

No.	Class	Name	Range	Value	Text
PAGE A					
A 0	p	Bank Select	0..3		Bank A..D
A 1	p	Modulation Wheel			
A 2	p	Breath Controller			
A 3	p	Contr 3			
A 4	p	Foot Controller			
A 5	a	Portamento Time	0..127		
A 6	p	Data Slider			
A 7	p	Channel Volume	0..127		
A 8	p	Balance			
A 9	p	Contr 9			
A 10	a	Panorama	0..127	-64..0..+63:	Left..Center..Right
A 11	p	Expression	0..127		
A 12	p	Contr 12			
A 13	p	Contr 13			
A 14	p	Contr 14			
A 15	p	Contr 15			
A 16	p	Contr 16			
A 17	a	Osc1 Shape	0..127	-64..0..+63:	Wave..Saw..Pulse
A 18	a	Osc1 Pulsewidth	0..127		
A 25	a	Osc2 Semitone	0..127	-64..+63	
A 26	a	Osc2 Detune	0..127		
A 27	a	Osc2 FM Amount	0..127		
A 28	a	Osc2 Sync	0..1		0:Off 1:On
A 29	a	Osc2 Filt Env Amt	0..127	-64..+63	
A 30	a	FM Filt Env Amt	0..127	-64..+63	
A 31	a	Osc2 Keyfollow	0..127	-64..+63:	Default: 32
A 32	p	Bank Select	0..3		Bank A..D
A 33	a	Osc Balance	0..127	-64..+63:	
A 34	a	Suboscillator Volume	0..127		
A 35	a	Suboscillator Shape	0..1		0:Square 1:Triangle
A 36	a	Osc Mainvolume	0..127		
A 37	a	Noise Volume	0..127		
A 38	a	Ringmodulator Volume	0..127		
A 39	a,Vb	Noise Color	0..127	-64..0..+63	
A 40	a	Cutoff	0..127		

No.	Class	Name	Range	Value	Text
A 41	a	Cutoff2	0..127	-64..+63	
A 42	a	Filter1 Resonance	0..127		
A 43	a	Filter2 Resonance	0..127		
A 44	a	Filter1 Env Amt	0..127		
A 45	a	Filter2 Env Amt	0..127		
A 46	a	Filter1 Keyfollow	0..127	-64..+63	
A 47	a	Filter2 Keyfollow	0..127	-64..+63	
A 48	a	Filter Balance	0..127	-64..+63	
A 49	a	Saturation Curve	0..6		0:Off 1:Light 2:Soft 3:Middle 4:Hard 5:Digital ..
A 51	a	Filter1 Mode	0..3		0:LP 1:HP 2:BP 3:BS
A 52	a	Filter2 Mode	0..3		0:LP 1:HP 2:BP 3:BS
A 53	a	Filter Routing	0..3		0:Ser4 1:Ser6 2:Par4 3:Split
A 54	a	Filter Env Attack	0..127		
A 55	a	Filter Env Decay	0..127		
A 56	a	Filter Env Sustain	0..127		
A 57	a	Filter Env Sustain Time	0..127	-64..+63:	Fall..Infinite..Rise
A 58	a	Filter Env Release	0..127		
A 59	a	Amp Env Attack	0..127		
A 60	a	Amp Env Decay	0..127		
A 61	a	Amp Env Sustain	0..127		
A 62	a	Amp Env Sustain Time	0..127	-64..+63:	Fall..Infinite..Rise
A 63	a	Amp Env Release	0..127		
A 64	p	Hold Pedal			
A 65	p	Portamento Pedal			
A 66	p	Sostenuto Pedal			
A 67	a	Lfo1 Rate	0..127		
A 68	a	Lfo1 Shape	0..5		0:Sine 1:Tri 2:Saw 3:Square 4:S&H 5:S&G ..
A 69	a	Lfo1 Env Mode	0..1		0:Off 1:On
A 70	a	Lfo1 Mode	0..1		0:Poly 1:Mono
A 71	a	Lfo1 Symmetry	0..127	-64..+63	
A 72	a	Lfo1 Keyfollow	0..127		
A 73	a	Lfo1 Keytrigger	0..127		0:Off, 1..127:Keytrigger Phase
A 74	a	Osc1 Lfo1 Amount	0..127	-64..+63	
A 75	a	Osc2 Lfo1 Amount	0..127	-64..+63	
A 76	a	PW Lfo1 Amount	0..127	-64..+63	
A 77	a	Reso Lfo1 Amount	0..127	-64..+63	
A 78	a	FiltGain Lfo1 Amount	0..127	-64..+63	
A 79	a	Lfo2 Rate	0..127		
A 80	a	Lfo2 Shape	0..5		0:Sine 1:Tri 2:Saw 3:Square 4:S&H 5:S&G ..

No.	Class	Name	Range	Value	Text
A 81	a	Lfo2 Env Mode	0..1		0:Off 1:On
A 82	a	Lfo2 Mode	0..1		0:Poly 1:Mono
A 83	a	Lfo2 Symmetry	0..127	-64..+63	
A 84	a	Lfo2 Keyfollow	0..127		
A 85	a	Lfo2 Keytrigger	0..127		0:Off, 1..127:Keytrigger Phase
A 86	a	OscShape Lfo2 Amount	0..127	-64..+63	
A 87	a	FmAmount Lfo2 Amount	0..127	-64..+63	
A 88	a	Cutoff1 Lfo2 Amount	0..127	-64..+63	
A 89	a	Cutoff2 Lfo2 Amount	0..127	-64..+63	
A 90	a	Panorama Lfo2 Amount	0..127	-64..+63	
A 91	a	Patch Volume	0..127		
A 93	a	Transpose	0..127	-64..+63	
A 94	a	Key Mode	0..4		0:Poly 1..4: Mono1-4
A 97	a	Unison Mode	0..15		0:Off 1:Twin 2..15
A 98	a	Unison Detune	0..127		
A 99	a	Unison Panorama Spread	0..127		
A100	a	Unison Lfo Phase	0..127	-64..+63	
A101	a	Input Mode	0..2		0:Off 1:Dynamic 2:Static 3:ToEffects
A102	a	Input Select	0..8		0:In1L 1:In1L+R 2:In1R ..
A105	a	Chorus Mix	0..127		
A106	a	Chorus Rate	0..127		
A107	a	Chorus Depth	0..127		
A108	a	Chorus Delay	0..127		
A109	a	Chorus Feedback	0..127	-64..+63	
A110	a	Chorus Lfo Shape	0..5		0:Sine 1:Tri 2:Saw 3:Square 4:S&H 5:S&G ..
A112	a	Delay/Reverb Mode	0..1		0:Off 1:Delay 2:Reverb 3:Rev+Feedb1
A113	a,ms	Effect Send	0..127		
A114	a,ms, np	Delay Time	0..127		
A115	a,ms, np	Delay Feedback	0..127		
A116	a,ms, np	Delay Rate	0..127		
		Reverb Decay Time	0..127		
A117	a,ms, np	Delay Depth	0..127		
		Reverb Room Size	0..3		0:Ambience 1:SmallRoom 2:LargeRoom 3:Hall
A118	a,ms, np	Delay Lfo Shape	0..5		0:Sine 1:Tri 2:Saw 3:Square 4:S&H 5:S&G ..
		Reverb Damping	0..127		
A119	a,ms, np	Delay Color	0..127	-64..+63	
A122	g	Keyb Local	0..1		0:Off 1:On
A123	p	All Notes Off			

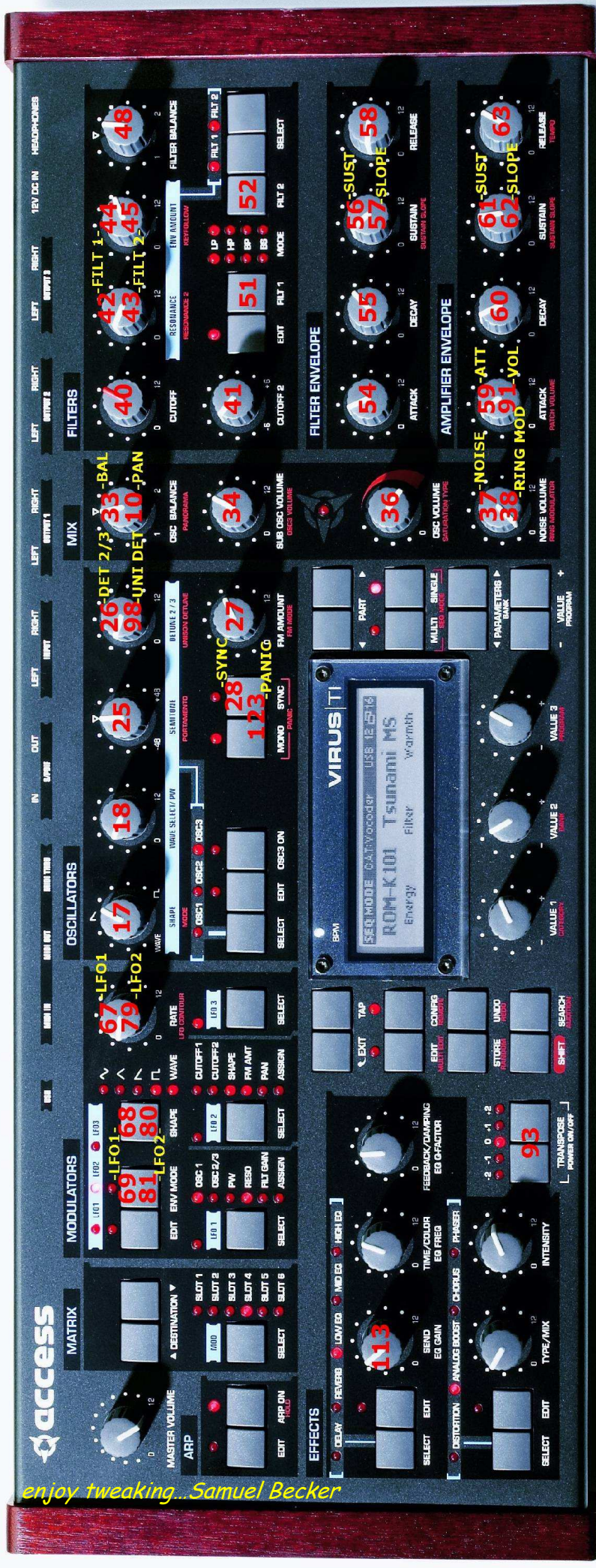
No.	Class	Name	Range	Value	Text
PAGE B					
B 1	b	Arp Mode	0..6		0:Off 1:Up 2:Down 3:Up&Down 4:AsPlayed 5:Random 6:Chord
B 2	b	Arp Pattern Select	0..31		
B 3	b	Arp Octave Range	0..3		
B 4	b	Arp Hold Enable	0..1		0:Off 1:On
B 5	b	Arp Note Length	0..127	-64..+63c	
B 6	b	Arp Swing	0..127	50%..75%	
B 7	b	Lfo3 Rate	0..127		
B 8	b	Lfo3 Shape	0..5		0:Sine 1:Tri 2:Saw 3:Square 4:S&H 5:S&G ..
B 9	b	Lfo3 Mode	0..1		0:Poly 1:Mono
B 10	b	Lfo3 Keyfollow	0..127		
B 11	b	Lfo3 Destination	0..5		0:Osc1 1:Osc1+2 2:Osc2 3:PW1 4:PW1+2 5:PW2
B 12	b	Osc Lfo3 Amount	0..127		
B 13	b	Lfo3 Fade-In Time	0..127		
B 16	b	Clock Tempo	0..127	63..190 BPM	
B 17	b	Arp Clock	1..17	1/64..1/1	
B 18	b	Lfo1 Clock	0..19		Off, 1/64..4/1
B 19	b	Lfo2 Clock	0..19		Off, 1/64..4/1
B 20	b,ms, np	Delay Clock	0..16		Off, 1/64..3/4
B 21	b	Lfo3 Clock	0..19		Off, 1/64..4/1
B 25	b	Control Smooth Mode	0..3		0:Off, 1:On, 2:Auto, 3:Note
B 26	b	Bender Range Up	0..127	-64..+63	
B 27	b	Bender Range Down	0..127	-64..+63	
B 28	b	Bender Scale	0..1		0:Linear 1:Exponential
B 30	b	Filter1 Env Polarity	0..1		0:Negative 1:Positive
B 31	b	Filter2 Env Polarity	0..1		0:Negative 1:Positive
B 32	b	Filter2 Cutoff Link	0..1		0:Off 1:On
B 33	b	Filter Keytrack Base	0..127		C-1..G9
B 34	b,Vb	Osc FM Mode	0..12		0:Pos-Tri 1:Tri 2:Wave 3:Noise 4:ln L 5:ln L+R ..
B 35	b	Osc Init Phase	0..127		0:Off 1..127
B 36	b	Punch Intensity	0..127		
B 38	b,Vb	Input Follower Mode	0..9		0:Off 1:ln L 2:ln L+R ...
B 39	b	Vocoder Mode	0..12		0:Off 1:Osc 2:OscHold 3:Noise 4:ln L 5:ln L+R ..
B 41	b,Vb	Osc3 Mode	0..67		0:Off 1:Osc2Slave 2:Saw 3:Pulse 4:Sine 5 Triangle ..

No.	Class	Name	Range	Value	Text
B 42	b,Vb	Osc3 Volume	0..127		
B 43	b,Vb	Osc3 Semitone	0..127	-64..+63	
B 44	b,Vb	Osc3 Detune	0..127		
B 47	b	Osc1 Shape Velocity	0..127	-64..+63	
B 48	b	Osc2 Shape Velocity	0..127	-64..+63	
B 49	b	PulseWidth Velocity	0..127	-64..+63	
B 50	b	Fm Amount Velocity	0..127	-64..+63	
B 54	b	Filter1 EnvAmt Velocity	0..127	-64..+63	
B 55	b	Filter1 EnvAmt Velocity	0..127	-64..+63	
B 56	b	Resonance1 Velocity	0..127	-64..+63	
B 57	b	Resonance2 Velocity	0..127	-64..+63	
B 58	b	Second Output Balance	0..127		0:Off 1..127: Front..Center..Rear
B 60	b	Amp Velocity	0..127	-64..+63	
B 61	b	Panorama Velocity	0..127	-64..+63	
B 62	b	Definable1 Single			see Definable List
B 63	b	Definable2 Single			see Definable List
B 64	b	Assign1 Source			see Assign Sources List
B 65	b	Assign1 Destination			see Assign Destinations List
B 66	b	Assign1 Amount	0..127	-64..+63	
B 67	b	Assign2 Source			see Assign Sources List
B 68	b	Assign2 Destination1			see Assign Destinations List
B 69	b	Assign2 Amount1	0..127	-64..+63	
B 70	b	Assign2 Destination2			see Assign Destinations List
B 71	b	Assign2 Amount2	0..127	-64..+63	
B 72	b	Assign3 Source			see Assign Sources List
B 73	b	Assign3 Destination1			see Assign Destinations List
B 74	b	Assign3 Amount1	0..127	-64..+63	
B 75	b	Assign3 Destination2			see Assign Destinations List
B 76	b	Assign3 Amount2	0..127	-64..+63	
B 77	b	Assign3 Destination3			see Assign Destinations List
B 78	b	Assign3 Amount3	0..127	-64..+63	
B 79	b	LFO1 Assign Dest			see Assign Destinations List
B 80	b	LFO1 Assign Amount	0..127	-64..+63	
B 81	b	LFO2 Assign Dest			see Assign Destinations List

No.	Class	Name	Range	Value	Text
B 82	b	LFO2 Assign Amount	0..127	-64..+63	
B 84	b,Vb	Phaser Mode	0..6		0:Off,1..6 Phaser Stages
B 85	b,Vb	Phaser Mix	0..127		
B 86	b,Vb	Phaser Rate	0..127		
B 87	b,Vb	Phaser Depth	0..127		
B 88	b,Vb	Phaser Frequency	0..127		
B 89	b,Vb	Phaser Feedback	0..127	-64..+63	
B 90	b,Vb	Phaser Spread	0..127		
B 97	b,Vb	Bass Intensity	0..127		
B 98	b,Vb	Bass Tune	0..127		
B 99	b,Vb	Input Ringmodulator	0..127		0:Off 1..127: Direct..Ringmodulator..Input
B100	b,Vb	Distortion Curve	0..6		0:Off 1:Light 2:Soft 3:Middle 4:Hard 5:Digital ..
B101	b,Vb	Distortion Intensity	0..127		
B112	b	Single Name Char1	32..127	ASCII	
B113	b	Single Name Char2	32..127	ASCII	
B114	b	Single Name Char3	32..127	ASCII	
B115	b	Single Name Char4	32..127	ASCII	
B116	b	Single Name Char5	32..127	ASCII	
B117	b	Single Name Char6	32..127	ASCII	
B118	b	Single Name Char7	32..127	ASCII	
B119	b	Single Name Char8	32..127	ASCII	
B120	b	Single Name Char9	32..127	ASCII	
B121	b	Single Name Char10	32..127	ASCII	
B122	b	Filter Select	0..2		0:Filt1 1:Filt2 2:Filt1*2
B123	b,Vb				Category1
B124	b,Vb				Category2

No.	Class	Name	Range	Value	Text
Page C					
C 5	m,np	Multi Name Char1	32..127	ASCII	
C 6	m,np	Multi Name Char2	32..127	ASCII	
C 7	m,np	Multi Name Char3	32..127	ASCII	
C 8	m,np	Multi Name Char4	32..127	ASCII	
C 9	m,np	Multi Name Char5	32..127	ASCII	
C 10	m,np	Multi Name Char6	32..127	ASCII	
C 11	m,np	Multi Name Char7	32..127	ASCII	
C 12	m,np	Multi Name Char8	32..127	ASCII	
C 13	m,np	Multi Name Char9	32..127	ASCII	
C 14	m,np	Multi Name Char10	32..127	ASCII	
C 22	m,np	Delay Output Select	0..14		0:Out1L 1:Out1L+R 2:Out1R ..
C 31	m,bp c	Part Bank Select	0..3	Bank A..D	
C 32	m,bp c	Part Bank Change	0..3	Bank A..D	
C 33	m,bp c	Part Program Change	0..127		
C 34	m	Part Midi Channel	0..15	1..16	
C 35	m	Part Low Key	0..127	C-1..G9	
C 36	m	Part High Key	0..127	C-1..G9	
C 37	m	Part Transpose	0..127	-64..+63	
C 38	m	Part Detune	0..127	-64..+63	
C 39	m	Part Volume	0..127	-64..+63	0=Unity Gain
C 40	m	Part Midi Volume Init	0..127	Off, 1..127	
C 41	m	Part Output Select	0..14		0:Out1L 1:Out1L+R 2:Out1R ..
C 45	g	Second Output Select	0..15		0:Off 1:Out1L 2:Out1L+R 3:Out1R ..
C 63	g	Keyb Transpose Buttons	0..1		0:Patch 1:Keyb
C 64	g	Keyb Local	0..1		0:Off 1:On
C 65	g	Keyb Mode	0..1		0:OneChannel 1:MultiChannels
C 66	g	Keyb Transpose	0..127	-64..+63	
C 67	g	Keyb ModWheel Contr			see Keyboard Destination List
C 68	g	Keyb Pedal 1 Contr			see Keyboard Destination List
C 69	g	Keyb Pedal 2 Contr			see Keyboard Destination List
C 70	g	Keyb Pressure Sens	0..127		0:Off 1..127
C 72	m	Part Enable	0..1		0:Off 1:On
C 73	m	Part Midi Volume Enable	0..1		0:Off 1:On
C 74	m	Part Hold Pedal Enable	0..1		0:Off 1:On
C 75	m	Keyb To Midi	0..1		0:Off 1:On
C 77	m	Note Steal Priority	0..1		0:Low 1:High
C 78	m	Part Prog Change Enable	0..1		0:Off 1:On

No.	Class	Name	Range	Value	Text
C 85	g	Glob Prog Change Enable	0..1		0:Off 1:On
C 86	g	MultiProg Change Enable	0..1		0:Off 1:On
C 87	g	Glob Midi Volume Enable	0..1		0:Off 1:On
C 90	g	Input Thru Level	0..127		
C 91	g	Input Boost	0..127		
C 92	g	Master Tune	0..127	-64..+63	
C 93	g	Device ID	0..16	1..16, Omni	
C 94	g	Midi Control Low Page	0..1		0:SysEx 1:Contr
C 95	g	Midi Control High Page	0..1		0:SysEx 1:PolyPrs
C 96	g	Midi Arpeggiator Send	0..1		0:Off 1:On
C 97	g	Knob Display	0..3		0:Off 1:Short 2:Long 3:On
C 98	g	Midi Dump Tx	0..4		0:Single 1:SingleBankA 2:Single-BankB ..
C 99	g	Midi Dump Rx	0..4		0:Disable 1:Enable 2:ForceTo-BankA ..
C105	g	Multi Program Change	0..127		
C106	g	Midi Clock Rx			0:Disable 1:Auto 2:Send
C110	g	Definable1 Mode	0..2		0:Single 1:Global 2:Midi
C111	g	Definable2 Mode	0..2		0:Single 1:Global 2:Midi
C112	g	Definable1 Global			see Definable List
C113	g	Definable2 Global			see Definable List
C114	g	Definable1 Midi	0..127		
C115	g	Definable2 Midi	0..127		
C116	g	Expert Mode	0..1		0:off 1:On
C117	g	Knob Mode	0..3		0:Off 1:Jump 2:Snap 3:Relative
C118	g	Memory Protect	0..1		0:off 1:On
C120	g	Soft Thru	0..1		0:off 1:On
C121	g	Panel Destination	0..2		0:Internal 1:Int+Midi 2:Midi
C122	g	Play Mode	0..2		0:Single 1:MultiSingle 2:Multi
C123	g	Part Number	0..15;40		0..15:Multi Part 1..16; 40:Single Buffer
C124	g	Global Channel	0..15	1..16	
C125	g	Led Mode	0..2		0:Lfo 1:Input 2:Auto ..
C126	g	LCD Contrast	0..127		
C127	g	Master Volume	0..127		



enjoy tweaking... Samuel Becker