# Elektron Trinity CC Maps

BlueWolfSe7en rev 1.2 Sept 12

These are the CC maps I'm using for my project BlueWolfSe7en utilizing the Elektron Trinity with the Bitstream 3X.
Whilst this info is available elsewhere I couldn't find it all in one place so decided to compile it here.
Some of it was taken from documents on the Elektron user site; others from the relevant manuals & converted from Hex whilst others were triggered into the Renoise midi map function to discover their values as I couldn't find them online.
See also DEC to HEX conversion tables at the end.

I take no credit whatsoever for this info & it's free for you to distribute as you see fit. If you spot any errors please drop me an email phil@fluxacoustics.com & I'll correct it a.s.a.p. Hope it saves you some time, now back to music making. ☺

*Big shout out to Dataline, tIB, Tarekith, TrondC, SecretMusicUK, CatabolicDJ, Nils, DasWesen, Neil Baldwin, iPassenger & everyone at Elektron-Users for their hugely inspiring body of work!!! Thanks also to Elektron for building the most inspirational music machines ever!*

## Machinedrum SPS1-UW (Base Ch. 13)

| **Instrument** | **BD** | **SD** | **HT** | **MT** | **LT** | **CP** | **RS** | **CB** | **CH** | **OH** | **RC** | **CC** | **M1** | **M2** | **M3** | **M4** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MIDI CH | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 |
| Level | 8 | 9 | 10 | 11 | 8 | 9 | 10 | 11 | 8 | 9 | 10 | 11 | 8 | 9 | 10 | 11 |
| Param 1 | 16 | 40 | 72 | 96 | 16 | 40 | 72 | 96 | 16 | 40 | 72 | 96 | 16 | 40 | 72 | 96 |
| Param 2 | 17 | 41 | 73 | 97 | 17 | 41 | 73 | 97 | 17 | 41 | 73 | 97 | 17 | 41 | 73 | 97 |
| Param 3 | 18 | 42 | 74 | 98 | 18 | 42 | 74 | 98 | 18 | 42 | 74 | 98 | 18 | 42 | 74 | 98 |
| Param 4 | 19 | 43 | 75 | 99 | 19 | 43 | 75 | 99 | 19 | 43 | 75 | 99 | 19 | 43 | 75 | 99 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Param 5 | 20 | 44 | 76 | 100 | 20 | 44 | 76 | 100 | 20 | 44 | 76 | 100 | 20 | 44 | 76 | 100 |
| Param 6 | 21 | 45 | 77 | 101 | 21 | 45 | 77 | 101 | 21 | 45 | 77 | 101 | 21 | 45 | 77 | 101 |
| Param 7 | 22 | 46 | 78 | 102 | 22 | 46 | 78 | 102 | 22 | 46 | 78 | 102 | 22 | 46 | 78 | 102 |
| Param 8 | 23 | 47 | 79 | 103 | 23 | 47 | 79 | 103 | 23 | 47 | 79 | 103 | 23 | 47 | 79 | 103 |
| | | | | | | | | | | | | | | | | |
| AM Depth | 24 | 48 | 80 | 104 | 24 | 48 | 80 | 104 | 24 | 48 | 80 | 104 | 24 | 48 | 80 | 104 |
| AM rate | 25 | 49 | 81 | 105 | 25 | 49 | 81 | 105 | 25 | 49 | 81 | 105 | 25 | 49 | 81 | 105 |
| EQ Gain | 26 | 50 | 82 | 106 | 26 | 50 | 82 | 106 | 26 | 50 | 82 | 106 | 26 | 50 | 82 | 106 |
| EQ Freq | 27 | 51 | 83 | 107 | 27 | 51 | 83 | 107 | 27 | 51 | 83 | 107 | 27 | 51 | 83 | 107 |
| Filt Base Frq | 28 | 52 | 84 | 108 | 28 | 52 | 84 | 108 | 28 | 52 | 84 | 108 | 28 | 52 | 84 | 108 |
| Filt Width | 29 | 53 | 85 | 109 | 29 | 53 | 85 | 109 | 29 | 53 | 85 | 109 | 29 | 53 | 85 | 109 |
| Filt Q | 30 | 64 | 86 | 110 | 30 | 64 | 86 | 110 | 30 | 64 | 86 | 110 | 30 | 64 | 86 | 110 |
| SRR | 31 | 55 | 87 | 111 | 31 | 55 | 87 | 111 | 31 | 55 | 87 | 111 | 31 | 55 | 87 | 111 |
| | | | | | | | | | | | | | | | | |
| Dist | 32 | 56 | 88 | 112 | 32 | 56 | 88 | 112 | 32 | 56 | 88 | 112 | 32 | 56 | 88 | 112 |
| Vol | 33 | 57 | 89 | 113 | 33 | 57 | 89 | 113 | 33 | 57 | 89 | 113 | 33 | 57 | 89 | 113 |
| Pan | 34 | 58 | 90 | 114 | 34 | 58 | 90 | 114 | 34 | 58 | 90 | 114 | 34 | 58 | 90 | 114 |
| DLY | 35 | 59 | 91 | 115 | 35 | 59 | 91 | 115 | 35 | 59 | 91 | 115 | 35 | 59 | 91 | 115 |
| Rev | 36 | 60 | 92 | 116 | 36 | 60 | 92 | 116 | 36 | 60 | 92 | 116 | 36 | 60 | 92 | 116 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LFO speed | 37 | 61 | 93 | 117 | 37 | 61 | 93 | 117 | 37 | 61 | 93 | 117 | 37 | 61 | 93 | 117 |
| LFO Depth | 38 | 62 | 94 | 118 | 38 | 62 | 94 | 118 | 38 | 62 | 94 | 118 | 38 | 62 | 94 | 118 |
| LFO shp mix | 39 | 63 | 95 | 119 | 39 | 63 | 95 | 119 | 39 | 63 | 95 | 119 | 39 | 63 | 95 | 119 |
| **Mutes** | 12 | 13 | 14 | 15 | 12 | 13 | 14 | 15 | 12 | 13 | 14 | 15 | 12 | 13 | 14 | 15 |

## MONOMACHINE SFX60+ (Base Ch. 1 Span 6)

| **Track** | **1** | **2** | **3** | **4** | **5** | **6** |
|---|---|---|---|---|---|---|
| MIDI CH | 1 | 2 | 3 | 4 | 5 | 6 |
| Level | 7 | 7 | 7 | 7 | 7 | 7 |
| **Synthesis** | | | | | | |
| Param 1 | 48 | 48 | 48 | 48 | 48 | 48 |
| Param 2 | 49 | 49 | 49 | 49 | 49 | 49 |
| Param 3 | 50 | 50 | 50 | 50 | 50 | 50 |
| Param 4 | 51 | 51 | 51 | 51 | 51 | 51 |
| Param 5 | 52 | 52 | 52 | 52 | 52 | 52 |
| Param 6 | 53 | 53 | 53 | 53 | 53 | 53 |
| Param 7 | 54 | 54 | 54 | 54 | 54 | 54 |
| Param 8 | 55 | 55 | 55 | 55 | 55 | 55 |

**Amplification**

| | | | | | | |
|---|---|---|---|---|---|---|
| Attack | 56 | 56 | 56 | 56 | 56 | 56 |
| Hold | 57 | 57 | 57 | 57 | 57 | 57 |
| Decay | 58 | 58 | 58 | 58 | 58 | 58 |
| Release | 59 | 59 | 59 | 59 | 59 | 59 |
| Distortion | 60 | 60 | 60 | 60 | 60 | 60 |
| Volume | 61 | 61 | 61 | 61 | 61 | 61 |
| Pan | 62 | 62 | 62 | 62 | 62 | 62 |
| Portamento | 63 | 63 | 63 | 63 | 63 | 63 |

**Filter**

| | | | | | | |
|---|---|---|---|---|---|---|
| Base | 72 | 72 | 72 | 72 | 72 | 72 |
| Width | 73 | 73 | 73 | 73 | 73 | 73 |
| HPQ | 74 | 74 | 74 | 74 | 74 | 74 |
| LPQ | 75 | 75 | 75 | 75 | 75 | 75 |
| Attack | 76 | 76 | 76 | 76 | 76 | 76 |
| Decay | 77 | 77 | 77 | 77 | 77 | 77 |
| BOFS | 78 | 78 | 78 | 78 | 78 | 78 |
| WOFS | 79 | 79 | 79 | 79 | 79 | 79 |

**Effects**

| | | | | | | |
|---|---|---|---|---|---|---|
| EQ Freq | 80 | 80 | 80 | 80 | 80 | 80 |
| EQ Gain | 81 | 81 | 81 | 81 | 81 | 81 |
| SRR | 82 | 82 | 82 | 82 | 82 | 82 |
| Dly Time | 83 | 83 | 83 | 83 | 83 | 83 |
| Dly Send | 84 | 84 | 84 | 84 | 84 | 84 |
| Dly Feedback | 85 | 85 | 85 | 85 | 85 | 85 |
| Dly Base | 86 | 86 | 86 | 86 | 86 | 86 |
| Dly Width | 87 | 87 | 87 | 87 | 87 | 87 |

**LFO 1**

| | | | | | | |
|---|---|---|---|---|---|---|
| Page | 88 | 88 | 88 | 88 | 88 | 88 |
| Destination | 89 | 89 | 89 | 89 | 89 | 89 |
| Trig mode | 90 | 90 | 90 | 90 | 90 | 90 |
| Waveform | 91 | 91 | 91 | 91 | 91 | 91 |
| Multiplier | 92 | 92 | 92 | 92 | 92 | 92 |
| Speed | 93 | 93 | 93 | 93 | 93 | 93 |
| Interlace | 94 | 94 | 94 | 94 | 94 | 94 |
| Depth | 95 | 95 | 95 | 95 | 95 | 95 |

**LFO 2**

| | | | | | | |
|---|---|---|---|---|---|---|
| Page | 104 | 104 | 104 | 104 | 104 | 104 |
| Destination | 105 | 105 | 105 | 105 | 105 | 105 |
| Trig mode | 106 | 106 | 106 | 106 | 106 | 106 |
| Waveform | 107 | 107 | 107 | 107 | 107 | 107 |
| Multiplier | 108 | 108 | 108 | 108 | 108 | 108 |
| Speed | 109 | 109 | 109 | 109 | 109 | 109 |
| Interlace | 110 | 110 | 110 | 110 | 110 | 110 |
| Depth | 111 | 111 | 111 | 111 | 111 | 111 |

**LFO 3**

| | | | | | | |
|---|---|---|---|---|---|---|
| Page | 112 | 112 | 112 | 112 | 112 | 112 |
| Destination | 113 | 113 | 113 | 113 | 113 | 113 |
| Trig mode | 114 | 114 | 114 | 114 | 114 | 114 |
| Waveform | 115 | 115 | 115 | 115 | 115 | 115 |
| Multiplier | 116 | 116 | 116 | 116 | 116 | 116 |
| Speed | 117 | 117 | 117 | 117 | 117 | 117 |
| Interlace | 118 | 118 | 118 | 118 | 118 | 118 |
| Depth | 119 | 119 | 119 | 119 | 119 | 119 |
| Mutes | 3 | 3 | 3 | 3 | 3 | 3 |

# Octatrack DPS-1

| **Track** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
|---|---|---|---|---|---|---|---|---|
| MIDI CH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Level | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| **Playback** | | | | | | | | |
| Pitch | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Start | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Length | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Rate | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| RTrig | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| RTim | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| | | | | | | | | |
| **Amplifier** | | | | | | | | |
| Attack | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Hold | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Release | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Volume | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Balance | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| | | | | | | | | |
| **LFO** | | | | | | | | |
| Speed 1 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Speed 2 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| Speed 3 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Depth 1 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| Depth 2 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Depth3 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | | | | | | | | |
| **Effect 1** | | | | | | | | |
| Param 1 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| Param 2 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Param 3 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Param 4 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| Param 5 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| Param 6 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |

**Effect 2**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Param 1 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Param 2 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| Param 3 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| Param 4 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 |
| Param 5 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| Param 6 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |

**MUTES**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Audio | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| Midi | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 |

**Hexadecimal Conversion**

| DEC | HEX | DEC | HEX | DEC | HEX | DEC | HEX |
|---|---|---|---|---|---|---|---|
| 0 | 00 | 16 | 10 | 32 | 20 | 48 | 30 |
| 1 | 01 | 17 | 11 | 33 | 21 | 49 | 31 |
| 2 | 02 | 18 | 12 | 34 | 22 | 50 | 32 |
| 3 | 03 | 19 | 13 | 35 | 23 | 51 | 33 |
| 4 | 04 | 20 | 14 | 36 | 24 | 52 | 34 |
| 5 | 05 | 21 | 15 | 37 | 25 | 53 | 35 |
| 6 | 06 | 22 | 16 | 38 | 26 | 54 | 36 |
| 7 | 07 | 23 | 17 | 39 | 27 | 55 | 37 |
| 8 | 08 | 24 | 18 | 40 | 28 | 56 | 38 |
| 9 | 09 | 25 | 19 | 41 | 29 | 57 | 39 |
| 10 | 0A | 26 | 1A | 42 | 2A | 58 | 3A |
| 11 | 0B | 27 | 1B | 43 | 2B | 59 | 3B |
| 12 | 0C | 28 | 1C | 44 | 2C | 60 | 3C |
| 13 | 0D | 29 | 1D | 45 | 2D | 61 | 3D |
| 14 | 0E | 30 | 1E | 46 | 2E | 62 | 3E |
| 15 | 0F | 31 | 1F | 47 | 2F | 63 | 3F |

| DEC | HEX | DEC | HEX | DEC | HEX | DEC | HEX |
|---|---|---|---|---|---|---|---|
| 64 | 40 | 80 | 50 | 96 | 60 | 112 | 70 |
| 65 | 41 | 81 | 51 | 97 | 61 | 113 | 71 |
| 66 | 42 | 82 | 52 | 98 | 62 | 114 | 72 |
| 67 | 43 | 83 | 53 | 99 | 63 | 115 | 73 |
| 68 | 44 | 84 | 54 | 10 | 64 | 116 | 74 |
| 69 | 45 | 85 | 55 | 101 | 65 | 117 | 75 |
| 70 | 46 | 86 | 56 | 102 | 66 | 118 | 76 |
| 71 | 47 | 87 | 57 | 103 | 67 | 119 | 77 |
| 72 | 48 | 88 | 58 | 104 | 68 | 120 | 78 |
| 73 | 49 | 89 | 59 | 105 | 69 | 121 | 79 |
| 74 | 4A | 90 | 5A | 106 | 6A | 122 | 7A |
| 75 | 4B | 91 | 5B | 107 | 6B | 123 | 7B |
| 76 | 4C | 92 | 5C | 108 | 6C | 124 | 7C |
| 77 | 4D | 93 | 5D | 109 | 6D | 125 | 7D |
| 78 | 4E | 94 | 5E | 110 | 6E | 126 | 7E |
| 79 | 4F | 95 | 5F | 111 | 6F | 127 | 7F |

**Midi Ch. Dec to Hex**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | ALL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F | 7F |

# Understanding SYSEX

There are 9 parts to a sysEx string

1 2 3 4 5 6 7 8 9

Parts 1, 2 & 9 are part of the midi spec & are required. Note. SysEx always starts with F0 & ends with F7.

Part 3 is the device code.

Part 4 is the model ID.

Part 5 determines if we are sending (12h) or requesting (11h) data.

Part 6 is the start address on which the SysEx intends to act. It is at this address that you may wish to put a value (or values) or retrieve the current value(s). It always contains three bytes. Most synth manuals will provide you with a long "**address map**" table that explains what lives at each address. Although daunting on a first perusal, once you understand its function it becomes a wonderful resource.

Part 7 has two functions. If part 5 is 12h (sending data) then part 7 contains the *data* we are sending and can be one byte or many bytes in length. If it is 11h (requesting data) then it is the *number* of bytes we want the synth to send us.

Part 8 is the infamous Roland checksum, a way in which Roland machines do a bit of subtraction in order to verify the correct data, apparently!

European ID 20
Elektron ID 3C
MD ID 02
MNM 03

MD Delay ID 5D Param 1-8 = 0-7h (0-127)

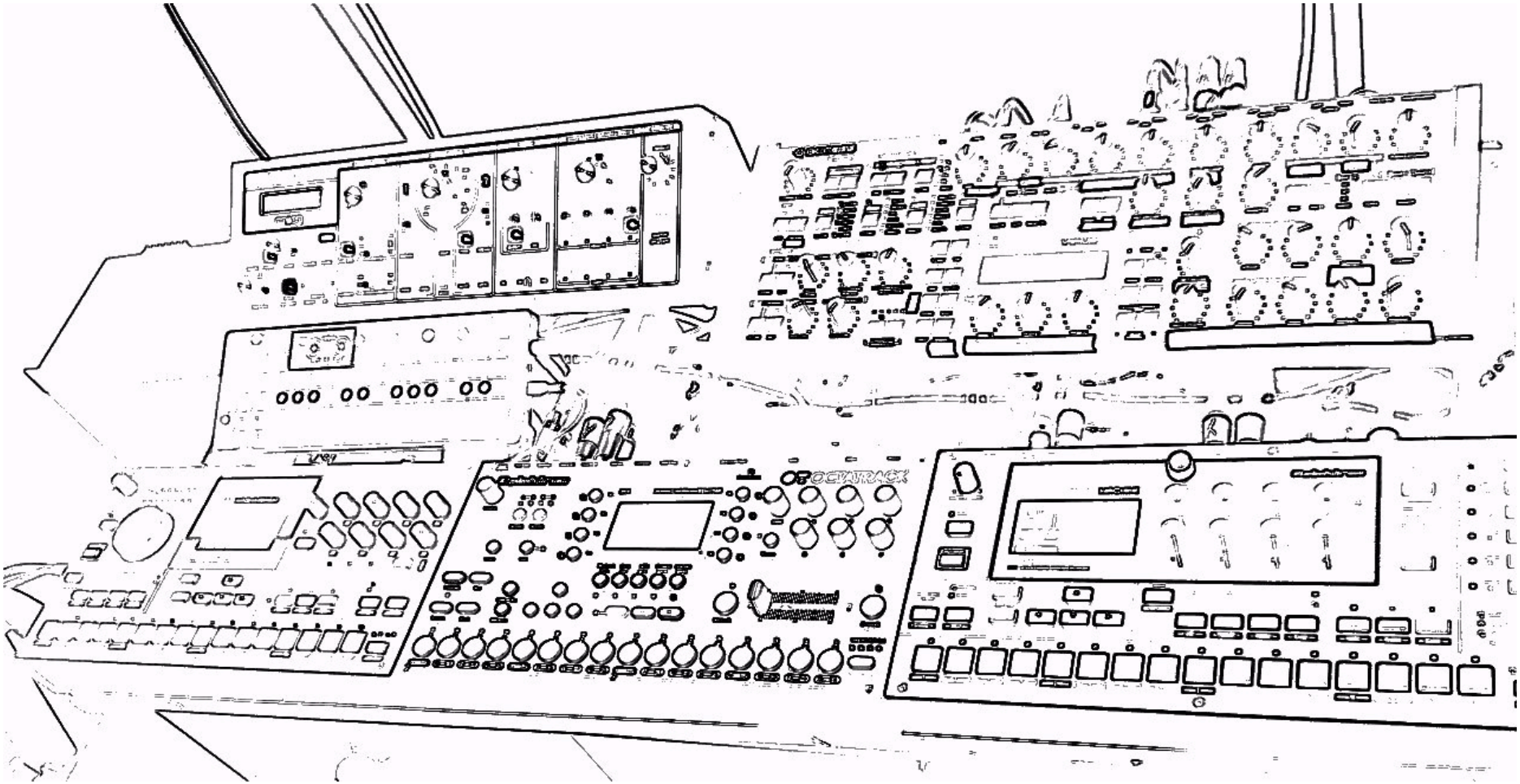
MD Reverb ID 5E Param 1-8 = 0-7h (0-127)

MD Dynamics ID 60 Param 1-8 = 0-7h (0-127)

*'h' denotes hexadecimal form*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| e.g. Delay time | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | F0 | 20 | 3C | 02 | 0B | 5D | 00 | 00 | F7 POS 5 DENOTES SEND DATA |
| Alt??? | F0 | 00 | 20 | 3C | 02 | 0B | 5D | 00 | F7 ALT |
| | F0 | 00 | 20 | 3C | 02 | 5D | 00 | 7F | F7 |
| | F0 | 0C | 20 | 3C | 02 | 5D | 00 | 7F | F7 midi ch pos 2? |
| | F0 | 0B | 20 | 3C | 02 | 5D | 00 | 7F | F7 SEND AT POS 2? |

NOTE I've had no success whatsoever with these sysex strings & the MD. Be more than happy to hear from anyone who does ☺
PM bluewolfse7en at the Elektron forum or use the email at the top of the page.


OCTATRACK