/Touch Wah: Frequency 0,,100|
|-----+-----+-----| cc 13|00 - 64|Auto/Touch Wah:
Peak 0,,100|-----+-----+-----| cc 14|00 - 01|
Auto/Touch Wah: Polarity 0,1 = Up,Down|
|-----+-----+-----| cc 15|00 - 64|Touch Wah:
Trigger Sens 0,,100|-----+-----+-----| cc 16|00 -
64|Auto Wah: LFO Depth 0,,100|-----+-----+-----|
| cc 17|00 - 64|Auto Wah: LFO Rate 0,,100|
|-----+-----+-----| cc 18|00 - 01|Driver: SW 0,1 =
Off,On|-----+-----+-----| cc 19|00 - 02|Driver:
Type 0,1,2 = OD,DS,METAL|-----+-----+-----| cc
1A|00 - 64|Driver: Gain 0,,100|-----+-----+-----|
| cc 1B|00 - 64|Driver: Level 0,,100|
|-----+-----+-----| cc 1C|00 - 64|OD/DS: Tone
0,,100|-----+-----+-----| cc 1D|00 - 64|METAL:
High Gain 0,,100|-----+-----+-----| cc 1E|00 - 64|
METAL: Middle Gain 0,,100| 10 MIDI Implementation
|-----+-----+-----| cc 1F|00 - 64|METAL: Low
Gain 0,,100|-----+-----+-----| cc 20|00 - 01|Amp
Simulator: SW 0,1 = Off,On|-----+-----+-----| cc 21|
|00 - 02|Amp Simulator: Type ||| 0,1,2,3 = Small,Biltin,2Stack,3Stack|
|-----+-----+-----| cc 22|00 - 01|Noise Suppressor:
SW 0,1 = Off,On|-----+-----+-----| cc 23|00 - 64|
Noise Suppressor: Threshold 0,,100|
|-----+-----+-----| cc 24|00 - 64|Noise Suppressor:
Release 0,,100|-----+-----+-----| cc 25|00|
(Reserved)|-----+-----+-----| cc 26|00 - 01|
Delay: SW 0,1 = Off,On|-----+-----+-----| cc 27|01
- 02|Delay: Mode 1,2 = Mono,Alt|-----+-----+-----|
| cc 28|0aaaaaa|Delay: Delay Time| cc 29#|0bbbbbb| 1,,1200ms|

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|-----+-----+-----| | cc 2A | 00 - 64 | Delay: Feedback
0,,100| |-----+-----+-----| | cc 2B | 00 - 64 | Delay:
Effect Level 0,,100| |-----+-----+-----| | cc 2C | 00 - 64
| Delay: Direct Level 0,,100| |-----+-----+-----| | cc
                2D | 00 - 01 | Chorus/Flanger: SW 0,1 = Off,On|
|-----+-----+-----| | cc 2E | 00 - 01 | Chorus/Flanger:
Mode 0,1 = Chorus,Flanger| |-----+-----+-----| | cc 2F
                | 00 - 01 | Chorus/Flanger: Modulation LR Phase 0,1 = Nor,Inv|
|-----+-----+-----| | cc 30 | 00 - 64 | Chorus/Flanger:
Depth 0,,100| |-----+-----+-----| | cc 31 | 00 - 64 |
Chorus/Flanger: Rate 0,,100| |-----+-----+-----| | cc
                32 | 00 - 64 | Flanger: Manual 0,,100|
|-----+-----+-----| | cc 33 | 00 - 64 | Flanger:
Resonance 0,,100| |-----+-----+-----| | cc 34 | 00 |
(Reserved) | : | cc 3F | 00 | | +-----+-----+-----|
Algorithm 4 Keyboard Multi |-----+-----+-----| | cc 0B
                | 00 - 01 | Ring Modulator: SW 0,1 = Off,On|
|-----+-----+-----| | cc 0C | 00 - 64 | Ring Modulator:
                Osc.

```



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