Circuit Programmer's Reference Guide v1.0 Paul Whittington Jonathan Page

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Circuit MIDI Parameters

Synths 1 & 2 (Send messages on MIDI Channel 1 for Synth 1 and Channel 2 for Synth 2)

Section	Parameter	CC / NRPN	Control No.	Range	Default Value	Notes
Voice	Parameter	CC / INRPIN	Control No.	Kange	Default Value	Notes
VOICE	Polyphony Mode	СС	3	0 – 2	2	0=Mono, 1=Mono AG, 2=Poly
	Portamento Rate	CC	5	0 – 127	0	0-Mono, 1-Mono Ad, 2-1 ory
	Pre-Glide	CC	9	52 – 76 (-12 – 12)	64 (0)	
	Keyboard Octave	CC	13	58 – 69 (-6 – 5)	64 (0)	60=-4 Octaves, 64=0 Octaves, 68=+4 Octaves
Oscillato		100	1 23	30 03 (0 3)	0.(0)	00 1 0000000, 01 0 0000000, 00 11 0000000
	osc 1 wave	СС	19	0 – 29	2	See Osc Waveform Table
	osc 1 wave interpolate	СС	20	0 – 127	0	
	osc 1 pulse width index	CC	21	0 - 127 (-64 - 63)	127 (63)	
	osc 1 virtual sync depth	CC	22	0 – 127	0	
	osc 1 density	СС	24	0 – 127	0	
	osc 1 density detune	CC	25	0 – 127	0	
	osc 1 semitones	CC	26	0 - 127 (-64 - 63)	64 (0)	
	osc 1 cents	CC	27	0 - 127 (-64 - 63)	64 (0)	
	osc 1 pitchbend	CC	28	52 – 76 (-12 – 12)	76 (12)	
	osc 2 wave	CC	29	0 – 29	2	See Osc Waveform Table
	osc 2 wave interpolate	CC	30	0 – 127	0	
	osc 2 pulse width index	CC	31	0 - 127 (-64 - 63)	127 (63)	
	osc 2 virtual sync depth	CC	33	0 – 127	0	
	osc 2 density	СС	35	0 – 127	0	
	osc 2 density detune	СС	36	0 – 127	0	
	osc 2 semitones	СС	37	0 - 127 (-64 - 63)	64 (0)	
	osc 2 cents	СС	39	0 - 127 (-64 - 63)	64 (0)	
	osc 2 pitchbend	CC	40	52 – 76 (-12 – 12)	76 (12)	
Mixer			,		1	
	osc 1 level	СС	51	0 – 127	127	
	osc 2 level	СС	52	0 – 127	0	
	ring mod level	CC	54	0 – 127	0	
	noise level	СС	56	0 – 127	0	
	pre FX level	СС	58	52 – 82 (-12 – 18)	64 (0)	-12 to +18 dB
	post FX level	СС	59	52 – 82 (-12 – 18)	64 (0)	-12 to +18 dB
Filter			T	T	T	
	routing	СС	60	0 – 2	0	0=Normal
						1=Osc 1 bypasses the filter
	al attack		62	0 127	0	2=Osc 1 + Osc 2 bypasses the filter
	drive	CC	63	0 – 127	0	Con Film Table
	drive type	CC	65	0 – 6 0 – 5	0	See Filter Table
	type		68	0-5	1 1	
		CC	71	0 127	127	
1	frequency	CC	74	0 – 127	127	
	tracking	CC	69	0 – 127	127	
	tracking resonance	CC	69 71	0 – 127 0 – 127	127 0	
	tracking resonance Q normalize	CC CC	69 71 78	0 – 127 0 – 127 0 – 127	127 0 64	
Envelone	tracking resonance Q normalize env 2 to frequency	CC	69 71	0 – 127 0 – 127	127 0	
Envelope	tracking resonance Q normalize env 2 to frequency	CC	69 71 78 79	0-127 0-127 0-127 0-127 (-64-63)	127 0 64 64 (0)	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity	CC CC CC CC	69 71 78 79	0 - 127 0 - 127 0 - 127 0 - 127 (-64 - 63) 0 - 127 (-64 - 63)	127 0 64 64 (0)	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack	CC	69 71 78 79	0-127 0-127 0-127 0-127 (-64-63)	127 0 64 64 (0)	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay	CC CC CC CC	69 71 78 79 108 73 75	0 - 127 0 - 127 0 - 127 0 - 127 (-64 - 63) 0 - 127 (-64 - 63) 0 - 127 0 - 127	127 0 64 64 (0) 64 (0) 2 90	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack	CC CC CC	69 71 78 79 108 73	0 - 127 0 - 127 0 - 127 0 - 127 (-64 - 63) 0 - 127 (-64 - 63) 0 - 127	127 0 64 64 (0) 64 (0) 2	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain	CC CC CC CC CC CC	69 71 78 79 108 73 75 70	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127	127 0 64 64 (0) 64 (0) 2 90 127 40	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release	CC CC CC CC CC	69 71 78 79 108 73 75 70 72	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127	127 0 64 64 (0) 64 (0) 2 90 127	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity	CC	69 71 78 79 108 73 75 70 72 0:0	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 (-64-63)	127 0 64 64 (0) 64 (0) 2 90 127 40 64 (0)	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack	CC	69 71 78 79 108 73 75 70 72 0:0	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 (-64-63) 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay	CC	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63)	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain	CC NRPN NRPN	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 64 (0) 2 90 127 40 64 (0) 2 75 35 45	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 2 release env 3 delay	CC CC CC CC CC CC CC CC NRPN NRPN NRPN N	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 2 release env 3 delay env 3 attack	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 (-64-63) 0-127 0-127 (-64-63) 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 2 release env 3 delay env 3 attack env 3 decay	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70	
Envelope	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 (-64-63) 0-127 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64	
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 (-64-63) 0-127 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64	See LFO waveform table
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40	See LFO waveform table (0° - 357°) in steps of 3°
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release	CC NRPN NRPN	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40	
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release	CC CC CC CC CC CC CC CC CC NRPN NRPN NRP	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40 0	
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release	CC NRPN NRPN	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40 0 0	
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release	CC NRPN NRPN	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18 0:70 0:71 0:72 0:74 0:75 0:76	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40 0 0 0	
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release lfo 1 waveform lfo 1 phase offset lfo 1 delay lfo 1 delay lfo 1 rate lfo 1 rate lfo 1 rate lfo 1 rate	CC NRPN NRPN	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18 0:70 0:71 0:72 0:74 0:75 0:76 0:77	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40 0 0 0 0 0 0 0 68 0	(0° - 357°) in steps of 3°
	tracking resonance Q normalize env 2 to frequency e env 1 velocity env 1 attack env 1 decay env 1 sustain env 1 release env 2 velocity env 2 attack env 2 decay env 2 sustain env 2 release env 3 delay env 3 attack env 3 decay env 3 sustain env 3 release lfo 1 waveform lfo 1 phase offset lfo 1 delay lfo 1 delay lfo 1 rate	CC NRPN NRPN	69 71 78 79 108 73 75 70 72 0:0 0:1 0:2 0:3 0:4 0:14 0:15 0:16 0:17 0:18 0:70 0:71 0:72 0:74 0:75 0:76	0-127 0-127 0-127 0-127 (-64-63) 0-127 (-64-63) 0-127	127 0 64 64 (0) 2 90 127 40 64 (0) 2 75 35 45 0 10 70 64 40 0 0 0 0 0 0 68	

	T to a		0.400	1.0 1.7	46 (055)	46 055 47 011
	lfo 1 common sync	NRPN	0:122	16 – 17	16 (OFF)	16=OFF, 17=ON
	lfo 1 delay trigger	NRPN	0:122	18 – 19	18 (OFF)	18=OFF, 19=ON
	lfo 1 fade mode	NRPN	0:123	0-3	0	0=Fade In, 1=Fade Out, 2=Gate In, 3=Gate Out
	Ifo 2 waveform	NRPN	0:79	0 – 37	0	See LFO Waveform Table
	Ifo 2 phase offset	NRPN	0:80	0 – 119	0	(0° - 357°) in steps of 3°
	Ifo 2 slew rate	NRPN	0:81	0 – 127	0	
	lfo 2 delay	NRPN	0:83	0 – 127	0	
	Ifo 2 delay sync	NRPN	0:84	0 – 35	0	
	Ifo 2 rate	NRPN	0:85	0 – 127	68	
	Ifo 2 rate sync	NRPN	0:86	0 – 35	0	
	Ifo 2 one shot	NRPN	0:122	22 – 23	22 (OFF)	22=OFF, 23=ON
	Ifo 2 key sync	NRPN	0:122	24 – 25	24 (OFF)	24=OFF, 25=ON
	Ifo 2 common sync	NRPN	0:122	26 – 27	26 (OFF)	26=OFF, 27=ON
	· · · · · · · · · · · · · · · · · · ·			-	, ,	·
	Ifo 2 delay trigger	NRPN	0:122	28 – 29	28 (OFF)	28=OFF, 29=ON
	Ifo 2 fade mode	NRPN	0:123	4 – 7	4	4=Fade In, 5=Fade Out, 6=Gate In, 7=Gate Out
Effects a			1			
	distortion level	CC	91	0 – 127	0	
	chorus level	CC	93	0 – 127	0	
	EQ bass frequency	NRPN	0:104	0 – 127	64	
	EQ bass level	NRPN	0:105	0 - 127 (-64 - 63)	64 (0)	
	EQ mid frequency	NRPN	0:106	0 – 127	64	
	EQ mid level	NRPN	0:107	0 – 127 (-64 – 63)	64 (0)	
	EQ treble frequency	NRPN	0:108	0 – 127	125	
-	EQ treble frequency	NRPN	0:108	0 – 127 (-64 – 63)	64 (0)	
	-			0-127 (-64-63)	0	San Distortion Table
-	distortion type	NRPN	1:0			See Distortion Table
	distortion compensation	NRPN	1:1	0 – 127	100	
	chorus type	NRPN	1:24	0-1	1	0=Phaser, 1=Chorus
	chorus rate	NRPN	1:25	0 – 127	84 (20)	
	chorus rate sync	NRPN	1:26	0 – 35	0	
	chorus feedback	NRPN	1:27	0 - 127 (-64 - 63)	74 (10)	
	chorus mod depth	NRPN	1:28	0 – 127	64	
	chorus delay	NRPN	1:29	0 – 127	64	
Mod Ma	•					
1110011110	mod matrix 1 source 1	NRPN	1:83	0 – 12	0	See Mod Matrix Table
	mod matrix 1 source 2	NRPN	1:84	0 – 12	0	See Mod Matrix Table
		†				See Mod Matrix Table
	mod matrix 1 depth	NRPN	1:86	0 – 127 (-64 – 63)	64 (0)	
	mod matrix 1 destination	NRPN	1:87	0 – 17	0	See Mod Matrix Table
	mod matrix 2 source 1	NRPN	1:88	0 – 12	0	See Mod Matrix Table
	mod matrix 2 source 2	NRPN	1:89	0 – 12	0	See Mod Matrix Table
	mod matrix 2 source 2 mod matrix 2 depth	NRPN NRPN	1:89 1:91	0 - 12 0 - 127 (-64 - 63)	0 64 (0)	See Mod Matrix Table
						See Mod Matrix Table See Mod Matrix Table
	mod matrix 2 depth	NRPN	1:91	0 – 127 (-64 – 63)	64 (0)	
	mod matrix 2 depth mod matrix 2 destination	NRPN NRPN	1:91 1:92	0 - 127 (-64 - 63) 0 - 17	64 (0)	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2	NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12	64 (0) 0 0	See Mod Matrix Table See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth	NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96	0-127 (-64-63) 0-17 0-12 0-12 0-127 (-64-63)	64 (0) 0 0 0 0 64 (0)	See Mod Matrix Table See Mod Matrix Table See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination	NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97	0-127 (-64-63) 0-17 0-12 0-12 0-12 0-127 (-64-63) 0-17	64 (0) 0 0 0 64 (0) 0	See Mod Matrix Table See Mod Matrix Table See Mod Matrix Table See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12	64 (0) 0 0 0 64 (0) 0	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12	64 (0) 0 0 0 64 (0) 0 0	See Mod Matrix Table See Mod Matrix Table See Mod Matrix Table See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101	0-127 (-64-63) 0-17 0-12 0-12 0-12 0-127 (-64-63) 0-17 0-12 0-12 0-127 (-64-63)	64 (0) 0 0 0 64 (0) 0 0 0 0 64 (0)	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102	0-127 (-64-63) 0-17 0-12 0-12 0-12 0-127 (-64-63) 0-17 0-12 0-127 (-64-63) 0-17	64 (0) 0 0 0 64 (0) 0 0 0 64 (0) 0	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth mod matrix 4 destination mod matrix 5 source 1	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102 1:103	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12	64 (0) 0 0 0 64 (0) 0 0 64 (0) 0 0 0	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth mod matrix 5 source 1 mod matrix 5 source 1 mod matrix 5 source 2	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102 1:103 1:104	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 (-64 - 63) 0 - 17	64 (0) 0 0 64 (0) 0 0 64 (0) 0 64 (0) 0	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth mod matrix 4 destination mod matrix 5 source 1	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102 1:103	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12	64 (0) 0 0 0 64 (0) 0 0 64 (0) 0 0 0	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth mod matrix 5 source 1 mod matrix 5 source 1 mod matrix 5 source 2	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102 1:103 1:104	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 (-64 - 63) 0 - 17	64 (0) 0 0 64 (0) 0 0 64 (0) 0 64 (0) 0	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth mod matrix 5 source 1 mod matrix 5 source 1 mod matrix 5 source 2 mod matrix 5 source 2	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102 1:103 1:104 1:106	0-127 (-64-63) 0-17 0-12 0-12 0-12 0-12 (-64-63) 0-17 0-12 0-12 (-64-63) 0-17 0-12 (-64-63) 0-17	64 (0) 0 0 64 (0) 0 0 64 (0) 0 0 0 0 64 (0)	See Mod Matrix Table
	mod matrix 2 depth mod matrix 2 destination mod matrix 3 source 1 mod matrix 3 source 2 mod matrix 3 depth mod matrix 3 destination mod matrix 4 source 1 mod matrix 4 source 2 mod matrix 4 depth mod matrix 4 depth mod matrix 5 source 1 mod matrix 5 source 1 mod matrix 5 source 2 mod matrix 5 source 2 mod matrix 5 depth mod matrix 5 depth	NRPN NRPN NRPN NRPN NRPN NRPN NRPN NRPN	1:91 1:92 1:93 1:94 1:96 1:97 1:98 1:99 1:101 1:102 1:103 1:104 1:106 1:107	0 - 127 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 12 0 - 12 (-64 - 63) 0 - 17 0 - 12 0 - 12 (-64 - 63) 0 - 17 0 - 12 0 - 12 0 - 12 0 - 12 0 - 17	64 (0) 0 0 64 (0) 0 0 64 (0) 0 0 0 0 0 0 0 0 0 64 (0) 0 0 0 0 0 0 0 0 0 0 0 0 0	See Mod Matrix Table
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mod marks 13 source 2 NRPN 2.16							
mod matrix 13 depth							
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mod matrix 14 source 1		mod matrix 13 depth	NRPN	2:18	0 - 127 (-64 - 63)	64 (0)	
mod matrix 14 source 1		•	NRPN	2:19	` '	· '	See Mod Matrix Table
mod matrix 14 source 2 NRPN 2:21 0 - 12 0 See Mod Matrix Table mod matrix 14 destination NRPN 2:23 0 - 127 (c4 - 63) 64 (0) mod matrix 15 source 1 NRPN 2:25 0 - 127 0 See Mod Matrix Table mod matrix 15 source 2 NRPN 2:25 0 - 12 0 See Mod Matrix Table mod matrix 15 source 2 NRPN 2:25 0 - 12 0 See Mod Matrix Table mod matrix 15 depth NRPN 2:28 0 - 127 (c4 - 63) 64 (0) Matrix Table mod matrix 15 depth NRPN 2:29 0 - 17 0 See Mod Matrix Table Mod matrix 15 depth NRPN 2:29 0 - 17 0 See Mod Matrix Table Mod matrix 16 source 2 NRPN 2:30 0 - 12 0 See Mod Matrix Table Mod matrix 16 source 2 NRPN 2:30 0 - 12 0 See Mod Matrix Table Mod matrix 16 source 2 NRPN 2:33 0 - 127 (c4 - 63) 64 (0) Mod matrix 15 source 2 NRPN 2:33 0 - 127 (c4 - 63) 64 (0) Mod matrix 15 source 2 NRPN 2:33 0 - 127 (c4 - 63) 64 (0) Mod matrix 17 source 1 NRPN 2:35 0 - 12 0 See Mod Matrix Table Mod matrix 17 source 2 NRPN 2:37 0 - 12 0 See Mod Matrix Table Mod matrix 17 depth NRPN 2:38 0 - 127 (c4 - 63) 64 (0) Mod matrix 17 depth NRPN 2:38 0 - 127 (c4 - 63) 64 (0) Mod matrix 17 depth NRPN 2:38 0 - 127 (c4 - 63) 64 (0) Mod matrix 18 source 2 NRPN 2:39 0 - 17 0 See Mod Matrix Table Mod matrix 18 source 1 NRPN 2:39 0 - 17 0 See Mod Matrix Table Mod matrix 18 source 2 NRPN 2:39 0 - 17 0 See Mod Matrix Table Mod matrix 18 source 2 NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod matrix 18 depth NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod matrix 18 depth NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod matrix 19 source 2 NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod matrix 19 source 2 NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod matrix 19 source 2 NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod matrix 19 source 2 NRPN 2:40 0 - 12 0 See Mod Matrix Table Mod m							
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mod matrix 15 source 2 NRPN 2:27 0 - 12 0 See Mod Matrix Table		mod matrix 15 source 1	NRPN	2:25	0 – 12	0	See Mod Matrix Table
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mod matrix 16 depth		mod matrix 16 source 1	NRPN	2:30	0 – 12	0	See Mod Matrix Table
mod matrix 16 destination		mod matrix 16 source 2	NRPN	2:32	0 – 12	0	See Mod Matrix Table
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mod matrix 20 source 1 NRPN 2:50 0 - 12 0 See Mod Matrix Table		mod matrix 19 depth				+ · · ·	
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macro knob 2 destination B NRPN 3:20 0 – 70 0		macro knob 2 destination B	NRPN	3:20	0 – 70	0	
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macro knob 2 depth B NRPN 3:23 0 – 127 (-64 – 63) 64 (0)						· '	
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macro knob 3 destination A NRPN 3:32 0 − 70 0							
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\vdash	macro knob 3 depth A	NRPN	3:35	0 – 127 (-64 – 63)	64 (0)
	macro knob 3 destination B	NRPN	3:36	0 – 70	0
	macro knob 3 start position B	NRPN	3:37	0 – 127	0
	macro knob 3 end position B	NRPN	3:38	0 – 127	127
	macro knob 3 depth B	NRPN	3:39	0 - 127 (-64 - 63)	64 (0)
	macro knob 3 destination C	NRPN	3:40	0 - 70	0
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	macro knob 3 start position C	NRPN	3:41	0 – 127	0
	macro knob 3 end position C	NRPN	3:42	0 – 127	127
	macro knob 3 depth C	NRPN	3:43	0 - 127 (-64 - 63)	64 (0)
	macro knob 3 destination D	NRPN	3:44	0 – 70	0
	macro knob 3 start position D	NRPN	3:45	0 – 127	0
	•				127
	macro knob 3 end position D	NRPN	3:46	0 – 127	
	macro knob 3 depth D	NRPN	3:47	0 – 127 (-64 – 63)	64 (0)
	macro knob 4 position	CC	83	0 – 127	0
	macro knob 4 destination A	NRPN	3:48	0 – 70	0
	macro knob 4 start position A	NRPN	3:49	0 – 127	0
	macro knob 4 end position A	NRPN	3:50	0 – 127	127
	macro knob 4 depth A	NRPN	3:51	0 – 127 (-64 – 63)	64 (0)
	macro knob 4 destination B	NRPN	3:52	0 – 70	0
	macro knob 4 start position B	NRPN	3:53	0 – 127	0
	macro knob 4 end position B	NRPN	3:54	0 – 127	127
	macro knob 4 depth B	NRPN	3:55	0 - 127 (-64 - 63)	64 (0)
 	macro knob 4 destination C		3:56	0 - 127 (-04 - 03)	0
		NRPN			
	macro knob 4 start position C	NRPN	3:57	0 – 127	0
	macro knob 4 end position C	NRPN	3:58	0 – 127	127
	macro knob 4 depth C	NRPN	3:59	0 - 127 (-64 - 63)	64 (0)
	macro knob 4 destination D	NRPN	3:60	0 – 70	0
 					0
\vdash	macro knob 4 start position D	NRPN	3:61	0 – 127	
	macro knob 4 end position D	NRPN	3:62	0 – 127	127
	macro knob 4 depth D	NRPN	3:63	0 - 127 (-64 - 63)	64 (0)
	macro knob 5 position	CC	84	0 – 127	0
	macro knob 5 destination A	NRPN	3:64	0 – 70	0
		NRPN	3:65	0 – 127	0
	macro knob 5 start position A				
	macro knob 5 end position A	NRPN	3:66	0 – 127	127
	macro knob 5 depth A	NRPN	3:67	0 - 127 (-64 - 63)	64 (0)
	macro knob 5 destination B	NRPN	3:68	0 – 70	0
	macro knob 5 start position B	NRPN	3:69	0 – 127	0
-	macro knob 5 end position B	NRPN	3:70	0 – 127	127
-					
	macro knob 5 depth B	NRPN	3:71	0 – 127 (-64 – 63)	64 (0)
	macro knob 5 destination C	NRPN	3:72	0 – 70	0
	macro knob 5 start position C	NRPN	3:73	0 – 127	0
	macro knob 5 end position C	NRPN	3:74	0 – 127	127
	macro knob 5 depth C	NRPN	3:75	0 – 127 (-64 – 63)	64 (0)
	•			, ,	0
	macro knob 5 destination D	NRPN	3:76	0 – 70	
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	macro knob 5 end position D macro knob 5 depth D macro knob 6 position macro knob 6 destination A macro knob 6 start position A	NRPN NRPN CC NRPN NRPN	3:78 3:79 85 3:80 3:81	0-127 0-127 (-64-63) 0-127 0-70 0-127	0 127 64 (0) 0 0
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	macro knob 5 end position D macro knob 5 depth D macro knob 6 position macro knob 6 destination A macro knob 6 start position A macro knob 6 end position A macro knob 6 depth A macro knob 6 destination B macro knob 6 start position B macro knob 6 end position B macro knob 6 depth B macro knob 6 destination C macro knob 6 start position C macro knob 6 end position C macro knob 6 end position C	NRPN NRPN CC NRPN NRPN NRPN NRPN NRPN NR	3:78 3:79 85 3:80 3:81 3:82 3:83 3:84 3:85 3:86 3:87 3:88 3:89 3:90 3:91	0-127 0-127 (-64-63) 0-127 0-70 0-127 0-127 0-127 0-127 (-64-63) 0-70 0-127 0-127 0-127 0-127 0-127 0-127 0-127 0-127	0 127 64 (0) 0 0 0 127 64 (0) 0 0 127 64 (0) 0 0 127 64 (0) 0 0 127 64 (0) 0 0 127 64 (0)
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macro knob 7 depth C	NRPN	3:107	0 – 127 (-64 – 63)	64 (0)
macro knob 7 destination D	NRPN	3:108	0 – 70	0
macro knob 7 start position D	NRPN	3:109	0 – 127	0
macro knob 7 end position D	NRPN	3:110	0 – 127	127
macro knob 7 depth D	NRPN	3:111	0 - 127 (-64 - 63)	64 (0)
macro knob 8 position	CC	87	0 – 127	0
macro knob 8 destination A	NRPN	3:112	0 – 70	0
macro knob 8 start position A	NRPN	3:113	0 – 127	0
macro knob 8 end position A	NRPN	3:114	0 – 127	127
macro knob 8 depth A	NRPN	3:115	0 - 127 (-64 - 63)	64 (0)
macro knob 8 destination B	NRPN	3:116	0 – 70	0
macro knob 8 start position B	NRPN	3:117	0 – 127	0
macro knob 8 end position B	NRPN	3:118	0 – 127	127
macro knob 8 depth B	NRPN	3:119	0 - 127 (-64 - 63)	64 (0)
macro knob 8 destination C	NRPN	3:120	0 – 70	0
macro knob 8 start position C	NRPN	3:121	0 – 127	0
macro knob 8 end position C	NRPN	3:122	0 – 127	127
macro knob 8 depth C	NRPN	3:123	0 - 127 (-64 - 63)	64 (0)
macro knob 8 destination D	NRPN	3:124	0 – 70	0
macro knob 8 start position D	NRPN	3:125	0 – 127	0
macro knob 8 end position D	NRPN	3:126	0 – 127	127
macro knob 8 depth D	NRPN	3:127	0 - 127 (-64 - 63)	64 (0)
	macro knob 7 destination D macro knob 7 start position D macro knob 7 end position D macro knob 7 depth D macro knob 8 position macro knob 8 destination A macro knob 8 start position A macro knob 8 end position A macro knob 8 depth A macro knob 8 destination B macro knob 8 destination B macro knob 8 start position B macro knob 8 end position B macro knob 8 depth B macro knob 8 destination C macro knob 8 destination C macro knob 8 end position C macro knob 8 depth C macro knob 8 destination D macro knob 8 start position D macro knob 8 end position D	macro knob 7 destination D NRPN macro knob 7 start position D NRPN macro knob 7 end position D NRPN macro knob 7 depth D NRPN macro knob 8 position CCC macro knob 8 destination A NRPN macro knob 8 start position A NRPN macro knob 8 end position A NRPN macro knob 8 depth A NRPN macro knob 8 depth A NRPN macro knob 8 destination B NRPN macro knob 8 start position B NRPN macro knob 8 start position B NRPN macro knob 8 end position B NRPN macro knob 8 depth B NRPN macro knob 8 depth B NRPN macro knob 8 destination C NRPN macro knob 8 start position C NRPN macro knob 8 end position C NRPN macro knob 8 depth C NRPN macro knob 8 destination D NRPN macro knob 8 start position D NRPN	macro knob 7 destination D NRPN 3:108 macro knob 7 start position D NRPN 3:109 macro knob 7 end position D NRPN 3:110 macro knob 7 depth D NRPN 3:111 macro knob 8 position CC 87 macro knob 8 destination A NRPN 3:112 macro knob 8 start position A NRPN 3:113 macro knob 8 end position A NRPN 3:114 macro knob 8 depth A NRPN 3:115 macro knob 8 destination B NRPN 3:116 macro knob 8 start position B NRPN 3:116 macro knob 8 start position B NRPN 3:117 macro knob 8 start position B NRPN 3:118 macro knob 8 depth B NRPN 3:119 macro knob 8 destination C NRPN 3:120 macro knob 8 start position C NRPN 3:121 macro knob 8 depth C NRPN 3:123 macro knob 8 destination D NRPN 3:124 macro knob 8 start position D NRPN 3:125 macro knob 8 end position D NRPN 3:125 macro knob 8 end position D NRPN 3:125 macro knob 8 end position D NRPN 3:125	macro knob 7 destination D NRPN 3:108 0 - 70 macro knob 7 start position D NRPN 3:109 0 - 127 macro knob 7 end position D NRPN 3:110 0 - 127 macro knob 7 depth D NRPN 3:111 0 - 127 (-64 - 63) macro knob 8 position CC 87 0 - 127 macro knob 8 destination A NRPN 3:112 0 - 70 macro knob 8 start position A NRPN 3:113 0 - 127 macro knob 8 end position A NRPN 3:114 0 - 127 macro knob 8 depth A NRPN 3:115 0 - 127 (-64 - 63) macro knob 8 destination B NRPN 3:116 0 - 70 macro knob 8 start position B NRPN 3:117 0 - 127 macro knob 8 end position B NRPN 3:118 0 - 127 macro knob 8 depth B NRPN 3:119 0 - 127 (-64 - 63) macro knob 8 destination C NRPN 3:120 0 - 70 macro knob 8 end position C NRPN 3:122 0 - 127 macro knob 8 d

Filter Table

	Value	Туре
D	rive Type	
	0	diode
	1	valve
	2	clipper
	3	cross-over
	4	rectifier
	5	bit reducer
	6	rate reducer
Ty	/pe	
	0	low pass 12dB
	1	low pass 24dB
	2	band pass 6/\6 dB
	3	band pass 12/\12 dB
	4	high pass 12dB
	5	high pass 24dB

Distortion Table

Value	Туре
0	diode
1	valve
2	clipper
3	cross-over
4	rectify
5	bit reducer
6	rate reducer

Mod Matrix Table

Value	Туре
Source	
0	direct
1	modulation wheel
2	after touch
3	expression
4	velocity
5	keyboard
6	LFO 1 +
7	LFO 1 +/-
8	LFO 2 +
9	LFO 2 +/-
10	env amp
11	env filter
12	env 3
Destinatio	n
0	osc 1 pitch
1	osc 1 pitch
2	osc 2 pitch
3	osc 1 v-sync
4	osc 2 v-sync
5	osc 1 pulse width
6	osc 2 pulse width
7	osc 1 level
8	osc 2 level
9	noise level
10	ring modulation 1*2 level
11	drive amount
12	frequency
13	resonance
14	LFO 1 rate
15	LFO 2 rate
16	amp envelope decay
17	mod envelope decay

OSC Waveform Table

	Value	Туре			
W	Waveforms				
	0	sine			
	1	triangle			
	2	sawtooth			
	3	saw 9:1 PW			
	4	saw 8:2 PW			
	5	saw 7:3 PW			
	6	saw 6:4 PW			
	7	saw 5:5 PW			
	8	saw 4:6 PW			
	9	saw 3:7 PW			
	10	saw 2:8 PW			
	11	saw 1:9 PW			
	12	pulse width			
	13	square			
W	/avetable	S			
	14	sine table			
	15	analogue pulse			
	16	analogue sync			
	17	triangle-saw blend			
	18	digital nasty 1			
	19	digital nasty 2			
	20	digital saw-square			
	21	digital vocal 1			
	22	digital vocal 2			
	23	digital vocal 3			
	24	digital vocal 4			
	25	digital vocal 5			
	26	digital vocal 6			
	27	random collection 1			
	28	random collection 2			
	29	random collection 3			

LFO Waveform Table

Value	Туре			
0	sine			
1	triangle			
2	sawtooth			
3	square			
4	random S/H			
5	time S/H			
6	piano envelope			
7	sequence 1			
8	sequence 2			
9	sequence 3			
10	sequence 4			
11	sequence 5			
12	sequence 6			
13	sequence 7			
14	alternative 1			
15	alternative 2			
16	alternative 3			
17	alternative 4			
18	alternative 5			
19	alternative 6			
20	alternative 7			
21	alternative 8			
22	chromatic			
23	chromatic 16			
24	major			
25	major 7			
26	minor 7			
27	min arp 1			
28	min arp 2			
29	diminished			
30	dec minor			
31	minor 3rd			
32	pedal			
33	4ths			
34	4ths x12			
35	1625 maj			
36	1625 Min			
37	2511			

Patch and Session Select

MIDI Channel	Parameter	Value	Notes
1	PGM*	0 – 63	select synth 1 patch
2	PGM	0 – 63	select synth 2 patch
16	PGM	0 - 31	select session (instant)
16	PGM	64 – 95	select session (queued)

^{*}PGM = Program Change

Note, for drum patch selection see Drum Control table

Supported Realtime Messages

Message
start
stop
continue
timing clock

Supported System Common Messages

Message
song position pointer
song select

Drum Control

(messages on MIDI Channel 10)

Parameter	CC / NRPN	Control No.	Range	Default Value	Notes
drum 1 patch select	CC	8	0 – 63	0	
drum 1 level	CC	12	0 – 127	0	
drum 1 pitch	CC	14	0 - 127 (-64 - 63)	64 (0)	
drum 1 decay	CC	15	0 – 127	0	
drum 1 distortion	CC	16	0 – 127	0	
drum 1 EQ	CC	17	0 - 127 (-64 - 63)	64 (0)	
drum 1 pan	CC	77	0 - 127 (-64 - 63)	64 (0)	
drum 2 patch select	CC	18	0 – 63	0	
drum 2 level	CC	23	0 – 127	0	
drum 2 pitch	CC	34	0 - 127 (-64 - 63)	64 (0)	
drum 2 decay	CC	40	0 – 127	0	
drum 2 distortion	CC	42	0 – 127	0	
drum 2 EQ	CC	43	0 - 127 (-64 - 63)	64 (0)	
drum 2 pan	CC	78	0 - 127 (-64 - 63)	64 (0)	
drum 3 patch select	CC	44	0 – 63	0	
drum 3 level	CC	45	0 – 127	0	
drum 3 pitch	CC	46	0 - 127 (-64 - 63)	64 (0)	
drum 3 decay	CC	47	0 – 127	0	
drum 3 distortion	CC	48	0 – 127	0	
drum 3 EQ	CC	49	0 - 127 (-64 - 63)	64 (0)	
drum 3 pan	CC	79	0 - 127 (-64 - 63)	64 (0)	
drum 4 patch select	CC	50	0 – 63	0	
drum 4 level	CC	53	0 – 127	0	
drum 4 pitch	CC	55	0 - 127 (-64 - 63)	64 (0)	
drum 4 decay	CC	57	0 – 127	0	
drum 4 distortion	CC	61	0 – 127	0	
drum 4 EQ	CC	76	0 - 127 (-64 - 63)	64 (0)	
drum 4 pan	CC	80	0 - 127 (-64 - 63)	64 (0)	

Drum Notes Table

MIDI Note	Drum Number
60	Drum 1
62	Drum 2
64	Drum 3
65	Drum 4

Session Control

(Send messages on MIDI Channel 16)

Section	Parameter	CC / NRPN	Control No.	Range	Default Value	Notes
Reverb						
	synth 1 send level	CC	88	0 – 127	0	
	synth 2 send level	CC	89	0 – 127	0	
	drum 1 send level	CC	90	0 – 127	0	
	drum 2 send level	CC	106	0 – 127	0	
	drum 3 send level	CC	109	0 – 127	0	
	drum 4 send level	CC	110	0 – 127	0	
	type	NRPN	1:18	0-5	2	0=Chamber, 1=Small Room, 2=Large Room 3=Small Hall, 4=Large Hall, 5=Great Hall
	decay	NRPN	1:19	0 – 127	64	
	damping	NRPN	1:20	0 – 127	64	
Delay						
	synth 1 send level	CC	111	0 – 127	0	
	synth 2 send level	CC	112	0 – 127	0	
	drum 1 send level	CC	113	0 – 127	0	
	drum 2 send level	CC	114	0 – 127	0	
	drum 3 send level	CC	115	0 – 127	0	
	drum 4 send level	CC	116	0 – 127	0	
	time	NRPN	1:6	0 – 127	64	
	time sync	NRPN	1:7	0 – 35	20	
	feedback	NRPN	1:8	0 – 127	64	
	width	NRPN	1:9	0 – 127	127	
	left-right ratio	NRPN	1:10	0 – 12	4	0=1:1, 1=4:3, 2=3:4, 3=3:2, 4=2:3, 5=2:1, 6=1:2 7=3:1, 8=1:3, 9=4:1, 10=1:4, 11=1:0FF, 12=0FF:1
	slew rate	NRPN	1:11	0 – 127	5	
Master Fi	lter					
	frequency	CC	74	0 - 127 (-64 - 63)	64 (0)	0-63=Low Pass, 64=OFF, 65-127=High Pass
	resonance	CC	71	0 – 127	30	
Sidechain	1					
	synth 1 source	NRPN	2:55	0 – 4	0	0=Drum 1, 1=Drum 2, 2=Drum 3, 3=Drum 4, 4=OFF
	synth 1 attack	NRPN	2:56	0 – 127	0	
	synth 1 hold	NRPN	2:57	0 – 127	50	
	synth 1 decay	NRPN	2:58	0 – 127	70	
	synth 1 depth	NRPN	2:59	0 – 127	0	
	synth 2 source	NRPN	2:65	0 – 4	0	0=Drum 1, 1=Drum 2, 2=Drum 3, 3=Drum 4, 4=OFF
	synth 2 attack	NRPN	2:66	0 – 127	0	
	synth 2 hold	NRPN	2:67	0 – 127	50	
	synth 2 decay	NRPN	2:68	0 – 127	70	
	synth 2 depth	NRPN	1:69	0 – 127	0	
Mixer						
	synth 1 level	CC	12	0 – 127	100	
	synth 2 level	CC	14	0 – 127	100	
	synth 1 pan	CC	117	0 - 127 (-64 - 63)	64 (0)	
	synth 2 pan	СС	118	0 - 127 (-64 - 63)	64 (0)	
				<u>.</u>		
Additiona	al Controls					

Synth Patch Sysex Message Formats

For best results, we recommend using Circuit's USB connection for SysEx communication, as it is faster and more reliable. Although Circuit will receive SysEx messages via MIDI DIN, any response will be sent via USB only.

Replace Current Patch

This table describes the format of the "Replace current patch" message.

When this is received by Circuit it replaces the contents of the current sound (in RAM) for the specified Synth part. There are states in which the device is not capable of receiving this message. For example, it may be busy processing another sysex message. In these situations the message will be ignored. The message may be sent without delays between the bytes. However, consecutive messages should have at least 20 ms between them to allow time for processing.

Hex	Dec	Description
F0	240	Sysex message
00 20 29	0 32 41	Manufacturer ID (Novation)
01	1	Novation Product Type (Synth)
60	96	Novation Product Number (Circuit)
00	0	Circuit Command: 00h - Replace current patch
00 / 01	0/1	Location: 00h - Synth 1 01h - Synth 2
00	0	Reserved for future use: set to 0
00 - 7F	0 - 127	Synth patch data: 340 bytes (see the <u>Patch Table</u>)
F7	247	End of sysex (EOX)

350 bytes in total

Replace Patch

This table describes the format of the "Replace Patch" message.

When this is received by Circuit it replaces the contents of the specified patch in Flash memory.

There are states in which the device is not capable of receiving this message. For example, it may be busy processing another sysex message. In these situations the message will be ignored. The message may be sent without delays between the bytes. However, consecutive messages should have at least 20 ms between them to allow time for processing.

Hex	Dec	Description
F0	240	Sysex message
00 20 29	0 32 41	Manufacturer ID (Novation)
01	1	Novation Product Type (Synth)
60	96	Novation Product Number (Circuit)
01	1	Circuit Command: 01h - Replace Patch
00 - 3F	0 - 63	Patch number to overwrite
00	0	Reserved for future use: set to 0
00 - 7F	0 - 127	Synth patch data: 340 bytes (see the <u>Patch Table</u>)
F7	247	End of sysex (EOX)

350 bytes in total

Current Patch Dump Request

This table describes the format of the "Current Patch Dump Request" message. There are states in which the device is not capable of receiving this message. For example, it may be busy processing another sysex message. In these situations the message will be ignored. The message may be sent without delays between the bytes. However, consecutive messages should have at least 20 ms between them to allow time for processing.

When this message is received on either MIDI DIN or MIDI USB, Circuit will respond by sending a Replace Current Patch message to its USB port. The location in the response will match the location in the request, and the patch data will correspond accordingly.

Hex	Dec	Description
F0	240	Sysex message
00 20 29	0 32 41	Manufacturer ID (Novation)
01	1	Novation Product Type (Synth)
60	96	Novation Product Number (Circuit)
40	64	Circuit Command: 40h - Current Patch Dump Request
00 / 01	0/1	Location: 00h - Synth 1 01h - Synth 2
F7	247	End of sysex (EOX)

9 bytes in total

Patch Dump Request

To obtain a patch from Flash memory, follow these steps:

- 1. First send a Program Change message with the desired patch number (0 63) to a synth MIDI channel.
- 2. Wait enough time for the patch to load from Flash memory (10 ms should be plenty)
- 3. Send a Current Patch Dump Request message with the Location set to the corresponding Synth part.

Consecutive sequences should have at least 20 ms between them to allow time for processing.

Format of a Synth Patch (Single) SysEx File

To create a single patch in a portable format that can be shared with others, use a sysex file containing a single "Replace Current Patch" sysex message with the Location set to Synth 1.

Format of a Synth Patch (Bank) Sysex File

To create an entire bank of 64 synth patches, use a sysex file containing a concatenation of 64 separate "Replace Patch" sysex messages. Each message should overwrite consecutive patch numbers, starting from 0 and counting up to 63.

Synth Patch Format

Address	Default	Min	Max	Parameter(s)
0	73	-	-	Patch_Name
1	110	-	_	Patch_Name
2	105	-	-	Patch Name
3	116	-	_	Patch_Name
4	105	-	_	Patch_Name
5	97	_	_	Patch Name
6	108	-	_	Patch_Name
7	32	_	_	Patch_Name
8	80	-	-	Patch_Name
9	97	-	_	Patch_Name
10	116	-	-	Patch_Name
11	99	-	_	Patch_Name
12	104	-	-	Patch Name
13	32	-	-	Patch_Name
14	32	-	-	Patch_Name
15	32	-	-	Patch_Name
16	0	0	14	Patch_Category
17	0	0	9	Patch_Genre
18	0	-	-	Patch_Reserved1
19	0	-	-	Patch_Reserved2
20	0	-	-	Patch_Reserved3
21	0	-	-	Patch_Reserved4
22	0	-	-	Patch_Reserved5
23	0	-	-	Patch_Reserved6
24	0	-	-	Patch_Reserved7
25	0	-	-	Patch_Reserved8
26	0	-	-	Patch_Reserved9
27	0	-	-	Patch_Reserved10
28	0	-	-	Patch_Reserved11
29	0	-	-	Patch_Reserved12
30	0	-	-	Patch_Reserved13
31	0	-	-	Patch_Reserved14
32	2	0	2	Voice_PolyphonyMode
33	0	0	127	Voice_PortamentoRate
34	64	52	76	Voice_PreGlide
35	64	58	69	Voice_KeyboardOctave
36	2	0	29	Osc1_Wave
37	127	0	127	Osc1_WaveInterpolate
38	64	0	127	Osc1_PulseWidthIndex
39	0	0	127	Osc1_VirtualSyncDepth
40	0	0	127	Osc1_Density
41	0	0	127	Osc1_DensityDetune
42	64	0	127	Osc1_Semitones
43	64	0	127	Osc1_Cents
44	76	52	76	Osc1_PitchBend
45	2	0	29	Osc2_Wave
46	127	0	127	Osc2_WaveInterpolate

47	64	0	127	Osc2_PulseWidthIndex
48	0	0	127	Osc2_VirtualSyncDepth
49	0	0	127	Osc2_Density
50	0	0	127	Osc2_DensityDetune
51	64	0	127	Osc2_Semitones
52	64	0	127	Osc2_Cents
53	76	52	76	Osc2_PitchBend
54	127	0	127	Mixer_Osc1Level
55	0	0	127	Mixer_Osc2Level
56	0	0	127	Mixer_RingModLevel12
57	0	0	127	Mixer_NoiseLevel
58	64	52	82	Mixer_PreFXLevel
59	64	52	82	Mixer_PostFXLevel
60	0	0	2	Filter_Routing
61	0	0	127	Filter_Drive
62	0	0	6	Filter_DriveType
63	1	0	5	Filter_Type
64	127	0	127	Filter_Frequency
65	127	0	127	Filter_Track
66	0	0	127	Filter_Resonance
67	64	0	127	Filter_QNormalise
68	64	0	127	Filter_Env2ToFreq
69	64	0	127	Envelope1_Velocity
70	2	0	127	Envelope1_Attack
71	90	0	127	Envelope1_Decay
72	127	0	127	Envelope1_Sustain
73	40	0	127	Envelope1_Release
74	64	0	127	Envelope2_Velocity
75	2	0	127	Envelope2_Attack
76	75	0	127	Envelope2_Decay
77	35	0	127	Envelope2_Sustain
78	45	0	127	Envelope2_Release
79	0	0	127	Envelope3_Delay
80	10	0	127	Envelope3_Attack
81	70	0	127	Envelope3_Decay
82	64	0	127	Envelope3_Sustain
83	40	0	127	Envelope3_Release
84	0	0	37	LFO1_Waveform
85	0	0	119	LFO1_PhaseOffset
86	0	0	127	LFO1_SlewRate
87	0	0	127	LFO1_Delay
88	0	0	35	LFO1_DelaySync
89	68	0	127	LFO1_Rate
90	0	0	35	LFO1_RateSync
91	0	-	-	LFO1_OneShot (bit 0), LFO1_KeySync (bit 1), LFO1_CommonSync (bit 2), LFO1_DelayTrigger (bit 3), LFO1_FadeMode (bits 4-5)
92	0	0	37	LFO2_Waveform
93	0	0	119	LFO2_PhaseOffset
94	0	0	127	LFO2_SlewRate
95	0	0	127	LFO2_Delay

96	0	0	35	LFO2_DelaySync
97	68	0	127	LFO2_Rate
98	0	0	35	LFO2_RateSync
99	0	-	-	LFO2_OneShot (bit 0), LFO2_KeySync (bit 1), LFO2_CommonSync (bit 2), LFO2_DelayTrigger (bit 3), LFO2_FadeMode (bits 4-5)
100	0	0	127	Distortion_Level
101	0	0	127	FX_Reserved1
102	0	0	127	Chorus_Level
103	0	-	-	FX_Reserved2
104	0	-	-	FX_Reserved3
105	64	0	127	Equaliser_BassFrequency
106	64	0	127	Equaliser_BassLevel
107	64	0	127	Equaliser_MidFrequency
108	64	0	127	Equaliser_MidLevel
109	125	0	127	Equaliser_TrebleFrequency
110	64	0	127	Equaliser_TrebleLevel
111	0	-	-	FX_Reserved4
112	0	-	-	FX_Reserved5
113	0	-	-	FX_Reserved6
114	0	-	-	FX_Reserved7
115	0	-	-	FX_Reserved8
116	0	0	6	Distortion_Type
117	100	0	127	Distortion_Compensation
118	1	0	1	Chorus_Type
119	20	0	127	Chorus_Rate
120	0	0	35	Chorus_RateSync
121	74	0	127	Chorus_Feedback
122	64	0	127	Chorus_ModDepth
123	64	0	127	Chorus_Delay
124	0	0	12	ModMatrix1_Source1
125	0	0	12	ModMatrix1_Source2
126	64	0	127	ModMatrix1_Depth
127	0	0	17	ModMatrix1_Destination
128	0	0	12	ModMatrix2_Source1
129	0	0	12	ModMatrix2_Source2
130	64	0	127	ModMatrix2_Depth
131	0	0	17	ModMatrix2_Destination
132	0	0	12	ModMatrix3_Source1
133	0	0	12	ModMatrix3_Source2
134	64	0	127	ModMatrix3_Depth
135	0	0	17	ModMatrix3_Destination
136	0	0	12	ModMatrix4_Source1
137	0	0	12	ModMatrix4_Source2
138	64	0	127	ModMatrix4_Depth
139	0	0	17	ModMatrix4_Destination
140	0	0	12	ModMatrix5_Source1
141	0	0	12	ModMatrix5_Source2
142	64	0	127	ModMatrix5_Depth
143	0	0	17	ModMatrix5_Destination
144	0	0	12	ModMatrix6_Source1

145	0	0	12	ModMatrix6_Source2
146	64	0	127	ModMatrix6_Depth
147	0	0	17	ModMatrix6_Destination
148	0	0	12	ModMatrix7_Source1
149	0	0	12	ModMatrix7_Source2
150	64	0	127	ModMatrix7_Depth
151	0	0	17	ModMatrix7_Destination
152	0	0	12	ModMatrix8_Source1
153	0	0	12	ModMatrix8_Source2
154	64	0	127	ModMatrix8_Depth
155	0	0	17	ModMatrix8_Destination
156	0	0	12	ModMatrix9_Source1
157	0	0	12	ModMatrix9_Source2
158	64	0	127	ModMatrix9_Depth
159	0	0	17	ModMatrix9_Destination
160	0	0	12	ModMatrix10_Source1
161	0	0	12	ModMatrix10_Source2
162	64	0	127	ModMatrix10_Depth
163	0	0	17	ModMatrix10_Destination
164	0	0	12	ModMatrix11_Source1
165	0	0	12	ModMatrix11_Source2
166	64	0	127	ModMatrix11_Depth
167	0	0	17	ModMatrix11_Destination
168	0	0	12	ModMatrix12_Source1
169	0	0	12	ModMatrix12_Source2
170	64	0	127	ModMatrix12_Depth
171	0	0	17	ModMatrix12_Destination
172	0	0	12	ModMatrix13_Source1
173	0	0	12	ModMatrix13_Source2
174	64	0	127	ModMatrix13_Depth
175	0	0	17	ModMatrix13_Destination
176	0	0	12	ModMatrix14_Source1
177	0	0	12	ModMatrix14_Source2
178	64	0	127	ModMatrix14_Depth
179	0	0	17	ModMatrix14_Destination
180	0	0	12	ModMatrix15_Source1
181	0	0	12	ModMatrix15_Source2
182	64	0	127	ModMatrix15_Depth
183	0	0	17	ModMatrix15_Destination
184	0	0	12	ModMatrix16_Source1
185	0	0	12	ModMatrix16_Source2
186	64	0	127	ModMatrix16_Depth
187	0	0	17	ModMatrix16_Destination
188	0	0	12	ModMatrix17_Source1
189	0	0	12	ModMatrix17_Source2
190	64	0	127	ModMatrix17_Depth
191	0	0	17	ModMatrix17_Destination
192	0	0	12	ModMatrix18_Source1
193	0	0	12	ModMatrix18_Source2
194	64	0	127	ModMatrix18_Depth

195	0	0	17	ModMatrix18_Destination
196	0	0	12	ModMatrix19_Source1
197	0	0	12	ModMatrix19_Source2
198	64	0	127	ModMatrix19_Depth
199	0	0	17	ModMatrix19_Destination
200	0	0	12	ModMatrix20_Source1
201	0	0	12	ModMatrix20_Source2
202	64	0	127	ModMatrix20_Depth
203	0	0	17	ModMatrix20_Destination
204	0	0	127	MacroKnob1_Position
205	0	0	70	MacroKnob1_DestinationA
206	0	0	127	MacroKnob1_StartPosA
207	127	0	127	MacroKnob1_EndPosA
208	64	0	127	MacroKnob1_DepthA
209	0	0	70	MacroKnob1_DestinationB
210	0	0	127	MacroKnob1_StartPosB
211	127	0	127	MacroKnob1_EndPosB
212	64	0	127	MacroKnob1_DepthB
213	0	0	70	MacroKnob1_DestinationC
214	0	0	127	MacroKnob1_StartPosC
215	127	0	127	MacroKnob1_EndPosC
216	64	0	127	MacroKnob1_DepthC
217	0	0	70	MacroKnob1_DestinationD
218	0	0	127	MacroKnob1_StartPosD
219	127	0	127	MacroKnob1_EndPosD
220	64	0	127	MacroKnob1_DepthD
221	0	0	127	MacroKnob2_Position
222	0	0	70	MacroKnob2_DestinationA
223	0	0	127	MacroKnob2_StartPosA
224	127	0	127	MacroKnob2_EndPosA
225	64	0	127	MacroKnob2_DepthA
226	0	0	70	MacroKnob2_DestinationB
227	0	0	127	MacroKnob2_StartPosB
228	127	0	127	MacroKnob2_EndPosB
229	64	0	127	MacroKnob2_DepthB
230	0	0	70	MacroKnob2_DestinationC
231	0	0	127	MacroKnob2_StartPosC
232 233	127 64	0	127 127	MacroKnob2_EndPosC MacroKnob2_DepthC
234	0	0	70	MacroKnob2_Deptilic MacroKnob2_DestinationD
235	0	0	127	MacroKnob2_DestinationD MacroKnob2_StartPosD
236	127	0	127	MacroKnob2_StartrosD MacroKnob2_EndPosD
237	64	0	127	MacroKnob2_End1 635 MacroKnob2_DepthD
238	0	0	127	MacroKnob3_Position
239	0	0	70	MacroKnob3_TestinationA
240	0	0	127	MacroKnob3_StartPosA
241	127	0	127	MacroKnob3_Start 03A MacroKnob3_EndPosA
242	64	0	127	MacroKnob3_DepthA
243	0	0	70	MacroKnob3_DestinationB
244	0	0	127	MacroKnob3_StartPosB

245	127	0	127	MacroKnob3_EndPosB
246	64	0	127	MacroKnob3_DepthB
247	0	0	70	MacroKnob3_DestinationC
248	0	0	127	MacroKnob3_StartPosC
249	127	0	127	MacroKnob3_EndPosC
250	64	0	127	MacroKnob3_DepthC
251	0	0	70	MacroKnob3_DestinationD
252	0	0	127	MacroKnob3_StartPosD
253	127	0	127	MacroKnob3_EndPosD
254	64	0	127	MacroKnob3_DepthD
255	0	0	127	MacroKnob4_Position
256	0	0	70	MacroKnob4_DestinationA
257	0	0	127	MacroKnob4_StartPosA
258	127	0	127	MacroKnob4_EndPosA
259	64	0	127	MacroKnob4_DepthA
260	0	0	70	MacroKnob4_DestinationB
261	0	0	127	MacroKnob4_StartPosB
262	127	0	127	MacroKnob4_EndPosB
263	64	0	127	MacroKnob4_DepthB
264	0	0	70	MacroKnob4_DestinationC
265	0	0	127	MacroKnob4_StartPosC
266	127	0	127	MacroKnob4_EndPosC
267	64	0	127	MacroKnob4_DepthC
268	0	0	70	MacroKnob4_DestinationD
269	0	0	127	MacroKnob4_StartPosD
270	127	0	127	MacroKnob4_EndPosD
271	64	0	127	MacroKnob4_DepthD
272	0	0	127	MacroKnob5_Position
273	0	0	70	MacroKnob5_DestinationA
274	0	0	127	MacroKnob5_StartPosA
275	127	0	127	MacroKnob5_EndPosA
276	64	0	127	MacroKnob5_DepthA
277	0	0	70	MacroKnob5_DestinationB
278	0	0	127	MacroKnob5_StartPosB
279	127	0	127	MacroKnob5_EndPosB
280	64	0	127	MacroKnob5_DepthB
281	0	0	70	MacroKnob5_DestinationC
282	0	0	127	MacroKnob5_StartPosC
283	127	0	127	MacroKnob5_EndPosC
284	64	0	127	MacroKnob5_DepthC
285	0	0	70	MacroKnob5_DestinationD
286 287	0 127	0	127	MacroKnob5_StartPosD MacroKnob5_EndPosD
288	64	0	127 127	MacroKnob5_DepthD
289	0	0	127	MacroKnob6_Position
290	0	0	70	MacroKnob6_DestinationA
290	0	0	127	MacroKnob6_StartPosA
292	127	0	127	MacroKnob6_EndPosA
293	64	0	127	MacroKnob6_DepthA
294	0	0	70	MacroKnob6_DestinationB
		J	, 0	

127	295	0	0	127	MacroKnob6_StartPosB
297 64 0 127 Macroknobe_DepthB 298 0 0 70 Macroknobe_DestinationC 299 0 0 127 Macroknobe_StartPosC 300 127 0 127 Macroknobe_EndPosC 301 64 0 127 Macroknobe_DestinationD 302 0 0 70 Macroknobe_DestinationD 303 0 127 Macroknobe_StartPosD 304 127 0 127 Macroknobe_DepthD 305 64 0 127 Macroknob7_DestinationA 306 0 0 127 Macroknob7_DestinationA 308 0 0 127 Macroknob7_DestinationA 310 64 0 127 Macroknob7_DestinationB 311 0 0 70 Macroknob7_DestinationB 312 0 0 127 Macroknob7_DestinationC 313 127 0 127 Macroknob7_DepthD					_
298 0 0 70 MacroKnob6_ Destination C 299 0 0 127 MacroKnob6_ EstartPosC 300 127 0 127 MacroKnob6_ Destination D 301 64 0 127 MacroKnob6_ Destination D 302 0 0 70 MacroKnob6_ Destination D 303 0 0 127 MacroKnob6_ Destination D 304 127 0 127 MacroKnob6_ Depth D 305 64 0 127 MacroKnob7_ Destination A 306 0 0 70 MacroKnob7_ Destination A 307 0 0 70 MacroKnob7_ StartPosA 308 0 127 MacroKnob7_ Destination A 310 64 0 127 MacroKnob7_ Destination B 311 0 0 70 MacroKnob7_ Destination B 312 0 0 127 MacroKnob7_ StartPosA 313 127 0 127 <td></td> <td></td> <td></td> <td></td> <td>_</td>					_
299 0 0 127 MacroKnob6_StartPosC 300 127 0 127 MacroKnob6_DepthC 302 0 0 70 MacroKnob6_DesthationD 303 0 0 127 MacroKnob6_DesthationD 304 127 0 127 MacroKnob6_DepthD 305 64 0 127 MacroKnob7_Destition 306 0 0 127 MacroKnob7_Destition 307 0 0 70 MacroKnob7_DestitionA 308 0 0 127 MacroKnob7_DestitionA 309 127 0 127 MacroKnob7_DestitionA 310 64 0 127 MacroKnob7_DestinationB 311 0 0 70 MacroKnob7_DestinationB 312 0 0 127 MacroKnob7_DestinationC 313 127 0 127 MacroKnob7_DestinationC 316 0 0 70 Macro					_ :
300 127 0 127 MacroKnobe EndPosC 301 64 0 127 MacroKnobe DepthC 302 0 0 70 MacroKnobe DepthC 303 0 0 127 MacroKnobe StartPosD 304 127 0 127 MacroKnobe DepthD 306 0 0 127 MacroKnobe DepthD 306 0 0 127 MacroKnobe DepthD 307 0 0 70 MacroKnobe DepthD 308 0 0 127 MacroKnobe DeptinationA 308 0 0 127 MacroKnobe DepthA 311 0 0 127 MacroKnobe DepthB 314 64 0 127 MacroKnobe DepthB <t< td=""><td></td><td></td><td></td><td></td><td>_</td></t<>					_
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312 0 0 127 MacroKnob7_StartPosB 313 127 0 127 MacroKnob7_EndPosB 314 64 0 127 MacroKnob7_DepthB 315 0 0 70 MacroKnob7_DestinationC 316 0 0 127 MacroKnob7_StartPosC 317 127 0 127 MacroKnob7_DepthC 318 64 0 127 MacroKnob7_DepthC 319 0 0 70 MacroKnob7_DepthC 319 0 0 127 MacroKnob7_DepthC 319 0 0 127 MacroKnob7_DepthC 319 0 0 127 MacroKnob7_EndPosD 321 127 0 127 MacroKnob8_DepthD 322 64 0 127 MacroKnob8_DepthD 323 0 0 127 MacroKnob8_StartPosA 326 127 0 127 MacroKnob8_DepthA	310	64	0	127	MacroKnob7_DepthA
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315 0 0 70 MacroKnob7_DestinationC 316 0 0 127 MacroKnob7_StartPosC 317 127 0 127 MacroKnob7_EndPosC 318 64 0 127 MacroKnob7_DepthC 319 0 0 70 MacroKnob7_DestinationD 320 0 0 127 MacroKnob7_DepthD 321 127 0 127 MacroKnob7_DepthD 322 64 0 127 MacroKnob8_Position 324 0 0 70 MacroKnob8_DestinationA 325 0 0 127 MacroKnob8_StartPosA 326 127 0 127 MacroKnob8_DepthA 328 0 0 70 MacroKnob8_DestinationB 329 0 0 127 MacroKnob8_DepthB 331 64 0 127 MacroKnob8_DepthB 332 0 0 70 MacroKnob8_DestinationC	313	127	0	127	MacroKnob7_EndPosB
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318 64 0 127 MacroKnob7_DepthC 319 0 0 70 MacroKnob7_DestinationD 320 0 0 127 MacroKnob7_StartPosD 321 127 0 127 MacroKnob7_EndPosD 322 64 0 127 MacroKnob7_DepthD 323 0 0 127 MacroKnob8_Position 324 0 0 70 MacroKnob8_DestinationA 325 0 0 127 MacroKnob8_DestinationA 326 127 0 127 MacroKnob8_EndPosA 327 64 0 127 MacroKnob8_DepthA 328 0 0 70 MacroKnob8_DestinationB 329 0 0 127 MacroKnob8_EndPosB 331 64 0 127 MacroKnob8_DepthB 332 0 0 70 MacroKnob8_StartPosC 334 127 0 127 MacroKnob8_EndPosC	316	0	0	127	MacroKnob7_StartPosC
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335 64 0 127 MacroKnob8_DepthC 336 0 0 70 MacroKnob8_DestinationD 337 0 0 127 MacroKnob8_StartPosD 338 127 0 127 MacroKnob8_EndPosD	333	0	0	127	MacroKnob8_StartPosC
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337	335	64	0	127	MacroKnob8_DepthC
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_	337	0	0	127	MacroKnob8_StartPosD
339 64 0 127 MacroKnob8_DepthD		127	0	127	MacroKnob8_EndPosD
	339	64	0	127	MacroKnob8_DepthD